# A Study in Green: Investigating Secondary Metabolite Profiles in Thirteen Grassland Plant Species

# Dissertation

zur Erlangung des Doktorgrades der Naturwissenschaften (Dr. rer. nat.)

der

Naturwissenschaftlichen Fakultät I Biowissenschaften

der Martin-Luther-Universität Halle-Wittenberg,

vorgelegt

von Frau Susanne Marr geb. am 24.11.1989 in Potsdam

GUTACHTER 1: HELGE BRÜHLHEIDE GUTACHTER 2: STEFFEN NEUMANN GUTACHTER 3: SERGIO RASMANN

DATUM DER VERTEIDIGUNG: 11.07.2023

© 2023 S. Marr

The copyright of this thesis rests with the author of this thesis. Presented data and quotations from it should not be published without the author's prior consent. Information derived from it should be acknowledged. Chapter 1 has previously been published in a peer-review journal; all rights rest with the authors.

"ONE'S IDEAS MUST BE AS BROAD AS NATURE IF THEY ARE TO INTERPRET NATURE" SHERLOCK HOLMES A Study in Scarlet, by Arthur Conan Doyle; Chapter 5

# A Study in Green: Investigating Secondary Metabolite Profiles in Thirteen Grassland Plant Species

## **CONTENTS**

Summary	
Zusammenfassung	V
INTRODUCTION	1
CHAPTER 1	5
Chapter 2	21
Chapter 3	39
DISCUSSION	65
References	71
Appendix	VII
Appendix – Chapter 1	IX
Appendix – Chapter 2	XXXIII
Appendix – Chapter 3	XXXIX
CURRICULUM VITAE	XCI
Acknowledgements	XCIII
Eidesstattliche Erklärung	XCV

### **SUMMARY**

As ecometabolomics gains more and more interest, not just as a tool to investigate the metabolomic adaptations but also to bring them in context with the plant community level, the need for tailored and structured methods that effectively combine both the vast amount of metabolomics data and the natural diversity in ecological data increases rapidly. The standardised methods used in ecological experiments provide the opportunity to describe characteristics of plants on both the individual plant level, e.g. developmental stages and the community level, e.g. species diversity. Plant metabolite profiles directly reflect these environmental dynamics and provide the opportunity to investigate and gain insights into plant adaptations in different ecological contexts and schemes on yet another level. Especially secondary metabolites are often associated with responses to abiotic and biotic stress factors, such as seasonal changes and varying plant community neighbourhoods. However, experiments conducted in natural and semi-natural environments come with a combination of factors that can not always be accounted for. These unpredictable variations require tailored experimental designs, methods and data curation to capture the complexity of both ecological experiments and precise metabolomic data. Therefore, this study aims to combine methods and analysis strategies established for and successfully used in metabolomics and ecological studies to meet the custom requirements of ecometabolomic datasets to make metabolic profiles usable as standardised traits, especially regarding secondary metabolites.

This thesis used UPLC-ESI-Qq-TOF-MS to acquire metabolic profiles of the aboveground tissues in seven grass and six herb plant species across four seasons. The performance of different statistical methods (partial least squares, support vector machines and random forests) was tested for their usability, accuracy and predictive power on different matrices generated in this ecometabolomic study. These methods were tested on three independent data sets; two acquired in a field experiment and one in an outdoor greenhouse experiment. Plant samples were collected from neighbourhoods with different compositions, accompanied by trait records concerning both the individual plant and the plot community level. The data sets provided four different levels of metabolite profile complexity, ranging from distinct to similar profiles for comparison. Raw data and all workflows used to analyse the data sets in this thesis are published and available in the respective data repositories.

Chapter one of this thesis focuses on acquiring metabolite profile data of the aboveground tissues of thirteen grassland species in a semi-maintained field experiment (The Jena Experiment – Trait-based-experiment) from diverse plant communities across the growing season in 2017. This chapter mainly focussed on data curation, providing a comprehensive, reproducible workflow for pre-processing and curating the acquired data with missing data imputation, batch correction and validity checks on features and samples. The second chapter comprehensively demonstrates and discusses the challenges of such ecometabolomics studies. The ecometabolomic data sets used in this study demonstrate the usability of already established statistical methods on metabolomic data on four different levels with varying similarities of the profiles, starting with very distinct profiles in the functional group level and species level, down to similar profiles within the same species across the season and diversity levels. Depending on the metabolic profiles used within an experiment, guidance is provided to choose the most suitable statistical methods for the question. For the data handling, both the data amount from metabolomics analysis and dynamics from field experiments needed to be taken into account to investigate ecometabolomics data sets and to draw conclusions about underlying mechanisms reflected in the metabolite profiles. Here it was found that choosing a suitable classification method depended mainly on the complexity of the provided background for classification. Adapting existing methods to the needs of ecometabolomic data sets provided the opportunity to use more diverse data acquired for and relevant to ecological contexts. The third chapter focused on exploring the dynamics of the metabolic profiles of leaves in thirteen grassland plant species. This study investigated the chemical dynamics in the metabolomic fingerprints as a response to a changing neighbourhood regarding plant species richness and diversity caused by different seasons. The metabolite profiles across species were found to be very distinguishable compared to the within species profiles that were found to be more similar while still reflecting dynamics in seasonal and community changes.

This thesis focused on providing a road map for integrating metabolomics data to complex ecological environments and implementing reproducible, standardised methods across multiple experimental setups. Unravelling specific mechanisms reflected in the metabolic profiles will provide insights into underlying ecosystem functions.

## ZUSAMMENFASSUNG

Da Ecometabolomics nicht nur als Werkzeug zur Untersuchung metabolischer Anpassungen, sondern auch zur Einordnung dieser im Kontext von Pflanzengemeinschaften immer mehr Interesse weckt, steigt der Bedarf an maßgeschneiderten und strukturierten Methoden, die sowohl die Vielzahl an metabolomischen Daten, als auch die natürliche Vielfalt an ökologischen Daten effektiv kombinieren können. Die standardisierten Methoden, die in ökologischen Experimenten verwendet werden, bieten die Möglichkeit, Eigenschaften von Pflanzen sowohl auf der individuellen Pflanzenebene, z.B. Entwicklungsstadien, als auch auf der Gemeinschaftsebene, z.B. Artenvielfalt, zu beschreiben. Die metabolomischen Profile von Pflanzen spiegeln direkt diese Umweltdynamik wider und bieten die Möglichkeit, Pflanzenanpassungen in verschiedenen ökologischen Kontexten und Schemata auf einer weiteren Ebene zu untersuchen. Insbesondere Sekundärmetabolite sind oft mit Reaktionen auf abiotische und biotische Stressfaktoren verbunden, wie z.B. saisonale Veränderungen und unterschiedliche Pflanzennachbarschaften. Experimente, die in natürlichen und semi-natürlichen Umgebungen durchgeführt werden, bringen jedoch Kombinationen von Faktoren mit sich, die nicht immer berücksichtigt werden können. Diese unvorhersehbaren Variationen erfordern maßgeschneiderte experimentelle Designs, Methoden und Datenpflege, um die Komplexität sowohl ökologischer Experimente als auch präziser metabolomischer Daten zu erfassen. Diese Dissertation zielt daher darauf ab, Methoden und Analysestrategien, die in der Metabolomik und in ökologischen Studien bereits etabliert und erfolgreich eingesetzt wurden, zu kombinieren, um den speziellen Anforderungen von Ecometabolomic Datensätzen gerecht zu werden und metabolische Profile als standardisierte Charakteristik nutzbar zu machen; insbesondere im Hinblick auf Sekundärmetabolite.

In dieser Arbeit wurde UPLC-ESI-Qq-TOF-MS verwendet, um metabolomische Profile der oberirdischen Gewebe von sieben Gras- und sechs Kräuterpflanzenarten über vier Jahreszeiten hinweg zu erfassen. Die Leistungsfähigkeit verschiedener statistischer Methoden (partial least squares, support vector machines and random forests) wurde auf unterschiedlichen Matrizen, die im Rahmen der vorliegenden Ecometabolomik-Studie generiert wurden, auf ihre Nutzbarkeit, Genauigkeit und Vorhersagekraft getestet. Diese Methoden wurden an drei unabhängigen Datensätzen getestet, von denen zwei in einem Feldexperiment und einer in einem Freiland-Gewächshaus-Experiment erhoben wurden. Pflanzenproben wurden aus Nachbarschaften mit unterschiedlicher Zusammensetzung entnommen und von Merkmalsaufzeichnungen begleitet, die sowohl die individuelle Pflanze als auch die Gemeinschaftsebene des Versuchs betrafen. Die Datensätze lieferten vier verschiedene Ebenen von metabolomischer Profilkomplexität, die von *sehr unterschiedlich* bis hin zu *sehr ähnlich* reichten. Die Rohdaten, sowie die erstellten Workflows für die Analyse der Daten sind in den jeweiligen Datenarchiven auf MetaboLights verfügbar.

Kapitel eins dieser Dissertation beschreibt die Erhebung von metabolomischen Profildaten der oberirdischen Gewebe von dreizehn Graslandarten in einem halbgepflegten Feldexperiment (Das Jena Experiment - Traitbased-experiment) aus verschiedenen Pflanzengemeinschaften während der Wachstumsperiode 2017. Dieses Kapitel konzentriert sich hauptsächlich auf die Datenkuration und lieferte einen umfassenden, reproduzierbaren Workflow zur Vorverarbeitung und Handhabung der erworbenen Daten mit Imputation von fehlenden Daten, Chargenbedingter-Messkorrektur und Validitätsprüfungen von Merkmalen und Proben. Im zweiten Kapitel werden die Herausforderungen von Ecometabolomics Studien umfassend demonstriert und diskutiert. Die hier verwendeten Ecometabolom Datensätze demonstrieren die Verwendbarkeit bereits etablierter statistischer Methoden auf metabolomische Daten auf vier verschiedenen Ebenen mit zunehmender Ähnlichkeit der Profile über die Ebenen hinweg, beginnend mit sehr unterschiedlichen Profilen zwischen funktionellen Gruppen und Arten bis hin zu ähnlichen Profilen innerhalb derselben Art über verschiedene Jahreszeiten und Diversitätsstufen. Abhängig von den verwendeten metabolomischen Profilen innerhalb eines Experiments wird ein Vorschlag zur Auswahl der am besten geeigneten statistischen Methoden für die gestellte Frage bereitgestellt. Für die Datenverarbeitung mussten sowohl die Datenmenge aus der Metabolomik-Analyse als auch die Dynamik aus Feldexperimenten berücksichtigt werden, um Ecometabolomik-Datensätze zu untersuchen und Schlüsse über zugrunde liegende Mechanismen zu ziehen, die in den metabolomischen Profilen widergespiegelt werden. Die Auswahl einer geeigneten Klassifizierungsmethode hing hauptsächlich von der Komplexität des bereitgestellten Hintergrunds für die Klassifizierung ab. Die Anpassung bestehender Methoden an die Bedürfnisse spezifizierter Datensätze bot die Möglichkeit, vielfältigere Daten zu verwenden, die für ökologische Zusammenhänge relevant sind. Das dritte Kapitel konzentriert sich darauf, die Dynamik der metabolischen Profile von Blättern in dreizehn Graslandpflanzenarten zu erforschen. Diese Studie untersuchte die chemischen Dynamiken in den metabolomischen Fingerabdrücken als Reaktion auf eine sich ändernde Nachbarschaft in Bezug auf die

Artenvielfalt und Diversität, die durch verschiedene Jahreszeiten ausgelöst wurde. Die metabolomischen Profile zwischen den Arten waren im Vergleich zu den innerhalb der Arten gefundenen Profilen klar unterscheidbar, während sie dennoch die Dynamik saisonaler und gemeinschaftlicher Veränderungen widerspiegelten. Die vorliegende Dissertation hatte zum Ziel, einen Fahrplan für die Integration von Metabolomik-Daten in komplexe ökologische Umgebungen zu liefern und reproduzierbare, standardisierte Methoden über verschiedene experimentelle Setups hinweg umzusetzen. Die Entschlüsselung spezifischer Mechanismen, die in den metabolomischen Profilen widergespiegelt werden, wird Einblicke in die zugrundeliegenden ökologischen Funktionen ermöglichen.

## **INTRODUCTION**

"Criminal cases are continually hinging upon that one point. A man is suspected of a crime months perhaps after it has been committed. His linen or clothes are examined, and brownish stains discovered upon them. Are they blood stains, or mud stains, or rust stains, or fruit stains, or what are they? That is a question which has puzzled many an expert, and why? Because there was no reliable test..."

Sherlock Holmes, A Study in Scarlet by A. C. Doyle, 1887

... except, now there is!

Metabolomics has become a powerful tool to identify compounds and unravel underlying metabolomic variations within biological systems (Weston et al. 2015). Describing the entirety of metabolites in a living organism (Fang et al. 2019, Walker et al. 2022), metabolomics usually refers to the systematic study of chemical compounds regulated by cellular biochemical processes (Weston et al. 2015). By reflecting the current state of a plant (Weston et al. 2015), metabolites serve as a biochemical bridge between a plants genotype, phenotype, and the environment (Fiehn 2002, Weston et al. 2015, Berini et al. 2018, Fang et al. 2019), balancing resources between fitness, reproduction and defence strategies (Walker et al. 2022). While primary metabolites support growth, reproduction, and stability (Obata & Fernie 2012, Sulpice & McKeown 2015, Weston et al. 2015, Fernandez et al. 2019, Ober & Hartmann 2000, Quinn et al. 2014). Secondary metabolites are also of interest to food, health (Rai et al. 2017) and the cosmetics industry (Rochfort 2005), enhancing the general interest in elucidating and predicting underlying mechanisms (Gromski et al. 2015, Fang et al. 2015).

Since secondary metabolites hold a wide range of effects on the interaction of plants with their environment (Berini et al. 2018), using metabolomics within ecological experimental setups has the potential to improve the predictive power of ecological traits (Walker et al. 2022). Classical ecological traits, such as plant height, developmental stage and carbon/nitrogen contents, are commonly used to evaluate plant performance, particularly in connection with dynamics in plant species richness and diversity within plant communities (Scherling et al. 2010). Species loss and changing plant diversity, in general, are increasingly becoming one of the biggest drivers and motivations for ecosystem research (Hooper et al. 2005) and the urge to understand underlying processes that shape the networks in which plants interact with the constantly changing abiotic environment and the biotic community (Vandenkoornhuyse et al. 2015). Across these environmental dynamics, plants continuously need to balance the resources between their primary metabolism - dealing with growth and biomass production - and secondary metabolism, used for defence against herbivores and pathogens (Wright et al. 2004, Díaz et al. 2016, Gargallo-Garriga et al. 2020). The effect of environmental conditions on the metabolite profiles of plants is mainly influenced by water, light and nutrient availability, leading to plant neighbourhood composition dynamics and, as a result, pathogen and herbivore interactions (Scherling et al. 2010). Ristok et al. (2022), for example, showed that increasing plant species richness led to decreasing rates of herbivory in some species and showed a positive effect of diversity on primary productivity. While many diversity studies have shown positive relationships between species richness and primary productivity (Balvanera et al. 2006, Cardinale et al. 2007), Scherling et al. (2010) point out that these findings can be highly species specific in certain compositions and biogeographic contexts and are not necessarily transferable to other systems.

Ecological questions are often answered by comparing functional traits (Walker et al. 2022) in field experiments (e.g. plant height, leaf area and carbon/nitrogen contents) to help understand drivers of temporal community stability and enable predictability of ecosystem services. Plant functional traits are standardised sets of characteristics that provide a metric for measuring and comparing species (Violle et al. 2007). These classical physiological traits are the tool of choice to describe and characterise organisms and their interactions with the environment, which might be limited in elucidating the underlying mechanisms of ecosystems. Visible functional traits are a combination of underlying physio-chemical processes. They are limited in their information content compared to high-resolution and high-throughput analysis techniques, e.g. metabolomics, making it challenging to predict them as single traits (Walker et al. 2022). Metabolic profiles, on the other hand, represent plant fitness between and within generations and are a great addition to classical traits (Walker et al. 2022). Hence, combining visible ecological traits with metabolomics is essential to elucidate the underlying mechanisms of plants' interaction with their environment. Ecometabolomics studies include metabolomics to answer ecological questions (van Dam & van der Meijden 2011) and support classical physiological traits (Walker et al. 2022). Previous studies showed the change in secondary metabolite abundances as a response to environmental changes in different species (Weston et al. 2015, Berini et al. 2018). These include both abiotic and biotic factors. For instance, plant metabolite abundances can change rapidly or progressively (Schuman & Baldwin 2016). Therefore, the distinction between short- and long-term responses is of particular interest. Assuming that plants have a fixed set of defence strategies (Zanne et al. 2014), we would also expect to find similar responses to similar environmental pressure factors. Scherling et al. (2010) were already able to show that similar herb species respond with similar strategies and changes to their metabolic profiles to species richness in the direct neighbourhood. For instance, plant neighbourhood diversity affects plant performance (Scherling et al. 2010, Chiapusio et al. 2018) and metabolite profiles in terms of richness and composition (Scherling et al. 2010, Ristok et al. 2022). One reason for these changes might lie in inducing the production of allelopathic compounds (Baldwin et al. 2006, Fernandez et al. 2016). Plant species diversity and metabolite diversity affect herbivory rates (M-25: Ebeling & Meyer et al. 2014, Ristok et al. 2022), broadening the range of potential host plants and enabling herbivores to locate potential host plants through specific metabolites (Agrawal & Weber 2015). Shifts in metabolite profiles can also occur due to resource limitations that reflect and alter plant species richness and diversity (Scherling et al. 2010) and influence fitness and productivity (Walker et al. 2022), which leads to environment-dependent profiles (Berini et al. 2018). Furthermore, secondary metabolite profiles change along temperature gradients (Berini et al. 2018, Defossez et al. 2021) and can depend on plant height (Scherling et al. 2010) and developmental stage (Mandal et al. 2010).

Furthermore, ecometabolomic studies often focus on model plant species and intra-species study designs in controlled environmental conditions, e.g. greenhouse setups (Walker et al. 2022). Those experiments usually aim at a targeted approach to understanding specific factors (metabolites) that are influencing or are influenced by their environment and to be able to confirm the specific function of certain compounds (Weston et al. 2015, Berini et al. 2018, Fang et al. 2019). These targeted techniques support the identification of single components that are actively involved in responses to the environment. However, the identification of metabolites requires the elucidation of the stereochemical and elemental composition of features and compounds (Fiehn 2002) and requires profound knowledge about the metabolites that are present in the analysed species and a good estimation of which metabolites will be affected. Comprehensive reviews of metabolomics and techniques commonly used can be found elsewhere in the literature (Ellis & Goodacre 2006, Nguyen et al. 2012, Tugizimana et al. 2013).

Some of the identified secondary metabolites are unique to certain plant families, for example glucosinolates (Grubb & Abel 2006, Agerbirk & Olsen 2012, Fang et al. 2019), which are unique to Brassicales (Fahey et al. 2001), while some serve a specific function, phenolic compounds (Schuman & Baldwin 2016), alkaloids, terpenoids and flavonoids, which are known to be involved in addressing drought, and temperature stress (Yonekura-Sakakibara et al. 2014, Fernandez et al. 2016, Yang et al. 2018), and UV tolerance (Peng et al. 2017), to name a few examples. However, the exact function of many metabolites (Weston et al. 2015, Alseekh & Fernie 2018) and how abiotic and biotic factors trigger responses on the metabolite profiles remain unexplained (Berini et al. 2018). Although targeted metabolomics has already revealed numerous functions of specific metabolomics and how they are involved in the complexity of environmental changes, untargeted metabolomics allows capturing the full range of metabolomic

compound classes in the context of the plant's physiological stage within a certain environmental condition (Fiehn 2002).

Many approaches and techniques are being made available to study metabolomics in complex systems and convert knowledge already gained from complex ecological experiments and highly precise metabolomics experiments to understand underlying mechanisms on a biochemical level. However, these proposed workflows and approaches contain different priorities for different objectives and differ in their statistical methods and analysis power. Tailored and conclusive techniques for identifying compounds and metabolite families are also not yet available for untargeted approaches with big data sets. In contrast to targeted analysis, untargeted analysis does not require each feature or compound to be annotated for statistical analyses (Scherling et al. 2010). Commonly for untargeted metabolomics data, feature richness and feature abundance are valuable data that can be acquired and used for statistics. The untargeted metabolomics approach allows quantifying a plant's whole measurable feature profile snapshot without the need for identification or classification (Scherling et al. 2010). Compared to targeted analysis of metabolites, the advantage of untargeted analysis is the power of untargeted analysis to investigate global changes in the metabolic profile without making assumptions about underlying mechanisms (Berini et al. 2018). Detected features in untargeted metabolomics have high statistical relevance, which enables automated data processing (Hoehenwarter et al. 2008). Untargeted metabolomics is a powerful tool to investigate links between the environment and biochemical processes (Walker et al. 2022), but it also holds some obstacles that need to be addressed adequately to be able to draw funded conclusions from the data (Allard et al. 2017).

Walker et al. (2022) point out that metabolite profiles, especially in the context of ecometabolomics, serve as a repository of functional traits, which reflect the plant state at a certain point in time (Weston et al. 2015), and can therefore serve as a valuable trait themselves (Walker et al. 2022). In eco-metabolomics, selecting relevant features from metabolite profiles can provide insights into plant phenotype adaptations to environmental dynamics. It might be, for example, a reliable predictor of herbivory pressures in plant communities (Ristok et al. 2022). Although ecometabolomics has become a major interest in plant research, there is no standard available to yet to unify study design, data acquisition and handling (Walker et al. 2022). Although metabolomic is widely used in ecometabolomics studies, there is not always taken special care in properly handling the data, including quality controls, blanks, randomisation strategies and data handling techniques that ensure proper data used for conclusion drawing. The collection of metabolomics data requires a careful study design and considered inclusion of environmental factors (van Dam & Heil 2011, Walker et al. 2022) and can easily lead to false assumptions when not acquired with certain care and level of background information, e.g developmental and environmental components (Fang et al. 2019). Metabolomics data also require quite some caution when interpreted, as effects can easily occur as artefacts during sample preparation and data acquisition (Fiehn 2002). One example is induced responses, e.g triggered by herbivory attack may change metabolic profiles throughout the plant or only in the attacked tissue (van Dam & Heil 2011); therefore, a special collection of material is required.

Furthermore, during sample collection, it is also important to conserve the current state of the metabolite profile, e.g. by snap freezing in the field (Marr et al. 2021). This ensures that all metabolomics processes are stopped in their tracks, and the sample presents an accurate picture of the current state of being. In contrast to classical plant traits that shift and change at a slower pace, the exact time of sample collection is an important element of the ecometabolomics study design and the research question (Weston et al. 2015). The sampling timepoint across the year strongly affects herbivory pressure on the plants and, thereby, the richness and composition of secondary metabolites (Ristok et al. 2022). To overcome the incomplete snapshot phenomenon, including multiple samplings across the year does improve the interpretation of the metabolomics data (Ristok et al. 2022).

As Weston et al. (2015) pointed out, one of the main challenges in metabolomics is the sheer number of secondary metabolites and their related compounds that can be measured in plants. Given the enormous amount of produced metabolites within plants (Fang et al. 2019), handling the measured data and gaining reliable insights is still a challenging task within ecological experiments and studies (e.g. Marr et al. 2021). While metabolomics measurements, including sampling and extract preparation, is relatively easy and quick, handling the vast amount of data generated with these methods can be challenging on a multitude of levels (Weston et al. 2015). Single plant species only produce a subset of known secondary metabolites (Fernie et al. 2004). Hence, multispecies studies can result in zero-inflated data matrices. The extent of the effects of plant species diversity on general performance can be highly species specific (Scherling et al. 2010). Therefore, changes in the metabolite profiles to change environmental conditions to be similarly species specific can be expected. Integration of multiple species within the same experiment can, therefore, lead to an increased chance of zero-inflated data matrices. Currently available statistical tools are not yet tailored to capture the complexity of ecological experiments, especially regarding the growing interest in the role of secondary metabolites. As Walker et al. (2022) discussed, extensive research has been done to understand the interplay of metabolite responses to environmental dynamics. Therefore, a common strategy that allows comparison and reuses collected data in broader studies is important.

Expecting that environmental dynamics, especially season related changes in the direct neighbourhood, will be reflected in the secondary metabolite profiles regarding the richness and composition of the features and compounds. Expecting that similar species respond with similar metabolites and strategies to environmental pressure, we tested thirteen species in the two functional groups (FG) grass and herb in this thesis. Therefore, this study aims to compare the performance of classical metabolomics feature selection and classification methods in eco-metabolomics data sets, which provide challenges regarding sample size and background noise; the combination of ecological questions in open study systems (Jena Experiments) with biochemical analysis methods (metabolomics) and bioinformatic tools (automated processing) to gain interpretation potentials on diverse levels; identify suitable and stable statistical methods that are commonly used in "classical" metabolomics data and how they can be adjusted to be used with ecometabolomics data and to answer ecological motivated questions. This thesis aims to introduce an automated and reproducible workflow for metabolomics data handling, curation and analysis to enable the automated analysis of multiple species with highly diverse metabolite profiles across environmental dynamics.

## CHAPTER 1

# LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods

Title: LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods

#### Authors:

Sue Marr<sup>1,2,3\*</sup>, Jos A. Hageman<sup>4</sup>, Ron Wehrens<sup>4</sup>, Nicole M. van Dam<sup>3,5</sup>, Helge Bruelheide<sup>2,3</sup> & Steffen Neumann<sup>1,3</sup>

1 Bioinformatics & Scientific Data, Leibniz Institute of Plant Biochemistry, Weinberg 3, 06120, Halle, Germany. 2 Institute of Biology/Geobotany and Botanical Garden, Martin Luther University Halle-Wittenberg, Am

Kirchtor 1, 06108, Halle, Germany.

- 3 German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Puschstr. 4, 04103, Leipzig, Germany.
- 4 Biometris, Wageningen University and Research, Droevendaalsesteeg 1, 6708 PB, Wageningen, The Netherlands.
- 5 Molecular Interaction Ecology, Institute of Biodiversity, Friedrich-Schiller University Jena, Dornburger-Str. 159, 07743, Jena, Germany.
- \*corresponding author

#### Author contribution:

#### Author contributions (ctb) to the manuscript in percent.

chapter	status	author	ctb
(1) LC-MS based plant metabolic profiles of	published	S. Marr	70
thirteen grassland species grown in diverse		J. A. Hageman	12
neighbourhoous		R. Wehrens	4
		N. M. van Dam	2
		H. Bruelheide	2
		S. Neumann	10

#### Published in: www.nature.com/scientificdata/; peer-reviewed

Link: https://www.nature.com/articles/s41597-021-00836-8

**Citation**: Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H., & Neumann, S. (2021). LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods. *Scientific data*, *8*(1), 1-12.

# LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods

#### Authors

Sue Marr<sup>1,2,3</sup>, Jos A. Hageman<sup>4</sup>, Ron Wehrens<sup>4</sup>, Nicole M. van Dam<sup>3,5</sup>, Helge Bruelheide<sup>2,3</sup>, Steffen Neumann<sup>1,3</sup>

#### Affiliations

- 1 Bioinformatics & Scientific Data, Leibniz Institute of Plant Biochemistry, Weinberg 3, 06120 Halle, Germany
- 2 Institute of Biology/Geobotany and Botanical Garden, Martin Luther University Halle-Wittenberg, Am Kirchtor 1, 06108 Halle, Germany
- 3 German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Puschstr 4, 04103 Leipzig, Germany
- 4 Biometris, Wageningen University and Research, Droevendaalsesteeg 1, 6708 PB, Wageningen, The Netherlands
- 5 Molecular Interaction Ecology, Institute of Biodiversity, Friedrich-Schiller University Jena, Dornburger-Str. 159, 07743 Jena, Germany

Corresponding author: S. Marr (smarr@ipb-halle.de, orcid.org/0000-0003-3978-0836)

#### Abstract

In plants, secondary metabolite profiles provide a unique opportunity to explore seasonal variation and responses to the environment. These include both abiotic and biotic factors. In field experiments, such stress factors occur in combination. This variation alters the plant metabolic profiles in yet uninvestigated ways. This data set contains trait and mass spectrometry data of thirteen grassland species collected at four time points in the growing season in 2017. We collected above-ground vegetative material of seven grass and six herb species that were grown in plant communities with different levels of diversity in the Jena Experiment. For each sample, we recorded visible traits and acquired shoot metabolic profiles on a UPLC-ESI-Qq-TOF-MS. We performed the raw data pre-processing in Galaxy-W4M and prepared the data for statistical analysis in R by applying missing data imputation, batch correction, and validity checks on the features. This comprehensive data set provides the opportunity to investigate environmental dynamics across diverse neighbourhoods that are reflected in the metabolomic profile.

#### **Background & Summary**

Plants respond and adapt to environmental changes in many ways. Some plant species, for example, possess physical defences to cope with herbivores and abiotic stress factors<sup>1</sup>. In addition, plants also produce chemicals as defence strategies. These plant metabolites provide a unique opportunity to explore these adaptations as the metabolic profile is known to reflect environmental changes<sup>2-4</sup>. Both the primary and the secondary metabolome are involved in the responses to biotic<sup>5-6</sup> and abiotic factors<sup>7-9</sup>. However, especially secondary metabolites, which are not directly involved in the primary metabolism, play a key role in plant defence strategies<sup>5-6,10-12</sup>.

Furthermore, compared to primary metabolite profiles, secondary metabolite profiles are more species specific even in varying environments<sup>13</sup>. Previous studies showed that plants change the composition of their metabolic profile and alter the abundance and the number of specific compounds, such as phenolics and terpenoids<sup>7,14</sup> while maintaining their distinctive profiles<sup>13,15</sup>. In field experiments, the impact of abiotic and biotic factors vary across the season<sup>16-17</sup>. These factors include, for instance, light, nutrients, water and herbivory<sup>18</sup>.

Changes in these conditions may affect the plants' metabolic fingerprint in yet uninvestigated ways. The investigation of these changes may provide insights into the mechanisms behind plant adaptation strategies.

Grasslands are an ideal study system to investigate the effects of plant community compositions on the plant metabolomic profiles. In these ecosystems, we find a relatively high number of fast-growing grass and herb species<sup>19</sup>. Species that share similar characteristics form functional groups (FG). Here, we distinguish between the two FG: grasses and herbs. Most studies focus on visible traits when investigating these two FG<sup>20-22</sup>. Visible traits, for example, are a useful tool to understand and predict ecological strategies and functions. They are also supporting the investigation of relationships between functional traits – that describe all measurable characteristics of a plant individual - and the individual plant performance<sup>23-26</sup>. However, the investigative power of combining metabolomics data with such trait data has already been demonstrated in other studies<sup>14-15,27-29</sup>.

In this data set, we collected plant material for metabolomic analysis in the field experiment "The Jena Experiment: Trait-Based-Experiment", Germany<sup>30</sup>. An overview of the data set is provided in Table 1 and Fig. 1, including the experimental setup (1-5), metabolomic analysis (6-10), and the data processing (11-6). We recorded both visible traits and metabolomic profiles to investigate species specific responses of thirteen grassland species to the composition of their neighbourhoods. For the metabolomic analysis, we collected shoot material across the growing season in 2017 at four time points: May (A), July (B), August (C), October (D). We chose these time points to cover the whole growing season (May to October; Fig. 1 (1)). The sown (target) species belonged to the FGs grasses and herbs (Fig. 1 (2), Fig. 2 a). We investigated plants grown in communities with diversity levels (DL) composed of one (DL1), two (DL2), four (DL4) and eight (DL8) different species (Fig. 1 (3), Fig. 2). We collected shoots of two replicates per DL and species (Fig. 1 (4)-(5)). For each species, we recorded characteristics of their surrounding neighbourhoods, including the number of plant species and their abundances per plot. For each sample, we recorded visible traits, such as the plant height, number of leaves and the level of damage caused by herbivory or pathogens.

In total, we collected 512 samples. For each sample, we acquired the metabolic profiles of methanolic extracts of the shoots on an Ultra Performance Liquid Chromatography coupled with an Electrospray Ionisation Quadrupole Time-of-Flight Mass Spectrometry (UPLC-ESI-Qq-TOF-MS; abbreviated to LC-MS in the following; Fig. 1 6-0). We used quality controls (blanks and pooled extracts) to ensure data quality. We converted the acquired raw LC-MS data to an open file format (Fig. 1 1) and processed them on the Galaxy-W4M infrastructure<sup>31</sup>. In Galaxy-W4M, we performed the feature detection, grouping and feature annotation (Fig. 1 1). After this pre-processing, we prepared the data for statistical analysis. In R<sup>32</sup>, we performed missing data imputation, batch correction and validity checks on the LC-MS feature (Fig. 1 3-6). In this data descriptor, we provide a detailed description of the analytical steps performed on the acquired LC-MS data and provide the comprehensive data set in the MetaboLights repository MTBLS679<sup>33</sup>.

#### Methods

**Experimental Setup.** *Experimental Design* The Jena Experiment<sup>34</sup> is a biodiversity ecosystem functioning experiment, designed to study plant and trait diversity effects on plant communities. The Jena Experiment is located in Jena, Germany, and includes the Trait-Based-Experiment<sup>30</sup> (TBE; Fig. 2 a). We collected plant material in the plots of the TBE. In the TBE, eight species selected from the functional groups (FG) grass and herb form a species pool. These Pools include four grass and four herb species<sup>30</sup>. Pool 1 (P1) comprises the grass species *Avenula pubescens* (AVEPUB), *Festuca rubra* (FESRUB), *Phleum pratense* (PHLPRA) and *Poa pratensis* (POAPRA) and the herbs *Centaurea jacea* (CENJAC), *Knautia arvensis* (KNAARV), *Leucanthemum vulgare* (LEUVUL) and *Plantago lanceolata* (PLALAN). Pool 2 comprises the grasses *Anthoxanthum odoratum* (ANTODO), *Dactylis glomerata* (DACGLO), *Holcus lanatus* (HOLLAN) and *Phleum pratense* (PHLPRA) and the herbs *Geranium pratense* (GERPRA), *Leucanthemum vulgare* (LEUVUL), *Plantago lanceolata* (PLALAN) and *Ranunculus acris* (RANACR). The target species of this study belonged to either P1 or P2 (Table 1, Fig. 2 b). The three species *Leucanthemum vulgare*, *Phleum pratense*, and *Plantago lanceolata* were part of both pools.

In the TBE, the plant species are grown in plots with different diversity levels (DL): one (DL 1), two (DL 2), four (DL 4), and eight (DL 8) different species per plot (Fig. 2 a). The plots are randomly distributed across the experimental site. P1 and P2 determine the plant species composition for each DL. Hence, all DL were composed of the species belonging to the respective Pool. For example, DL8 (P1) was composed of the following species: grass: AVEPUB, FESRUB, POAPRA, PHLPRA, herb: CENJAC, KNAARV, LEUVUL, PLALAN, while DL8 (P2) comprises these species: grass: ANTODO, DACGLO, HOLLAN, PHLPRA, herb: GERPRA, RANACR, LEUVUL, PLALAN. We collected the above-ground vegetative tissues of the thirteen target species. Per plot, we collected two plant individuals (replicates) at four time points in 2017. We chose dates across the growing season: May (A), July (B),

August (C) and October (D). In total, we sampled 512 study samples: 4 Season x 4 DL x 2 Pools x 8 species x 2 replicates (Fig. 1 (1)-(4), Fig. 2).

*Traits & Sampling.* Prior to plant biomass collection in each season, we surveyed each plot to record the actual number of present species (species richness), both sown (target) and weed (not deliberately cultivated) species. We also estimated the abundance of each species (Shannon diversity) in relation to the plot size. In each season, we collected the above-ground tissue of two replicates per plot and species (Fig. 2 b). In each plot, we randomly chose two plant individuals as replicates from specimens with a similar phenological stage according to the BBCH<sup>35</sup> scale. We recorded the following traits of these plant individuals: phenological stage (BBCH<sup>35</sup>), the number of leaves and inflorescences, plant height, and the proportional damage inflicted by either pathogen or mechanically.

The plants were cut 3 cm above the ground (Fig. 1 (5)). An aliquot of shoot (leaf and stem) tissues was collected in plastic vials, snap-frozen on dry ice and stored for LC-MS analysis (referred to as study sample). The remaining biomass, including the inflorescences, was stored in plastic bags for biomass measurements. We collected the samples following the order of plots in the TBE (randomised DLs and Pools across the experimental site), starting at the southern end of the TBE<sup>30</sup>. We also recorded the exact time of the sampling for each sample to account for possible time-related shifts in the metabolic profile (sampling between 1 pm and 8 pm). We collected the samples within a single day to reduce the environmental influences to a minimum (for the exact dates see the MTBLS679<sup>33</sup> data repository). We applied the following labelling scheme to ensure the randomisation for sample extraction and LC-MS data acquisition. For each season, we assigned a number between 001 and 128 to each sample. These Lab-IDs were chosen randomly for each sample while collecting the biomass. For example, the Lab-ID 013\_2017\_A refers to the sample 2017\_A\_PHLPRA\_A002\_a: collected in season 2017\_A; Phleum pratense, in plot A002, which is referring to DL2 in P1, replicate a; and 013\_2017\_C refers to the sample 2017\_C\_FESRUB\_B067\_b: collected in season 2017\_C; Festuca rubra; in plot B067, which is referring to DL4 in P1; replicate b. The plot numbers (e.g. A002 and B067) and the corresponding DLs (e.g. DL2 and DL4) are specified in the sample metadata in the data records MTBLS679<sup>33</sup>. The sample preparation and extraction for the LC-MS data acquisition were conducted in the order of the respective Lab-IDs to ensure the equal distribution of seasons and full randomisation across the species, DL and replicates. Details on the randomisation can be found in the section "Sequence of LC-MS Measurements". All details concerning the sampling strategy are included in the sample table in the MTBLS679<sup>33</sup> data repository.

**LC-MS Data Acquisition.** *Cryo Sample Preparation.* We prepared the 511 *study samples* of frozen shoot material, collected in 20 mL vials, by adding two steel balls (7 mm) to the tubes. One sample tube (2017\_B: FESRUB (P1): DL1\_b) broke prior to analysis and was, therefore, excluded from further analysis. We used a cryo ball mill equipped with an autosampler (Labman IPB Cryogrinder Ball Mill, Labman Automation, Middlesbrough, UK) to grind the material at -75 °C for 150 s (5 cycles: 30 s grinding, 30 s pausing). We ground the samples according to their Lab-IDs and the season they were collected in (Fig. 1 (6)).

Methanolic Extraction. We transferred aliquots (100 mg  $\pm$  50 mg) of the fine frozen powder to extraction tubes and added extraction beads (Rimax/Zircosil, 1.2 - 1.7 mm). For the extraction, we used methanol/water (80/20 v/v; HPLC-grade, Honeywell, Seelze, Germany) as the extraction solvent. We added the following internal standards at a 5 mM concentration to the extraction solvent: Kinetin (Roth, Karlsruhe, Germany), IAA-Val (Sigma-Aldrich, St. Louis, USA) and Biochanin A (Sigma-Aldrich, St. Louis, USA). The extraction solvent was added in a weight-specific five-fold surplus (Fig. 1 (7)) to the frozen powder (e.g. 500  $\mu$ L added to 100 mg powder), which we kept on liquid nitrogen. We thawed the prepared samples for 3 minutes at room temperature before extracting them in a homogeniser (Precellys® 24 Tissue Homogenizer, Bertin Technologies, Montigny-le-Bretonneux, France) for 90 s (2 cycles: 45 s run, 15 s pausing) at 6500 rpm. We centrifuged the extracts at 16168 g for 15 min and collected the supernatants in fresh extraction tubes (Fig. 3 a). After an additional extraction of the remaining pellet, 160 µL of the combined supernatants were added to 40 µL of water/formic acid (99.9/0.1 v/v) (formic acid: VWR International, Radnor, USA) and stored at -20 °C for at least 48 hours (Fig. 3 a). To prepare the samples for mass spectrometry, we centrifuged the sample extracts at 16168 g for 15 minutes to remove particles. We transferred 160  $\mu$ L of the resulting supernatant to vials equipped with 300  $\mu$ L glass inserts (analytical sample). We extracted all study samples in batches of 44 samples, in the order of their Lab-IDs (e.g. one analytical batch contains analytical samples with the Lab-IDs 001 to 011 of season 2017 A, 2017 B, 2017 C, and 2017\_D).

*Quality Controls.* We used two types of blanks to account for possible contamination or inconsistency during extraction. The *field blanks* (plastic vials used for sampling) were included in the sampling, transportation and grinding steps. After the sampling in season 2017\_A, we used a new shipment of plastic vials. We, therefore, labelled the *field blanks* "old" and "new" for the vials either used in 2017\_A or 2017\_B to 2017\_D, respectively. We used the *extraction blanks* (eX01 - 03) to capture contaminations introduced in the methanolic extraction steps. For each replacement of *extraction solvent*, a new *extraction blank* was used. Both *field blanks* and *extraction blanks* were processed according to the extraction protocol applied to the *study samples*. Furthermore, we pooled 10  $\mu$ L aliquots of the 511 *sample extracts*, which we used as Quality Control (*QC*) throughout the LC-MS measurements (Fig. 1 (8); Fig. 3 b).

Sequence of LC-MS Measurements. We measured the 511 analytical samples in 12 analytical batches. Each batch was composed of an acetonitrile aliquot, a blank, a *QC* aliquot and 44 *analytical samples* (Fig. 1 (9), Fig. 3 c). We distributed the *analytical samples* equally across the batches in the order of their Lab-IDs, and the season they were collected in (Lab-IDs were assigned to the samples randomly while sampling; see "Traits & Sampling"). For example, the *analytical samples* 2017\_A\_001 to 011, 2017\_B\_001 to 011, 2017\_C\_001 to 011, and 2017\_D\_001 to 011 were measured in batch "pos01". We started the batch measurement sequence with three acetonitrile runs followed by the *QC*. After this run-in sequence, we measured the *QC* again, to equilibrate both the LC-column and MS-system, followed by one blank and a block of 11 *analytical samples* (Fig. 3 c). We used the different blanks to detect potential systematic contaminations that were either introduced during sampling, extraction or the LC-MS measurements. After each block of *analytical samples*, we measured the *QC* again. The samples measured within one block were chosen randomly from the 44 samples assigned to the batch. After each batch, the MS ion source was cleaned, and the MS was recalibrated.

Analytical Setup & Data Acquisition. We performed the data acquisition (Fig. 1 <sup>(10)</sup>) on a liquid chromatography system (UPLC; ACQUITY UPLC System, Waters Corporation, Milford, USA) coupled with a mass spectrometer (ESI-Qq-TOF-MS; ESI-micrOTOF-Q-II, Bruker Daltonics, Bremen, Germany). Aliquots (2  $\mu$ L) of the analytical samples were separated at 40 °C on an HSS T3 C<sub>18</sub>-column (1.8  $\mu$ m, 1.0 x 100 mm, RP, Waters Corporation, Milford, USA) with the elution binary gradient at 0.15 mL min<sup>-1</sup> flow rate: Solvent A (water/formic acid 99.9/0.1 v/v) / Solvent B (acetonitrile/formic acid 99.9/0.1 v/v; acetonitrile: Merck, Darmstadt, Germany); initial: A 95%, 3 minutes linear A 82.7%, 10 minutes linear A 76%, 17 minutes linear A 5%, 18 minutes A 5%, 18.1 minutes linear A 95%, 20 min A 95%. We measured the ions in positive mode from 100 – 1000 m/z using the following instrument settings: capillary voltage 5000 V; nebuliser gas nitrogen; nebuliser 1.4 bar; dry gas nitrogen; dry gas temperature 190 °C; dry gas flow 6 L min<sup>-1</sup>; spectra rate 3 Hz; endplate offset: -500 V; Funnel 1 RF: 200 Vpp; Funnel 2 RF: 200 Vpp; in-source CID energy 0 eV; hexapole RF 100 Vpp; quadrupole ion energy 3 eV; collision gas nitrogen; collision energy 7 eV; collision RF 200/200 Vpp (timing 50/50); transfer time 58.3  $\mu$ s; pre pulse storage 5  $\mu$ s. We used an internal calibration (lithium formate clusters, 10 mM lithium hydroxide in isopropanol/water/formic acid, 49.9/49.9/0.2 v/v/v, at 18 min) for the normalisation of the measurements.

**LC-MS Data Pre-processing.** We exported the vendor-specific data files (Bruker ".d") using CompassXport (Bruker, version 3.0.9, <u>http://www.bruker.com</u>). The conversion of LC-MS raw data files to the open data format (".mzML")<sup>36</sup> enables the data analysis in vendor-independent environments (Fig. 1 (1)). We pre-processed the raw LC-MS spectra of the *analytical samples* and the quality controls (blanks and *QC*) on the Galaxy-W4M infrastructure<sup>31</sup> (based on XCMS 3.0). The workflow (DOI: <u>10.15454/1.5640497789529167E12</u>) includes the following analytical and processing steps: feature detection, grouping and retention time correction (Fig. 1 (12)). A detailed description of parameter settings and tool versions used in the workflow is also shown in Table 2.

The initial step in the workflow is feature detection. The parameters were set in order to separate measured peaks from background noise (Table 2). We then grouped the features across samples and corrected them for retention time shifts. We grouped the corrected spectra again and annotated adducts and isotopes of the measured features. After these pre-processing steps, we filtered the detected features for the region of interest (ROI). We cut features with retention times between 0 s to 80 s (injection peak and very polar compounds) and from 840 s to 1080 s (very nonpolar compounds). We exported the pre-processed data as separate data tables for sample metadata (*sampleMetadata*), variable metadata (*variableMetadata*) and the data matrix (*dataMatrix*), containing the measured intensities. These data matrices are also available in the associated metadata records MTBLS679<sup>33</sup> (<u>https://www.ebi.ac.uk/metabolights/MTBLS679</u>). The number of detected features per species is shown in Table 3.

#### Data Records

A detailed description of the experimental setup, the performed analysis and the metadata of both *study samples* and the quality controls are available as MTBLS679 "From Field to Feature in Ecometabolomics – LC-MS Based Metabolite Profiles of Thirteen Grassland Plant Species Reflecting Environmental Dynamics" on https://www.ebi.ac.uk/metabolights/MTBLS679. Raw data files of LC-MS analysis are also available in the repository. Furthermore, we provide data matrices of all stages of the processing steps (see Table 1). The W4M-Galaxy history (DOI: 10.15454/1.5640497789529167E12) that was used for data pre-processing is available at <u>https://workflow4metabolomics.usegalaxy.fr/histories/list published</u>. All processing steps used for the data clean up are explained in the Supplementary File 1.

#### **Technical Validation**

**Data Processing.** A detailed tutorial of the processing steps performed in R<sup>32</sup> and the complete code used for data processing are provided as PDF and as R script in the MTBLS679<sup>33</sup> repository. The tutorial PDF is also made available as supplemental material (**Supplementary File 1**).

*Missing Data Imputation.* In this study, the pre-processing of highly diverse LC-MS spectra lead to a data matrix with 90% zero values. This high number of zeros is a result of the data matrix containing all detected features, of which only small fractions belonged to a particular species (Table 3). Hence, features that are not part of the metabolic fingerprint in this species were not detected and are recognised as true zeros. Within a species, some features are only detected in a few specimens. These absences either occur due to variations in the technical performance or are indicators of actual biological adaptations to environmental changes. These are NA values, as the reason for their absence is uncertain at this stage of analysis. In the following, we refer to any missing values as *missing data*. In order to prepare the data matrix for further data cleaning and to make it accessible to processing and statistical analysis, we replaced the *missing data* with imputed values. Here, we imputed the *missing data* with random values (noise) by drawing absolute values from a normal distribution with mean 70 and a standard deviation of 20. We chose these values as they are below the threshold initially set for our data set, which equals 100 (Fig. 1 (3), see Table 2: feature detection). This choice is instrument specific and based on the prefilter parameters used in the pre-processing steps.

Batch Correction. We performed a batch correction on the imputed data matrix. Splitting the 511 analytical samples into 12 analytical batches enhanced the chance of technical performance variability due to cleaning, recalibration and solvent replacements. These batch effects are mostly reflected in changes of intensities of the features across different batches. To account for these intensity shifts, the QC, which was measured multiple times across all batches (see "Sequence of LC-MS Measurements"), was used to determine the unwanted variation within (intra-batch distance) and between (inter-batch distance) batches. Ideally, the intensity profiles of the QC in all batches are identical. However, systematic variation between and within batches was present. Here, we used the RUVs function in the RUVSeq package (version 1.20.0)<sup>37</sup>, which is based on a principal component analysis (PCA), and applied it to the QC measurements (referred to as pool in dataMatrix). RUVs creates a PCA model of the systematic part of the variation of the QC. This PCA model describes unwanted systematic variation. In the next step, it substracts the PCA model from the study samples; thereby eliminating any unwanted systematic variation. A detailed description of the underlying calculations can be found in Risso et al.<sup>37</sup>. The performance of the batch correction mainly depends on the number of components used for the analysis. We determined the optimal number of components to be used for the correction with a scree plot. In this scree plot, we compared the remaining inter-batch distances (Supplementary File 1 Fig. 1) after correction for different numbers of components. In this data set, the knee (or elbow) in the plot was reached after 6 components, as the inter-batch distances did not decrease anymore after 6 components (see Supplementary File 1 Table 3.2). After the batch correction, the calculated inter-batch distances for the QC measurements showed a strong decline (Table 4; Fig. 1 (4)). The score plots before the batch correction show apparent batch effects in PC 1 and PC 2 (Fig. 1 (14)). This shows that the batches, in which the QC has been measured, are the largest systematic source of variation for the QC measurements. After correction, the pattern in the PCs related to the different batches was no longer distinguishable. This shows that the huge variation of the feature intensities present in the original measurements related to the batches is removed and does not influence any consequent (statistical) analysis. After performing the batch correction, the QC measurements are removed from both the metadata and data matrix (Table 1).

Blank Removal. We checked the validity of the features before using them in the statistical analysis. We assigned a feature as valid when it was derived from an *analytical sample*. Here, we used the blanks as a reference for the validity check. Blanks did not contain a biological sample but were handled and processed like the

*analytical samples.* Hence, we considered all features that were detected in blanks to be systematic contaminations introduced during sampling, extraction or the LC-MS analytical process. We removed all features that were detected in at least one blank from the data matrix and excluded them from any further analysis (Fig. 1 (15); see Table 3 for the number of features before and after the blank removal). Following this feature validity check, we also removed the blank samples from the sample metadata (Table 1).

Sample Validity Check. The amount of biological variation in the metabolomic profiles within a species differed across the species. This intra-species variation was found to be lower than the inter-species variation. To check the validity of each sample and, thereby, ensuring that the sample was not contaminated, we compared their metabolomic profiles to the average composition of their species. Here, we defined a feature as belonging to a species when it was detected in at least 8 of the samples (25%) in that species (Table 3). Note that for assigning a feature to the respective species, we used the data matrix without the imputed values (see "Missing Data Imputation"). As a quality measure, for each sample, we calculated Mahalanobis distances (Fig. 1 (b)). We compared the distance of each sample to the average distance of the remaining samples in the respective species. For example, we calculated distances for the 32 samples in the species *Holcus lanatus* and compared the distance of the sample "HOLLAN (P2): 2017\_A (DL4\_b)" to the average distance of the other 31 samples. We kept only those samples that were closer than three times the average distance and shared over 25% of their features with their species (Table 1). Consequently, we excluded the following samples from further analysis as they did not pass the validity check: ANTODO (P2): 2017\_B (DL8\_b), 2017\_C (DL1\_b); HOLLAN (P2): 2017\_A (DL4\_b); LEUVUL (P2): 2017\_D (DL4\_a, DL4\_b); PHLPRA (P1): 2017\_D (DL1\_b, DL8\_b); PHLPRA (P2): 2017\_D (DL8\_a, DL8\_b), POAPRA (P1): 2017\_D (DL2\_b, DL8\_a, DL8\_b).

Preparation for Statistical Analysis. After performing validity checks on the data, we prepared the cleaned and processed data matrix to be used for statistical analysis. The data matrix can be accessed in three different stages, with 1) imputed values or 2) zeros or 3) NAs for missing values (see "Missing Data Imputation"). Depending on the nature of the planned analysis, either one of the matrices can be used for statistical analysis and conclusion drawing.

#### **Usage Notes**

This comprehensive data set provides the opportunity to investigate the metabolomic profiles on the feature level of thirteen grassland species grown in diverse neighbourhoods. The profiles were acquired from plants collected at different time point across the growing season. Therefore, relevant features and seasonality can be investigated within this eco-metabolomic dataset. Additionally, the mass spectrometry raw data are available in an open file format (mzML) and provide the opportunity to be re-processed with common metabolomics tools, such as xcms, OpenMS and MS-Dial.

#### **Code availability**

The raw data files and processed data matrices are available in the online repository MTBLS679 (https://www.ebi.ac.uk/metabolights/MTBLS679). The complete history of the used workflow for the raw LC-MS data pre-processing is available in Galaxy-W4M<sup>31</sup> from https://doi.workflow4metabolomics.org/W4M00008. We provide the complete R<sup>32</sup> script used to process the data along with a detailed tutorial in the supplemental material (Supplementary File 1).

#### Acknowledgements

The authors gratefully acknowledge the support of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816. The authors also thank the technical staff of the Jena Experiment (DFG, FOR 456/1451), the coordinator Anne Ebeling as well as many student helpers for maintaining the experimental field site and their support during measurements. This research was also supported by the International Research Training Group TreeDì jointly funded by the DFG (GRK2324) and the University of Chinese Academy of Sciences (UCAS). This paper has been conducted in the framework of the iDiv-Flexpool – the internal funding mechanism of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816.

#### Author contributions

SM co-designed the study, led the data collection, performed the data acquisition, conducted the raw data pre-processing, conceptualised and designed the data analysis, designed the workflow for data processing, wrote the tutorial for data analysis, managed the data and repository, designed and created the figures, and wrote the manuscript. JAH conceptualised and designed the data analysis, designed the workflow for data processing, and contributed to the tutorial provided for data analysis. RW contributed to the concept and design of the data analysis, assisted with the design of the workflow for data processing and the tutorial provided for data analysis. NMD designed the study, coordinated and managed activities leading to this paper and acquired the financial support. HB designed the study, provided the infrastructure for data acquisition, coordinated and managed activities leading to this paper and acquired the traw data pre-processing, contributed to the concept and design of the data analysis, assisted with the design of the utorial provided for data analysis leading to this paper and acquired the financial support. SN designed the study, helped with the raw data pre-processing, contributed to the concept and design of the data analysis, assisted with the design of the utorial provided for data analysis, contributed to data management and repository administration, provided the infrastructure for data acquisition, coordinated and managed activities leading to this paper and acquired financial support. All authors revised and edited the manuscript.

#### **Competing interests**

The authors declare no competing interest.

#### Tables

Table 1: Steps of analysis performed on the thirteen target species and the quality controls. Species belonging to the functional groups (FG) grass and herb were assembled in two groups of eight species (Pool). The Pools included four species per FG. Three of the species were represented in both pools (\*). Shoots were collected at four time points (Season: A, B, C, D) in four diversity levels (DL1, DL2, DL4, DL8). A detailed list of the study samples can be found in the associated Metadata Record (MTBLS679<sup>33</sup>). For details of the experimental setup, see Fig. 1, and Ebeling et al. <sup>30</sup> for a plot overview. *Study samples* are processed in the respective analysis step (+). One sample was excluded from the analysis due to the loss of the sampled material, and some samples did not pass the final validation check (±; see section "Cryo Sample Preparation" and "Sample Validity Check"). This overview also indicates where the quality controls were used for the analysis.

						LC-N	IS Dat	а	L	C-MS	Data					_
			-	ExpSetup Acquisition		Pre-processing			Data Processing							
Pool	FG	Species	Spec. Code	Trait Recording	Plant Material	Grinding	Extraction	LC-MS Measurements	Peak Picking	Grouping	Retention time correction	Feature Annotation	Missing Data Imputation	Batch Correction	Blank Removal	Sample Validity Check
P1	grass	Avenula pubescens	AVEPUB	+	+	+	+	+	+	+	+	+	+	+	+	+
P1	grass	Festuca rubra	FESRUB	+	+	±	±	±	±	±	±	±	±	±	±	±
P1	grass	Phleum pratense *	PHLPRA	+	+	+	+	+	+	+	+	+	+	+	+	±
P1	grass	Poa pratensis	POAPRA	+	+	+	+	+	+	+	+	+	+	+	+	±
P1	herb	Centaurea jacea	CENJAC	+	+	+	+	+	+	+	+	+	+	+	+	+
P1	herb	Knautia arvensis	KNAARV	+	+	+	+	+	+	+	+	+	+	+	+	+
P1	herb	Leucanthemum vulgare *	LEUVUL	+	+	+	+	+	+	+	+	+	+	+	+	+
P1	herb	Plantago lanceolata *	PLALAN	+	+	+	+	+	+	+	+	+	+	+	+	+
P2	grass	Anthoxanthum odoratum	ANTODO	+	+	+	+	+	+	+	+	+	+	+	+	±
P2	grass	Dactylis glomerata	DACGLO	+	+	+	+	+	+	+	+	+	+	+	+	+
P2	grass	Holcus lanatus	HOLLAN	+	+	+	+	+	+	+	+	+	+	+	+	±
P2	grass	Phleum pratense *	PHLPRA	+	+	+	+	+	+	+	+	+	+	+	+	±
P2	herb	Geranium pratense	GERPRA	+	+	+	+	+	+	+	+	+	+	+	+	+
P2	herb	Leucanthemum vulgare *	LEUVUL	+	+	+	+	+	+	+	+	+	+	+	+	±
P2	herb	Plantago lanceolata *	PLALAN	+	+	+	+	+	+	+	+	+	+	+	+	+
P2	herb	Ranunculus acris	RANACR	+	+	+	+	+	+	+	+	+	+	+	+	+
Qual	ity	field blanks ("new", "old")				+	+	+	+	+	+	+	+	+	+	
Cont	rols	extraction blanks ("eX01 - 0	)3'')				+	+	+	+	+	+	+	+	+	
		QC (QC2017AtoD)						+	+	+	+	+	+	+		

Table 2: Tools and Parameter used for pre-processing the LCMS raw data. The complete workflow is available in Galaxy-W4M (https://doi.workflow4metabolomics.org/W4M00008).

Tool name	Description	Version	Parameter	Value
MSnbase readMSData	Import mass-spectrometry data files	2.8.2.1		
findChromPeaks	feature detection	3.4.4.1	extraction method	40
			peak width (s)	5,20
			signal to noise ratio	5
			prefilter	3,100
			noise filter	100
xcms findChromPeaks Merger	merging xcms findChromPeaks	3.4.4.0		
xcms groupChromPeaks (group)	grouping of chromatographic peaks	3.4.4.0	method	PeakDensity
			bandwidth	6
			minimum fraction	0.75
			minimum number	1
			width of m/z slices	0.005
xcms adjustRtime (retcor)	retention time correction	3.4.4.1	method	PeakGroups
			minimum fraction	0.75
			maximum number	1
			smooth method	Loess – non-linear alignment
			degree smoothing	0.2
			family	gaussian
xcms groupChromPeaks (group)	grouping of chromatographic peaks	3.4.4.0	method	PeakDensity
			bandwidth	6
			minimum fraction	0.75
			minimum number	1
			width of m/z slices	0.005
CAMERA.annotate	Annotation of putative compounds	2,2,4	multiplier of sd	6
			general ppm error	5
			general abs error	0.005
			maximum ion charge	3
			maximum number	4
			isotope annotation	0.5
			correlation threshold	0.75
			grouping into pseudospectra	hcs
			correlation threshold	0.05
Check Format	Checking/formatting the sample and variable names	3.0.0		
Generic_Filter	Deleting samples and/or variables	2017.06	remove in "" values upper	"rt", 840 (s)
			remove in"" values lower	"rt", 80 (s)

Table 3: Number of unique LC-MS features (Fmeas) measured in both the *analytical samples* and the quality controls (Smeas). A feature is counted as part of the species when it is detected in at least 25% of the samples belonging to this particular species. After processing and blank removal, the remaining number of samples (Sval) and features (Fval) is used for analytical statistics.

		Pre-pro	cessed	Valida	ated	
FG	Species Code	Smeas	Fmeas	Sval	Fval	
	total	596	10252	499	10126	
grass	ANTODO	32	1430	30	1310	
grass	AVEPUB	32	1455	32	1358	
grass	DACGLO	32	1281	32	1178	
grass	FESRUB	31	1120	31	1020	
grass	HOLLAN	32	1428	31	1317	
grass	PHLPRA	64	1118	60	1054	
grass	POAPRA	32	1046	29	924	
herb	CENJAC	32	1711	32	1614	
herb	GERPRA	32	1543	32	1464	
herb	KNAARV	32	1708	32	1621	
herb	LEUVUL	64	1384	62	1280	
herb	PLALAN	64	1673	64	1581	
herb	RANACR	32	1446	32	1348	
Quality Controls	blank	12	126	0	0	
	QC	73	5236	0	0	

Table 4: Inter-batch distances calculated for both the *QC* (multiple measurements) and the *analytical samples* (single measurements). Distances are calculated before (pre BC) and after (post BC) applying the batch correction.

Data	pre BC	post BC
QC	16.845	0.720
analytical samples	0.056	0.058

### Figures



Figure 1: **Data set overview.** The data set includes the metadata of the experimental setup for the plant material collected in the TBE plots of the Jena Experiment (1-5), LC-MS raw data acquisition (6-0), data preprocessing steps (11-12), as well as data cleaning and validation (13-16). Created with BioRender.com

### CHAPTER 1



Figure 2: **Experimental Design.** (a) Plot and species overview. Plant material was collected in the plots of the TBE (grey borders) in the Jena Experiment. We collected shoots of seven grass (light green) and six herb species (dark green) in plots with four different diversity levels (DL). Here, either one (DL1), two (DL2), four (DL4) or eight (DL8) different species were grown per plot. In each plot, we harvested shoots of two replicates. The white arrow indicates the sampling direction, starting at the south end of the TBE. (b) Design overview. Plant material of species in both P1 and P2 were collected at four time points across the growing season in 2017 (May: A, July: B, August: C, October: D). The species pools P1 and P2 were each composed of four grass and four herb species. The three species LEUVUL, PHLPRA and PLALAN, were part of both pools. In total, we collected 512 *study samples*: 4 Season x 4 DL x 2 Pool x 8 species x 2 replicates. For a detailed list of the species codes see Table 1. Created with BioRender.com

CHAPTER 1 |



Figure 3: LC-MS sample extraction and sequence of measurements. a) We prepared the 511 frozen study samples by grinding and extracting the resulting fine powder with methanol (note: one sample was lost prior to analysis, see "Cryo Sample Preparation"). For each sample, we combined the supernatants of two extraction steps to the sample extract. b) We pooled aliquots of all 511 sample extracts and used them as the *Quality Control* (*QC*). c) The LC-MS measurements were split into 12 *analytical batches*. Here, each batch measurement was led by a run-in sequence: 3 x acetonitrile, 1 x QC measurement. Per batch, samples were measured in four blocks, consisting of eleven *analytical samples*. The sample measurements were preceded by one *QC* measurement and one blank, and flanked by *QC* measurements. We randomised the 511 LC-MS samples (13 species, 4 seasons, 4 diversity levels) equally across the 12 batches. For treatment colour codes, see Fig. 2. Solid black arrows mark processing steps, while dashed black arrows indicate the transfer to another process. The dashed grey arrow indicates a zoom-in for clarification purposes. Created with BioRender.com

#### References

- 1. Eichenberg, D., Purschke, O., Ristok, C., Wessjohann, L. & Bruelheide, H. Trade-offs between physical and chemical carbon-based leaf defence: of intraspecific variation and trait evolution. *J. Ecol* **103** (6), 1667-1679 (2015).
- 2. Fiehn, O. Metabolomics—the link between genotypes and phenotypes. *Plant Mol. Biol.* **48**, 155-171 (2002).
- 3. Fernie, A. R., Trethewey, R. N., Krotzky, A. J. & Willmitzer, L. Metabolite profiling: from diagnostics to systems biology. *Nat. Rev. Mol.* **5** (9), 763-769 (2004).
- 4. Weir, T. L., Park, S. W. & Vivanco, J. M. Biochemical and physiological mechanisms mediated by allelochemicals. *Curr. Opin. Plant Biol.* **7** (4), 472-479 (2004).
- 5. Rosenthal, G. A. & Berenbaum, M. R. *Herbivores: their interactions with secondary plant metabolites: ecological and evolutionary processes.* Vol. 2 (Academic Press, 2012).
- Schweiger, R., Heise, A. M., Persicke, M. & Müller, C. Interactions between the jasmonic and salicylic acid pathway modulate the plant metabolome and affect herbivores of different feeding types. *Plant Cell Environ.* **37** (7), 1574-1585 (2014).
- 7. Arbona, V., Manzi, M., Ollas, C. D. & Gómez-Cadenas, A. Metabolomics as a tool to investigate abiotic stress tolerance in plants. *I. J. Mol. Sci.* **14** (3), 4885-4911 (2013).
- 8. Bais, H. P., Park, S., Weir, T. L., Callaway, R. M. & Vivanco, J. M. How plants communicate using the underground information superhighway. *Trends Plant Sci.* **9** (1), 26-32 (2004).
- 9. Badri, D. V. & Vivanco, J. M. Regulation and function of root exudates. *Plant Cell Environ.* **32** (6), 666-681 (2009).
- 10. Treutter, D. Significance of flavonoids in plant resistance: a review. *Environ. Chem. Lett.* **4** (3), 147-157 (2006).
- 11. Wurst, S., Wagenaar, R., Biere, A. & van der Putten, W. H. Microorganisms and nematodes increase levels of secondary metabolties in roots and root exudates of Plantago lanceolata. *Plant Soil* **329** (1-2), 117-126 (2010).
- 12. van Dam, N. M. Belowground herbivory and plant defenses. *Annu. Rev. Ecol. Evol. Syst.* **40**, 373-391 (2009).
- 13. Dixon, R. A. Natural products and plant disease resistance. Nature 411 (6839), 843-847 (2001).
- Ristok, C., Poeschl, Y., Dudenhöffer, J.-H., Ebeling, A., Eisenhauer, N., Vergara, F., Wagg, C., van Dam, N. M. & Weinhold, A. Plant species richness elicits changes in the metabolome of grassland species via soil biotic legacy. *J. Ecol.* **107** (5), 2240-2254 (2019).
- Macel, M., de Vos, R. C., Jansen, J. J., van der Putten, W. H. & van Dam, N. M. Novel chemistry of invasive plants: exotic species have more unique metabolomic profiles than native congeners. *Ecol. and Evol.* 4 (13), 2777-2786 (2014).
- 16. Atkinson, N. J. & Urwin, P. E. The interaction of plant biotic and abiotic stresses: from genes to the field. *J. Exp. Bot.* **63** (10), 3523-3543 (2012).
- 17. Suzuki, N., Rivero, R. M., Shulaev, V., Blumwald, E. & Mittler, R. Abiotic and biotic stress combinations. *New Phytol.* **203** (1), 32-43 (2014).
- 18. Breitschwerdt, E., Jandt, U., Bruelheide, H. Trait-performance relationships of grassland plant species differ between common garden and field conditions. *Ecol. Evol.* **9**, 1691–1701 (2019).
- 19. Díaz, S. & Cabido, M. Vive la différence: plant functional diversity matters to ecosystem processes. *Trends Ecol. Evol.* **16** (11), 646-655 (2001).
- Barry, K. E., Weigelt, A., Ruijven, J., de Kroon, H., Ebeling, A., Eisenhauer, N., Gessler, A., Ravenek, J. M., Scherer-Lorenzen, M., Oram, N. J., Vogel, A., Wagg, C. & Mommer, L. Above-and belowground overyielding are related at the community and species level in a grassland biodiversity experiment. *Adv. Ecol. Res.* 61, 55-89 (2019).
- Barry, K. E., van Ruijven, J., Mommer, L., Bai, Y., Beierkuhnlein, C., Buchmann, N., de Kroon, H., Ebeling, A., Eisenhauer, N., Guimaraes-Steinicke, C., Hildebrandt, A., Isbell, F., Milcu, A., Neßhöver, C., Reich, P. B., Roscher, C., Sauheitl, L., Scherer-Lorenzen, M., Schmid, B., Tilman, D., von Felten, S. & Weigelt, A. Limited evidence for spatial resource partitioning across temperate grassland biodiversity experiments. *Ecology* **101** (1), e02905 (2020).
- Roscher, C., Schumacher, J., Gubsch, M., Lipowsky, A., Weigelt, A., Buchmann, N., Schmid, B. & Schulze, E.-D. Using plant functional traits to explain diversity–productivity relationships. *PloS one* 7 (5), e36760 (2012).
- 23. Violle, C., Navas, M. L., Vile, D., Kazakou, E., Fortunel, C., Hummel, I. & Garnier, E. Let the concept of trait be functional!. *Oikos* **116** (5), 882-892 (2007).

- Ackerly, D. D., Dudley, S. A., Sultan, S. E., Schmitt, J., Coleman, J. S., Linder, C. R., Sandquist, D. R., Geber, M. A., Evans, A. S., Dawson, T. E. & Lechowicz, M. J. The Evolution of Plant Ecophysiological Traits: Recent Advances and Future Directions: New research addresses natural selection, genetic constraints, and the adaptive evolution of plant ecophysiological traits. *Bioscience* **50** (11), 979-995 (2000).
- 25. Herz, K., Dietz, S., Haider, S., Jandt, U., Scheel, D. & Bruelheide, H. Predicting individual plant performance in grasslands. *Ecol. and Evol.* **7** (21), 8958-8965 (2017).
- 26. Gross, N., Kunstler, G., Liancourt, P., De Bello, F., Suding, K. N. & Lavorel, S. Linking individual response to biotic interactions with community structure: a trait-based framework. *Funct. Ecol.* **23** (6), 1167-1178 (2009).
- 27. Herz, K., Dietz, S., Gorzolka, K., Haider, S., Jandt, U., Scheel, D. & Bruelheide, H. Linking root exudates to functional plant traits. *PloS one* **13** (10), e0204128 (2018).
- 28. Fernie, A. R. & Schauer, N. Metabolomics-assisted breeding: a viable option for crop improvement?. *Trends Genet.* **25** (1), 39-48 (2009).
- 29. Stitt, M., Sulpice, R. & Keurentjes, J. Metabolic networks: how to identify key components in the regulation of metabolism and growth. *Plant Physiol.* **152** (2), 428-444 (2010).
- Ebeling, A., Pompe, S., Baade, J., Eisenhauer, N., Hillebrand, H., Proulx, R., Roscher, C., Schmid, B., Wirth, C. & Weisser, W. W. A trait-based experimental approach to understand the mechanisms underlying biodiversity–ecosystem functioning relationships. *Basic Appl. Ecol.* 15 (3), 229-240 (2014).
- Giacomoni, F., Le Corguillé, G., Monsoor, M., Landi, M., Pericard, P., Pétéra, M., Duperier, C., Tremblay-Franco, M., Martin, J.-F., Jacob, D., Goulitquer, S., Thévenot, E. A. & Caron, C. Workflow4Metabolomics: a collaborative research infrastructure for computational metabolomics. *Bioinformatics* **31** (9), 1493-1495 (2014).
- 32. R Core Team R: A language and environment for statistical computing. *R Foundation for Statistical Computing, Vienna, Austria* https://www.R-project.org/ (2019).
- Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H., Neumann, S. From Field to Feature in Ecometabolomics: LC-MS Based Metabolite Profiles of Thirteen Grassland Plant Species Reflecting Environmental Dynamics. *MetaboLights* http://identifiers.org/metabolights:MTBLS679. (2020).
- Roscher, C., Schumacher, J., Baade, J., Wilcke, W., Gleixner, G., Weisser, W. W., Schmid, B. & Schulze, E.-D. The role of biodiversity for element cycling and trophic interactions: an experimental approach in a grassland community. *Basic Appl. Ecol.* 5 (2), 107-121 (2004).
- 35. Hess, M., Barralis, G., Bleiholder, H., Buhr, L., Eggers, T. H., Hack, H. & Stauss, R. Use of the extended BBCH scale—general for the descriptions of the growth stages of mono; and dicotyledonous weed species. *Weed Res.* **37** (6), 433-441 (1997).
- Martens, L., Chambers, M., Sturm, M., Kessner, D., Levander, F., Shofstahl, J., Tang, W. H., Römpp, A., Neumann, S., Pizarro, A. D., Montecchi-Palazzi, L., Tasman, N., Coleman, M., Reisinger, F., Souda, P., Hermjakob, H., Binz, P.-A. & Deutsch, E. W. mzML—a Community Standard for Mass Spectrometry Data. *Mol. Cell. Proteomics* **10** (1), R110.000133 (2010).
- 37. Risso, D., Ngai, J., Speed, T. P. & Dudoit, S. Normalization of RNA-seq data using factor analysis of control genes or samples. *Nat. Biotechnol.* **32** (9), 896-902 (2014).

Supplemental Material – Workflow for MTBLS679 See Appendix – Chapter 1

## CHAPTER 2

## A CASE OF INVESTIGATION: SELECTING STATISTICAL TOOLS FOR DIFFERENT LEVELS IN AN ECO-METABOLOMICS EXPERIMENTAL SETUP

**Title**: A Case of Investigation: Selecting Statistical Tools for Different Levels in an Eco-Metabolomics Experimental Setup

#### Authors:

Sue Marr<sup>1,2,3\*</sup>, Jos A. Hageman<sup>4</sup> & Steffen Neumann<sup>1,3</sup>

- 1 Bioinformatics & Scientific Data, Leibniz Institute of Plant Biochemistry, Weinberg 3, 06120, Halle, Germany.
- 2 Institute of Biology/Geobotany and Botanical Garden, Martin Luther University Halle-Wittenberg, Am Kirchtor 1, 06108, Halle, Germany.
- 3 German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Puschstr. 4, 04103, Leipzig, Germany.
- 4 Biometris, Wageningen University and Research, Droevendaalsesteeg 1, 6708 PB, Wageningen, The Netherlands.

\*corresponding author

#### Author contribution:

Author contributions (ctb) to the manuscript in percent.

chapter	status	author	ctb
(2) A Case of Investigation: using common	draft	S. Marr	90
metabolomics statistical tools in an eco-		J. A. Hageman	5
metabolomics experimental setup		S. Neumann	5

# A Case of Investigation: using common metabolomics statistical tools in an eco-metabolomics experimental setup

#### S Marr<sup>1, 2, 3, \*</sup>, JA Hageman<sup>4</sup> and S Neumann<sup>1,3</sup>

- <sup>1</sup> Bioinformatics & Scientific Data, Leibniz Institute of Plant Biochemistry, Halle (Saale), Germany
- <sup>2</sup> Institute of Biology, Martin Luther University Halle-Wittenberg, Halle (Saale), Germany
- <sup>3</sup> German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig
- <sup>4</sup> Biometris, Wageningen UR, Wageningen, The Netherlands
- \* Correspondence: <a href="mailto:smarr@ipb-halle.de">smarr@ipb-halle.de</a>

#### Abstract:

**Introduction** In eco-metabolomics, selecting relevant features from metabolomic profiles can provide insights into plant phenotype adaptations to environmental dynamics. Currently available statistical tools are not yet tailored to capture the complexity of ecological experiments, especially regarding the growing interest in the role of secondary metabolites.

**Objectives** Therefore, this study aims to compare the performance of classical metabolomics feature selection and classification methods in eco-metabolomics data sets, which provide challenges regarding sample size and background noise.

**Methods** We tested the performance of *Partial Least Squares Discriminant Analysis (PLS), Support Vector Machines (SVM)* and *Random Forests (RF)* in terms of accuracies and their predictive power on three different pre-processed data matrices in three independent data sets. The data sets provided four different levels of metabolomic profile complexity, ranging from distinct to similar profiles for comparison.

**Results** In general, the data matrices that either used measured intensities and zeros (*ZeroInt*) or imputed log-transformed data (*ImpLog*) were found to have the highest accuracies. In contrast, accuracy calculated on measured intensities with imputed values for missing data (ImpInt) was low overall. Comparing the model performance, we found the highest accuracies in *PLS* and *RF*. *PLS*, *SVM* and *RF* worked equally well on very distinguishable metabolomic profiles, while *PLS* and *RF* provided a greater classification power when the background was more similar.

**Conclusion** Choosing a suitable classification method depended mainly on the complexity of the provided background for classification. The choice of the data matrix depending on the model also improved the performance.

#### **Keywords:**

grassland, eco-metabolomics, classification, partial least square discriminant analysis, support vector machines, random forest

#### 1 Introduction:

In eco-metabolomics, one primary goal is to provide insights into phenotypes and metabolic profiles of biological systems. Combining metabolomics tools (e.g. mass spectrometry) with ecological experimental designs (Fiehn, 2020) allows using chemical properties to compare metabolic profiles and identify relevant compounds in the dynamics of environmental changes. In mass spectrometry, different measured features, defined by their specific mass-to-charge ratio (m/z) and retention time (RT), can derive from the same metabolic compound as they break down into multiple ion species during the analysis (Shi et al., 2019). The enormous amount of produced data can add major obstacles to statistical analysis, such as high dimensionality due to the imbalanced number of detected features that often exceed the number of samples by far and an increased risk of classification by chance due to a missing control level (Broadhurst & Kell, 2006; Gromski et al., 2015). As this research area is recently gaining more importance, so does the need for methods used for data handling, classification, and selecting important features. However, according to Smilde et al. (2005), the currently available statistical tools, which are developed mainly for clean experimental designs with a focus on case-control-samples, are not yet at a point where the complexity of ecological experiments is captured adequately (compare Broadhurst & Kell, 2006; Tang et al., 2014).

Furthermore, Shi et al. (2019) point out that only a limited number of algorithms include redundant features while noisy features are being removed. A high variability, often introduced in field or greenhouse experiments data, requires tailored analytical tools. In classical metabolomics studies, common tools for species classification and feature selection are, among others, *Partial Least Squares Discriminant Analysis (PLS), Support Vector Machines (SVM)* and *Random Forests (RF)*. As discussed by Tang et al. (2014), for building proper models, it is essential to realise that all feature selection methods work under different assumptions and are, therefore, not compatible with all classification problems per se. As Mendez et al. (2019) discussed, getting any model is granted while getting an almost perfect model reflecting natural phenomena is almost impossible. The most reliable method for a data set can depend on its size, data types, and noise level (Broadhurst & Kell, 2006). According to Brereton and Lloyd (2014), observatory methods like PLS can play a significant role in exploratory studies. It is mainly used to classify complex data due to its ability to handle high dimensionality and noisy data (Brereton & Lloyd, 2014; Gromski et al., 2015). However, one major limitation in *PLS* methods is the assumption of linear relationships between even-sized classes and the equal importance of all measurements, which is not necessarily the case in eco-metabolomics studies (Brereton & Lloyd, 2014; Gromski et al., 2019).

In contrast to *PLS, SVM* can be used on both linear and non-linear classification problems. However, as discussed by Statnikov et al. (2008), *SVM* is sensitive to an unbalanced distribution of classes. Furthermore, *SVM* is robust to outliers and less likely to overfit while performing well with noisy and high-dimensional data. On the other hand, *Random Forests (RF)* only require prior knowledge about the class labels and select the smallest set of features that can be used for classification. Generally, *RF* is comparable with *SVM* in terms of robustness towards outliers, noisy data handling and high dimensionality (Cutler et al., 2007; Statnikov et al., 2008). However, an advantage of *RF* over *PLS* and *SVM* is the ability to handle multiclass problems without any prior assumptions about the structure of the data and the robustness towards overfitting. Furthermore, *RF* has been shown to be a powerful tool, especially for ecological data, mainly due to its high classification accuracy and the ability to handle missing data (Cutler et al., 2007; Statnikov et al., 2008).

In this study, we want to compare the performance of *PLS*, *SVM* and *RF* in terms of their suitability in ecometabolomics studies. We use three eco-metabolomics data sets that incorporate some of the most common obstacles occurring in these types of experiments, i.e., few observations, uneven distribution of samples and noisy data. The data sets we use in this study are derived from a long-term field experiment (MTBLS679 and MTBLS1224) as well as from a greenhouse setup (MTBSL2140), each including secondary metabolomic profiles of above-ground tissue of grassland plant species. We used plant species (species) from the functional groups (FG), grasses and herbs and collected samples at different time points (season) from plots with varying stages of neighbourhood diversity (diversity levels). Hence, these data sets provide four analysis levels (FG, species, season, diversity) ranging from a very clear separation across multiple species with very distinctive metabolomic profiles (FG and species) to a more challenging separation in the analysis level of season and diversity where metabolomic profiles are compared within each species and, therefore, have major overlaps in their profiles. This eco-metabolomics study did not include a control level and, therefore, relied on the other species in the respective data set for classification background.

Consequently, the comparison and discrimination of one species is only as good as the reference data it is compared to. Furthermore, the environmental conditions were not controlled for, which introduced a high level of unexplained variation and an increased number of redundant or noisy features that do not directly contribute to the classification, which increases the chance of selecting some features just by chance (John et al., 1994).

Analysing multiple grassland plant species with different profiles within each data set also created high amounts of missing values. Performing the analysis on either zero or imputed data for these missing values is a highly discussed challenge when working with eco-metabolomic data sets. Both strategies might lead to misinterpretation of the data.

Therefore, we want to test different classification models and how well they perform on the different levels of analysis and investigate which matrices (zero vs imputed) are the most suitable for each of the models within a certain analysis level. Hence, our three motivations are: 1) do selection models use other than the unique features within each class for the classification of the samples; 2) how do the models perform on different data matrices with missing values being either treated as zeros or imputed values; 3) which model performs best on which level of analysis, including the increasing overlap of metabolic profiles within the samples. This study aims to compare and evaluate the usability of each feature selection method on the three data sets in terms of the number of selected features and their classification performance and stability.

#### 2 Methods:

#### 2.1 Data sets

The three data sets we used for the model calculations share a similar experimental design (Fig. 1, Table 1). All data sets (MTBLS679, MTBLS1224, MTBL2140) include thirteen grassland species (Species) in the functional group (FG) herb: Centaurea jacea L. (CENJAC), Geranium pratense L. (GERPRA), Knautia arvensis (L.) Coult. (KNAARV), Leucanthemum vulgare (Vaill.) Lam. (LEUVUL), Plantago lanceolata L. (PLALAN), Ranunculus acris L. (RANACR); and grass: Anthoxanthum odoratum L. (ANTODO), Avenula pubescens (Huds.) Dumort. (AVEPUB; species is now referred to as Helictotrichon pubescens (Huds.) Schult. & Schult.f.), Dactylis glomerata L. (DACGLO), Festuca rubra L. (FESRUB), Holcus lanatus L. (HOLLAN), Phleum pratense L. (PHLPRA), Poa pratensis L. (POAPRA). The dataset MTBLS2140 additionally contained the four grass species: Arrhenatherum elatius (L.) P.Beauv. ex J.Presl & C.Presl. (ARRELA), Festuca pratensis Huds. (FESPRA), Poa trivialis L. (POATRI), and Trisetum flavescens (L.) P.Beauv. (TRIFLA). A detailed description for the MTBLS679 data set, regarding the experimental design, sampling, measurements and processing steps can be found in Marr et al. (2021). Detailed descriptions for the data sets MTBLS1224 and MTBLS2140 can be found in the MetaboLights repositories MTBLS1224 (MetaboLights: MTBLS1224) and MTBLS2140 (MetaboLights: MTBLS2140), respectively. Raw data and sample metadata of all data sets are available in the respective repository: MTBLS679 (http://identifiers.org/metabolights:MTBLS679), MTBLS1224 (http://identifiers.org/metabolights:MTBLS1224) and MTBLS2140 (http://identifiers.org/metabolights:MTBLS2140). In data set MTBLS2140, seed material was grown in a phytocabinet and then transferred to an outdoor greenhouse. The plants were maintained, and the pots were kept free of weeds. The plant material for this data set was collected within 3 days in October 2019. The samples in the data sets MTBLS679 and MTBLS1224 were collected at four time points (season) across the growing in 2017 and 2018, respectively, from plots with different diversity levels (DL) in the TBE-Jena-Experiment (Ebeling et al. 2014). The diversity levels were compositions of either one species (DL 1), two (DL 2), four (DL 4) or eight different species (DL 8; Fig. 1). The collected above-ground material (MTBLS679, MTBLS1224, MTBLS2140) was snap-frozen, extracted with Methanol/Water (80/20 v/v) and analysed on a UPLC (Acquity, Waters, USA) coupled with an ESI-micrOToF-Q-II (Bruker, USA) in positive ion mode (LC-MS analysis).

We pre-processed the obtained raw data in the Galaxy-W4M (Giacomoni et al. 2015) instance using the workflow provided by Marr (https://doi.workflow4metabolomics.org/W4M00008) with adapted parameters for each data set. The generated data was then processed in R, performing a batch correction, blank removal, and sample validity check (Marr et al. 2021). The processed and cleaned data matrices are available as three matrices for each data set. One matrix contains the measured intensities and zero values, where no intensity was measured (*ZeroInt*; e.g. MTBLS679\_dataMatrixZ\_processed), measured intensities and imputed data (*ImpLog*; e.g. MTBLS679\_dataMatrixImp\_processed) and imputed and log-transformed data (*ImpLog*; e.g. MTBLS679\_dataMatrixImp\_processed). We are aware that there are several strategies for imputing missing data; however, we chose randomly selected small values for these data sets, assuming that there is no traceable relationship between the features. We analysed the data sets MTBLS679 and MTBLS1224 on four analysis levels (FG, species, season, diversity) and MTBLS2140 on two levels (FG and species; Table 1).

#### 2.2 Classification methods

Many tools are already available for metabolomics data that can be used for feature selection and classification problems, all well implemented and described in detail. Hence, we avoid in-depth mathematics and

focus on their general functionality, working principles, and differences between their approaches. Reviews of feature selection methods and their requirements may be found elsewhere (Tang et al., 2014). For each model, we used repeated 10-fold cross-validation. The data set is split randomly into 10 parts, building the model on nine of them and using the remaining part for validation. The average of the error terms of each validation is calculated. This procedure is then repeated 10 times, and the overall average is calculated. We implemented all methods in R (version 4.0.3; R Core Team 2019) and used the caret package (version 6.0-86; Kuhn, 2020) for model building. These methods are also available in the MetaboAnalyst software (MetaboAnalyst 5.0; Pang et al., 2021).

Partial Least Squares Discriminant Analysis (PLS) PLS is a linear classifier used as a multivariate regression method for calibration (Barker & Rayens 2003). It is a widely used tool in the fields of chemometrics (Wold et al. 2001), proteomics (Christin et al. 2013) and metabolomics (Gromski et al. 2015) that, although designed to solve binary case-control problems, can also be adapted to multiclass problems by using latent variables on a one-vs-one or one-vs-rest approach. The PLS algorithm gives the likelihood for a sample to belong to either class while providing information about the features that contribute to the separation. PLS, therefore, can also be used for biomarker identification. In PLS, the data are projected to a new dimensional space, finding a linear hyperplane alongside the discriminating features spanning a maximum space between the two classes. The weighted sums of the regression coefficient are used to calculate the variable importance for each feature (Kuhn 2020). Features that provide less information, therefore, are being downweighed. Features assigned relevant, however, are being selected based on their corresponding VIP values. A detailed description of the underlying PLS algorithm and VIP calculation can be found here (Barker & Rayens 2003, Brereton & Lloyd 2014). We used the pls package (version 2.7-3; Mevik et al. 2019) in the caret implementation in R for building the PLS model.

Support Vector Machines (SVM) SVM are commonly used in metabolomics (Mahadevan et al. 2008) and also many other research fields (e.g. Kriegl et al. 2005, Sattlecker et al. 2010). In contrast to PLS, which performs best for linearly separable data (linear kernel; SVMI), SVM can also solve non-linear problems (Sanz et al. 2018). Different kernels in the training phase enable SVM, for example, to deal with polynomial problems (poly kernel,. SVMp) and infinite dimensions (radial kernel; SVM). SVM are generally robust and effective predictors, suitable for both classification and regression, and are, therefore, used to select relevant features for classification and prediction (Burges, 1998; Statnikov et al. 2008). In SVM, the classifier is built by projecting a hyperplane into a higher dimensional space, separating the two classes with a maximal margin. The support vectors, being the features closest to the boundaries of the margin, are selected as the most relevant features giving the best separating and classification accuracy (Mahadevan et al. 2008, Tang et al. 2014). A large margin, therefore, also means a good generalisation. For prediction, SVM focuses on which side of the support vector a sample falls. The variable importance is assessed by ranking the features according to their relevance, separating the classes and the subset with the highest classification accuracy is chosen (Sanz et al 2018). A detailed explanation of the working principles and underlying math may be found elsewhere (Mahadevan et al. 2008). For a linear SVM, we use a recursive feature elimination to calculate the variable importance of each feature. For building the SVM model, we used the e1071 package (version 1.7-6; David et al. 2019) in the caret package implementation.

*Random Forests (RF)* In order to cope with high dimensional and complex data, *RF* – a collection of single classification trees – are an effective statistical tool for classification and feature selection in metabolomics studies. *RF* can be used on complex and high dimensional data and is, therefore, also a popular tool amongst ecologists (e.g. Cutler et al. 2007). However, the selection of features is not implemented as a direct output. In general, *RF* is defined as a supervised classification method consisting of a collection of classification trees that randomly splits the features in trainings and test sets to grow full and unpruned trees that are aggregated to a single data set (forest) including the predictions from all classification trees (Breiman 2001, Genuer et al. 2010). At each node, the binary partitioning is performed on randomly selected subsets of features within the bootstrap samples. One tree is grown per bootstrap sample, where each node, being equally distributed vectors, casts a single vote for the most common feature. Prediction accuracy is recorded for each tree. The variable importance can also be used for clustering, multidimensional scaling and missing value imputation (Strobl et al. 2007). Detailed information about the underlying algorithm and statistical backgrounds are explained in Breiman (2001) and Genuer et al. (2010) and are furthermore discussed in (Cutler et al. 2007). Here, we used the randomForest package (version 4.6-14; Liaw & Wiener 2002) in the caret implementation in R.
#### 3 Results:

This study used three eco-metabolomics data sets that included common obstacles such as few observations, uneven distribution of samples, and noisy data. In these data sets, metabolomic profiles were compared at four analysis levels that ranged from very distinct metabolomic profiles across multiple species (FG and species), and hence, easy classification, to very similar profiles within the same species (season and diversity) and, therefore, more challenging classification problems. Based on the provided metabolomic background, we defined features present in more than one factor per analysis level in their data set as non-unique. Hence, features present in only one factor were defined as unique. We compared those features that were selected by the respective models with the selected unique features per analysis levels. At the FG level, we selected features that are either present in grass or herb species. At the species level, we selected features present in only one species and no other species within each data set (one-vs-rest). For the levels of season and diversity (MTBLS679 and MTBLS1224) we selected the features within each species. Here, we selected features present in only one season or diversity level. For model comparison, we used accuracy and Cohen's Kappa values, where the accuracy gives the rate of correctly classified species out of all classified species in a data set, and the Kappa value gives an estimate on the reliability of the calculated accuracy for unbalanced data (some species have more features than others). The Kappa value ranges from -1 to 1, where values above 0.8 are assumed to be strong and above 0.9 as almost perfect (McHugh, 2012). We assessed the prediction performance of each model using the true positive and true negative prediction rates.

Depending on the applied threshold on the variable importance (in all levels in all models: 65, except species level's PLS: 10), the presented features (Fig. 2) are the variables with the highest variable importance selected by the models. Therefore, the total number of presented features would change accordingly with a lower or higher applied threshold. However, in the analytical level FG, we found the majority of unique features not to be selected by the models (Fig. 2 a). In this level, PLS selected most features from the pool of non-unique features and shared a major part with the SVMs models. RF only selected 5% of the features that PLS and SVMs selected. At this level, all models selected their features mainly from the collection of non-unique features. However, two features were selected by all models from the pool of unique features. In the level of species, most of the unique features were not selected by any of the models (Fig. 2 b). However, PLS and SVM took a majority of their features from the pool of unique features, while RF took less than 1% of these features. RF was found to draw almost equally from both pools unique and non-unique. There were no features in common between all models and the pool of unique features. On the analytical level season, SVMs drew almost as much of their features from the pool of unique features as from the pool of non-unique features (Fig. 2 c), while PLS and RF selected a majority of the features from the pool of unique features. In general, RF selected only 3% compared to the number of PLS selected features. In total, 36 features were selected from all models within the pool of unique features. In the analytical level diversity (Fig. 2 d), most of the unique features were not selected by the models. However, all three models selected a majority of their features from the pool of unique features. In total, 14 features were selected by all models from the pool of unique features in this analysis level.

Here, we compared the model performances based on their accuracies, i.e. the rate of correctly identified samples and the Kappa value. High Kappa values (>0.8 strong, >0.9 almost perfect) support the reliability of the calculated accuracies (Fig. 3, Table 2). Models with an accuracy level above 0.8 were considered reliable classification models. In general, the data matrices ImpLog and ZeroInt were found to have the highest accuracies. In the levels FG and Species, the overall mean accuracy was very high and supported greatly by the Kappa value. The differences between the data matrices in these two levels were found to be rather small (Table 2). ImpLog and ZeroInt showed the highest mean accuracies in FG, with 0.984 to 1.0 for ZeroInt and 0.997 to 1.0 for ImpLog. At the species level, the accuracies had a greater range between the data matrices. ImpLog had accuracies between 0.975 and 0.982, followed by ZeroInt with 0.955 to 0.978. In the levels of season and diversity, the mean overall accuracy was relatively low compared to the FG and species levels. Here the accuracies ranged from 0.332 to 0.877 and 0.203 to 0.395 for season and diversity, respectively. In these two levels, the ZeroInt data matrix had the highest accuracies. In the season level, the accuracies calculated ob the ZeroInt and ImpLog data matrices were relatively close, with 0.824 to 0.844 for ZeroInt (except SVMr: 0.332) and 0.743 to 0.877 for ImpLog (except SVMr: 0.669). In contrast, accuracies calculated on the ImpInt data matrix were overall low at 0346 to 0.787. In season, the accuracies differed greatly between the data matrices, e.g. SVMr performed best on the ImpLog data matrix (mean accuracy: 0.669), and was very weak with ZeroInt (0.33) and ImpInt (0.35) data matrices (Table 2). The accuracies for each species for SVMr on ImpLog ranged between 0.393 and 0.873, ZeroInt between 0.199 and 0.970, and ImpInt between 0.210 and 0.531 (Supplement Table A). The models SVMI and SVMp performed in the same range between accuracies of the different data matrices, with the highest accuracies on the ZeroInt data matrix (SVMI: 0.832, SVMp: 0.839), middle performance on ImpLog (SVMI: 0.746, SVMp: 0.743) and lowest accuracy for the ImpInt data matrix (SVMI: 0.554, SVMp: 0.565). In the analysis level diversity, the highest accuracies across all models were reached in the *ZeroInt* data matrix (0.243 to 0.395), followed by *ImpLog* (0.203 to 0.380) and *ImpInt* (0.206 to 0.362). Furthermore, in the levels of season and diversity, the Kappa values were found to be rather low (season: 0.087 to 0.784, diversity: 0.013 to 0.174), except for *PLS* on the *ImpLog* data matrix in season (0. 827). Kappa values below 0.8 are considered not very strong and do not support the calculated accuracies (Table 2).

Comparing the model performance, we found PLS and RF generally with the highest accuracies compared to the SVMs. All models generally showed high accuracy in FG and species' analytical levels (Table 2). In FG, PLS had the highest accuracy (0.998 to 1.000) along with SVMI (0.998 to 1.000), followed by SVMp (0.997 to 1.000) and RF (0.996 to 1.000). SVMr showed the lowest accuracy (0.984) within this level. We found the highest accuracy and widest range in the analysis level species in PLS (0.943 to 0.982). RF (0.975 to 0.976), SVMp (0.970 to 0.978), and SVMI (0.968 to 0.977) performed almost equally well. SVMr had a slightly lower accuracy (0.955 to 0.979). In both levels of FG and species, the mean Kappa was above 0.9. In season, PLS was found to have the highest accuracy with the data matrices ZeroInt (0.824) and ImpLog (0.877), whereas ImpInt had a rather low accuracy (0.695). This performance was followed by RF (0.787 to 0.844), SVMI (0.746 to 0.832, except ImpInt: 0.554) and SVMp (0.743 to 0.839, except ImpInt: 0.565). Here, SVMr also showed very low accuracy levels (0.332 to 0.669). In this analysis level, the Kappa values were only slightly above 0.7 in RF (all matrices), SVMI (ZeroInt) and SVMp (ZeroInt), and between 0.784 and 0.877 for PLS on the ZeroInt and ImpLog data matrix, respectively. All other models had a Kappa below 0.7 (Table 2). All models were found to have generally low accuracies at the diversity level. PLS (0.362 to 0.395) were slightly higher than RF (0.296 to 0.351), SVMp (0.258 to 0.378) and SVMI (0.241 to 0.355). The accuracies in SVMr even stayed below 0.3 (0.203 to 0.243). All Kappa values in the diversity analysis level were below 0.18 (Table 2).

We compared the predictive power of each model by using the rates for true positive and negative predictions (Table 3). In the analysis level FG, both the true positive and true negative rates were at 1.0, meaning all samples were predicted correctly, with no false positives or false negatives. Only in *RF* we found a less accurate prediction (0.995). In the level of species, *PLS* (pos: 0.981, neg: 0.999), *RF* (pos: 0.974, neg: 0.998) and *SVMI* (pos: 0.808, neg: 0.966) had a very high prediction rate for both true positives and negatives (Table 3). However, in *SVMr* and *SVMp*, we found a slightly less accurate prediction rate for true positives (*SVMr*: 0.742, *SVMp*: 0.792) but an equally good rate for the true negatives (*SVMr*: 0.964, *SVMp*: 0.968). In the analysis level season, we found the *PLS* model to predict a true positive rate above 0.8, followed by *RF* with 0.795. The *SVM* models in this analysis level ranged from 0.649 to 0.693. The best true negative rates were also found in *PLS* (0. 960) and *RF* (0.934), while this rate ranged from 0.886 and 0.898 in the *SVM* models (Table 3). The true negative rates in the analysis level diversity were all above 0.7. However, the positive prediction rates in this level were below 0.4, with the best rates in *PLS* (0. 358) and *SVMr* (0.314). *SVMI*, *SVMp* and *RF* showed a prediction rate of true positives below 0.3 (Table 3).

#### 4 Discussion:

The key goal of this study was to compare the performance of the three statistical tools, *PLS*, *RF* and *SVM*, in terms of their suitability for eco-metabolomics data sets.

The first question we addressed was if classification models are generally needed for a reliable classification on different levels of distinctiveness in metabolomic profiles. In general, we found that the overall composition of the metabolomic profiles was most important for classification as the pool of unique features that the models could choose from strongly depended on the provided background of metabolomic profiles (either across or within species). For example, in the levels FG and species where we compared distinct metabolomic profiles across species, we found that non-unique features were used throughout the classification process. On the other hand, the models selected more unique features in season and diversity, where the classification was performed within each species and hence on a less distinct background. As Gromski et al. (2015) discussed, using more than one feature selection method, especially when used on a data set with unknown structures or a combination of them, might improve the comprehensive interpretation of the results. In our study, a small number of features were also globally selected by all three models, which makes it likely that they, even if they might not play a key role in the classification, are of potential interest and worth a second look. The annotated and identified corresponding metabolites can then be used in more in-depth studies to prove their relevance within the ecosystem services.

The second main question concerned the handling of missing values. As discussed by Mendez et al. (2019), data sets should be curated well and pass thorough quality control checks before they are used to build a classification model. In this study, the data matrix used significantly influenced the classification performance in

all methods. In general, we found that in the levels that compared profiles across multiple species and therefore had relatively little overlap in the metabolic profiles, *ImpLog* (using log-transformed intensities and randomly imputed low values for missing values) was the preferred choice. In contrast, in the levels that compared profiles within one species and were more challenging to separate based on their profiles, classification models worked better on the *ZeroInt* (using measured intensities and zeros for missing values) data matrix. The *ImpInt* matrix, which used measured intensities with randomly imputed low values for missing values, showed generally lower accuracies across all analysis levels. Although imputed with very low values, in the *ImpInt* data matrices, the differences between the measured intensities and the imputed data are most likely not determined enough to provide a good classification base. In contrast, in *ZeroInt*, intensity values are distinguished with zeros from missing values. In the log-transformed imputed data matrix, all values are compelled in a normal distribution, making it easier to separate and classify.

However, in the levels of season and diversity, the differentiation between the plant samples across the growing season (season) and between different biogeographic legacies (diversity levels) depended on the respective species. Some profiles of the tested plant species were comparably easy to classify across different seasons and diversity levels, where these environmental dynamics could not be classified in some other species. In season, both *ZeroInt* and *ImpLog* data matrices showed the best overall accuracies. Although generally low in classification performance, the *ZeroInt* data matrix showed the best classification rate in the diversity levels. The *ZeroInt* data matrix was the most suitable at this level, probably due to the great overlap in metabolic profiles and the more explicit distinction between them based on the zeros for missing values.

We found that PLS seemingly worked best with the *ImpLog* data matrix as model-matrix combinations, followed by *ZeroInt. RF*, across all levels of analysis, worked best on the *ZeroInt* data matrix. *SVMI* and *SVMp* worked equally well with *ZeroInt* and *ImpLog* data matrices. *SVMr*, although showing only a poor performance in general, worked best with the *ImpLog* data matrix. Both model-matrix strategies, *ZeroInt* (SVMI, SVMp, RF) and *ImpLog* (*PLS, SVMr*), worked well but were also highly dependent on the different plant species in the seasonal and diversity levels, with some species being reliably classified and some showing almost no differences in their profiles. The choice of models and data matrix influenced the classification performance in season and diversity significantly. In season, for example, *PLS* on *ImpLog* and *RF* on *ZeroInt* showed a rather good performance, whereas, in the diversity level, both *PLS* and *RF* worked best on the *ZeroInt* data matrix. In the analysis level FG and species, the accuracies of all model-data matrix combinations varied very little. However, at the Species level, where the species-specific metabolic profiles are distinctive but generally share some more features between closely related species, we found that the choice of data matrix did change the performance of the tested models to a greater deal than in the FG levels. *ImpLog* seemingly worked best for *PLS* and *SVM*, while *RF* performed better with the *ZeroInt* data matrix.

The third major question in this study was to compare the model performances on each analysis level. Both the FG and Species analysis levels showed great overall accuracy in all tested models with only slight variations. The accuracy of this one-vs-rest approach in these levels, although enabling the models to distinguish between metabolic profiles, highly depends on the profiles they are compared to. In all tested analysis levels, we found the linear classifier *PLS* to perform best in terms of accuracies and Kappa values. *RF* showed very similar values compared to *PLS*, except in FG, where *SVMI* and *SVMp* performed slightly better. RF showed a comparatively good performance in the analysis level season, although without a supporting Kappa value. In the analysis level of diversity, we found no suitable classification strategy in most species. In general, the classification in the level of diversity is most challenging due to the underlying experimental setup. The sampled plant communities are not replicated in the Trait-Based-Experiment. Each diversity level has a different plant community as a reference and, therefore, unknown diverse effects on the metabolomic profiles. Additionally, at the diversity level, the models have to classify across the seasonal level, which comes with a greater variety in the metabolomic profiles. Here, *RF* was found to be the second-best model after *PLS*.

Across all four analysis levels, both the linear and poly kernel models in *SVM* were always close to each other in terms of accuracies and Kappa values. Our analysis found that *SVMp* often showed the best results when using one dimension for the data separation, which makes it a linear classification model. This most likely occurred due to the ability of the polynomial kernel to test different numbers of dimensions (degree) that worked best for the classification of each group (Burges, 1998; Statnikov et al., 2008). *SVMI* and *SVMp* are very close in their performance but are not as accurate as *PLS* and *RF. SVMr* seemed the least suitable for these data types in terms of performance across all data sets and within the analysis level (Burges, 1998).

Addressing the underlying structures of the measured features could significantly improve the classification performance (Tang et al., 2014; Hageman et al., 2017). However, in this study, we found excellent classifications at FG and species level, especially in PLS models, which might result from the data's underlying structure. The

data sets we used in this study included species whose secondary metabolite patterns are highly diverse and allowed for an excellent classification per se (Marr et al., 2021). Another reason for getting those almost perfect classifications in the FG and species levels may occur due to the over-optimistic prediction of the ecometabolomics data. For example, the imbalance between the number of features and samples can increase the ratio of features that correlate with the initial research question just by chance or lead to overfitting models. An overfitting model would represent the training data nearly perfectly while lacking the ability of generalisation (Broadhurst & Kell 2006, Tang et al. 2014, Gromski et al. 2015). Furthermore, as discussed by Mendez et al. (2019), carefully choosing parameters while training the model is essential to avoid drawing wrong conclusions. Therefore, the outcome and interpretation of results can be very different depending on the methods used.

#### 5 Conclusion:

In eco-metabolomics, choosing a suitable classification method relies on multiple conditions. Therefore, which method is better suited for a specific problem may be based on the combination of strengths and limitations of the classification and feature selection method concerning the individual data sets. Depending on the goal of the classification and feature selection, we found *RF* to be a great choice for selecting only a few features that are needed for the classification. In contrast, *PLS* selected a greater number of features that were involved to some degree in the classification of the classes. For the usage of the latter method, the feature selection goal could be to find a fixed number of the most relevant features for separating the groups. However, due to its underlying structure, *PLS* has a tendency to overfit the provided data and might not be the best choice as a prediction model.

The careful handling of the data matrix can also improve the performance of the chosen model. This study found that the more similar the metabolic profiles are, the better the *ZeroInt* data matrix worked with the models. In general, we found that the overall composition of the metabolomic profiles was most important for classification. Depending on the complexity of the provided background for classification, *PLS, SVM*, and *RF* work comparably reliably when distinguishable metabolomics profiles are used, e.g. when classifying across different species. PLS and RF provide a greater classification power when the provided background is similar, e.g. when comparing different treatments within one species. We, therefore, suggest using the introduced feature selection tools with care and as observatory tools for eco-metabolomics data sets to reduce the amount of available data and retrieve relevant information. Selected features and identified metabolites can then be used in more in-depth studies to prove their relevance within ecosystem services.

#### Supplementary information

Model calculations of all species and factors are available in the comprehensive supplemental table 1 (see Appendix – Chapter 2).

#### Funding

This paper has been conducted in the framework of the iDiv-Flexpool – the internal funding mechanism of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816. This manuscript is part of the *Metabolite Changes in Biodiversity Levels and Seasonal Shifts* project (MacBeSSt; W47013118Ü).

#### **Conflict of interest**

The authors declare no conflict of interests.

#### Availability of Data and Code

The data sets MTBLS679, MTBLS1224, MTBLS2140, including raw data files and metadata, are available at MetaboLights as http://identifiers.org/metabolights:MTBLS679, http://identifiers.org/metabolights:MTBLS1224 (in curation) and http://identifiers.org/metabolights:MTBLS2140 (in curation). The code, used for calculation and to produce the figures is available as downloadable R-script in the files of the MTBLS1224 repository (http://identifiers.org/metabolights:MTBLS1224).

#### Author contribution

SM, JAH and SN conceived and designed research. SM provided data sets. SM and SN uploaded and curated the data repositories. SM and JAH performed the analysis. SM wrote the manuscript. All authors read and approved the manuscript.

#### Acknowledgements

The authors gratefully acknowledge the support of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816. The authors also thank the technical staff of the Jena Experiment (DFG, FOR 456/1451) and the coordinator Anne Ebeling for maintaining the experimental field site in which the data sets MTBLS679 and MTBLS1224 were collected. Furthermore, many thanks to the gardeners in charge at the IPB Halle, for the support of growing the plant individuals used for the data set MTBLS2140. This research was supported by the International Research Training Group TreeDì jointly funded by the DFG (GRK2324) and the University of Chinese Academy of Sciences (UCAS).

#### References

- Barker, M., & Rayens, W. (2003). Partial least squares for discrimination. Journal of Chemometrics: A Journal of the Chemometrics Society, 17(3), 166-173.
- Breiman, L. (2001). Random forests. Machine learning, 45(1), 5-32.
- Brereton, R. G., & Lloyd, G. R. (2014). Partial least squares discriminant analysis: taking the magic away. Journal of Chemometrics, 28(4), 213-225.
- Broadhurst, D. I., & Kell, D. B. (2006). Statistical strategies for avoiding false discoveries in metabolomics and related experiments. Metabolomics, 2(4), 171-196.
- Burges, C. J. (1998). A tutorial on support vector machines for pattern recognition. Data mining and knowledge discovery, 2(2), 121-167.
- Christin, C., Hoefsloot, H. C., Smilde, A. K., Hoekman, B., Suits, F., Bischoff, R., & Horvatovich, P. (2013). A critical assessment of feature selection methods for biomarker discovery in clinical proteomics. Molecular & Cellular Proteomics, 12(1), 263-276.
- Cutler, D. R., Edwards Jr, T. C., Beard, K. H., Cutler, A., Hess, K. T., Gibson, J., & Lawler, J. J. (2007). Random forests for classification in ecology. Ecology, 88(11), 2783-2792.
- David, M., Evgenia, D., Kurt, H., Andreas, W., & Friedrich, L. (2019). e1071: Misc Functions of the Department of Statistics, Probability Theory Group (Formerly: E1071), TU Wien. R package version 1. 7–6.
- Ebeling, A., et al. & Weisser, W. W. (2014). A trait-based experimental approach to understand the mechanisms underlying biodiversity–ecosystem functioning relationships. Basic and Applied Ecology, 15(3), 229-240.
- Fiehn, O. (2002). Metabolomics—the link between genotypes and phenotypes. In Functional genomics (pp. 155-171). Springer, Dordrecht.
- Genuer, R., Poggi, J. M., & Tuleau-Malot, C. (2010). Variable selection using random forests. Pattern recognition letters, 31(14), 2225-2236.
- Giacomoni, F., Le Corguillé, G., Monsoor, M., Landi, M., Pericard, P., Pétéra, M., ... & Goulitquer, S. (2015). Workflow4Metabolomics: a collaborative research infrastructure for computational metabolomics. Bioinformatics, 31(9), 1493-1495.
- Gromski, P. S., Muhamadali, H., Ellis, D. I., Xu, Y., Correa, E., Turner, M. L., & Goodacre, R. (2015). A tutorial review: Metabolomics and partial least squares-discriminant analysis–a marriage of convenience or a shotgun wedding. Analytica chimica acta, 879, 10-23.
- Hageman, J. A., Engel, B., de Vos, R. C., Mumm, R., Hall, R. D., Jwanro, H., ... & van Eeuwijk, F. A. (2017). Robust and confident predictor selection in metabolomics. In Statistical analysis of proteomics, metabolomics, and lipidomics data using mass spectrometry (pp. 239-257). Springer, Cham.
- John, G. H., Kohavi, R., & Pfleger, K. (1994). Irrelevant features and the subset selection problem. In Machine Learning Proceedings 1994 (pp. 121-129). Morgan Kaufmann.

- Kriegl, J. M., Arnhold, T., Beck, B., & Fox, T. (2005). A support vector machine approach to classify human cytochrome P450 3A4 inhibitors. Journal of computer-aided molecular design, 19(3), 189-201.
- Kuhn, M. (2020). caret: Classification and Regression Training. R package version 6.0-86. https://CRAN.R-project.org/package=caret
- Liaw, A., & Wiener, M. (2002). Classification and regression by randomForest. R news, 2(3), 18-22.
- Mahadevan, S., Shah, S. L., Marrie, T. J., & Slupsky, C. M. (2008). Analysis of metabolomic data using support vector machines. Analytical chemistry, 80(19), 7562-7570.
- Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H., & Neumann, S. (2021). LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods. Scientific data, 8(1), 1-12.
- McHugh, M. L. (2012). Interrater reliability: the kappa statistic. Biochemia medica, 22(3), 276-282.
- Mendez, K. M., Reinke, S. N., & Broadhurst, D. I. (2019). A comparative evaluation of the generalised predictive ability of eight machine learning algorithms across ten clinical metabolomics data sets for binary classification. Metabolomics, 15(12), 150.
- MetaboLights http://identifiers.org/metabolights:MTBLS679. (2017)
- MetaboLights http://identifiers.org/metabolights:MTBLS1224. (2018)
- MetaboLights http://identifiers.org/metabolights:MTBLS2140. (2019)
- Mevik, B. H., Wehrens, R., & Liland, K. H. (2019). pls: Partial least squares and principal component regression. R package version 2.7-2.
- Pang, Z., Chong, J., Zhou, G., Morais D., Chang, L., Barrette, M., Gauthier, C., Jacques, PE., Li, S., and Xia, J. (2021) MetaboAnalyst 5.0: narrowing the gap between raw spectra and functional insights Nucl. Acids Res. (doi: 10.1093/nar/gkab382)
- R Core Team (2019). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL https://www.R-project.org/.
- Sanz, H., Valim, C., Vegas, E., Oller, J. M., & Reverter, F. (2018). SVM-RFE: selection and visualisation of the most relevant features through non-linear kernels. BMC bioinformatics, 19(1), 1-18.
- Sattlecker, M., Bessant, C., Smith, J., & Stone, N. (2010). Investigation of support vector machines and Raman spectroscopy for lymph node diagnostics. Analyst, 135(5), 895-901.
- Shi, L., Westerhuis, J. A., Rosén, J., Landberg, R., & Brunius, C. (2019). Variable selection and validation in multivariate modelling. Bioinformatics, 35(6), 972-980.
- Smilde, A. K., Jansen, J. J., Hoefsloot, H. C., Lamers, R. J. A., Van Der Greef, J., & Timmerman, M. E. (2005). ANOVAsimultaneous component analysis (ASCA): a new tool for analysing designed metabolomics data. Bioinformatics, 21(13), 3043-3048.
- Statnikov, A., Wang, L., & Aliferis, C. F. (2008). A comprehensive comparison of random forests and support vector machines for microarray-based cancer classification. BMC bioinformatics, 9(1), 319.
- Strobl, C., Boulesteix, A. L., Zeileis, A., & Hothorn, T. (2007). Bias in random forest variable importance measures: Illustrations, sources and a solution. BMC bioinformatics, 8(1), 25.
- Tang, J., Alelyani, S., & Liu, H. (2014). Feature selection for classification: A review. Data classification: Algorithms and applications, 37.
- Wold, S., Sjöström, M., & Eriksson, L. (2001). PLS-regression: a basic tool of chemometrics. Chemometrics and intelligent laboratory systems, 58(2), 109-130.

#### Figures

**Figure. 1** Data set overview. All data sets are composed of species (pink) from the functional groups (FG; green) grasses (light green panel) and herbs (dark green panel). The data set MTBLS2140 (orange panel) includes four additional grass species. In the data sets MTBLS679 and MTBLS1224 (grey panel) each species was sampled in four different seasons (late spring, early summer, late summer, early autumn; peach) from plots with four different diversity levels (DL; pale purple).

FG	herb	grass	
Species	CENJAC GERPRA	ANTODO AVEPUB	ARRELA
	KNAARV	DACGLO	FESPRA
	PLALAN RANACR	HOLLAN PHLPRA	POATRI
		POAPRA	TRIFLA

**Figure 2** Features selected by classification methods, compared to unique features of each analysis level. For plotting purposes, we combined model selected features from all calculated factors within the three data sets (MTBLS679, MTBLS1224, MTBLS2140). *SVMI, SVMr*, and *SVMp* models are combined to *SVM* to increase the readability of the figure. In all analysis levels, we used 65 as the variable importance threshold for *PLS, SVM,* and *RF* (except in Species, *PLS*: 10). In each analysis level, we selected unique features separately and combined them across the three data sets (MTBLS679, MTBLS1224, MTBLS1224, MTBLS2140). a) In the analysis level FG (MTBLS679, MTBLS1224, MTBLS2140), features were selected as unique that only occurred in either one of the groups grass or herb. b) In the species level (MTBLS679, MTBLS1224, MTBLS2140), we selected unique features per species based on the one-vs-rest concept. c) Unique features in the Season level (MTBLS679, MTBLS1224), and d) Diversity level were selected within each species for each Season and Diversity level (MTBLS679, MTBLS1224), respectively, using the one-vs-rest approach.





**Figure 3** Model performances compared based on their accuracy. Calculated accuracies of each data matrix (*ZeroInt, ImpInt, ImpLog*) are used to show the range within one model in one analysis level. The analysis levels are FG (green), species (deep pink), season (peach) and diversity (pale purple). The calculated models are PLS (circle), *SVMI* (square), *SVMr* (up pointing triangle), *SVMp* (down pointing triangle), and *RF* (diamond). The data matrices are arranged to show the minimal, medium and maximal accuracy value, which was reached by the respective model in each analysis level. Compare **Table 2**. The levels FG and species are additionally zoomed in the partial plots b (FG) and c (Spec) to increase the visibility and comparability. Note the different ranges on the x axis in both plots.



#### Tables

**Table 1** Data set overview. All data sets (MTBLS679, MTBLS1224, MTBLS2140) are composed of species belonging to the functional groups (FG) grasses and herbs. The data set MTBLS2140, additionally, contained four grass species. Samples in the data sets MTBLS679 and MTBLS1224 were collected in four different seasons from plots with four different diversity levels.

Level	Factors	Abb	Data Set
FG	grass, herb		MTBLS679, MTBLS1224, MTBLS2140
Species	<u>herb:</u>		MTBLS679, MTBLS1224, MTBLS2140
	Centaurea jacea,	CENJAC	
	Geranium pratense,	GERPRA	
	Knautia arvensis,	KNAARV	
	Leucanthemum vulgare,	LEUVUL	
	Plantago lanceolata,	PLALAN	
	Ranunculus acris	RANACR	
	grass:		
	Anthoxanthum odoratum,	ANTODO	
	Avenula pubescens,	AVEPUB	
	Festuca rubra,	FESRUB	
	Holcus lanatus,	HOLLAN	
	Phleum pratense,	PHLPRA	
	Poa pratensis,	POAPRA	
	Arrhenaterum elatius,	ARRELA	MTBLS2140
	Festuca pratensis,	FESPRA	
	Poa trivialis,	POATRI	
	Trisetum flavescens	TRIFLA	
Season	late spring, early summer, le early autumn	ate summer,	MTBLS679, MTBLS1224
Diversity	DL 1, DL2, DL,4, DL8		MTBLS679, MTBLS1224

**Table 2** Model performances compared across levels of analysis and data matrices. Models were calculated for each data set (MTBLS679, MTBLS1224, MTBLS2140) separately. In the data sets MTBLS679 and MTBLS1224, the levels season and diversity were calculated for each species (Spec) separately. We compare the model performances based on their accuracy and the corresponding Kappa. In order to increase readability, the table shows the mean accuracy (mAc) and mean Kappa (mKa), averaged across the data sets (MTBLS679, MTBLS1224, MTBLS2140). Additionally, for the analysis levels season and diversity, the mAc and mKa were averaged across all species. Reliable mAc (mKa > 0.6) are highlighted in bold font. A comprehensive table, including all calculations and the best model choices, are available in Supplemental Table 1 (Online Resource 1).

	Level	FG		Spec		Season		Diversit	:y
Model	Data matrix	mAc	mKa	mAc	mKa	mAc	mKa	mAc	mKa
PLS	ZeroInt	1.000	1.000	0.978	0.976	0.824	0.784	0.395	0.146
	ImpInt	0.998	0.995	0.943	0.940	0.695	0.584	0.362	0.154
	ImpLog	1.000	1.000	0.982	0.980	0.877	0.827	0.380	0.174
SVMI	ZeroInt	0.999	0.999	0.971	0.969	0.832	0.765	0.355	0.140
	ImpInt	0.998	0.996	0.968	0.965	0.554	0.398	0.253	0.023
	ImpLog	1.000	1.000	0.977	0.974	0.746	0.655	0.241	0.042
SVMr	ZeroInt	0.984	0.963	0.955	0.951	0.332	0.087	0.243	0.016
	ImpInt	0.986	0.969	0.958	0.954	0.346	0.159	0.206	0.013
	ImpLog	1 000	1 000	0 979	0.977	0.669	0 570	0.203	0.047
SVMp	ZeroInt	0.999	0.999	0.973	0.970	0.839	0.767	0.378	0.162
	ImpInt	0.997	0.994	0.975	0.967	0.565	0./16	0.270	0.065
	ImpLog	1 000	1 000	0.070	0.0076	0.303	0.410	0.270	0.005
RF	ZeroInt	1.000	1.000	0.976	0.970	0.745	0.000	0.256	0.005
	ImpInt	1.000	1.000	0.976	0.974	0.844	0.782	0.351	0.150
	Impl.oa	0.996	0.991	0.975	0.984	0.787	0.710	0.296	0.116
		0.997	0.992	0.975	0.973	0.791	0.715	0.297	0.115

**Table 3** Mean values of true positive prediction rate (pos rate) and true negative prediction rate (neg rate) for all levels in the respective data sets. Predictions are calculated on each level separately. For the level FG the rates are predicted for grass vs herb species. For the species level, the rates are calculated per species vs rest, for the levels season and diversity, the rates are calculated in each species per season and per diversity level, respectively.

Level	Model	MTBLS	pos rate	neg rate
FG	PLS	679, 1224, 2140	1.000	1.000
	SVMI	679, 1224, 2140	1.000	1.000
	SVMr	679, 1224, 2140	1.000	1.000
	SVMp	679, 1224, 2140	1.000	1.000
	RF	679, 1224, 2140	0.995	1.000
Species	PLS	679, 1224, 2140	0.981	0.999
	SVMI	679, 1224, 2140	0.808	0.966
	SVMr	679, 1224, 2140	0.742	0.964
	SVMp	679, 1224, 2140	0.792	0.968
	RF	679, 1224, 2140	0.974	0.998
Season	PLS	679, 1224	0.880	0.960
	SVMI	679, 1224	0.661	0.892
	SVMr	679, 1224	0.649	0.886
	SVMp	679, 1224	0.693	0.898
	RF	679, 1224	0.795	0.934
Diversity	PLS	679, 1224	0.358	0.796
	SVMI	679, 1224	0.239	0.749
	SVMr	679, 1224	0.314	0.771
	SVMp	679, 1224	0.275	0.761
	RF	679, 1224	0.290	0.770

### CHAPTER 3

## The sign of the thirteen: metabolite profile dynamics across season and diversity in thirteen grassland species

**Title**: The sign of the thirteen: metabolite profile dynamics across season and diversity in thirteen grassland species

#### Authors:

Sue Marr<sup>1,2,3\*</sup> & Steffen Neumann<sup>1,3</sup>

<sup>1</sup>German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Leipzig, 04103, Germany <sup>2</sup>Martin Luther University Halle-Wittenberg, Institute of Biology/Geobotany and Botanical Garden, Halle, 06108, Germany

<sup>3</sup>Leibniz Institute of Plant Biochemistry, Bioinformatics & Scientific Data, Halle, 06120, Germany \*corresponding author

#### Author contribution:

Author contributions (ctb) to the manuscript in percent.

chapter	status	author	ctb
(3) The sign of the thirteen: investigating	draft	Sue Marr	98
metabolite fingerprints across season and			
diversity in thirteen grassland plant species		Steffen	
		Neumann	2

# The sign of the thirteen: metabolite profile dynamics across season and diversity in thirteen grassland species

Sue Marr<sup>1,2,3\*</sup> and Steffen Neumann<sup>1,3</sup>

<sup>1</sup>German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Leipzig, 04103, Germany <sup>2</sup>Martin Luther University Halle-Wittenberg, Institute of Biology/Geobotany and Botanical Garden, Halle, 06108, Germany <sup>3</sup>Leibniz Institute of Plant Biochemistry, Bioinformatics & Scientific Data, Halle, 06120, Germany \*smarr@ipb-halle.de

#### Abstract

The impact of plant species diversity on productivity in plant communities has already been shown for multiple ecosystems. Secondary metabolites and how they shape the interaction within these plant networks, on the other hand, are increasingly becoming an important part of ecological studies. However, the level and extent to which these interactions occur are not well understood yet. In this study, we investigated the LC-MS profiles of thirteen grassland species grown in diverse communities across the growing season within the Jena experiment. We found a unique metabolite composition for all species in this study, shaping a species-specific fingerprint across the year and environmental dynamics. The specific part of the metabolite profiles actively responding to environmental pressures was found to directly correlate with plant species richness and composition in some of the species. These dynamic defence profiles generally showed similar changes in closely related plant species.

#### Introduction

Species loss in natural ecosystems has increased the motivation for studies investigating the relationships between plant diversity on the productivity of ecosystems (Rasmann & Turlings, 2016). Beneficial effects of biodiversity are reported throughout the literature (Lorentzen et al. 2008, Marquard et al. 2009), such as increased plant performance, resource management and overall resilience, and plants' extreme capability to adapt rapidly to changing environmental conditions. As pointed out by Scherling et al. (2010), biodiversity can trigger a multitude of effects on the performance of plant species or species communities. For example, in monocultures, plants would have to invest many resources in the same specific and precise defence strategies to tackle biotic and abiotic pressures, while diverse plant communities can benefit from shared defence mechanisms among the different species without having them present in all plants simultaneously. Representing the direct link between genotype, and phenotype (Fiehn 2002, Weston et al. 2015, Fang et al. 2019), including central (primary) and specialised (secondary) metabolism, metabolites serve as the reflection of the chemical response of plants to environmental changes (Fiehn 2002, Weston et al. 2015). Especially the interplay of secondary metabolites with ecological traits (Walker et al. 2022), in combination with proteomics and transcriptomics, are the focus of studying complex plant-plant and plant-herbivore interactions within their environment (Weston et al. 2015) and evolutionary concepts (Fang et al. 2019). As pointed out by Gargallo-Garriga et al. (2020), metabolomic variation can be driven by herbivores, as plants have to balance between primary (growth, reproduction) and secondary metabolism (defence, communication). When studying stress coping strategies, including biotic and abiotic interactions with environmental changes, metabolites are a valuable addition to traditional ecological traits as they reflect environmental conditions in their richness and composition throughout the plant kingdom (Scherling et al. 2010, Berini et al. 2018, Fang et al. 2019). Responses in plant metabolite profiles, as response to changing diversity in plant communities, can give insights into the underlying mechanisms that shape the herbivory pressure in those communities Ristok et al. (2022). For example, identifying species-specific profiles could narrow the number of metabolites relevant to defence and stresscoping strategies. For example, previous studies already showed the importance of specialised secondary metabolites in plant-insect interactions (Tikunov et al. 2005), leading to the assumption that some metabolites serve a specialised purpose in multiple plant species (Fiehn 2002, Weston et al. 2012, Quinn et al. 2014, Sardans et al. 2020), i.e. an active involvement in plant-plant and plant-herbivore interactions. However, most secondary metabolites' functions remain unexplained and only little understood (Fiehn 2002, Fang et al. 2019). Moreover,

previous studies showed that many metabolites are species specific (Weston et al. 2012, Quinn et al. 2014). Leading to the assumption that some parts of the metabolite profiles will be conserved and inherent to specific plant families. In order to investigate the function of specific metabolites, we first need to understand the interplay of the metabolomic profiles with biotic and abiotic environmental changes. This can also enable the research to understand the role of compounds as responses to these pressures (Berini et al. 2018).

Especially plant-plant interactions can influence the plant metabolome in specific ways, for example, volatiles (Tikunov et al. 2005) and other allelopathic compounds (Fernandez et al. 2016), which reflect both short and long-term defence mechanisms in plant species. Some studies are already investigating plant biodiversity effects on metabolomic profiles and physiological responses of plants (Scherling et al. 2010). A positive influence of phytochemical diversity on plant species richness and composition has also been reported in the literature (Richards et al 2015). Changes to the metabolomic profile is also associated with changing visible traits, especially along the developmental gradient. Along with the developmental stage, plant height per se can influence the metabolite profiles, for instance, due to the availability of light, and thereby imposed stress levels (Scherling et al. 2010). As discussed by Walker et al. (2022), the responses to environmental dynamics can be measured in the richness and composition of secondary metabolites (Fang et al. 2019), as the metabolite abundance is driven by abiotic (Sardans et al. 2020) and biotic pressures (Weston et al. 2015, Ristok et al. 2022). Previous studies already showed that certain biotic and abiotic stress factors, e.g. temperature (Yang et al. 2018), change specific metabolites in terms of richness and abundance, which leads to the assumption that the same stress will cause the same groups of metabolites to respond within similar plant species. For some of the secondary metabolites, such as phenolic compounds, alkaloids, and terpenoids, studies have already shown that their production is increased in different plant species in response to herbivory pressure (Fang et al. 2019). This study investigates the metabolite profiles of thirteen grassland plant species belonging to either functional group (FG) herb or grass. Thereby, functional groups are assembled with plant species that share similar characteristics, such as growth form and reproduction strategies.

Furthermore, in this study, we try to show the variation in metabolite profiles based on physiological traits and developmental stages and on the changes under the influences of seasonal dynamics (i.e. abiotic factors, such as light, water, nutrient availability and biotic factors, such as herbivory pressure), especially those triggered by neighbourhood richness and species composition. As metabolomic profiles represent both the developmental stage of a plant optimising performance across seasonal dynamics and at the same time investing in defence strategies to minimise stress caused by biotic and abiotic factors, we expect that these two strategies are also visible in the metabolomic profile. Across the season, environmental factors change dramatically, including temperature, water and light availability and nutrient demand depending on the plant species that grow within the community (Scherling et al. 2010). The variation in these biotic and abiotic factors will be reflected in the metabolomic fingerprints of the plant species by increased production of defence compounds (Weston et al. 2013, Berini et al. 2018). Analysing environmental changes across the growing season can help to capture the specific changes in metabolomic profiles that reflect a stress response within the plant species. Ristok et al. (2022) showed in their study that collecting samples from the same environments in different seasons can greatly influence the metabolomic profiles in terms of richness and composition. However, in contrast to visible traits that can be monitored over time (Flynn et al. 2008), metabolomic profiles only represent snapshots of a specific metabolomic profile at the time of sampling, affecting the ability to draw general conclusions from responses to the environment (Weston et al. 2015). What remains unknown is how the whole metabolomic profile is changing for different species under the same conditions, here across the season, especially across the changing neighbourhood that is changing across the growing season. Therefore, we sampled multiple times in this study to capture the variation in metabolite profiles across the growing season.

Plant species have highly specialised defence mechanisms in place that result in the production of specific metabolites. Assuming that in plant communities with balanced species diversity environmental pressures are significantly lower than in uneven neighbourhoods, and thereby, the production of defence compounds are not required in the same amount. Therefore, in plant species communities with lower or uneven diversity we expect to find more specialised metabolites, while the protective diversity shield will result in balanced metabolomic profiles. Having said that, our three main questions, in this study, are 1) plant species richness and 2) plant species diversity of the plant community reflected in the metabolite profiles, and 3) do we find similarities in species of the same functional group.

#### Methods

#### **Plant Material Collection**

Experimental Design. In this study, we used thirteen grassland plant species as target species that belong to the functional groups (FG) grass and herb. The seven FG grass species belonged to the family Poaceae (Anthoxanthum odoratum L., Avenula pubescens (Huds.) Dumort. (according to http://www.theplantlist.org/, now listed as Helictotrichon pubescens (Huds.) Schult. & Schult.f.), Dactylis glomerata L., Festuca rubra L., Holcus lanatus L., Phleum pratense L., Poa pratensis L.). The FG herb included five genera: Asteraceae (Centaurea jacea L., Leucanthemum vulgare (Vaill.) Lam.), Caprifoliaceae (Knautia arvensis (L.) Coult.), Geraniaceae (Geranium pratense L.), Plantaginaceae (Plantago lanceolata L.), and Ranunculaceae (Ranunculus acris L.). The plant samples were collected in the Jena Experiment (Roscher et al. 2004) from plots in the Trait-Based Experiment (Ebeling et al. 2014). We chose 48 plots (3.5 m x 3.5 m), initially planted in 2010 as Pool 1 and Pool 2 (Supple Figure 1), with different plant species compositions (compare Ebeling et al. 2014). Each species was collected from four plots with different initial compositions. The plots were designed with the initial composition of diversity levels (DL) with either one (DL1), two (DL2), four (DL4) or eight (DL8) different species (Figure SP2 (new01)). Phleum pratense, Leucanthemum vulgare, and Plantago lanceolata were collected in additional four plots, resulting in eight plots for each species (Supple Table 1). Note that the plots in the Trait-Based-Experiment are semi-maintained, with two cutting events per growing season. Two specimens of each target species were collected as one replicate, with a total of two replicates in each plot on four occasions (season) across the growing season 2018 (for further details, see also Marr et al. 2021). Due to the design of the Trait-Based Experiment, some plots were used to collect multiple target species. The seasons (S) were chosen as snapshots representing late spring (E; May 2018), early summer (F; June 2018), late summer (G; July 2018) and early autumn (H; August 2018), respectively.

Recording Plant Diversity. Plot-specific factors were recorded prior to each sampling. We recorded the current number of species (richness) for each plot in each season (spring, early and late summer, and autumn). We estimated the abundance of each species as relative coverage in relation to the plot size. For the abundance estimation, we applied a decimal scale modified after the Londo scale using the following scheme: coverage (c) <= 1% equals ( $\rightarrow$ ) scale value (sv) 1, c >1% to  $<= 3\% \rightarrow$  sv 2, c >2% to  $<=5\% \rightarrow$  sv 4, >5% to  $<=15\% \rightarrow$  sv 10, >15% to  $<= 25\% \rightarrow$  sv 20, >25% to  $<= 35\% \rightarrow$  sv 30, et cetera, > 95%  $\rightarrow$  sv 100. Note that the whole coverage of each species was taken into account. Hence, also values above sv 100 were occasionally recorded. These values were used to calculate the Shannon index per plot (species Shannon). The index uses the number of species and their abundances, denoting an individual's probability of belonging to the respective species (Izsàk & Papp 2000). A higher value of this index will indicate a higher diversity, whereas a 0 would imply that only one species is present in the plot. Note that this resulted in replicates of the same plot having the same richness and Shannon indices. Measurements and calculations can be found in Supple Table 1.

*Recording Plant Traits (Plant individual factors) and sampling.* Plant individual factors were recorded for each collected replicate separately. For each replicate, we measured the height of both plant individuals and recorded the higher value. Following the BBCH scale by Hess et al. (1997), the developmental stage was recorded for the further developed plant individual. However, only those two plants were combined into one replicate, showing both an equal BBCH and similar height. The mechanical and pathogen-inflicted damage was collectively estimated in relation to the biomass of both individuals (for details, see Marr et al. 2021).

In this study, we collected two individual plants with similar developmental stages as one combined replicate. Leaf tissues of each plant were cut, collected in plastic vials, immediately snap-frozen, and stored on dry ice. The samples were collected within one day between midday and sunset for each season (2018\_E, 2018\_F, 2018\_G, 2018\_H) to keep possible time-related shifts in the metabolome to a minimum. Each replicate was assigned a random lab-ID as described by Marr et al. (2021). Therefore, a number between 1 and 128 per season was drawn randomly. These lab-IDs then determined the sequence of the following analysis.

#### Liquid-Chromatography-Mass-spectrometry (LC-MS)

Sample Extraction. This study based the extraction process on the workflow described by Marr et al. (2021). Modifications to this method are stated where applicable. Frozen leaf material was ground (20 mL plastic Vials; 2 x 7 mm steel beads) at -75 °C for 150 seconds (5 x cycles: 30 s grinding, 30 s pausing) using the automated Labman IPB Cryogrinder Ball Mill (Labman Automation, UK). Zircosil beads (1.2 - 1.7 mm) and 500  $\mu$ L extraction solvent (Methanol/Water (80/20 v/v) were added to 100 mg aliquots (± 50 mg) of the ground frozen samples in 2 mL Extraction-Tubes, while kept on liquid nitrogen. Samples were thawed for 3 minutes and then extracted in a Homogenizer (Precellys<sup>®</sup> 24 Tissue Homogenizer, Bertin Technologies, USA) for 90 seconds (2 x cycles: 45 s run,

15 s pausing) at 6500 rpm. Samples were then centrifugated at 16168 x g for 15 minutes, and the supernatants were collected in a new 2 mL Extraction-Tube. In contrast to the method used by Marr et al. (2021), after an additional extraction of the remaining pellet, the combined supernatants were evaporated to dryness and then redissolved in a weight-specific five times surplus of the extraction solvent. Prior to the LC-MS measurements, we mixed aliquotes of 160µL pr sample with 40 µL of Water/Formic acid (99.9/0.1 v/v) with added internal standard N-alkyl pyridinium-3-sulfonate (NAPS) (1/100 v/v). The extracts were stored at -20 °C for at least 24 hours before supernatants were centrifugated at 16168 x g for 15 minutes and transferred to HPLC-Vials (Glasinlet, 300 µl). Note that two samples (2018\_E\_POAPRA\_B075\_b and 2018\_F\_ANTODO\_A018\_a) had to be excluded from further measurements as the amount of collected biomass was too little for the extraction.

Quality Control (QC) and Species Pools. In this study, we used fieldBlanks that underwent the entire process of sampling and transportation, including the grinding preparation in the ball mill. Furthermore, We used blank samples throughout the extraction process to keep track of possible contaminations during this process. Using a 10  $\mu$ L aliquot of each sample per species, we created a pooled sample for each of the thirteen species (MSMS species pool). Aliquots of these pools were then further combined into functional-group-specific (FG) pools QC\_herb and QC\_grass, combining all herb and grass species. We prepared the QC\_pool by combining aliquots of the two FG specific pools.

LC-MS Measurements. Liquid-Chromatography-Mass-Spectrometry measurements were conducted following the methods proposed by Marr et al. (2021). The analysis was performed on an ACQUITY UPLC (Waters Corporation, Milford, USA) coupled to ESI-micrOToF-Q-II (Bruker Daltonics, Bremen, Germany). Aliquots of 2 µL per sample were separated at 40 °C on an HSS T3 C18 column (1.8 μm, 1.0 x 100 mm, RP, Waters Corporation). The binary elution gradient at 0.15 mL min-1 flow rate was increased linearly: Solvent A (water/formic acid 99.9/0.1 v/v)/Solvent B (acetonitrile/formic acid 99.9/0.1 v/v); initial: A 95%, 3 minutes A 82.7 %,10 minutes A 76 %, 17 minutes A 5 %, 18 minutes A 5 %, 18.1 minutes A 95 %, 20 minutes A 95%. In contrast to the methods used by Marr et al. (2021), features were measured in positive ion mode using internal calibration (sodium formate clusters, 10 mM sodium hydroxide in isopropanol/water/formic acid, 49.9/ 49.9/0.2 (v/v/v), at 18 min) and following instrument settings: nebuliser gas: nitrogen; nebuliser: 1.6 bar; dry gas: nitrogen; dry gas temperature: 190 °C; dry gas flow: 6 L min-1; spectra rate: 3 Spec sec-1 (Hz); in-source CID energy: 0 eV; hexapole RF: 120 Vpp; collision gas: nitrogen; pre pulse storage 7 µs; MSMS collision 100/100 (timing 50/50); capillary voltage 4500 V; scan from 50 to 1600 m/z; endplate 1072 nA; endplate offset: -500 V; Funnel 1 RF: 200 Vpp; Funnel 2 RF: 220 Vpp; quadrupole ion energy 4 eV; collision energy 10 eV; collision RF 160/350 Vpp (timing 70/30); transfer time 90 µs. The measurement of each batch was initiated by a run in sequence using three runs of acetonitrile, one run of a blank, QC\_grass, and QC\_herb, followed by three runs of the QC\_pool to equilibrate the column. Within a batch, we randomised the run order of the samples and measured the QC pool after each 11th sample again. The measurement of each batch was finalised with one run of QC\_pool, QC\_herb, QC\_grass, and blank. All samples were measured in 12 batches, splitting them by their assigned lab-IDs after each 11th sample per season. Therefore, batch "pos01", for example, included the samples 001 to 011 of 2018\_E, 2018\_F, 2018\_G, and 2018\_H, and "pos02" samples 12 to 22 of 2018\_E, 2018\_F, 2018\_G, and 2018\_H, et cetera. The thirteen MSMS species pools were measured in a separate batch using the following changed or additional parameters: endplate 1122 nA, number of precursors 3, mass tolerance 0.20 m/z, CID energy for MS/MS 5.0 eV, collision energy for MS/MS 70.0 eV.

#### LC-MS raw data preparation

Pre-processing. We converted the obtained Bruker files to the open data format '.mzML' using CompassXport (Bruker, version 3.0.9, http://www.bruker.com). The raw LC-MS data were pre-processed in Galaxy-W4M (based on XCMS 3.0) using the workflow provided by Marr et al. 2021: https://doi.workflow4metabolomics.org/W4M00008. The tool versions and parameters used to analyse this study's data set are listed in Suppl. Table 2. Peaks in the raw spectra are detected and grouped. In the second step, the peaks are corrected for retention time shifts. After a second grouping, isotopes and adducts are annotated using the CAMERA tool (Kuhl et al. 2012). The region of interest was filtered to 80 and 880 seconds.

Validity Check. To ensure the quality of the data, we applied different validity checks on both the LC-MS features and the samples. Following the example by Marr et al. (2021), in this study, we used batch correction to remove equipment-related variation from the measured intensities of each feature. These signal drifts are likely introduced to the mass spectrometer over time and cause slight changes in the measured intensities. To correct for signal drops within and across batches, we used the multiple measurements of the QC\_pool sample, assuming that ideally, the measured intensities for each feature within this sample would rather be the same.

We calculated and subtracted the variation between the QC\_pool measurements from all features. To ensure the quality of each feature and that they were not contaminations but derived from a biological sample, we removed all features detected in the blanks and excluded them from further analyses. In this study, we tested the metabolomic fingerprints of each sample for their similarity to the fingerprints of their species to ensure that the collected plant samples were not contaminated. Applying the proposed method by Marr et al. (2021), we calculated Mahalanobis distances for the samples within each species. We used these distances to flag outliers with a distance three times the average distance to the respective species. These samples were then tested for the number of features that they shared with the species. Flagged samples that shared less than 25% of their features with their species were excluded from further analysis. Resulting in 6 samples being excluded from further analysis (*Anthoxanthum odoratum*: 2018\_F\_ANTODO\_A044\_a, 2018\_H\_ANTODO\_A018\_a; *Phleum pratensis*: 2018\_F\_PHLPRA\_B073\_a, 2018\_G\_PHLPRA\_B073\_a; *Poa pratensis*: 2018\_F\_POAPRA\_B073\_b; *Ranunculus acris*: 2018\_G\_RANACR\_A018\_b). The complete code used for the data validation is available in the MetaboLights repository MTBLS1224 as "SciData\_ProcessingTutorial\_Rscript.R".

#### Feature diversity and selection

*Feature indices.* We used the R package *vegan* (version 2.5-7, Oksanen et al. 2013) to calculate the feature diversity indices richness (fRich), Shannon (fShan), and Evenness (fEven) for each sample (504 samples used for this analysis). The feature richness was calculated by counting the number of features with measured intensities. The feature Shannon diversity was calculated based on the Shannon index (Shannon 1948) using the feature identity as species and the measured intensity as abundance. We used the richness and the Shannon index to calculate the feature Evenness. This index accounts for the abundance of features – ranging from 0 to 1, with 1 accounting for the equal abundance of all detected features within a sample. Therefore, a low Evenness accounts for only a few highly abundant features with an increased number of low-intensity features.

*Feature selection.* Variance partitioning Prior to the feature selection, we used variance partitioning to identify the experimental factors that explain most of the variance in the feature's intensities. To calculate the variance partitioning with the *AnDec* function of the *StatTools* package (version 0.0.916, Brunius 2022), we used the prepared data matrix, filled missing values with small random numbers and log-transformed the matrix (compare Missing Data Imputation in Marr et al. 2021).

PLS pre-selection In this study, we used partial least square (PLS) models with the *pls* package (version 2.7-3, Mevik 2020) used by the *caret* package (version 6.0-88, Kuhn 2015) to select relevant features within each species. The PLS was performed for each species separately for the factors: species richness, species Shannon (Shan\_total), plant height, plant BBCH, and mechanical- and pathogen-inflicted damage. The selected features were assigned a putative metabolite family ID (pMetFam\_ID) that encodes the level of identification (Table 2, Suppl. Table 3).

*Feature annotation.* To putatively annotate the measured compound families, we used the MetFamily web service (Treutler et al. 2016). To use the MetFamily web service, we converted the raw LC-MS/MS data of QC\_pool and the MSMS species pools using the ABF converter (AbfConverter\_1.3.7815, Reifycs Inc.) for Bruker files (CompassXtract\_3.2.201\_64\_bit, Bruker Corporation). We pre-processed them with MS-Dial (MSDIAL ver 4.70, Tsugawa et al. 2015). The parameter used for the processing were set as follows: MS1 tolerance 0.01 Da, MS2 tolerance 0.05 Da, retention time 1 to 15 min, MS1 mass range 100 - 1500 Da, min peak height 2000 amplitude, mass slice width 0.05 Da, min peak width 4 scans, including all adduct species suggested by MetFamily. We used the libraries linked to MetFamily: Leibniz\_positive\_mode\_20170801\_2021-09-02, lib\_spectra\_pos\_new\_2021-09-02, MoNA-export-LC-MS-MS\_Spectra\_2021-09-02, MSMS-GNPS-Curated-Pos\_2021-09-02, and MSMS-Respect-Curated-Pos\_2021-09-02 (Suppl. Table 3). We only used these features for the annotation that statistically showed reliability (p<=0.05). We used the annotations provided by MetFamily to annotate the selected features (see Feature selection).

#### **Linear Model Calculation**

For calculating linear models, we used the recorded plant species richness (pRich) and plant Shannon diversity (pShan) as predictor variables (preV). The metabolic fingerprint richness and composition indices (fRich, fShan, fEven) were used as response variables (resV). Linear models were calculated for each species, including all samples per species across all four seasons. Models calculated across all species included all 504 samples (all). We calculated the models as simple linear regression with one preV as fixed effect per resV, resulting in 84

models (Suppl. Table 4). To compare the linear models and evaluate their reliability and predictive power, we calculated the coefficient of determination (R<sup>2</sup>), the root-mean-square error (RMSE), confidence intervals (CI) and p-values as reference. The models were calculated with the *stats package* (R version 4.1.1 2021-08-10, R Core Team 2013) as used by the *caret* package (version 6.0-88, Kuhn 2015). Additionally, we calculated the p-values with the package *ImerTest* (version 3.1-3, Kuznetsova et al. 2017). All R packages and version information are available in Suppl Table 6.

#### Results

Environmental traits on plot level In this study, we focussed on the dynamics in metabolite fingerprints of grassland plant species as a response to changing plant neighbourhoods across seasonal shifts. We compared the species richness designed for the TBE plots with the recorded richness (pRich) in the plots prior to sampling (Figure 01). We found that the species diversity in the plots did not represent the initially planted biodiversity (Suppl Table 4). In general, species richness ranged from 5 to 27, with an average of 13 (Supple Table 4, Figure 01). In plots with the target species belonging to FG grass, pRich ranged from 5 to 24, and in plots with target species FG herb, from 5 to 27. On average, observed species richness ranged from 13 (DL2 and DL4) to 14 (DL1 and DL8) across the year. We recorded 15 (Block A), 13 (Block B) and 12 (Block C) species on average across the seasons in the TBE plots we sampled our target species in (Supple Figure 1). We also found the most differences in plant species richness across the season and not across the plots. As averages per season, we recorded 16 to 18 species for spring, 7 to 11 species in early summer, 12 to 15 species in late summer and 14 to 15 species on average in autumn (Figure 1). We recorded the plant species Shannon index (pShan) of the surrounding plant community for each target plant. In this study, pShan ranged from 0.43 to 2.64 for FG grass plots, with an average of 1.88 and from 0.77 to 2.59, with an average of 2 in FG herb plots. Across the season, the Shannon diversity (pShan) followed the pattern as the species richness within the Blocks of the TBE. In Block A, the Shannon diversity was recorded with an average of 1.93, in Block B with 1.89 and in C with 1.73. In each Block, we found pShan to be the lowest in early summer (season code F), followed by late summer (season code G). The highest pShan values were recorded in autumn (season code H) and spring (season code E). Across all Blocks, pShan for seasons, in general, was found to be 2.06 in spring (E), 1.58 in early summer (F), 1.81 in late summer (G) and 2.03 in autumn (H). We use the recorded plant species exclusively for linear models and observation interpretation to investigate the relationship between plant species richness and diversity in different neighbourhoods on the metabolomic fingerprint of the thirteen different species. Because we found the species richness to be dependent on the season we sampled in, we treated each sample as independent replicated and independent of the plot designed diversity, plot location in the TBE and season.

Environmental Traits on plant level In order to investigate the dynamics in the plant metabolite profiles, we also recorded environmental traits on the plant level. We measured height, recorded the developmental stage (according to the BBCH scale by Hess et al. 1997) and estimated mechanical- and pathogen-inflicted damage on each plant. Measurements for each sample are available in Suppl. Table 4. In our study, we recorded heights from 6.9 cm to 102.1 cm with an average of 29.9 cm (Table 1). The general average across all seasons was found to be 31.7cm in FG grass species and 27.8 in FG herb. In FG grass, the plant heights ranged from 57.9 to 102 cm, in spring, from 10.0 to 23 cm, in early summer, from 9.1 to 35.5 cm in late summer and from 9.6 to 21.5 cm in autumn. For FG herb, the individual plant heights were recorded from 23.5 to 76.3 cm in E, 8.5 to 38.8 cm in F, 11 to 38 cm in G and 6.9 to 25.3 cm in H. The collected samples' plant developmental stages (BBCH scale) ranged from 30 to 85 in FG grass and 25 to 85 in FG herb (Table 1). In this study, we found the highest mechanical damage on leaves and stems averaged across Plantago lanceolata samples (15.3 %). Species of FG grass showed an average damage of 3.2 %, while the species in FG herb were recorded with 4.6 % on average. Across the seasons, we found the lowest mechanical damage for FG grass in E (0.4%), followed by F (4.1%), G (4.0%) and H (4.1%). While in FG herb, the lowest mechanical damage was found in G (3.6%), followed by E (3.8%), F (4.9%) and H (6.0%). Pathogen-inflicted damage, including signs of senescence, was found with up to 22.5% (Table 1). In FG grass species, the lowest average pathogen damage was recorded in H (7.7%), followed by E (10.4%), F (15%) and G (18.4%). In the species of FG herb, we recorded the lowest damage in F (8.7%) and H (9.8%), with higher rates in E (12.6%) and G (13.8%).

*Metabolite richness and composition* In this study, we measured the metabolite richness as feature richness (fRich), i.e. the number of recorded metabolite fragments and the metabolite composition, by taking the abundance of each feature into account, as Shannon diversity index of features (fShan) and feature Evenness (fEven). Across all species and seasons, we found fRich to range from 321 to 642 in FG grass species and from 452 to 800 in FG herb species (Suppl Table 4). On average, we found in *Festuca rubra* (347) and *Poa pratensis* (360) the lowest fRich across the seasons, while *Anthoxanthum odoratum* (579) and *Avenula pubescens* (532)

had the highest fRich in FG grass (Table 1a). In FG herb, we found the lowest fRich in Ranunculus acris (465) and Geranium pratensis (484) and the highest in Knautia arvensis (728) and Plantago lanceolata (738) on average (Table 1b). FG grass samples collected in autumn (H) and spring (E) showed the lowest fRich, while FG herb species showed the lowest when collected in autumn and early summer. Furthermore, when collected in late summer, most FG herb species showed the highest fRich on average. We found fRich to be highest on average across all seasons in the plots of Block A, followed by B and C (Suppl Table 4). fShan ranged from 0.11 to 5.52 in FG grass and 0.69 to 5.89 in FG herb (Suppl Table 4). On average for FG grass species, fShan was lowest in Poa pratensis (1) and Festuca rubra (1) and highest in Anthoxanthum odoratum (4) and Avenula pubescens (5) (Table 1 a). In FG herb, fShan was found to be lowest in Ranunculus acris (1) and similarly high in Leucanthemum vulgare (5), Knautia arvensis (5), Geranium pratensis (5), Centaurea jacea (5) and Plantago lanceolata (6) (Tabel 1b). Across the seasons, fShan was found to follow the same trend in FG grass species, with low values on average in spring (E), and high values in late summer (G) and autumn (H). For species of FG herb, we found the lowest fShan values for most species in early summer (F) and autumn (H), while in late summer (G), higher values were recorded (Table 1 b). Generally, slightly higher fShan values were measured in plants collected in Block C, compared to plots in Blocks A and B (Supple Table 4). Across the seasons and species, we found fEven to range from 0.02 to 0.87 in FG grass and from 0.11 to 0.88 (Suppl Table 4). In FG grass species, Festuca rubra (0.10) and Poa pratensis (0.13) were found to have the lowest fEven values. In contrast, Anthoxanthum odoratum (0.60) and Avenula pubescens (0.78) had the highest values on average (Table 1 a). However, only Ranunculus acris (0.20) in FG herb showed comparably low values. In contrast, Leucanthemum vulgare (0.80), Knautia arvensis (0.80), Geranium pratensis (0.80), Centaurea jacea (0.80) and Plantago lanceolata (0.83) all showed a similar fEven value (Table 1 b). However, the change in Evenness was only minor across the seasons within the FGs. For both FG, we found the general trend in fEven with low values in spring (E), followed by early summer (F) and high values in late summer (G) and autumn (H) (Suppl Table 4), across the blocks of the TBE. The fEven values were found to be similar, with samples collected from Block C having a slightly higher fEven across the seasons (Supple Table 4).

*Metabolite profiles dynamics* We accessed the impact of the plot (season, plot diversity as either desDiv or pRich and pShan) and plant level traits (height, BBCH, mechDam, pathDam) on the metabolite profile dynamics via variance partitioning Figure 2). When calculated across all samples using the designed plot diversity of the TBE, we found that about 66% of the dynamics of the fingerprint were explained by species identity (65%) and plot level factors (1%). Plant-level traits added about 8%, leaving 25% as unexplained residuals (Figure 2 a). However, when using pRich and pShan in the calculation rather than the designed diversity, 80% are explained by species identity (65%) and plot level traits (15%), with 5% added through plant level traits and 15% residuals (Figure 2 c). When focusing on the plant identity and calculating the variance partitioning per species, we found that, on average, about 33% of the profile dynamics are explained by plot level traits (Figure 2 b) when using designed diversity as a plot trait. Plant level traits were found to account for an additional 51%, resulting in 15% unexplained residuals. On the contrary, when taking pRich and pShan into account as plot level traits, 62% of the dynamics of the profiles could be explained on average. In comparison, plant level traits were found to account fan or an additional 29% of the variation of the metabolomic fingerprint, with only 9% remaining residuals (Figure 2 d).

Metabolite family annotation In this study, we used the measured LC-MS features to putatively annotate metabolite families (pMetFam) found in the thirteen target plant species (Figure 03, Table 2, Suppl. Table 3a and 3b). We used PLS models for pre-selecting features that showed significant relevance for plot or plant level traits in at least one species. The selection was performed with a threshold, so not being selected does not mean that the feature is not relevant in the species, but it means that for the tested factors, it was not selected with a high enough variable importance. In total, we were able to annotate 305 compounds within 8 metabolite families (Table 2). We putatively annotated compounds in the metabolite families Organic nitrogen compounds (pMetFam01), Organopnictogen compounds (pMetFam02), Benzenoids (pMetFam03), Organic acids and derivatives (pMetFam04), Lipids and lipid-like molecules (pMetFam05), Organoheterocyclic compounds (pMetFam06), Organic oxygen compounds (pMetFam07), and Phenylpropanoids and polyketides (pMetFam08). For example, for pMetFam 05, we found reliable annotations to the fourth and for Benzenoids (pMetFam 03) to the third level. The features for compound family pMetFam\_02 were only annotated on the first level (Figure 03, Table 2, Suppl. Table 3a). A detailed list of features, their specifications (retention time, exact mass, etc.), and annotations are available in Supple. Table 3a. For each selected feature, we counted the number of samples (QCs and species pools not included) that had a measurement, even though the feature was only selected as relevant in one species-trait combination (feature count). For example, 20 selected features were annotated as Coumaric acid esters (pMetFam\_08-F2.2a), adding up to a total count of 1703 (Table 2). The measured intensities for the selected feature are available in Supple. Table 3b. The lowest count was found for pMetFam01 (114), with only

two features annotated within this metabolite family (Figure 3). In pMetFam02, pMetFam03, pMetFam04 and pMetFam05 were also annotated for less than 10 features each. The highest count was found in pMetFam08 (11797) for 118 annotated features, followed by pMetFam07 and pMetFam06 with a count of 3411 in 37 features and 2034 in 23 features, respectively. When looking at the species, we found the most selected and annotated features in samples of PA (3813) for FG grass and KA (2712) for FG herb. In the herb species RA (513) and grass species HL (710), and AO (843), we found the lowest feature counts. The FG herb species PL (1283) and CJ (1839) had also a smaller feature count. The species AP (2138), PP (2505), DG (2617), and FR (3049) in FG grass and GP (2409) and LV (2459) in FG herb shared a relatively equal feature count.

Linear correlations of plot and feature traits To further investigate the relationship of plot traits with the dynamics in the metabolomic fingerprints, we used simple linear models with one feature trait as the response variable (resV) and one plot level trait as the predictor variable (preV). Models were calculated for each species separately and as a full model across all 504 samples using fRich as a response to pRich or pShan, fShan as the response to pRich or pShan and fEven as a response to pRich and pShan (Table 3, Figure 4). A detailed list of all model results is available in Suppl. Table 5. All linear models calculated across all thirteen species (504 samples) were found to be negatively correlated, with R<sup>2</sup> ranging only from 0.25 to 0.28 (Table 3). For the linear models that used pRich as the predictor variable, p values were found as slightly significant (0.03 to 0.05), while the models using pShan only had p values > 0.1. For the linear models using pRich as preV and fRich as resV, we found in FG grass species PP ( $R^2 = 0.19$ ; p = 0.82) and FR ( $R^2 = 0.46$ ; p = 0.63) to be positively correlated (Figure 4 a). Only HL and PA generally showed higher R<sup>2</sup> values, with 0.64 and 0.65, respectively. Significant p values were only found for AO (p = 0.03) and HL (p = 0.01; Table 3). For species of FG herb, we found three species with a positive and three with a negative correlation. Only CJ was found to have a slightly higher  $R^2$  value at 0.57 (p = 0.15). Significant p values were only found for LV (0.01) and PL (0.01) but with low R<sup>2</sup> values between 0.22 and 0.23 (Table 3). We only found FR positively correlated for models with resV fShan and preV pRich ( $R^2 = 0.74$ , p =0.02). PA showed a higher R<sup>2</sup> value (0.79). Most species of FG herb showed a positive correlation, while only PL  $(R^2 = 0.25, p = 0.08)$  and GP  $(R^2 = 0.48, p = 0.26)$  were negatively correlated. Here, only CJ was found with a higher R<sup>2</sup> value of 0.69 (p = 0.11). Furthermore, the models using preV pRich and resV fEven were found with a positive correlation in FR ( $R^2 = 0.75$ , p = 0.02) of FG grass, and LV ( $R^2 = 0.28$ , p = 0.02), KA ( $R^2 = 0.42$ , p = 0.58), CJ ( $R^2 = 0.42$ , p = 0.58), CJ ( $R^2 = 0.42$ , P = 0.58), CJ ( $R^2 = 0.42$ ,  $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ,  $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ,  $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ,  $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.42$ ), P = 0.58), CJ ( $R^2 = 0.58$ ), P = 0.58), CJ ( $R^2 = 0.58$ ), P = 0.58), P = 0.5 0.46, p = 0.24) and RA ( $R^2$  = 0.56, p = 0.24) for FG herb. The highest  $R^2$  values were found for FR and PA ( $R^2$  = 0.78, p = 0.17). Linear models calculated with pShan as preV and fRich as resV were found to be negatively correlated in all species of FG grass, but PP ( $R^2 = 0.16$ , p = 1). The highest  $R^2$  was found for HL at 0.51 (p = 0.02) and DG at 0.52 (p = 0.02). In FG herb, the two species RA ( $R^2 = 0.52$ , p = 0.2) and CJ ( $R^2 = 0.55$ , p = 0.3) were found with a positive correlation of the factors. The highest  $R^2$  was found for KA ( $R^2 = 0.56$ ). Models that used fShan as resV and pShan as preV were negatively correlated in all FG grass species, with R<sup>2</sup> ranging from 0.22 to 0.68. In FG herb, the only models for RA ( $R^2 = 0.43$ , p = 0.69) and CJ (p = 0.23) showed a positive correlation for the factors. The highest R<sup>2</sup> was found in CJ with 0.64. For the models using fEven as resV and pShan as preV, all FG grass species were also found with a negative correlation and R<sup>2</sup> values ranging from 0.21 to 0.68. The highest R<sup>2</sup> values were found for AP (0.62) and DG (0.68) models. Moreover, we found three species of FG herb with positive and three with negative correlations. The highest  $R^2$  value, here, was found in GP (0.68, p = 0.05).

#### Discussion

In this study, our three main questions focused on 1) how plant species richness (pRich) and 2) species diversity (pShan) are reflected in metabolomic profiles of thirteen grassland plant species in terms of richness (fRich) and composition (fShan), and evenness (fEven) of their LC-MS measured features, and 3) if we can find similarities in these profiles changes in species belonging to the same functional groups (FG). Although the TBE, as part of the Jena Experiment, provided plots with different levels of plant species diversity, composed of different species pools that included 4 grass and 4 herb species each, the underlying concept was unsuitable for our study. As sampling had to take place multiple times throughout the year and, therefore, could not be timed according to the maintenance procedures happening twice a year in these plots, the plant species composition across the full growing season that we focussed on for our metabolite analysis was not effectively reflected by the plant community present in the plots. Therefore, we separately recorded plant species richness (pRich) and diversity (pShan) for each plot on each sampling occasion.

Previous studies were able to show that seasonal dynamics directly (temperature, water and light availability) and indirectly (plant-plant and plant-herbivore) influence the production of metabolites and, in the dynamic defence profile (Weston et al. 2013], Berini et al. 2018). In this study, we define the term "season" as the interplay of weather dynamics (light, water, nutrient availability), growth and reproduction cycles of plants, and semi-maintenance occurring twice within the growing season. In our study, the snapshots of the metabolomic profiles

across the year do not comprehensively reflect the dynamics within the profiles but rather give an idea of the overall picture. Moreover, the semi-maintenance, i.e. mowing and weeding, in all TBE plots, included increased mechanical damage to the plants and general disturbance to the plot and soil structure. Depending on the set species composition in each plot, weeding was accomplished by taking out the majority of plants, leaving only a few individuals of the sown species in the plot with large patches of cleared bare ground. In contrast, in other plots, mainly grass species plots, only a few weed plants were removed, leaving those plots nearly undisturbed. Since we assume that all those external changes also directly influence the metabolite profiles by increasing stress and, thereby, triggering an increased production of defence compounds, analysing the thirteen target species in a single correlation model would have prevented us from drawing reliable conclusions. As shown in the results, integrating all species into a single correlation model would overshadow the correlations in single species with strong correlations in only a few species. Furthermore, we only used the plot level traits, pRich and pShan, for our correlation models. We assume that the recorded traits for the individual plant samples are both a direct and indirect result of the community dynamics and are, therefore, already reflected in the plot level traits.

Throughout the literature, the term metabolomic profile and profiling are often used to refer to the entirety of all, e.g. plant, produced primary and secondary metabolites (Weston et al. 2015) or as a synonym to targeted metabolomics (Fiehn 2022). However, here, we use the term metabolomic profile to refer to all LC-MS measured features deriving from mainly secondary metabolites, regardless of their origin (plant, microorganisms, etc.), as the interaction between plants and microorganisms is seamlessly intertwined. To be able to confirm the specific function of compounds, their identification is often a top priority in metabolomics studies (Fang et al. 2019); however, in this study, we focus instead on the big picture, presented as the profile of measured features, rather than the identification of single compounds. Many studies report that environmental changes are reflected in the secondary metabolite profile (e.g. Berini et al. 2018), leading to the assumption that all or at least major parts of the profiles are responding to environmental changes in a brief time frame; however, in our study, we were able to show that only parts of the secondary metabolite profile is directly representing the changes induced by biotic and abiotic factors. Already mentioned by Walker et al. (2022), metabolomic profiles are most likely composed of two sets of metabolites, including metabolites produced throughout the life cycle of a plant, and metabolites, which abundance is induced by environmental changes and pressures. In our study, we found that species identity accounted for 65% of the variation in the metabolomic profiles, leading to the assumption that all species maintain several metabolites, mainly representing the species identity. We identified these parts as the metabolomic fingerprint of a plant accounting for its biogeographic legacy. At the same time, the remaining metabolite represented the dynamic defence profile influenced by environmental changes and seasonal dynamics. These fingerprints also seemed to be mainly independent of direct plant features such as developmental stage, height and level of damage. We could show those two types of secondary metabolites for all thirteen species. All species showed another set of metabolites that represents changes caused by environmental dynamics.

Furthermore, we found some of the annotated metabolite families to play an important role in the defence mechanisms of some of the thirteen target species. In contrast, they are not found to undergo considerable changes in other species or haven't been measured. This finding also contributed to the decision to analyse the relationships of plant species richness and composition per species and not in a global model. As discussed by Zanne et al. (2014) and Díaz et al. (2016), plants commonly have a set of available strategies to maximise their fitness, which should make it possible to predict certain responses to environmental changes. This would support the assumption that specific metabolites are engaged in responses to specific environmental pressures, for instance, Jasmonic acid for herbivory pressure (Wasternack & Hause 2013) and p-coumaroylagmatine for UV stress (Kusano et al. 2011). However, the responses may be broader and less specific for similar pressure that is less specific, such as weather conditions. In the TBE Jena Experiment, different seasons come with different combinations of species composition in various abundance levels. The different neighbourhoods, abundances and diversity levels influence the performance, appearance and, hence, the metabolomic fingerprints of each target plant species resulting in altered metabolite richness and composition. Since the species richness present in a plot is a direct result of the time point defining the sampling season, including all environmental factors but also maintenance-related factors, the effects and correlations we find may not represent a true image of natural diversity settings.

We generally found plant species richness to be mostly season dependent, with relatively equal numbers for FG grass and FG herb target species. However, species richness was not found according to the general expectation of finding an increasing number of species over the year. Still, it mainly depended on the semimaintenance in the TBE plots. In spring, we found the highest number of species, as this sampling was done before the first weeding and mowing action. The species had about 8 to 9 months to recover, undergo the winter season and grow back in a natural composition with little to no disturbance, allowing many species to grow big enough for identification. On the other hand, the lowest species richness was found in early summer. Here the sampling was conducted only a few weeks after mowing and weeding, leaving the plants mostly small-statured and some plots with large bare patches of soil. For the diversity assessed by the Shannon index, we found the most range in early and late summer, while the smallest range was recorded in spring and autumn. Across the FGs, the diversity levels were mostly stable, leading to the assumption that the changes are mainly related to the initial species composition. Using species richness as an independent factor regardless of the season allowed us to investigate the influence of plant species richness and composition on LC-MS features' richness and composition.

Plant species richness (pRich) was mainly negatively correlated with featuring richness (fRich). Here we found the correlations according to our assumption that higher plant species richness would result in lower counts of features per sample confirmed. Assuming that a high species number and hence high diversity would result in less pressure, such as less herbivory, better shading, better nutrient availability, and less production of defence metabolites. For the model using plant species Shannon (pShan) index to predict feature richness (fRich), we also found a negative correlation for most species in FG herb and grass with moderately reliable R<sup>2</sup> values. This seems to confirm the assumption that in a neighbourhood with more species that are equally distributed, the stress levels are reduced and metabolite production can be reduced to a necessary minimum. However, some species also showed a positive correlation, which supports the assumption that the responses to environmental changes can be highly species specific. For fShan and pRich, we would have expected to find lower fShan values in communities with a lower species number (small pRich), as this would account for high pressure to abiotic and biotic factors are being answered with very specific metabolites that are produced as defence mechanisms. However, in our study, we found most species of FG grass to be negatively correlated, with the highest feature Shannon measured in plots with a high species richness. On the other hand, plant species of FG herb all showed a slightly positive correlation, underpinning the initial assumption. When calculated across all thirteen species, the trend clearly is negative, although only grass species showed this tendency in our study. According to the theory that plant species diversity acts as a protective shield within the plant community and that plants produce highly specialised defence compounds in higher amounts depending on the pressure, we would expect to see a positive correlation between feature Shannon (fShan) and plant community composition (pShan). However, in this study, we found only slight correlations but hardly any clear direction for FG herb, while grass species were mostly negatively correlated. The overall model reliability was very low when calculated across all species. When testing the correlation between plant species richness (pRich) and the feature evenness (fEven), we found that the FG herb species showed a slightly positive correlation which would be according to the expectation that with higher species richness, we have a more evenly distributed metabolite profile. In comparison, with less richness, we would see more metabolites in overproduction and, hence, less feature evenness.

However, FG grass species showed a clear negative correlation between plant species richness and feature evenness. For models with fEven and pShan, we see a similar picture. FG herb showed a slightly positive but mostly no correlation between plant diversity and feature evenness, while FG grass species were negatively correlated. We found the changes to the metabolomic profiles for the thirteen tested species to be highly species-dependent. No common change was found in the profiles for all species, but similarities in the closely related species, i.e. FG grass. The species tested here in FG herb are probably phylogenetically too far from one another to show the same changes in their metabolomic profiles. In general, differences between FGs point to different defence strategies.

In this study, we found, on average most residuals in herb species compared to grass species, highlighting the different strategies of incorporating defence mechanisms to survival and reproduction strategies on limited resources in a diverse neighbourhood. But, these species also had the most residuals remaining unexplained, pointing to other influences that weren't accounted for in the models. One explanation for the differences found in FG grass and FG herb species might be related to the fact that species richness is also influencing resource availability, which can have negative effects on plant productivity (Marquard et al. 2009, Scherling et al. 2010) and is thereby also effecting the metabolite profiles (Flynn et al. 2008). The fact that in FG grass species, we found a negative correlation between feature richness and diversity with plant species richness and diversity more often might be due to the fact that grass species in the TBE were more exposed to beneficial plant species mixtures. For example, soil-related effects, such as mycorrhiza, microorganisms, or legumes' beneficial effect. For example, Hooper et al. (2005) argue that legumes present in plant communities provide beneficial effects to plant productivity. While (Forbey and Hunter 2012) point out that herbivores can also strategically use certain secondary metabolites, which would alter the herbivore pressure in these plant communities, beneficial effects of mycorrhiza are also more associated with FG herb species than grass species, which can also affect the production of metabolites as more resources are made available by the fungi (Ristok et al. 2019)

Another explanation points toward the different strategies used by FG herb and FG grass species, including the more mechanical defence structures in grasses, which lead to the overall lower production of metabolites in FG grass species. When investigating the influence of seasons, temperature changes are one of the most apparent influences that can trigger changes to the metabolomic profiles. However, as discussed by Berini et al. (2018) the findings are not consistent across the studies. Interpreting the findings can be very challenging as even small changes in environmental conditions can dramatically affect metabolite profiles. Moreover, changes in plant species richness and plant species Shannon are not only related to the season where weather conditions change and developmental stages are different but also depend on the semi-maintenance of the plots in the TBE. Therefore, our finding that low pRich and low pShan were correlated with higher metabolite richness can also be a result of the semi-maintenance procedures being applied in the plots of the TBE Jena Experiment, where plots of FG grass species are mainly undisturbed in contrast to the highly disturbed FG herb plots across the year, resulting in sampling timepoints with high response to disturbance in cleaned and cut plants (less species abundance, and richness). Plants that are under pressure from plot disturbance and resource collection to grow back and reproduce might be more prone to biotic and abiotic factors due to free spaces in the plot (less dense community), less protection from herbivores, less beneficial effects of legumes (get weeded out), mechanical damage from mowing. As shown by (Ristok et al. 2022), metabolite diversity as a response to resource availability was found to vary in FG grass and FG herb. This might be related to resource availability, which can be more limited in communities with a higher number of species as the resource pools, such as light, water and nutrient availability are more dependent than in communities with fewer species. As discussed by (Berini et al. 2018), changes in secondary metabolite profiles might also have beneficial effects on the plant community by contributing to defence strategies against various biotic and abiotic pressures. As discussed by (Walker et al. 2022), the different strategies presented by plant species in terms of ecological traits, i.e. fastgrowing (acquisitive) and slow-growing (conservative) strategies, will be reflected in their metabolite profiles. Therefore, using the recorded plant height across the season as an indicator of potential changes in the metabolite profile might provide insights into the bio-geo-legacy strategies of different plant species. Scherling et al. (2010) found in their study that plants with shorter growing habitus showed a correlation in their metabolomics profiles as a response to higher plant species richness in contrast to plants with a taller habitus, which seemingly did not show a response to different plant species richness in their metabolomic profiles. The authors concluded that small plant species are less competitive and, hence, more affected by resource limitations imposed upon the species by a higher richness.

In contrast, tall plants, which had reportedly become dominant in the tested communities, were not found to respond to the changes with alterations to their metabolomic profiles. Also, the correlation between biomass production and the metabolomic profile structure showed that larger species with more complex reproductive organs commonly produce more metabolites. Therefore, altering plant metabolite profiles likely depends on individual survival strategies of the plant species, as metabolite production must come to a balance and a trade-off between defence mechanisms and productivity on a limited resource (Díaz et al. 2016). Metabolites are the result of biochemical mechanisms and processes that shape plants' physiology and function and might, therefore, not only be influenced and shaped by the surrounding plant community but actively influence the diversity of the plant community by influencing the attractiveness to herbivores in the community (Richards et al. 2015).

#### Conclusion

Assuming that plant communities can benefit from higher diversity in multiple ways, including shared production of defence metabolites, in our study, we expected that the tested plant species would regulate their metabolomic profiles according to changes in plant species richness and diversity within their community in similar patterns. Communities with high species richness and evenly distributed abundances, hence, would result in metabolite profiles with higher numbers of features that are evenly distributed. In contrast, on the other hand, in communities with only a few dominant species, we would mainly find higher abundant specialised defence metabolites. Although finding these expectations to some degree resembled in two herb and one grass species, most of the tested species were negatively correlated or showed varying patterns for the tested diversity indices. Our finding indicates that the response to specific plant species compositions is not only FG specific but highly depends on each species individually. While biodiversity might have an inherent beneficial effect on some plant species, at the same time, it can present other species with increased resource pressure or act less beneficial due to changed attractiveness for a broader range of herbivores and other parties in the community. In our study, for FG grass, which only included species from the *Poaceae* family, we found similar responses to plant richness and diversity more often, leading to the assumption that grass species use similar strategies to respond to environmental changes, as they share similar physiology. As secondary metabolites are produced constantly

throughout the lifecycle of a plant, resource limitation and the tradeoff between growth and survival across environmental dynamics is a substantial part of defence strategies. We found that FG herb species produced more metabolites throughout the year than FG grass. These differences likely stem from the different defence strategies of grass and herb species. While grasses invest more resources in physical defence structures such as silica structures (Massey & Hartley 2009), herbs tend to invest more in their complex reproduction organs' chemical protection (Cooke & Leishman 2012). We conclude that the two FG have different coping mechanisms and rely on different strategies for their response to environmental dynamics. FG grass species were generally producing fewer metabolites than FG herb species, leading to the conclusion that FG herb species are investing more in chemical defence. In contrast, FG grass species rely more on their mechanical defence structures.

In our study, we found the distinction between two profile parts within the secondary metabolomic profiles, making up the species specific fingerprints, identifying each species across environmental and lifecycle changes and the dynamic defence profiles, which show strong responses to external dynamics. The proportion of the secondary metabolites used for environmental responses and those that are not is not investigated well and might alter greatly between the different species. However, in this study, we were able to show that the secondary metabolite fingerprint can be a useful tool for building up a database that can be used for species identification. In general, the underlying experimental design plays a significant role when drawing conclusions about global patterns. When investigating pattern similarities for multiple species, the selection of the species included in the study substantially impacts the comparability. Here, we used a diverse selection of herb species that differ vastly from one another in terms of physiological traits. The grass species, all Poaceae, were significantly closer to one another, allowing the drawing of broader conclusions about response patterns to specific environmental changes. However, including all species in a global model can easily lead to wrong conclusions, as many features are only detected in a few samples or are even unique to one of the tested species, making it challenging to draw a reliable conclusion.

Furthermore, the impact of metabolite profile changes also varies on multiple scales, including the plant individuum, species, populations and environment, as they are influenced by above and belowground microbial realms within their functional networks. Changes to the metabolomic profiles can, on the other hand, also alter biotic and abiotic interaction and, thereby, influence the ecosystem as a whole (Berini et al. 2018). Furthermore, the plants we used in our study grow mainly undisturbed throughout the year under natural conditions. The plants have included metabolites produced by endophytes as much as they produced their own physical and chemical defence structures. Studying defence dynamics in field experiments allows for including all natural interactions between the plants and their environment, increasing the reliability of potential pattern findings; however, the number of environmental factors that cannot be controlled for increases drastically. Furthermore, compared with greenhouse studies, where design-unrelated factors are kept to a minimum, measuring artefacts in rapidly changing metabolomic profiles from plants collected in the field can drastically alter the interpretability of the data.

In our study, we found that the reliability of linear models differed greatly between species, depending on the number of features measured for each species. The tested models, therefore, do not necessarily represent a true picture of underlying mechanisms, but they serve to get an idea of the correlations between plant species diversity and metabolite profile changes across the year. In order to be fully able to test the influences of developmental stages and environmental pressures on the defence metabolite production, the experimental design would need to be adapted accordingly. We agree with the valuation by Berini et al. (2018) that due to the different influences of abiotic and biotic factors on the metabolomic profile, predicting concrete responses to novel environmental conditions might be challenging. Although metabolite studies are still at the beginning of reliably contributing to understanding underlying processes, these studies have great potential to examine and predict plant fitness in present species loss and future climate scenarios. Narrowing down the parts of metabolite profiles that are actually involved in environmental response will also facilitate reliable identification of metabolites, and the prediction of defence-facilitating compounds might also contribute to bio-protected plant breeding environments in agricultural contexts. For instance, untargeted metabolomics might allow the investigation of changes in the metabolomic profiles across environmental dynamics without needing time and cost-intensive key compound identification. Based on their fingerprints, plant samples can be identified and grouped into their functional groups. The fingerprint is conserved across seasonal dynamics or changing environmental conditions, facilitating low-cost analysis of plant samples and forming a fingerprint-based database for ecological experiments.

#### Data availability

The data set, including raw LC-MS measurements, field records and metadata tables, are available in the MetaboLights repository http://identifiers.org/metabolights:MTBLS1224.

#### References

- Berini, J. L., Brockman, S. A., Hegeman, A. D., Reich, P. B., Muthukrishnan, R., Montgomery, R. A., & Forester, J. D. (2018). Combinations of abiotic factors differentially alter production of plant secondary metabolites in five woody plant species in the boreal-temperate transition zone. Frontiers in plant science, 9, 1257.
  Brunius, C. (2022). StatTools: Nifty Tools for Random Statistical Tasks. R package version 0.0.916.
- Cooke, J., & Leishman, M. R. (2012). Tradeoffs between foliar silicon and carbon-based defences: evidence from vegetation communities of contrasting soil types. Oikos, 121(12), 2052-2060. https://doi.org/10.1111/j.1600-0706.2012.20057.x
- Díaz, Kattge, J., Cornelissen, J. H., Wright, I. J., Lavorel, S., Dray, S., Reu, B., Kleyer, M., Wirth, C., Prentice, I. C., Garnier, E., Bönisch, G., Westoby, M., Poorter, H., Reich, P. B., Moles, A. T., Dickie, J., Gillison, A. N., Zanne, A. E., Chave, J., Wright, S. J., Sheremet'ev, S. N., Jactel, H., Baraloto, C., Cerabolini, B., Pierce, S., Shipley, B., Kirkup, D., Casanoves, F., Joswig, J. S., Günther, A., Falczuk, V., Rüger, N., Mahecha, M. D., Gorné, L. D. (2016) The global spectrum of plant form and function. Nature, 529(7585), 167-171.
- Ebeling, A., Pompe, S., Baade, J., Eisenhauer, N., Hillebrand, H., Proulx, R., ... & Weisser, W. W. (2014). A traitbased experimental approach to understand the mechanisms underlying biodiversity–ecosystem functioning relationships. Basic and Applied Ecology, 15(3), 229-240.
- Fang, C., Fernie, A. R., & Luo, J. (2019). Exploring the diversity of plant metabolism. Trends in Plant Science, 24(1), 83-98.
- Fernandez, C., Monnier, Y., Santonja, M., Gallet, C., Weston, L. A., Prévosto, B., Saunier, A., Baldy, V., & Bousquet-Mélou, A. (2016). The impact of competition and allelopathy on the trade-off between plant defense and growth in two contrasting tree species. Frontiers in Plant Science, 7, 594. https://doi.org/10.3389/fpls.2016.00594
- Fiehn, O. (2002). Metabolomics—the link between genotypes and phenotypes. Functional genomics, 155-171.
- Flynn, D. F., Schmid, B., He, J. S., Wolfe-Bellin, K. S., & Bazzaz, F. A. (2008). Hierarchical reliability in experimental plant assemblages. Journal of Plant Ecology, 1(1), 59-65.
- Forbey, J. S., & Hunter, M. D. (2012). The herbivore's prescription: a pharm-ecological perspective on host-plant use by vertebrate and invertebrate herbivores. The ecology of plant secondary metabolites: From genes to global processes, 78.
- Gargallo-Garriga, A., Sardans, J., Granda, V., Llusià, J., Peguero, G., Asensio, D., Ogaya, R., Urbina, I., Van Langenhove, L., Verryckt, L. T., Chave, J., Courtois, E. A., Stahl, C., Grau, O., Klem, K., Urban, O., Janssens, I. A., & Peñuelas, J. (2020). Different 'metabolomic niches' of the highly diverse tree species of the French Guiana rainforests. Scientific Reports, 10(1), 1-10. https://doi.org/10.1038/s4159 8-020-63891-y
- Hess, M., Barralis, G., Bleiholder, H., Buhr, L., Eggers, T. H., Hack, H., & Stauss, R. (1997). Use of the extended BBCH scale—general for the descriptions of the growth stages of mono; and dicotyledonous weed species. Weed research, 37(6), 433-441.
- Hooper, D. U., Chapin III, F. S., Ewel, J. J., Hector, A., Inchausti, P., Lavorel, S., ... & Wardle, D. A. (2005). Effects of biodiversity on ecosystem functioning: a consensus of current knowledge. Ecological monographs, 75(1), 3-35.
- Izsák, J., & Papp, L. (2000). A link between ecological diversity indices and measures of biodiversity. Ecological Modelling, 130(1-3), 151-156.
- Kuhl, C., Tautenhahn, R., Böttcher, C., Larson, T. R., & Neumann, S. (2012). CAMERA: an integrated strategy for compound spectra extraction and annotation of liquid chromatography/mass spectrometry data sets. Analytical chemistry, 84(1), 283-289. https://doi.org/10.1021/ac202450g
- Kuhn, M. (2015). Caret: classification and regression training. Astrophysics Source Code Library, ascl-1505. R package version 6.0-88. https://CRAN.R-project.org/package=caret
- Kusano, M., Tohge, T., Fukushima, A., Kobayashi, M., Hayashi, N., Otsuki, H., ... & Fernie, A. R. (2011). Metabolomics reveals comprehensive reprogramming involving two independent metabolic responses of Arabidopsis to UV-B light. The Plant Journal, 67(2), 354-369.
- Kuznetsova, A., Brockhoff, P. B., & Christensen, R. H. (2017). ImerTest package: tests in linear mixed effects models. Journal of statistical software, 82 (13), 1-26. doi: 10.18637/jss.v082.i13
- Lorentzen, S., Roscher, C., Schumacher, J., Schulze, E. D., & Schmid, B. (2008). Species richness and identity affect the use of aboveground space in experimental grasslands. Perspectives in Plant Ecology, Evolution and Systematics, 10(2), 73-87.

- Marquard, E., Weigelt, A., Roscher, C., Gubsch, M., Lipowsky, A., & Schmid, B. (2009). Positive biodiversity– productivity relationship due to increased plant density. Journal of Ecology, 97(4), 696-704.
- Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H., & Neumann, S. (2021). LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods. Scientific data, 8(1), 1-12.
- Massey, F. P., Hartley, S. E. (2009). Physical defences wear you down: progressive and irreversible impacts of silica on insect herbivores. Journal of Animal Ecology, 78(1), 281-291. https://doi.org/10.1111/j.1365-2656.2008.01472.x
- MetaboLights http://identifiers.org/metabolights:MTBLS1224. (2019)
- Mevik, B.-H., Wehrens, R. and Hovde Liland, K. (2020). pls: Partial Least Squares and Principal Component Regression. R package version 2.7-3. https://CRAN.R-project.org/package=pls
- Oksanen, J., Blanchet, F. G., Kindt, R., Legendre, P., Minchin, P. R., O'hara, R. B., ... & Oksanen, M. J. (2013). Package 'vegan'. Community ecology package, version, 2(9), 1-295. R package version 2.5-7. https://CRAN.R-project.org/package=vegan
- Quinn, J. C., Kessell, A., Weston, L. A. (2014). Secondary plant products causing photosensitization in grazing herbivores: Their structure, activity and regulation. International Journal of Molecular Sciences, 15(1), 1441-1465.
- Rasmann, S., & Turlings, T. C. (2016). Root signals that mediate mutualistic interactions in the rhizosphere. Current Opinion in Plant Biology, 32, 62-68. https://doi.org/10.1016/j.pbi.2016.06.017
- R Core Team (2013). R: A language and environment for statistical computing. URL https://www.R-project.org/.
- Richards, L. A., Dyer, L. A., Forister, M. L., Smilanich, A. M., Dodson, C. D., Leonard, M. D., & Jeffrey, C. S. (2015). Phytochemical diversity drives plant–insect community diversity. Proceedings of the National Academy of Sciences, 112(35), 10973-10978. doi: 10.1073/pnas.1504977112
- Ristok, C., Poeschl, Y., Dudenhöffer, J.-H., Ebeling, A., Eisenhauer, N., Vergara, F., Wagg, C., van Dam, N. M., & Weinhold, A. (2019). Plant species richness elicits changes in the metabolome of grassland species via soil biotic legacy. Journal of Ecology, 107(5), 2240–2254. https://doi.org/10.1111/1365-2745.13185
- Ristok, C., Weinhold, A., Ciobanu, M., Poeschl, Y., Roscher, C., Vergara, F., Eisenhauer, N., & van Dam, N. M. (2022). Plant diversity effects on herbivory are related to soil biodiversity and plant chemistry. Journal of Ecology, 00, 1– 16. https://doi.org/10.1111/1365-2745.14032
- Roscher, C., Schumacher, J., Baade, J., Wilcke, W., Gleixner, G., Weisser, W. W., ... & Schulze, E. D. (2004). The role of biodiversity for element cycling and trophic interactions: an experimental approach in a grassland community. Basic and Applied Ecology, 5(2), 107-121.
- Sardans, J., Gargallo-Garriga, A., Urban, O., Klem, K., Walker, T. W. N., Holub, P., Janssens, I. A., & Peñuelas, J. (2020). Ecometabolomics for a better understanding of plant responses and acclimation to abiotic factors linked to global change. Metabolites, 10(6), 239. https://doi.org/10.3390/metab o1006 0239
- Scherling, C., Roscher, C., Giavalisco, P., Schulze, E. D., Weckwerth, W. (2010). Metabolomics unravel contrasting effects of biodiversity on the performance of individual plant species. PLoS One, 5(9), e12569.
- Tikunov, Y., Lommen, A., De Vos, C. R., Verhoeven, H. A., Bino, R. J., Hall, R. D., & Bovy, A. G. (2005). A novel approach for nontargeted data analysis for metabolomics. Large-scale profiling of tomato fruit volatiles. Plant physiology, 139(3), 1125-1137. doi: 10.1104/pp.105.068130
- Treutler, H., Tsugawa, H., Porzel, A., Gorzolka, K., Tissier, A., Neumann, S., & Balcke, G. U. (2016). Discovering regulated metabolite families in untargeted metabolomics studies. Analytical chemistry, 88(16), 8082-8090.
- Tsugawa, H., Cajka, T., Kind, T., Ma, Y., Higgins, B., Ikeda, K., ... & Arita, M. (2015). MS-DIAL: data-independent MS/MS deconvolution for comprehensive metabolome analysis. Nature methods, 12(6), 523-526.
- Walker, T. W., Alexander, J. M., Allard, P. M., Baines, O., Baldy, V., Bardgett, R. D., ... & Salguero-Gómez, R. (2022). Functional Traits 2.0: The power of the metabolome for ecology. Journal of Ecology, 110(1), 4-20.
- Wasternack, C. and Hause, B. (2013) Jasmonates: biosynthe-sis, perception, signaltransduction and action in plant stress response, growth and development. An update to the 2007 review in Annals of Botany. Annals of Botany 111,1021–1058
- Weston, P. A., Weston, L. A., & Hildebrand, S. (2012). Environmental impact on biocontrol agents and secondary chemistry of Paterson's curse (Echium plantagineum). In Proceedings of the 18th Australasian Weeds Conference (pp. 203-207).
- Weston, P. A., Weston, L. A., & Hildebrand, S. (2013). Metabolic profiling in Echium plantagineum: presence of bioactive pyrrolizidine alkaloids and napthoquinones from accessions across southeastern Australia. Phytochemistry reviews, 12(4), 831-837. doi: 10.1007/s11101-013-9306-4

- Weston, L. A., Skoneczny, D., Weston, P. A., & Weidenhamer, J. D. (2015). Metabolic profiling: An overview— New approaches for the detection and functional analysis of biologically active secondary plant products. J. Allelochem. Interact, 1, 15-27.
- Yang, L., Wen, K. S., Ruan, X., Zhao, Y. X., Wei, F., & Wang, Q. (2018). Response of plant secondary metabolites to environmental factors. Molecules, 23(4), 762. doi: 10.3390/molecules2 3040762
- Zanne, A. E., Tank, D. C., Cornwell, W. K., Eastman, J. M., Smith, S. A., FitzJohn, R. G., ... & Beaulieu, J. M. (2014). Three keys to the radiation of angiosperms into freezing environments. Nature, 506(7486), 89-92.

#### **Figures**



**Figure 01: Observed plant species richness in plots of the TBE.** TBE plot richness included diversity levels (DL) with one (DL1), two (DL2), four (DL4), and eight (DL8) initial species. Richness was recorded in 48 plots in total (DL1 = 16 plots, DL2 = 16 plots, DL4 = 14 plots, DL8 = 2 plots), representing one set of DL plots for thirteen target plant species, including three species with two sets of DL plots. To cover changes across the growing season, plant species richness was recorded for each plot in spring (E), early summer (F), late summer (G) and autumn (H).

CHAPTER 3



**Figure 02: Explained variation in metabolite profiles.** Explained variation of feature intensities based on different experimental design factors. Experimental design factors were recorded either at the plot or at the individual plant level. Factors at plot level: time point of sampling (season), number of species per plot as designed (desDiv), number of species recorded per plot (pRich), species diversity recorded per plot (pShan). Factors at the individual plant level: aboveground height (plant height), developmental stage (plant BBCH), inflicted visible damage (mechanical and pathogen damage). The remaining, unexplained variation is shown as residuals. Variance partitioning was calculated a) across all species and b) for each species separately using the designed richness per plot. The variance partitioning using both the recorded plant species richness and species Shannon is shown c) across all species and d) species specific.

#### | CHAPTER 3



**Figure 03: Relative abundance of putatively annotated metabolite families.** The features are shown were preselected for each experimental factor and separately within each species. The colours refer to the eight annotated kingdoms *Organic nitrogen compounds* (01, gold), *Organopnictogen compounds* (02, orange), *Benzenoids* (03, yellow), *Organic acids and derivatives* (04, light green), *Lipids and lipid-like molecules* (05, grey), *Organoheterocyclic compounds* (06, blue), *Organic oxygen compounds* (07, cyan), and *Phenylpropanoids and polyketides* (08, pink). Please refer to the pMetFam\_ID identification table (Table 2) for the subfamilies. The plot was calculated in excel and designed and annotated with BioRender.com.

CHAPTER 3



5 15 25 Festuce rubre Plant Species Richness (pRich) 15 Poa prate

Phies

15 Avenule pubescens 15 Dactylis glomerata

58 |

#### CHAPTER 3

Season • 2018\_E • 2018\_F • 2018\_G • 2018\_H



d)

**Figure 04: Linear models and correlation of richness and composition indices of metabolomic LC-MS features and plant species.** Correlation is shown for each species separately and all species (13 species) combined. Plots show true measurements and the fitted linear model (black line). Values are colour coded by season: spring (E; white), early summer (F; light blue), late summer (G; dark blue), and autumn (H; purple). To investigate the correlation, we used feature richness (fRich) as a response variable to a) plant species richness (pRich) and plant species Shannon (pShan), feature Shannon (fShan) as response to c) pRich and d) pShan and feature Evenness (fEven) as response to e) pRich and f) pShan.

#### Tables

**Table 1a: Overview of plot traits, plant traits and metabolite feature diversity for species of FG grass.** Recorded traits data on plot and plant level, including feature diversity across four seasons (S; E: spring, F: early summer, G: late summer, H: autumn) for species in the functional group (FG) grass. Data are presented as average per season and species. Recorded traits on the plot level include the plant species richness (pRich) and plant species Shannon index (pShan) for each plot, and height (in cm), developmental stage (BBCH scale), as well as mechanical (mechD in % above ground biomass) and pathogen inflicted damage (pathD in % above ground biomass) on the plant level. For each sample, the chemical composition was calculated as LC-MS feature richness (fRich), feature Shannon diversity (fShan) and feature Evenness (fEven). Detailed results for all 504 samples can be found in Supple Table 1 for plot level traits and in Suppl. Table 4 for plant level traits.

FG grass				plot trait		plant trait				feature diversity		
Species	plots	code	S	pRich	pShan	height	BBCH	mechD	pathD	fRich	fShan	fEven
Anthoxanthum odoratum		AO	Е	18.5	2.3	57.9	78.8	0.0	16.4	499.5	2.2	0.3
Anthoxanthum odoratum	A018, A044,	AO	F	10.0	1.8	10.0	50.0	4.7	15.8	633.7	3.9	0.6
Anthoxanthum odoratum	B060, C115	AO	G	13.5	1.9	9.1	51.9	10.4	21.3	642.0	5.2	0.8
Anthoxanthum odoratum		AO	н	13.4	2.1	9.6	37.1	3.7	4.9	541.6	4.4	0.7
Avenula pubescens		AP	Е	18.0	2.2	99.0	56.9	1.3	16.5	471.8	4.0	0.7
Avenula pubescens	B073, B092,	AP	F	9.8	1.7	17.4	40.6	4.0	11.0	561.0	5.1	0.8
Avenula pubescens	C103, C110	AP	G	13.8	1.8	15.4	42.5	1.6	22.5	545.6	5.2	0.8
Avenula pubescens		AP	н	13.3	1.9	13.4	40.0	3.5	8.3	549.0	5.3	0.8
Dactylis glomerata		DG	Е	18.3	2.1	102.1	65.0	0.6	13.8	435.3	2.3	0.4
Dactylis glomerata	A005, A018,	DG	F	9.5	1.7	23.8	55.0	5.1	10.6	432.5	2.8	0.5
Dactylis glomerata	C097, C137	DG	G	13.3	1.8	24.9	46.3	1.9	18.1	433.0	2.9	0.5
Dactylis glomerata		DG	н	15.8	2.1	21.5	41.3	4.4	9.8	390.9	3.0	0.5
Festuca rubra		FR	Е	13.5	1.9	70.1	60.0	0.3	5.3	371.1	0.4	0.1
Festuca rubra	B064, B067,	FR	F	9.0	1.4	23.3	46.3	4.5	15.3	334.6	0.4	0.1
Festuca rubra	B073, C114	FR	G	11.8	1.4	21.5	50.0	4.4	18.1	362.3	0.6	0.1
Festuca rubra		FR	н	12.8	1.7	12.1	38.8	4.6	5.6	321.9	0.6	0.1
Holcus lanatus		HL	Е	17.3	2.1	76.1	62.5	0.6	10.6	449.6	1.3	0.2
Holcus lanatus	A018, A035,	HL	F	9.3	1.5	12.6	51.9	3.1	21.9	515.1	1.9	0.3
Holcus lanatus	A040, B080	HL	G	15.5	2.0	10.8	55.0	3.0	17.5	489.5	2.7	0.4
Holcus lanatus		HL	н	16.5	2.3	11.1	46.3	3.4	10.6	407.4	2.0	0.3
Phleum pratense	A002 A018	PP	Е	17.8	2.2	57.9	61.6	0.1	3.3	509.7	0.8	0.1
Phleum pratense	A045, A046,	PP	F	9.6	1.8	23.4	44.7	3.2	15.8	507.9	1.7	0.3
Phleum pratense	B051, B059, B073, C133	PP	G	11.9	2.0	35.3	50.0	4.0	15.1	452.5	1.7	0.3
Phleum pratense	2070) 0200	PP	н	15.3	2.0	15.3	38.4	3.8	10.1	395.0	2.2	0.4
Poa pratensis		PA	Е	16.7	2.0	60.1	62.1	0.0	7.1	321.4	0.4	0.1
Poa pratensis	A026, B073,	PA	F	7.4	1.1	18.3	50.0	4.3	14.6	372.3	1.0	0.2
Poa pratensis	B075, C131	PA	G	10.5	1.5	20.1	45.0	2.9	16.3	372.8	0.5	0.1
Poa pratensis		PA	н	13.5	1.7	16.3	40.0	5.1	4.4	371.9	0.7	0.1

**Table 1b: Overview of plot traits, plant traits and metabolite feature diversity for species of FG herb.** Recorded traits data on plot and plant level, including feature diversity across four seasons (S; E: spring, F: early summer, G: late summer, H: autumn) for species in the functional group (FG) herb. Data are presented as average per season and species. Recorded traits on the plot level include the plant species richness (pRich) and plant species Shannon index (pShan) for each plot, and height (in cm), developmental stage (BBCH scale), as well as mechanical (mechD in % above ground biomass) and pathogen inflicted damage (pathD in % above ground biomass) on the plant level. For each sample, the chemical composition was calculated as LC-MS feature richness (fRich), feature Shannon diversity (fShan) and feature Evenness (fEven). Detailed results for all 504 samples can be found in Supple Table 1 for plot level traits, and in Suppl. Table 4 for plant level traits.

FG herb			plot trait		plant trait			feature diversity				
Species		code	S	R	Н	height	BBCH	mechD	pathD	fRich	fShan	fEven
Centaurea jacea		CJ	Е	15.0	2.0	30.0	40.0	1.3	6.5	691.0	5.1	0.8
Centaurea jacea	A013, A027,	CJ	F	7.5	1.4	28.9	42.5	2.3	11.3	637.8	5.0	0.8
Centaurea jacea	A030, B073	CJ	G	11.8	1.8	25.3	44.4	2.5	8.4	649.6	5.0	0.8
Centaurea jacea		CJ	н	14.3	2.0	21.0	38.8	3.5	4.8	601.0	5.0	0.8
Geranium pratense		GP	Е	15.0	1.8	45.0	62.5	4.6	11.6	496.5	5.2	0.8
Geranium pratense	A018, B081,	GP	F	10.5	1.7	31.8	38.1	5.1	11.8	463.9	5.1	0.8
Geranium pratense	C109, C121	GP	G	13.5	1.9	28.6	44.4	3.5	18.5	502.1	5.2	0.8
Geranium pratense		GP	н	14.8	2.2	12.6	40.0	3.9	10.6	471.8	5.1	0.8
Knautia arvensis		KA	Е	15.5	1.8	76.3	83.1	2.9	11.9	762.9	5.5	0.8
Knautia arvensis	A010, A020,	KA	F	8.5	1.3	38.8	48.1	5.0	7.6	724.4	5.5	0.8
Knautia arvensis	A042, B073	KA	G	9.5	1.5	38.0	51.9	5.0	17.5	800.1	5.6	0.8
Knautia arvensis		KA	н	11.5	1.8	25.3	40.0	6.3	12.5	625.4	5.3	0.8
Leucanthemum vulgare	A010 0010	LV	Е	16.1	1.9	60.9	65.9	1.1	10.9	604.3	5.3	0.8
Leucanthemum vulgare	B051, B073,	LV	F	7.9	1.5	8.5	43.4	1.0	3.8	602.9	5.2	0.8
Leucanthemum vulgare	B085, B090, C135, C136	LV	G	11.6	1.6	11.0	53.1	0.6	2.8	616.5	5.3	0.8
Leucanthemum vulgare	C155, C156	LV	н	15.3	2.0	6.9	40.6	1.9	4.4	528.6	5.2	0.8
Plantago lanceolata	A000 A011	PL	Е	18.3	2.1	23.5	59.7	9.0	13.4	720.6	5.6	0.8
Plantago lanceolata	A003, A011, A018, A043,	PL	F	8.9	1.6	26.1	46.6	13.8	13.1	748.0	5.6	0.8
Plantago lanceolata	B054, B057, B073 C115	PL	G	13.5	2.0	23.9	51.3	7.9	14.7	771.3	5.7	0.9
Plantago lanceolata	6075, 0115	PL	н	15.5	2.2	9.3	41.6	15.3	9.1	712.6	5.4	0.8
Ranunculus acris		RA	Е	21.0	2.4	54.6	80.0	4.0	21.5	470.3	1.3	0.2
Ranunculus acris	A003, A016,	RA	F	11.8	1.9	16.3	42.5	2.0	4.4	452.5	1.1	0.2
Ranunculus acris	A018, B071	RA	G	17.9	2.4	14.1	51.4	2.1	20.7	483.7	1.0	0.2
Ranunculus acris		RA	н	15.0	2.1	11.6	36.3	5.0	17.3	453.9	1.0	0.2

Table 2: pMetFam\_ID identification table for putatively annotated metabolite families. Features for annotation were selected by PLS models performed for each species on both plot-level (season, pRich, pShan) and plant-level traits (BBCH, height, mechanical, and pathogen inflicted damage). The selected features were putatively annotated using databases available with MetFamily. The number of samples that had an intensity measured for a feature annotated in one of the metabolite families is given as count across all 504 samples. Note that in some metabolite families multiple features were annotated, resulting for the count to exceed the number of 504 samples. A detailed list of annotated features is available in Suppl Table 3a (feature selection overview) and Suppl Table 3b (feature intensities).

Spherg, Ch.11      010 Space comparison      010 Space compar	pMetFam_ID	Kinadom	Superclass	Class	Subclass	Parent	count
phofe-appendic phofe-appendic phofe-appendic(Dipanotagenorganomicson phofe-appendic p	pMetFam 01-A1.1	(01) Organic nitrogen compounds	(A) Organonitrogen compounds	(1) Amines	(.1) Primary amines		43
photon      2013      Descension      220        photon      2013      Descension      220        photon      2013      Descension      2013        photon      2013      Descension      2013        photon      2013      Descension      2014        photon      2013      Descension      2014        photon      2013      Descension      2014        photon      2014      Descension	pMetFam_01-A1.1a	(01) Organic nitrogen compounds	(A) Organonitrogen compounds	(1) Amines	(.1) Primary amines	(a) Monoalkylamines	71
phof = 0.      (1) Biocenside      (1) Biocensi	pMetFam 02	(02) Organophictogen compounds					292
phefacture(Difference) <td>pMetFam_03</td> <td>(03) Benzenoids</td> <td></td> <td></td> <td></td> <td></td> <td>210</td>	pMetFam_03	(03) Benzenoids					210
ip for any and any any and any	pMetFam_03-A1	(03) Benzenoids	(A) Benzene and substituted derivatives	(1) Phenylpropanes			14
piper	nMetEam_03-B1	(03) Benzenoids	(B) Phenols	(1) Methoxunhenols			235
pipefac	pMetEam_04-A11a	(04) Organic acids and derivatives	(A) Organic phosphoric acids and derivatives	(1) Phosphate esters	(1) Alkyl phosphates	(a) Monoalkyl phosphates	448
pipefand      [1] Cabone Sed damages      [1] Cabone Sed damages      [1] Secondar cab      [1] Secondar	pMetEam_04-B11	(04) Organic acids and derivatives	(B) Carboxulic acids and derivatives	(1) Amino acids pentides and analogues	(1) Pentides	(2)	282
prief m., 1422.9      [10] Open solid and services      [12] Caboryle solid markers      [13] Caboryle solid markers      [14] Caboryle solid markers      [13] Caboryle solid markers      [14] Cab	pMetEam_04-B2.1	(04) Organic acids and derivatives	(B) Carboxulic acids and derivatives	(2) Carboxulio acid derivatives	(1) Carboxulio acid esters		38
pipef m. 1942.20      (30) Dyna cask and diversions      (3) Caboxyle sock and sizes      (b) Tenuy caboxyle sock and sizes      (b) Tenuy caboxyle sock and sizes      (b) Tenuy caboxyle sock and sizes      (c) Caboxyle sock and sizes	pMetFam_04-B2.2a	(04) Organic acids and derivatives	(B) Carboxylic acids and derivatives	(2) Carbosylic acid derivatives	(.2) Carbosylic acid amides	(a) Secondary carboxylic acid amides	121
pipel m. 10-141      (Dil.pitzi m. 10-14)      (Dil.pitzi m.	pMetFam_04-B2.2b	(04) Organic acids and derivatives	(B) Carboxylic acids and derivatives	(2) Carbonylic acid derivatives	(2) Carbonylic acid amides	(b) Tertiary carboxylic acid amides	203
priof #	pMetEam_05-A1	(05) Lipids and lipid-like molecules	(A) Steroids and steroid derivatives	(1) Spirostanes and derivatives		(-)	22
pipel and S-C      (15) Lipid and lipid-lipid and lipid-lipid (15) and lipid (15) and	pMetEam_05-B11	(05) Lipids and lipid-like molecules	(B) Eatty Aculs	(1) Eatty acylighteosides	(1) Fatty acylighted by the solution of the so		54
Instrum      Instrum <t< td=""><td>pMetEam_05-C</td><td>(05) Lipids and lipid-like molecules</td><td>(C) Prepol lipids</td><td>(), a, a, a, g, a, a,</td><td></td><td></td><td>1058</td></t<>	pMetEam_05-C	(05) Lipids and lipid-like molecules	(C) Prepol lipids	(), a, a, a, g, a,			1058
information 4.11      (30) Dipaneterscopic compounds      (10) Anohores and derivatives      (11) Prindine alloopide adds      72        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine alloopide adds      110        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine alloopide adds      110        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine alloopide adds      110        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine alloopide adds      (11) Prindine alloopide adds      110        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine alloopide adds      (11) Prindine alloopide adds      120        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine alloopide adds      (11) Prindine adds      120        Morfan J.G.11      (30) Dipaneterscopic compounds      (11) Prindine adds      (11) Prindine adds      120        Morfan J.G.11      (31) Dipaneterscopic compounds      (11) Prindine adds      (11) Prindine adds      130        Morfan J.G.11      (31) Dipaneterscopic compounds      (11) Prindine adds      (11) Prindine adds      130        Morfan J.G.11      (31) Dipaneterscopic compounds      (12) Prindine adds      (11	pMetFam_06	(06) Organoheterocyclic compounds					241
pikef am. 06-81      (00) Ogaroketerocytic compounds      (1) Frakhessprinn      (1) Purkinessa diskutes      (1) Purkinessa      (1) Purkine	pMetFam_06-A11	(06) Organobeterocyclic compounds	(A) Quinolines and derivatives	(1) Quipolopes and derivatives	(1) Hydroguipolopes		27
phi/stam.06-01      (00) Cypacheterosyck compounds      (1) Pydnescabouyle adds and detastive      (1) Pydnescabouyle adds      10        Phi/stam.06-01      (00) Cypacheterosyck compounds      (1) Pydnescabouyle adds and detastive      (1) Chromose      (a) 3-methosychetonose      10        Phi/stam.06-11      (00) Cypacheterosyck compounds      (1) Pydnescabouyle adds and detastive      (1) Pydnescabouyle adds and detastive <td< td=""><td>pMetEam_06-B</td><td>(06) Organobeterocyclic compounds</td><td>(B) Tetrahydroisoguinolines</td><td>()</td><td></td><td></td><td>32</td></td<>	pMetEam_06-B	(06) Organobeterocyclic compounds	(B) Tetrahydroisoguinolines	()			32
Intel mode-0      (B) Digenetrosponds compounds      (D) Trendvolds durant	pMetEam_06-C11	(06) Organobeterocyclic compounds	(C) Puridines and derivatives	(1) Puridipecarboxulic acids and derivatives	(1) Puridine carboxulic acids		74
Intel Security      (D) Concest      (a) Concest      (a) Concest      (b) Concest      (c) Concest      C        PME S. D.G-C1      (D) Concetter concel compound      (D) Concest      (D) Providence concent      (D) Concetter concel compound      (C) Concetter concel compound      (C) Concetter concel concent      (C) Concetter concel concent      (C) Concetter concent      (C) Concent </td <td>pMetEam_06-D</td> <td>(06) Organobeterocyclic compounds</td> <td>(D) Tetrahudrofurans</td> <td>(), ), , , , , , , , , , , , , , , , , ,</td> <td></td> <td></td> <td>140</td>	pMetEam_06-D	(06) Organobeterocyclic compounds	(D) Tetrahudrofurans	(), ), , , , , , , , , , , , , , , , , ,			140
pink# m.0+5+7      (0) Dig panital products compound (1) Diants      (1) Diants      222        pink# m.0+5+1      (0) Dig panital products compound (1) Diants      (1) Privide and pyink de winkers      (1) Privide parital privide parital privide de winkers      (1) Privide parital privide parital privide de winkers      (1) Privide parital pri	pMetFam_06-E1.1a	(06) Organoheterocyclic compounds	(E) Benzopyrans	(1) 1-benzopyrans	(1) Chromones	(a) 3-methosychromones	157
pick #	pMetFam_06-F	(06) Organobeterocyclic compounds	(F) Oxanes	() · · · · · · · · · · · · · · · · · · ·			222
pikef ar. 06-H1      000 Gooponterecopic compounds      HIP/motibies      100 Lange on the comparison of the compar	pMetEam_06-G11	(06) Organobeterocyclic compounds	(G) Diazines	(1) Purimidines and purimidine derivatives	(1) Hudronurimidines		302
Parter and Description      IDE description      IDE description      IDE description        Parter and Description      IDE descri	pMetEam_06-H	(06) Organobeterocyclic compounds	(H) Purrolidines	(), ),	0.0.00000000000000000000000000000000000		340
phefer an. 07-40      100 August encourses      100 August en	pMetEam_06-I11	(06) Organobeterocyclic compounds	(I) Imidazon vrimidines	(1) Purines and nurine derivatives	(1) 6-aminonurines		121
Optimization OP      OPT Or Optime oxygen compounds      OPT optime companies      OPT optim oxygen compounds      OPT optime comp	pMetEam_06-I12a	(06) Organobeterocyclic compounds	() Inidazopyrinidines	(1) Puripes and puripe derivatives	(2) Puripopes	(a) 6-ovopurines	378
phefar      077.0 <t< td=""><td>pMetFam_07</td><td>(07) Organic oxygen compounds</td><td>() mildaeopymilaries</td><td>()) antes ana pante activantes</td><td>(E) and the</td><td>(a) o onopannes</td><td>1110</td></t<>	pMetFam_07	(07) Organic oxygen compounds	() mildaeopymilaries	()) antes ana pante activantes	(E) and the	(a) o onopannes	1110
Inflet and D-A1      107 Ogars organs componeds      IAl Oganseningen componeds      II Cathoryl compounds      II Keteners      288        Piter and D-A1      107 Ogars organs componeds      IAl Oganseningen componeds      II Cathoryl compounds      II Keteners      288        Piter and D-A1      107 Ogars organs componeds      IAl Oganseningen componeds      II Retories      288        Piter and D-A1      107 Ogars organs componeds      IAl Oganseningen componeds      II Retories      288        Piter and D-A1      107 Ogars organs componeds      IAl Oganseningen componeds      II Retories      803        Piter and D-A1      107 Ogars organs componeds      IAl Oganseningen componeds      II Retories      77        Piter and D-A1      1089 Prevylpopanoids and opkieds      II Bushydpatales      118      118        Piter and D-A1      1089 Prevylpopanoids and opkieds      II II Angular piranocounarins      119      119        Piter and D-A1      1089 Prevylpopanoids and opkieds      II II Angular piranocounarins      119      119      119      119      119      119      119      119      119      119      119      119      119      119      119	pMetEam_07-A	(07) Organic oxygen compounds	(A) Organopitrogen compounds				1058
phter an. 07-41      (07) Gapric orgen compounds      (A) Digmonitogen compounds      (1) Ketones      (2)        phter an. 07-42.      (07) Orgenic orgen compounds      (A) Digmonitogen compounds      (2) Alcohols and polyois      (1) Provise      37        phter an. 07-43.2      (07) Orgenic orgen compounds      (3) Cachohydrates and carbohydrates compares      (3) Cachohydrates and carbohydrates      (3) Cachohydrates	pMetEam_07-A1	(07) Organic oxygen compounds	(A) Organopitrogen compounds	(1) Carbonyl compounds			148
pMeF arr.U7-42      (D10) Sparse conges compounds      (A)D gamonitoges compounds      (B)D Phonyling compounds      (A)D gamonitoges compounds      (B)D Phonyling compounds	pMetFam_07-A1.1a	(07) Organic oxygen compounds	(A) Organonitrogen compounds	(1) Carbonyl compounds	(.1) Ketones	(a) Aryl ketones	21
phter and 7-42.1      1071 Oganic oxygen compounds      12 Accords and polysis      11 Polysis      19 Polysis        phter and 7-43.2      1071 Oganic oxygen compounds      1A Oganic oxygen compounds      10 Albaganic	pMetFam_07-A2	(07) Organic oxygen compounds	(A) Organonitrogen compounds	(2) Alcohols and polyols			268
pMeF ar. 07-A3 is      (07.00 panie sigen compounds      (A.D. gancentrogen compounds      (A.D. ganc	pMetFam_07-A2.1	(07) Organic oxygen compounds	(A) Organopitrogen compounds	(2) Alcohols and polyols	(1) Polyols		37
Inter Tur. 7-8.2 a      IOT Organic single compounds      (A) Organ	pMetFam 07-A3.1a	(07) Organic oxygen compounds	(A) Organonitrogen compounds	(3) Carbohydrates and carbohydrate conjugates	(.1) Monosaccharides	(a) Pentoses	166
Inter an 0.8      108) Phenyloppandid and polyketides      123        Pherfan 0.8+1      108) Phenyloppandid and polyketides      133        Pherfan 0.8+1      108) Phenyloppandid and polyketides      131        Pherfan 0.8+1      108) Phenyloppandid and polyketides      101        108) Phenyloppandid and polyketides      102      119        Pherfan 0.8+1      108) Phenyloppandid and polyketides      102        101      108) Phenyloppandid and polyketides      102      119        Pherfan 0.8+1      108      102      119	pMetFam 07-A3.2a	(07) Organic oxygen compounds	(A) Organonitrogen compounds	(3) Carbohydrates and carbohydrate conjugates	(.2) Glycosyl compounds	(a) C-alycosyl compounds	603
Inter Tun GeA      (B) Phenylopopanoids and polykeides      (A) Silbenes      7        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Linear diss/heppanoids      (D) Linear diss/heppanoids      128        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      113        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      113        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      113        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      113        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      21        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      23        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Angula ptransocumarins      23        PMeF ang. GeA      (B) Phenylopopanoids and polykeides      (D) Comarine and derivatives      (D) Phenylopopanoids and polykeide	pMetFam_08	(08) Phenylpropanoids and polyketides					123
inflet Tune 3-B      (B) Phenyling pandict and polykettes      (B) Danyling pandict and polykettes      (B) Phenyling pandict and polykettes      (B) Phenyling pandict and polykettes      (D) Countaries and detivatives      (B) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Countaries and detivatives      (D) Phenyling pandicts and polykettes      (D) Phenyling pandicts and pol	pMetFam_08-A	(08) Phenylpropanoids and polyketides	(A) Stilbenes				7
infertances      (1) <td< td=""><td>pMetFam_08-B1</td><td>(08) Phenylpropanoids and polyketides</td><td>(B) Diarylheptanoids</td><td>(1) Linear diarylheptanoids</td><td></td><td></td><td>139</td></td<>	pMetFam_08-B1	(08) Phenylpropanoids and polyketides	(B) Diarylheptanoids	(1) Linear diarylheptanoids			139
phefer an 0-0-0(00) Phenylpropandica and polykeides(D) Coumains and derivatives(1) Pyranocoumains(1) Angular pyranocoumains37phefer an 0-0-21(00) Phenylpropandica and polykeides(D) coumains and derivatives(1) Pyranocoumains(1) Angular pyranocoumains13phefer an 0-0-21(00) Phenylpropandica and polykeides(E) tooliavonids(1) O-metyluade Ioflavonids10phefer an 0-0-22(00) Phenylpropandica and polykeides(E) tooliavonids(1) tooliavanois80phefer an 0-0-22(00) Phenylpropandica and polykeides(E) tooliavonids(2) tooliavanis(1) tooliavanois80phefer an 0-0-23(00) Phenylpropandica and polykeides(E) tooliavonids(1) Furanoisoflavonids10phefer an 0-0-23(00) Phenylpropandica and polykeides(E) tooliavonids(1) Furanoisoflavonids11 Perocapansphefer an 0-0-23(00) Phenylpropandica and polykeides(E) tooliavonids(1) Perocapans713phefer an 0-0-23(00) Phenylpropandica and polykeides(E) tooliavonids(1) Perocapans713phefer an 0-0-24(00) Phenylpropandica and polykeides(E) tooliavonids(1) Perocapans713phefer an 0-0-24(00) Phenylpropandica and polykeides(E) tonamica acids and derivatives(1) Coumain acids and derivatives713phefer an 0-0-24(00) Phenylpropandica and polykeides(E) Hydrosycinamica acids and derivatives(1) Coumain acids and derivatives713phefer an 0-0-24(00) Phenylpropandica and polykeides(F) Cinnamica acids and derivatives(1) H	pMetFam_08-C1	(08) Phenylpropanoids and polyketides	(C) Tannins	(1) Hydrolyzable tannins			192
index 0.8-D1      (0.8) Prenylpropancids and polyketides      (0.1) Cournains and derivatives      (1.9) Preprocournains      (1.9) Preprocour	pMetFam_08-D	(08) Phenylpropanoids and polyketides	(D) Coumarins and derivatives				39
nMefan_08-02.1  [08] Phenyleropanoids and polykeides  [0] Counsins and derivatives  [2] biolavonois  107-metylated isolavonois  24    pMefan_08-21.0  [08] Phenyleropanoids and polykeides  [2] Isolavonois  (1) On-metylated isolavonois  30    pMefan_08-22.3  [08] Phenyleropanoids and polykeides  [2] Isolavonois  (1) Isolavanos  (a) 6-prenylated isolavonoes  30    pMefan_08-23.1  [08] Phenyleropanoids and polykeides  [2] Isolavonoids  (3) Furancisolavonoids  (1) Perocarpans  436    pMefan_08-71.0  [08] Phenyleropanoids and polykeides  [2] Isolavonoids  (1) Consanio acids and derivatives  73    pMefan_08-72.1  [08] Phenyleropanoids and polykeides  [1] Consanio acids and derivatives  (1) Perocarpans  73    pMefan_08-72.1  [08] Phenyleropanoids and polykeides  [1] Consanio acids and derivatives  (2) Hydrovycinnamic acids and derivatives  73    pMefan_08-72.1  [08] Phenyleropanoids and polykeides  [1] Consanio acids and derivatives  (2) Hydrovycinnamic acids and derivatives  (3) Furancisolavonoids  73    pMefan_08-72.2  [08] Phenyleropanoids and polykeides  [1] Consanio acids and derivatives  (2) Hydrovycinnamic acids and derivati	pMetFam_08-D1.1	(08) Phenylpropanoids and polyketides	(D) Coumarins and derivatives	(1) Pyranocoumarins	(, 1) Angular pyranocoumarins		71
pMeFan_09-E1      (08) Phenylpropanoids and polykeides      (E) Isoflavonoids      (2) Isoflavano      (3) Phenylpropanoids and polykeides      (a) Phenylpropanoids and polykeides      (a) Phenylpropanoids and polykeides      (a) Phenylpropanoids and polykeides      (b) Isoflavanoids      (1) Isoflavanois      (a) Phenylpropanoids and polykeides      (b) Isoflavanoids      (c) Isoflavanois      (c) Iso	pMetFam_08-D2.1	(08) Phenylpropanoids and polyketides	(D) Coumarins and derivatives	(2) Hydroxycoumarins	(.1) 7-hydroxycoumarins		135
nmmet m. 08-62.1      (08) Phenylptropanoids and polyketides      (E) Isoflavonoids      (2) Isoflavanos      (2) Isoflavanos </td <td>pMetFam_08-E1</td> <td>(08) Phenylpropanoids and polyketides</td> <td>(E) Isoflavonoids</td> <td>(1) O-methylated isoflavonoids</td> <td></td> <td></td> <td>24</td>	pMetFam_08-E1	(08) Phenylpropanoids and polyketides	(E) Isoflavonoids	(1) O-methylated isoflavonoids			24
pMeFan_09-E2_2a  (a)B Phenylteropanoids and polyketides  (b) Isoflavonoids  (c) Isoflavonoids	pMetFam_08-E2.1	(08) Phenylpropanoids and polyketides	(E) Isoflavonoids	(2) Isoflavans	(.1) Isoflavanols		80
pMef an_02-53      (08) Phenylpropancids and polyketides      (E) Isoflavonoids      (3) Furancisoflavonoids      (1) Phenoganoids      (3) Furancisoflavonoids      (1) Phenoganoids      (1) Phenoganoids </td <td>pMetFam_08-E2.2a</td> <td>(08) Phenylpropanoids and polyketides</td> <td>(E) Isoflavonoids</td> <td>(2) Isoflavans</td> <td>(.2) Isoflavanones</td> <td>(a) 6-prenylated isoflavanones</td> <td>530</td>	pMetFam_08-E2.2a	(08) Phenylpropanoids and polyketides	(E) Isoflavonoids	(2) Isoflavans	(.2) Isoflavanones	(a) 6-prenylated isoflavanones	530
pMefan_02F-21    (08) Phenylpropanoids and polyketides    (E) Isoflavonoids    (1) Percoarpans    713      pMefan_02F-27    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    72      pMefan_02F-27    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    72      pMefan_02F-27    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    72      pMefan_02F-27    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (1) Couraric acids and derivatives    73      pMefan_02F-27    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (1) Couraric acids and derivatives    (2) Hydroxycinnamic acid and etivatives    (2) Hydroxycinnamic acids and derivatives    (2) Hydroxycinnamic acids and derivatives    (2) Hydroxycinnamic acids and derivatives    (2) Hydroxycinnamic acid and etivatives    (2) Hydroxycinnamic acids and etivatives    (2) Hydroxycinnamic acid and etivatives    (2) Hydroxycinnamic acids and etivatives    (2) Hydroxycinnamic acid and etivatives    (2) Hydroxycinnamic acids and etivatives    (2) Hydroxycinnamic ac	pMetFam_08-E3	(08) Phenylpropanoids and polyketides	(E) Isoflavonoids	(3) Furanoisoflavonoids			496
pMeFan_09-F2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acid and derivatives    (10 Cinnamic acid setes)    52      pMeFan_09-F2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acid and derivatives    (11 Cinnamic acid setes)    38      pMeFan_09-F2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acid and derivatives    (11 Cinnamic acid setes)    38      pMeFan_09-F2.2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acid and derivatives    (11 Cyloawycinnamic acid setes)    38      pMeFan_09-F2.2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acid and derivatives    (21 Hydrowycinnamic acid setes)    (a) Counario acid setes    38      pMeFan_09-F2.2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (21 Hydrowycinnamic acid setes)    (a) Counario acid setes    70      pMeFan_09-F2.1    (08) Phenylpropanoids and polyketides    (5) Flavonoids    (10 -metylated flavonoids    (10 -metylated flavonoids    37    72      pMeFan_09-F2.1    (08) Phenylpropanoids and polyketides    (5) Flavonoid    (10 -metylated flavonoids    (37metylated flavonoids    73    73      pMeFan_09-F2.1    (08) Phenylpropanoids and polyketides    (5) Flavonid glycosides    (11 Flavonid C) glycosides    73<	pMetFam_08-E3.1	(08) Phenylpropanoids and polyketides	(E) Isoflavonoids	(3) Furanoisoflavonoids	(.1) Pterocarpans		713
pMeFan_08-F1    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (2) Hydroxycinnamic acids and derivatives    (38)      pMeFan_08-F2.1    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (2) Hydroxycinnamic acids and derivatives    (1) Couranic acids and derivatives    (38)      pMeFan_08-F2.1    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (2) Hydroxycinnamic acids and	pMetFam_08-F	(08) Phenylpropanoids and polyketides	(F) Cinnamic acids and derivatives				21
pMerf an., 08-F2    (08) Phenylpropanicks and polyketides    (F) Cinnamic acids and derivatives    (11 Cournaic acids and derivatives)    388      pMerf an., 08-F2.2    (08) Phenylpropanicks and polyketides    (F) Cinnamic acids and derivatives    (12 hydroxycinnamic acids and derivatives)    (12 hydroxycinnamic acids and derivatives)    12 hydroxycinnamic acids and derivatives    (21 hydroxycinnamic acids and derivatives)    (a) Couraic acid esters    703      PMerf an_,08-F21    (08) Phenylpropancids and polyketides    (C) Flavoncids    (D) -methylated flavoncids    (10 -methylated flavoncids)    (21 hydroxycinnamic acids and derivatives)    (21 hydroxycinnamic acids and derivatives) <td>pMetFam_08-F1</td> <td>(08) Phenylpropanoids and polyketides</td> <td>(F) Cinnamic acids and derivatives</td> <td>(1) Cinnamic acid esters</td> <td></td> <td></td> <td>52</td>	pMetFam_08-F1	(08) Phenylpropanoids and polyketides	(F) Cinnamic acids and derivatives	(1) Cinnamic acid esters			52
pMefan_08-F2.1    (08) Phenylpropanoids and polyketides    (F) Cinnanic acids and derivatives    (10 Countaic acids and derivatives    (16 Countaic acids and derivatives    (18 Countaic acids and derivatives    (18 Countaic acids and derivatives    (21 Hydroxycinnamic acids and derivatives    (21 Hydroxycinaxmic acids and	pMetFam_08-F2	(08) Phenylpropanoids and polyketides	(F) Cinnamic acids and derivatives	(2) Hydroxycinnamic acids and derivatives			388
pMefan_09-F2.2    (08) Phenylpropanoids and polyketides    (F) Cinnamic acids and derivatives    (2) Hydroxycinnamic acids exters    (2) Hydroxycinamic acids exters    (2) Hydroxy	pMetFam_08-F2.1	(08) Phenylpropanoids and polyketides	(F) Cinnamic acids and derivatives	(2) Hydroxycinnamic acids and derivatives	(.1) Coumaric acids and derivatives		1669
pMeFan_08-62_2s    (08) Phenylpropanoids and polyketides    (F) Cinnanic acids and derivatives    (2) Hydroxycinnamic acid esters    (a) Couraic acid esters    7703      pMeFan_08-63    (08) Phenylpropanoids and polyketides    (G) Flavonoids    (10 - methylated flavonoids    721      pMeFan_08-61    (08) Phenylpropanoids and polyketides    (G) Flavonoids    (10 - methylated flavonoids    (18 - O-methylated flavonoids    723      pMeFan_08-612    (08) Phenylpropanoids and polyketides    (G) Flavonoids    (10 - methylated flavonoids    (2) - O-methylated flavonoids    723      pMeFan_08-613    (08) Phenylpropanoids and polyketides    (G) Flavonoids    (10 - methylated flavonoids    (2) - O-methylated flavonoids    723      pMeFan_08-614    (08) Phenylpropanoids and polyketides    (G) Flavonoids    (10 - methylated flavonoids    (3) - O-methylated flavonoids    733      pMeFan_08-624    (08) Phenylpropanoids and polyketides    (G) Flavonoids    (2) Flavonoid glycosides    (1) Flavonoid O-glycosides    733      pMeFan_08-6251    (08) Phenylpropanoids and polyketides    (G) Flavonoid S    (2) Flavonoid glycosides    (1) Flavonoid O-glycosides    (1) Flavonoid O-g	pMetFam_08-F2.2	(08) Phenylpropanoids and polyketides	(F) Cinnamic acids and derivatives	(2) Hydroxycinnamic acids and derivatives	(.2) Hydroxycinnamic acid esters		26
pMeFam_00-G    (08) Phenylpropanoids and polyketides    (05) Flavonids    (10 - methylated flavonoids    (12) - O-methylated flavonoids    (13) - O-methylated fl	pMetFam_08-F2.2a	(08) Phenylpropanoids and polyketides	(F) Cinnamic acids and derivatives	(2) Hydroxycinnamic acids and derivatives	(.2) Hydroxycinnamic acid esters	(a) Coumaric acid esters	1703
pMeFam_08-G11  (08) Phenylpropanoids and polykeides  (0) Flavonoids  (10-methylated flavonoids  (10-0-methylated flavonoids  (10-0-0-methylated flavonoids  (10-0-0-methylated flavonoids  (10-0-0-methylated flavonoids  (10-0-0-methylated flavonoids  (10-0-0-methylated flavonoids  (10-0-0-0-0-0-methylated flavonoids  (10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	pMetFam_08-G	(08) Phenylpropanoids and polyketides	(G) Flavonoids				221
pMeE arm_08-G12  (08) Phenylpropanoids and polyketides  (05) Flavonoids  (10 - metylated flavonoids  (2) 3'-O-metylated flavonoids  (2) 5'-O    pMeE arm_08-G13  (08) Phenylpropanoids and polyketides  (05) Flavonoids  (10 - metylated flavonoids  (2) 7'-O  (3) 7'-O  (	pMetFam_08-G1.1	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) O-methylated flavonoids	(.1) 6-O-methylated flavonoids		32
pMeFan_Q0-G13  (08) Phenylpropanoids and polykeides  (0) Flavonoids  (10 - methylated flavonoids  (3) 7-0-methylated flavonoids  (25)    pMeFan_Q0-G13  (08) Phenylpropanoids and polykeides  (0) Flavonoids  (10 - methylated flavonoids  (3) 7-0-methylated flavonoid flavonoids  (3) 7-0-methylated flavonoids  (3) 7-0-methylated flavonoids  (3) 7-0-methylate	pMetFam_08-G1.2	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) O-methylated flavonoids	(.2) 3'-O-methylated flavonoids		67
pMeEra08-G14  (08) Phenylpropanoids and polyketides  (G) Flavonoids  (10)-methylated flavonoids  (4) 8-O-methylated flavonoids  573    pMeFam08-G2  (08) Phenylpropanoids and polyketides  (G) Flavonoid S  (2) Flavonoid Sylcosides  11    pMeFam08-G2.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid S  (2) Flavonoid Sylcosides  11    pMeFam08-G2.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid S  (2) Flavonoid Sylcosides  (1) Flavonoid O-glycosides  (a) Anhocyanins  358    pMeFam08-G2.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid S  (2) Flavonoid Sylcosides  (1) Flavonoid O-glycosides  (a) Anhocyanins  358    pMeFam08-G2.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid Sylcosides  (1) Flavonoid O-glycosides  (b) Flavonoid O-glycosides  (c) Flavonoid O-glycosides  152    pMeFam08-G2.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid Sylcosides  (1) Flavonoid O-glycosides  (c) Flavonoid O-glycosides  152    pMeFam08-G3.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid Sylcosides  (1) Flavonoid O-glycosides  (c) Flavonoid O-glycosides  143    pMeFam08-G3.1  (08) Phenylpropanoids and polyketides  (G) Flavonoid Sylcosides  (1) Flavonoid O-glycosides  (1) Flavonoid O-glycosides  147	pMetFam_08-G1.3	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) O-methylated flavonoids	(.3) 7-0-methylated flavonoids		295
pMeFan_00-62  (08) Phenylpropanoids and polyketides  (0.6) Flavonidd  (0.6) Fla	pMetFam_08-G1.4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) O-methylated flavonoids	(.4) 8-0-methylated flavonoids		573
pMeFam_08-G2.1  (08) Phenylpropanoids and polykeides  (0.5) Flavonoid (0.5) gloosides  (11) Flavonoid 0glycosides  (25) Flavonoid (0.5) gloosides  (10) Flavonoid 0glycosides  (10) Flavonid 0glycosides  (10) Flavonid 0glycosides  (10) Flavonoid 0glycosides  (10) Flavonoid 0glycosides  (10) Flavonid 0glycosides  (10) Flavonid 0glycosides  (10) Flavonid 0g	pMetFam_08-G2	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(2) Flavonoid glycosides			91
pMeFam_08-62_1a  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  136    pMeFam_08-62_1b  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  152    pMeFam_08-62_1c  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  152    pMeFam_08-62_1c  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  152    pMeFam_08-63_1  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  152    pMeFam_08-63_1  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  154    pMeFam_08-63_1  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  437    pMeFam_08-63.1  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  470    pMeFam_08-63.1  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  470    pMeFam_08-63.3  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  470    pMeFam_08-63.3  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  470    pMeFam_08-63.3  (08) Phenylpropanoids and polyketides  (0.) Flavonoid J.  400    pMeFam_08-63.3  (08) Phenylpropanoids and polyketides  (0.) Flavonoids  400    pMeFam_08-63.3  (08) Phenylpropanoids and polyketides  (0.) Flavonoids  400	pMetFam_08-G2.1	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(2) Flavonoid glycosides	(. 1) Flavonoid O-glycosides		255
pMeFam_Q8-G2.1b      (08) Phenylpropanoids and polyketides      (G) Flavonoid      (S) Flavonoid glycosides      (1) Flavonoid D-glycosides      (b) Flavonoid D-glycouroides      152        pMeFam_Q8-G2.1b      (08) Phenylpropanoids and polyketides      (G) Flavonoid      (G) Flavonoid D-glycosides      (G) Flavonoid D-glycosides      152        pMeFam_Q8-G2.1b      (08) Phenylpropanoids and polyketides      (G) Flavonoids      (G) Flavonoid D-glycosides      (G) Flavonoid D-glycosides      152        pMeFam_Q8-G3.1      (08) Phenylpropanoids and polyketides      (G) Flavonoid S      (G) Flavonoid D-glycosides      437        pMeFam_Q8-G3.1      (08) Phenylpropanoids and polyketides      (G) Flavonoid S      (G) Flavonoid S      430        pMeFam_Q8-G3.3      (08) Phenylpropanoids and polyketides      (G) Flavonoid S      (G) Flavonoid S      430        pMeFam_Q8-G3.3      (08) Phenylpropanoids and polyketides      (G) Flavonoid S      (G) Flavonoid S      430        pMeFam_Q8-G3.3      (08) Phenylpropanoids and polyketides      (G) Flavonoid S      (G) Flavonoid S      430        pMeFam_Q8-G3.3      (08) Phenylpropanoids and polyketides      (G) Flavonoid S      (G) Flavonoid S      430        pMeFam_Q8-G3.3      (08) Phenylpropanoids and polyketide	pMetFam_08-G2.1a	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(2) Flavonoid glycosides	(.1) Flavonoid O-glycosides	(a) Anthocyanins	136
pMeFam_08-G2 To: (08)Phenylpropanoids and polyketides (0)Flavonoids      (2)Flavonoid givosides      (1)Flavonoid -givosides      (o)Flavonoid-3-D-glycosides      1154        pMeFam_08-G3      (08)Phenylpropanoids and polyketides (0)Flavonoids      (3)Hydrowyllavonoids      437        PMeFam_08-G3.1      (08)Phenylpropanoids and polyketides (0)Flavonoids      (3)Hydrowyllavonoids      (115-hydrowyllavonoids      470        pMeFam_08-G3.1      (08)Phenylpropanoids and polyketides (10)Flavonoids      (3)Hydrowyllavonoids      (125-hydrowyllavonoids      470        pMeFam_08-G3.3      (08)Phenylpropanoids and polyketides (10)Flavonoids      (3)Hydrowyllavonoids      (2)4'-hydrowyllavonoids      505        PMeFam_08-G3.3      (08)Phenylpropanoids and polyketides (10)Flavonoids      (3)Hydrowyllavonoids      (2)4'-hydrowyllavonoids      505	pMetFam_08-G2.1b	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(2) Flavonoid glycosides	(. 1) Flavonoid O-glycosides	(b) Flavonoid O-glucuronides	152
pMetFam_08-G3  (08) Phenylpropanoids and polyketides  (G) Flavonoids  (3) Hydrowylfavonoids  437    pMetFam_08-G3.1  (08) Phenylpropanoids and polyketides  (G) Flavonoids  (3) Hydrowylfavonoids  470    pMetFam_08-G3.2  (08) Phenylpropanoids and polyketides  (G) Flavonoids  (3) Hydrowylfavonoids  470    pMetFam_08-G3.3  (08) Phenylpropanoids and polyketides  (G) Flavonoids  (3) Hydrowylfavonoids  505    PMetFam_08-G3.3  (08) Phenylpropanoids and polyketides  (G) Flavonoids  (3) Hydrowylfavonoids  (3) T-hydrowylfavonoids	pMetFam_08-G2.1c	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(2) Flavonoid glycosides	(. 1) Flavonoid O-glycosides	(c) Flavonoid-3-O-glycosides	1154
pMeEar_Q0-G3.1      (08)Phenylpropanoids and polyketides      (3) Flavonoids      470        pMeEar_Q0-G3.2      (08)Phenylpropanoids and polyketides      (5) Flavonoids      505        pMeEar_Q0-G3.3      (08)Phenylpropanoids and polyketides      (5) Flavonoids      505        pMeEar_Q0-G3.3      (08)Phenylpropanoids and polyketides      (5) Flavonoids      (3) Hydrowylfavonoids      505	pMetFam_08-G3	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(3) Hydroxyflavonoids			437
pMetFam_08-G3.2 (08) Phenylpropanoids and polyketides (G) Flavonoids (3) Hydroxyflavonoids (.2) 4-hydroxyflavonoids 505 pMetFam_08-G3.3 (08) Phenylpropanoids and polyketides (G) Flavonoids (3) Hydroxyflavonoids (.3) 7-hydroxyflavonoids 1001	pMetFam_08-G3.1	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(3) Hydroxyflavonoids	(. 1) 5-hydroxyflavonoids		470
pMetFam_08-G3.3 (08) Phenylpropanoids and polyketides (G) Flavonoids (3) Hydroxyflavonoids (.3) 7-hydroxyflavonoids 1001	pMetFam_08-G3.2	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(3) Hydroxyflavonoids	(.2) 4'-hydroxyflavonoids		505
	pMetFam_08-G3.3	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(3) Hydroxyflavonoids	(.3) 7-hydroxyflavonoids		1001
**Table 3**: Linear models calculated for the prediction variables (preV): plant species richness (pRich) and plant species Shannon (pShan) and the response variables (resV): LC-MS feature richness (fRich), LC-MS feature Shannon (fShan) and LC-MS feature Evenness (fEven). For each model, the coefficient of determination (R<sup>2</sup>), root means square error (RMSE) and p-values (p) are shown. The positive and negative values shown in square brackets indicate the direction of the relationship between the two variables. Linear models were calculated as a combination of all species (all) and for each species separately. Species name abbreviations can be found in Table 1 a (grass species) and b (herb species). Detailed results are also available in Suppl. Table 5.

	resV		fRich		f	Shan		f	Even	
preV	spec	R <sup>2</sup>	RMSE	р	R <sup>2</sup>	RMSE	р	R <sup>2</sup>	RMSE	р
pRich	all	[-] 0.28	135.90	0.03	[-] 0.28	2.05	0.04	[-] 0.25	0.32	0.05
pRich	AO	[-] 0.37	83.06	0.03	[-] 0.53	1.44	0.09	[-] 0.55	0.22	0.11
pRich	AP	[-] 0.45	62.51	0.30	[-] 0.43	0.88	0.10	[-] 0.58	0.13	0.10
pRich	DG	[-] 0.41	41.66	0.08	[-] 0.56	1.32	0.76	[-] 0.56	0.22	0.80
pRich	FR	[+] 0.46	41.93	0.63	[+] 0.74	0.23	0.02	[+] 0.75	0.04	0.02
pRich	HL	[-] 0.64	56.34	0.01	[-] 0.42	0.76	0.16	[-] 0.41	0.12	0.18
pRich	PP	[+] 0.19	79.31	0.82	[-] 0.20	1.11	0.38	[-] 0.20	0.18	0.42
pRich	PA	[-] 0.65	45.03	0.43	[-] 0.79	0.54	0.17	[-] 0.78	0.10	0.17
pRich	CJ	[+] 0.57	65.53	0.15	[+] 0.69	0.12	0.11	[+] 0.46	0.01	0.24
pRich	GP	[-] 0.49	34.57	0.58	[-] 0.48	0.13	0.26	[-] 0.53	0.01	0.22
pRich	KA	[+] 0.48	80.65	0.73	[+] 0.50	0.16	0.64	[+] 0.42	0.01	0.58
pRich	LV	[-] 0.22	60.62	0.01	[+] 0.26	0.16	0.90	[+] 0.28	0.02	0.02
pRich	PL	[-] 0.23	62.16	0.01	[-] 0.25	0.18	0.08	[-] 0.30	0.02	0.35
pRich	RA	[+] 0.50	37.05	0.93	[+] 0.56	0.28	0.23	[+] 0.56	0.05	0.24
pShan	all	[-] 0.25	136.33	0.21	[-] 0.27	2.06	0.13	[-] 0.25	0.32	0.16
pShan	AO	[-] 0.41	79.89	0.00	[-] 0.54	1.52	0.32	[-] 0.56	0.24	0.39
pShan	AP	[-] 0.51	60.01	0.13	[-] 0.59	0.80	0.04	[-] 0.62	0.12	0.04
pShan	DG	[-] 0.52	42.29	0.02	[-] 0.68	1.29	0.26	[-] 0.68	0.22	0.29
pShan	FR	[-] 0.51	40.49	0.79	[-] 0.58	0.23	0.88	[-] 0.59	0.04	0.94
pShan	HL	[-] 0.51	57.21	0.02	[-] 0.48	0.78	0.25	[-] 0.48	0.13	0.29
pShan	PP	[+] 0.16	79.01	1.00	[-] 0.22	1.10	0.10	[-] 0.21	0.18	0.11
pShan	PA	[-] 0.49	46.30	0.86	[-] 0.51	0.47	0.81	[-] 0.50	0.08	0.82
pShan	CJ	[+] 0.55	68.06	0.30	[+] 0.64	0.13	0.23	[+] 0.55	0.01	0.35
pShan	GP	[-] 0.54	33.25	0.23	[-] 0.53	0.12	0.04	[-] 0.68	0.01	0.05
pShan	KA	[-] 0.56	81.60	0.63	[-] 0.55	0.16	0.54	[-] 0.48	0.01	0.50
pShan	LV	[-] 0.25	60.30	0.00	[-] 0.17	0.16	0.59	[+] 0.31	0.02	0.16
pShan	PL	[-] 0.26	64.16	0.05	[-] 0.22	0.18	0.10	[-] 0.21	0.02	0.26
pShan	RA	[+] 0.52	36.75	0.20	[+] 0.43	0.29	0.69	[+] 0.41	0.05	0.74

# **Competing interests**

The authors declare no competing interests.

### Author contributions

SM designed the experiment, conducted sampling and measurements, prepared and curated the data set, conducted the raw data pre-processing, conceptualised and designed the data analysis performed the statistical analysis, designed and created figures and tables, and wrote the manuscript. SN contributed to data management and repository administration, provided the infrastructure for data acquisition. All authors reviewed and approved the manuscript.

# Acknowledgements

The authors gratefully acknowledge the support of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816. The authors also thank the technical staff of the Jena Experiment (DFG, FOR 456/1451), the coordinator Anne Ebeling as well as many student helpers for maintaining the experimental field site and their support during measurements. Furthermore, the authors thank the technical staff of IPB Halle for their support and maintenance of the technical equipment used during the measurements. This paper has been conducted in the framework of the iDiv-Flexpool – the internal funding mechanism of the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816.

Appendix

See Appendix – Chapter 3

# **DISCUSSION**

The main objectives in this thesis included the development of an automated workflow to enable the analysis of ecometabolomics data across highly diverse species and environments, the evaluation of available statistical tools and their power to be integrated with ecometabolomics experiments, and the investigation of secondary plant metabolite profile changes across *season* and *diversity*.

Season, in this study, describes a time point of sampling within the growing phase of grassland plant species, ranging from spring across summer to autumn. This includes the collective factors of weather dynamics, including light, water, and nutrient availability, that impact plant growth and productivity without being recorded separately. Moreover, given the Jena-Experiment-specific conditions, season, here, also includes changes to the immediate plant community in the plots through maintenance actions, such as weeding and mowing that are completed up to twice a year, resulting in infrequently influenced plant communities on a non-reproducible level. For example, in plots with mainly grass species accounting for the community richness, usually only a few weed species, e.g. larger herbs, are weeded out, leaving the majority of the plot undisturbed. In contrast, plots with dominant herb communities got weeded out thoroughly, leaving large patches of dug-up bare soil in the plots behind, thereby changing soil profiles and nutrient availability and herbivory pressure. Hence, plants will have to invest all available resources to grow back to reproduce within their growing period; in contrast to the spring sample collection, where the plant had about 6 months of the undisturbed growing period, early summer sampling took place right after the first weeding and mowing action in the year, resulting in an overall lower plant species richness. Late summer samples were collected before each year's second mowing and weeding. Hence, the richness of plant species was generally higher with more flowering species. Autumn samples were collected a few weeks after the second mowing and weeding. At this point, most plants had already fully matured. Therefore, the metabolite data collected in this thesis are not comprehensively representative of general dynamics in the metabolite profiles of grassland plant species but gave the unique opportunity to use a complex data set collected from a none-uniform environment to create a workflow that is capable of handling metabolite profiles with a high biological variance. Therefore, the diversity that was used to draw conclusions about the interaction of the plant species communities and the metabolite profiles, and is discussed in this study, is the actual species richness and abundance recorded in each plot prior to each sample collection, rather than the designed TBE diversity levels (Chapter 3).

Performing ecometabolomics studies across multiple species includes a range of obstacles that need to be addressed properly to ensure reliable results and conclusion drawing (Marr et al. 2021). If these measures are not taken into account, for instance, the use of quality controls, blanks and randomisation strategies for both sampling and measurements, it may result in over-optimistic results that inevitably lead to conclusions that are not or not entirely supported by the data. Most studies also do not include details about their sampling protocols, including information about the use of blank samples to trace contaminations, randomisation strategies of their sample collection, and measurements (Scherling et al. 2010, Berini et al. 2018, Ristok et al. 2019, Ristok et al. 2022). With few exceptions (Ristok et al. 2019), reproducible strategies regarding data preprocessing, including blank subtraction or removal, batch correction and the handling of missing values, are also often overlooked or not given in detail (Scherling et al. 2010, Berini et al. 2018, Ristok et al. 2019, Ristok et al. 2022). For example, Scherling et al. (2010) reported a significant correlation between plant species diversity and metabolic profiles in some of the tested herb species. However, in this study, the authors do not comprehensively report how these data were acquired or which blanks, quality controls or randomisation strategies were used. This does not mean that their findings are incorrect; it only challenges the data to the point that the conclusion drawing should be done with the uttermost care. Moreover, even dedicated reviews stating key rules for the successful acquisition of metabolomic data do not take into account the relevance of blanks taken while sampling or sample extraction, randomisation while sample collection and measurements, nor the use of QC samples for signal drift control and batch correction (Defossez et al. 2023). Hence, the need for a comprehensive handbook that includes standardised protocols for ecometabolomics studies is one of the highest priorities in developing ecometabolomics experiments and observational studies (Walker et al. 2022).

In general, the amount of data generated in ecometabolomic studies requires careful handling and curation strategies. Biases, for example, are commonly introduced by biological variance and technical deficiencies. Increasing efforts are being taken to improve available data analysis tools (Wang et al. 2016, Marr et al. 2021, Walker et al. 2022). However, no common standard is available yet. This thesis focused on providing a comprehensive workflow that includes sample handling, data curation and preparation steps to ensure the

quality of ecometabolomics data collected from field experiments. One important point is that data handling not only needs to consider the data amount but also the biology-prone dynamics in samples obtained from field experiments in order for the scientist to be able to draw conclusions about underlying mechanisms altering and reflecting the metabolomics profiles. It was already shown that plant metabolite profiles could show a large biological fluctuation under environmental pressure (Scherling et al. 2010). As Berini et al. (2018) discussed, in ecometabolomics, findings and interpretations can be very challenging and small changes in environmental conditions can dramatically affect metabolite profiles. In this thesis, the biological variance was taken into account by introducing a comprehensive randomisation strategy during each sampling in the fields, ensuring that samples were collected across FG and plot specifications. Furthermore, given the rapid changes in the dynamic metabolite profiles across the diurnal circle and environmental conditions, keeping sampling collection in a narrow time frame and recording the exact time of sampling can contribute to the reliability of the ecometabolomics data. However, these data are still only rarely stated in ecometabolomics studies (Scherling et al. 2010, Berini et al. 2018, Marr et al. 2021, Ristok et al. 2022). Another often overlooked obstacle is using blank samples, not only in the lab or as run-in samples while starting measurements, but also directly in the fields to trace back contaminations. These include volatiles of unknown origins, abrasion from rubber gloves or sample tubes and organic materials that are introduced while sampling. Tracing all these sources of contamination and excluding features from the associated measurement is an essential step towards reliability increase and data quality enhancement.

Moreover, the inclusion of quality control samples (QCs) has been shown to be an important step in ecometabolomics LC-MS-based studies, to overcome technical limitations. For example, the signal shift is a common issue when using LC-MS analysis methods, as the instruments get clogged with sample extract, and the measurement capacity decreases over time. Addressing signal drift and other machine-dependent biases is crucial in metabolomic analysis, as the importance of a certain metabolite is defined by its relative changes in abundance. Therefore, it must be ensured that any metabolite's intensity can be directly compared to the measured intensities in other samples (Fiehn 2002). To be able to address these issues and keep samples comparable across multiple batches, QC samples, which are aliquots of the same sample that gets measured multiple times within a batch, are used to correct for unwanted shifts of the measured intensities (Chapter 1: Marr et al. 2021). As Walker et al. (2022) pointed out, underlying chemical structures, including degrees of environmental stress on metabolite profile composition and abundance remain mainly unpredictable (Berini et al. 2018). In order to be able to link changes in plant metabolite profiles to classical functional traits, significant overlap of these data is required, with harmonised strategies for metabolomic data acquisition across studies, species and ecosystems (Walker et al. 2022).

One of the major obstacles in multi-species studies is the huge number of missing values in the resulting data matrix, as many features are unique to certain species and are, therefore, not measured in the other species in the experiment. PLS, RF and SVM are among the common choices to analyse zero-inflated data sets (Defossez et al. 2021, Marr et al. 2021) as they are less biased than other ordinations (Walker et al. 2022). Especially in multispecies studies with very distinctive secondary metabolite fingerprints, the generated data matrices can include a high number of missing values (see Chapter 1 for an explanation) that should be considered before using the processed data in statistical analysis. Therefore, in this thesis, the usability of differently prepared matrices with different statistical methods was tested to show how reliable classifications were based on the level of background similarity. Statistical methods that are already successfully used in classical metabolomics experiments were tested: random forest (RF), support vector machines (SVM) and partial least squares (PLS). Performance tests and evaluations were performed on three levels of distinctiveness: functional-group-wise, species wise and across treatment within a species. Here, the data matrix was either used with the original zeros as present after the pre-processing step or with distinctive small values to replace zeros in the data matrix. Choosing a suitable classification method mainly depended on the complexity of the provided background for classification. The choice of the data matrix depending on the model also improved the performance. For example, comparing the model performance, we found the highest accuracies in PLS and RF. PLS, SVM and RF worked equally well on very distinguishable metabolite profiles, while PLS and RF provided a greater classification power when the background spectra were more similar. The best "statistical tool-data matrix" combination highly depended on the complexity level used as a reference for classification (see discussion Chapter 2), indicating that secondary metabolite profiles include highly species-specific parts – the secondary metabolite fingerprint –, and parts responding to environmental changes – the dynamic profile.

All species tested in this thesis showed a distinctive pattern of species-specific metabolite fingerprints and dynamic profiles (see Chapter 1). The terms metabolomic profiling and fingerprinting are vastly used in the research community with an often slightly different focus. For example, Weston et al. (2015) used metabolomic

profiling to describe quantity changes in a specific subset of metabolites that respond to environmental changes. According to Fiehn (2002), identifying and quantifying pre-selected metabolites in a sample is referred to as metabolite profiling, for instance, the investigation of a specific metabolite family, such as isoprenoids and carbohydrates. In comparison, others argue that the term metabolite profiling is used to describe the investigation of any metabolite changes as a response to a certain environmental factor or treatment (Kim and Verpoorte 2010, Obata & Fernie 2012). Furthermore, in the literature, the term *fingerprinting* is used to describe the process of classifying samples "according to the origin or their biological relevance" (Fiehn 2002) and to describe detected metabolomic shifts by LC-MS and GC-MS as a result of responses to environmental pressures (Scherling et al. 2010), which also corresponds with metabolite profiling as per definition. Therefore, to avoid confusion and to use clear identifiers to distinguish between methods, findings, and biological characteristics, in this thesis, the terms *metabolite fingerprint* and *dynamic profile* are used to describe the two different areas that the secondary *metabolite profile* of plant leaves is composed of (see discussions Chapters 2 and 3).

As demonstrated in chapter 2 of the thesis, the classification of plant species works reliably across all seasons and plant community dynamics, even in closely related species, although they share a greater overlapping proportion in their secondary metabolite fingerprints. When using the same statistical methods within the same species to distinguish between environmental changes – using the dynamic profile – the results strongly depend on the combination of statistical methods and the choice of a suitable data matrix format. All changes in the environment, such as the season of sample collection, plant species richness and composition in the plots, were reflected in the metabolite profile, mostly in the dynamic part. For metabolites representing conserved phylogenetic reproduction and coping strategies, it can be expected that such metabolites maintain the same importance over the life cycle of an individual plant across seasonal dynamics (Walker et al. 2022). It is unknown to what extent metabolites serve an explicit function, i.e. the proportion between fingerprint and dynamic profile is unknown and might vary greatly between species (Fiehn 2002). Those changes could be accessed by selecting the proportion of features that account for changes in the profiles across environmental dynamics, including classical traits such as developmental stages and plant height. However, separating the effects of each trait or environmental factor will increase the chance of overinterpretation as most of these factors are interconnected.

The findings in this thesis suggest that metabolite profile changes are directly influenced by changes in the plant neighbourhood. These changes in the plant community can be, for example, triggered by seasonal changes, including changing day length and, hence, changing light and water availability, and changing temperatures. Furthermore, fertilization and nutrient availability change throughout the year, causing changes in herbivory activity, terrestrial fauna, and metabolite profiles (Scherling et al. 2010, Richards et al. 2015). Previous studies showed that the plant metabolome also shapes the herbivore pressure within plant communities (Fernandez-Conradi et al. 2021, Philibin et al. 2021, Ristok et al. 2022). As described above, the semi-maintenance, i.e. disturbance of plots up to twice a year, also contributes to changes in the plant community, as some plots are weeded out entirely. In contrast, others remain mainly undisturbed throughout the year. Although the responses to the changing plant diversity were mainly species-specific, we also found similarities in closely related species, i.e. FG grass. In this study, the species combined to FG herb are probably phylogenetically too far and dissimilar to show the same changes in their metabolite profiles. This bio-geo-legacy response was mainly independent of direct plant features such as developmental stage and inflicted damage. Similar to Ristok et al. (2022), in this study, the metabolite richness and diversity was found to differ between FG grass and FG herb species, with grasses generally having fewer metabolites. While grass species mostly rely on physical structures for defence (Massey & Hartley 2009), herb species mostly invest in chemical defence (Cooke & Leishman 2012). As Ristok et al. (2022) pointed out, grass and herb species also vary in their interaction with mycorrhizal fungi, which might enhance the differences between herb and grass metabolite richness and composition.

Variations of physical traits between plant species can support a successful plant community (Scherling et al. 2010). Following this, it can be speculated that the comprehensive coverage of secondary metabolites that effect herbivory and other environmental pressures is beneficial for diverse plant communities as they can be prepared for a broad range of stress factors while not having to invest all resources on their own. Plants may benefit from sharing recourses for secondary metabolites used as a defence against pests and herbivores. Our findings of metabolites in each single species, hence, might be a result of the specific species composition present in each plot. As discussed in chapters 2 and 3 of this thesis, the feature selection revealed that some metabolite families were found to be important for the metabolite profile changes as a response to the environment. In contrast, the same metabolite families were present in other species but seemingly did not contribute to the dynamic profile responses.

As demonstrated in this thesis, the fingerprints in the LC-MS features profiles can be used to identify plant species across environmental dynamics. However, using secondary metabolite profiles for species identification

is usually based on unique metabolites that accurately identify a species, though this can be challenging. For example, a unique feature-based identification requires identifying these unique compounds first and establishing a broad database as a reference that explicitly shows that this feature is unique to only one species. Secondly, these compounds and metabolites might be produced throughout closely related species, making it challenging to distinguish these species solely based on one unique compound. In this thesis, using secondary metabolite profiles as a whole was proposed to be used for species identification, not requiring the identification of each compound or metabolite, but using full fingerprints for out of the raw data. With the fingerprint being conserved across the growing season and across changing community neighbourhoods, as demonstrated in this thesis, here it is also assumable that the secondary metabolite fingerprint can be used to classify species across environmental changes and treatments and that this classification can also be used in multiple species assembles with closely related species. Unlike in most ecometabolomics studies, identification of marker compounds and metabolites unique to a single species is not required. Using the whole fingerprint provides the advantage that the profiles can be used for classification based on the raw data and do not require cost- and time-intensive identifications of single relevant compounds and metabolites.

There are some possible applications for using secondary metabolite fingerprint-based identification. For example, metabolite-assisted crop breeding and fodder for the livestock industry, as a broad collection of weed plants, would automatically identify different species and screen for potentially toxic plants (Fang et al. 2019). Automated identification of species-specific profiles can also help narrow down the number of potentially interesting features and compounds involved in stress responses and identify only those of interest. Possible areas of application could be metabolomic engineering, for instance, to increase the nutritional value of foods of defence metabolites to decrease the need for pesticides and improve plant performance in general (Fiehn 2002). Fast identification of plants can be of interest to farmers to test a field of unknown plants for potentially toxic plants to livestock or beneficial plant species for crop production. Especially in industrial contexts, the benefit from reliable predictions of metabolite abundance and composition in certain plant species will be tremendous, for example, when using such predictions to estimate potential growth and resistance (Lipka et al. 2015, Tohge et al. 2016, Peng et al. 2017).

In the context of global change, it is inevitable to understand the underlying processes of ecosystem function (Berini et al. 2018). The metabolome represents the collective result of all biotic and abiotic interactions of the plant with its environment. Extending ecometabolomics studies across multiple species and across multiple ecosystems will drastically improve the understanding of the role of specialised metabolites in ecosystem services (Walker et al. 2022). Predicting how plants will respond to environmental changes can be challenging as not all parts of the metabolic profiles are equally influenced by different factors (Berini et al. 2018). Metabolomics and prediction of the abundance of certain metabolites can be of interest for example to check whether weeds growing in the field could potentially be toxic to livestock (Weston et al. 2013). Understanding how plants respond to climate change is highly interesting to the research community. However, testing the influence of temperature changes alone is nearly impossible in field experiments (Berini et al. 2018), as other biotic and abiotic interactions cause constant changes to metabolite profiles. On the other hand, conducting such an experiment under controlled greenhouse conditions will also take away these interactions and won't allow for a precise interpretation and estimation of changes to the metabolite profile. Hence, performing these types of field studies, where all interactions with the environment are included in the experimental design, is an important step towards unravelling underlying mechanisms and reliable predictions for future climates.

This thesis showed that secondary metabolite profiles maintain several metabolites as species-specific fingerprints, representing species identity, compared to the dynamic metabolites representing the environmental bio-geo-legacy. The fast profile-based identification of plant species enables the researcher to narrow down the number of potentially interesting compounds and metabolites that take part in stress response. The fast identification will also be of interest in industrial contexts, progressing in the direction of metabolite-assisted breeding strategies. Furthermore, gaining new insights into biochemical diversity interactions and environment-related production of secondary metabolites finds special interest in the exploration of future climate scenarios. There is a growing interest in understanding how warming and changing environmental conditions, in general, will influence certain plant species and their secondary metabolite profiles. In the context of climate change, being able to use LC-MS feature-based databases as a classification tool will have a major impact on the understanding and potential prediction of plant responses. Being able to predict plant responses, especially changes to metabolite profiles, and phytochemistry in general under different conditions will also enable the understanding and prediction of changes in plants when changing the environment into the unknown, such as space stations and other planets.

In this thesis, the discussion was initiated what reliable data handling and curation need in terms of tools, methods, and strategies to enable reliable research in ecometabolomic experiments and to include the natural diversity brought in by plant species into the data handling strategies. Furthermore, it was discussed how established statistical methods could be adapted and made available for the big data sets that incorporate massive amounts of feature data from different backgrounds and contexts without overestimating the power and dependency of independent data. Given that metabolomics profiles can change rapidly under environmental dynamics, including daytime and weather changes, it is exceptionally difficult to acquire reliable data from samples collected in the field. Therefore, handling samples with uttermost care is crucial to ecometabolomics experiments. However, in many studies, using blanks or other quality controls of any kind, including randomisation strategies for sampling and data acquisition, is still not integrated as standard in the studies protocols. Drawing conclusions from those studies challenges the reliability of the findings used to elucidate underlying mechanisms and artefacts that belong to biases introduced by design and lab protocols. As ecometabolomics is rapidly gaining interest in the research community, the need for a handbook that comprehensively describes the obstacles and steps needed to be taken in ecometabolomics studies would drastically increase the data quality and enhance the reliability of the conclusions. Till there is no common consensus found within the community, drawing conclusions from ecometabolomic studies should be done carefully and with an open mind.

# **REFERENCES**

Agerbirk, N., & Olsen, C. E. (2012). Glucosinolate structures in evolution. Phytochemistry, 77, 16-45.

- Agrawal, A. A., & Weber, M. G. (2015). On the study of plant defence and herbivory using comparative approaches: how important are secondary plant compounds. *Ecology Letters*, *18*(10), 985-991.
- Allard, P. M., Genta-Jouve, G., & Wolfender, J. L. (2017). Deep metabolome annotation in natural products research: towards a virtuous cycle in metabolite identification. *Current Opinion in Chemical Biology*, *36*, 40-49.
- Alseekh, S., & Fernie, A. R. (2018). Metabolomics 20 years on: what have we learned and what hurdles remain?. *The Plant Journal*, *94*(6), 933-942.
- Baldwin, I. T., Halitschke, R., Paschold, A., Von Dahl, C. C., & Preston, C. A. (2006). Volatile signaling in plant-plant interactions:" talking trees" in the genomics era. *science*, *311*(5762), 812-815.
- Balvanera, P., Pfisterer, A. B., Buchmann, N., He, J. S., Nakashizuka, T., Raffaelli, D., & Schmid, B. (2006). Quantifying the evidence for biodiversity effects on ecosystem functioning and services. *Ecology letters*, 9(10), 1146-1156.
- Berini, J. L., Brockman, S. A., Hegeman, A. D., Reich, P. B., Muthukrishnan, R., Montgomery, R. A., & Forester, J. D. (2018). Combinations of abiotic factors differentially alter production of plant secondary metabolites in five woody plant species in the boreal-temperate transition zone. *Frontiers in Plant Science*, 9, 1257.
- Cardinale, B. J., Wright, J. P., Cadotte, M. W., Carroll, I. T., Hector, A., Srivastava, D. S., ... & Weis, J. J. (2007). Impacts of plant diversity on biomass production increase through time because of species complementarity. *Proceedings of the National Academy of Sciences*, 104(46), 18123-18128.
- Chiapusio, G., Jassey, V. E., Bellvert, F., Comte, G., Weston, L. A., Delarue, F., ... & Binet, P. (2018). Sphagnum species modulate their phenolic profiles and mycorrhizal colonization of surrounding Andromeda polifolia along peatland microhabitats. *Journal of chemical ecology*, *44*, 1146-1157.
- Cooke, J., & Leishman, M. R. (2012). Tradeoffs between foliar silicon and carbon-based defences: evidence from vegetation communities of contrasting soil types. *Oikos*, 121(12), 2052-2060.
- van Dam, N. M., & Heil, M. (2011). Multitrophic interactions below and above ground: en route to the next level. *Journal of Ecology*, 99(1), 77-88.
- van Dam, N. M., & van der Meijden, E. (2011). A role for metabolomics in plant ecology. *Annual Plant Reviews Volume 43: Biology of Plant Metabolomics, 43,* 87-107.
- Defossez, E., Pitteloud, C., Descombes, P., Glauser, G., Allard, P. M., Walker, T. W., ... & Rasmann, S. (2021). Spatial and evolutionary predictability of phytochemical diversity. *Proceedings of the National Academy* of Sciences, 118(3), e2013344118.
- Defossez, E., Bourquin, J., von Reuss, S., Rasmann, S., & Glauser, G. (2023). Eight key rules for successful datadependent acquisition in mass spectrometry-based metabolomics. *Mass Spectrometry Reviews*, 42(1), 131-143.
- Díaz, S., J. Kattge, J. H. C. Cornelissen, I. J. Wright, S. Lavorel, S. Dray, B. Reu, M. Kleyer, C. Wirth, I. C. Prentice, E. Garnier, G. Bönisch, M. Westoby, H. Poorter, P. B. Reich, A. T. Moles, J. Dickie, A. N. Gillison, A. E. Zanne, J. Chave, S. J. Wright, S. N. Sheremet'ev, H. Jactel, C. Baraloto, B. Cerabolini, S. Pierce, B. Shipley, D. Kirkup, F. Casanoves, J. S. Joswig, A. Günther, V. Falczuk, N. Rüger, M. D. Mahecha, Gorné, L. D. (2016). The global spectrum of plant form and function. *Nature*, *529*(7585), 167-171.
- Ebeling, A., Meyer, S. T., Abbas, M., Eisenhauer, N., Hillebrand, H., Lange, M., ... & Weisser, W. W. (2014). Plant diversity impacts decomposition and herbivory via changes in aboveground arthropods. *PloS one*, 9(9), e106529.
- Ellis, D. I., & Goodacre, R. (2006). Metabolic fingerprinting in disease diagnosis: biomedical applications of infrared and Raman spectroscopy. *Analyst*, *131*(8), 875-885.
- Fahey, J. W., Zalcmann, A. T., & Talalay, P. (2001). The chemical diversity and distribution of glucosinolates and isothiocyanates among plants. *Phytochemistry*, *56*(1), 5-51.
- Fang, C., Fernie, A. R., & Luo, J. (2019). Exploring the diversity of plant metabolism. *Trends in Plant Science*, 24(1), 83-98.
- Fernandez, C., Monnier, Y., Santonja, M., Gallet, C., Weston, L. A., Prévosto, B., ... & Bousquet-Mélou, A. (2016). The impact of competition and allelopathy on the trade-off between plant defense and growth in two contrasting tree species. *Frontiers in Plant Science*, 7, 594.

- Fernandez-Conradi, P., Defossez, E., Delavallade, A., Descombes, P., Pitteloud, C., Glauser, G., ... & Rasmann, S. (2022). The effect of community-wide phytochemical diversity on herbivory reverses from low to high elevation. *Journal of Ecology*, 110(1), 46-56.
- Fernie, A. R., Trethewey, R. N., Krotzky, A. J., & Willmitzer, L. (2004). Metabolite profiling: from diagnostics to systems biology. *Nature reviews molecular cell biology*, *5*(9), 763-769.
- Fiehn, O. (2002). Metabolomics—the link between genotypes and phenotypes. *Functional genomics*, 155-171.
- Gargallo-Garriga, A., Sardans, J., Granda, V., Llusià, J., Peguero, G., Asensio, D., ... & Peñuelas, J. (2020). Different "metabolomic niches" of the highly diverse tree species of the French Guiana rainforests. *Scientific Reports*, *10*(1), 6937.
- Gromski, P. S., Muhamadali, H., Ellis, D. I., Xu, Y., Correa, E., Turner, M. L., & Goodacre, R. (2015). A tutorial review: Metabolomics and partial least squares-discriminant analysis–a marriage of convenience or a shotgun wedding. *Analytica chimica acta*, *879*, 10-23.
- Grubb, C. D., & Abel, S. (2006). Glucosinolate metabolism and its control. *Trends in plant science*, 11(2), 89-100.
- Hoehenwarter, W., van Dongen, J. T., Wienkoop, S., Steinfath, M., Hummel, J., Erban, A., ... & Weckwerth, W. (2008). A rapid approach for phenotype-screening and database independent detection of cSNP/protein polymorphism using mass accuracy precursor alignment. *Proteomics*, 8(20), 4214-4225.
- Hooper, D. U., Chapin III, F. S., Ewel, J. J., Hector, A., Inchausti, P., Lavorel, S., ... & Wardle, D. A. (2005). Effects of biodiversity on ecosystem functioning: a consensus of current knowledge. *Ecological monographs*, 75(1), 3-35.
- Kim, H. K., & Verpoorte, R. (2010). Sample preparation for plant metabolomics. *Phytochemical Analysis: An International Journal of Plant Chemical and Biochemical Techniques*, *21*(1), 4-13.
- Lipka, A. E., Kandianis, C. B., Hudson, M. E., Yu, J., Drnevich, J., Bradbury, P. J., & Gore, M. A. (2015). From association to prediction: statistical methods for the dissection and selection of complex traits in plants. *Current Opinion in Plant Biology*, *24*, 110-118.
- Mandal, S. M., Chakraborty, D., & Dey, S. (2010). Phenolic acids act as signaling molecules in plant-microbe symbioses. *Plant signaling & behavior*, 5(4), 359-368.
- Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H., & Neumann, S. (2021). LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods. *Scientific data*, 8(1), 52.
- Massey, F. P., & Hartley, S. E. (2009). Physical defences wear you down: progressive and irreversible impacts of silica on insect herbivores. *Journal of Animal Ecology*, 78(1), 281-291.
- Nguyen, Q. T., Merlo, M. E., Medema, M. H., Jankevics, A., Breitling, R., & Takano, E. (2012). Metabolomics methods for the synthetic biology of secondary metabolism. *FEBS letters*, *586*(15), 2177-2183.
- Obata, T., & Fernie, A. R. (2012). The use of metabolomics to dissect plant responses to abiotic stresses. *Cellular* and Molecular Life Sciences, 69, 3225-3243.
- Ober, D., & Hartmann, T. (2000). Phylogenetic origin of a secondary pathway: the case of pyrrolizidine alkaloids. *Plant molecular biology*, 44, 445-450.
- Peng, M., Shahzad, R., Gul, A., Subthain, H., Shen, S., Lei, L., ... & Luo, J. (2017). Differentially evolved glucosyltransferases determine natural variation of rice flavone accumulation and UV-tolerance. *Nature communications*, 8(1), 1975.
- Philbin, C. S., Dyer, L. A., Jeffrey, C. S., Glassmire, A. E., & Richards, L. A. (2022). Structural and compositional dimensions of phytochemical diversity in the genus Piper reflect distinct ecological modes of action. *Journal of Ecology*, 110(1), 57-67.
- Quinn, J. C., Kessell, A., & Weston, L. A. (2014). Secondary plant products causing photosensitization in grazing herbivores: Their structure, activity and regulation. *International Journal of Molecular Sciences*, 15(1), 1441-1465.
- Rai, A., Saito, K., & Yamazaki, M. (2017). Integrated omics analysis of specialized metabolism in medicinal plants. *The Plant Journal*, *90*(4), 764-787.
- Richards, L. A., Dyer, L. A., Forister, M. L., Smilanich, A. M., Dodson, C. D., Leonard, M. D., & Jeffrey, C. S. (2015). Phytochemical diversity drives plant–insect community diversity. *Proceedings of the National Academy* of Sciences, 112(35), 10973-10978.
- Ristok, C., Poeschl, Y., Dudenhöffer, J. H., Ebeling, A., Eisenhauer, N., Vergara, F., ... & Weinhold, A. (2019). Plant species richness elicits changes in the metabolome of grassland species via soil biotic legacy. *Journal of Ecology*, *107*(5), 2240-2254.
- Ristok, C., Weinhold, A., Ciobanu, M., Poeschl, Y., Roscher, C., Vergara, F., ... & van Dam, N. M. (2022). Plant diversity effects on herbivory are related to soil biodiversity and plant chemistry. *Journal of Ecology*.

- Rochfort, S. (2005). Metabolomics reviewed: a new "omics" platform technology for systems biology and implications for natural products research. *Journal of natural products*, *68*(12), 1813-1820.
- Sardans, J., Gargallo-Garriga, A., Urban, O., Klem, K., Walker, T. W., Holub, P., ... & Peñuelas, J. (2020). Ecometabolomics for a better understanding of plant responses and acclimation to abiotic factors linked to global change. *Metabolites*, 10(6), 239.
- Scherling, C., Roscher, C., Giavalisco, P., Schulze, E. D., & Weckwerth, W. (2010). Metabolomics unravel contrasting effects of biodiversity on the performance of individual plant species. *PLoS One*, *5*(9), e12569.
- Schuman, M. C., & Baldwin, I. T. (2016). The layers of plant responses to insect herbivores. *Annual review of entomology*, *61*, 373-394.
- Sulpice, R., & McKeown, P. C. (2015). Moving toward a comprehensive map of central plant metabolism. *Annual review of plant biology*, *66*, 187-210.
- Tohge, T., Wendenburg, R., Ishihara, H., Nakabayashi, R., Watanabe, M., Sulpice, R., ... & Fernie, A. R. (2016). Characterization of a recently evolved flavonol-phenylacyltransferase gene provides signatures of natural light selection in Brassicaceae. *Nature Communications*, 7(1), 12399.
- Tugizimana, F., Piater, L., & Dubery, I. (2013). Plant metabolomics: A new frontier in phytochemical analysis. South African Journal of Science, 109(5-6), 01-11.
- Vandenkoornhuyse, P., Quaiser, A., Duhamel, M., Le Van, A., & Dufresne, A. (2015). The importance of the microbiome of the plant holobiont. *New Phytologist*, *206*(4), 1196-1206.
- Violle, C., Navas, M. L., Vile, D., Kazakou, E., Fortunel, C., Hummel, I., & Garnier, E. (2007). Let the concept of trait be functional!. *Oikos*, *116*(5), 882-892.
- Walker, T. W., Alexander, J. M., Allard, P. M., Baines, O., Baldy, V., Bardgett, R. D., ... & Salguero-Gómez, R. (2022). Functional Traits 2.0: The power of the metabolome for ecology. *Journal of Ecology*, *110*(1), 4-20.
- Wang, M., Carver, J. J., Phelan, V. V., Sanchez, L. M., Garg, N., Peng, Y., ... & Bandeira, N. (2016). Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. *Nature biotechnology*, 34(8), 828-837.
- Weston, P. A., Weston, L. A., & Hildebrand, S. (2013). Metabolic profiling in Echium plantagineum: presence of bioactive pyrrolizidine alkaloids and napthoquinones from accessions across southeastern Australia. *Phytochemistry reviews*, 12, 831-837.
- Weston, L. A., Skoneczny, D., Weston, P. A., & Weidenhamer, J. D. (2015). Metabolic profiling: An overview— New approaches for the detection and functional analysis of biologically active secondary plant products. J. Allelochem. Interact, 1, 15-27.
- Wright, I. J., Reich, P. B., Westoby, M., Ackerly, D. D., Baruch, Z., Bongers, F., Cavender-Bares, J., Chapin, T., Cornelissen, J. H. C., Diemer, M., Flexas, J., Garnier, E., Groom, P. K. Gulias, J., Hikosaka, K., Lamont, B. B., Lee, T., Lee, W., Lusk, C., Midgley, J. J., Navas, M.-L., Niinemets, U., Oleksyn, J., Osada, N., Poorter, H., Poot, P., Prior, L., Pyankov, V. I., Roumet, C., Thomas, S. C., Tjoelker, M. G., Veneklaas, E. J., Villar, R. (2004). The worldwide leaf economics spectrum. *Nature*, *428*(6985), 821-827.
- Yang, L., Wen, K. S., Ruan, X., Zhao, Y. X., Wei, F., & Wang, Q. (2018). Response of plant secondary metabolites to environmental factors. *Molecules*, 23(4), 762.
- Yonekura-Sakakibara, K., Nakabayashi, R., Sugawara, S., Tohge, T., Ito, T., Koyanagi, M., ... & Saito, K. (2014). A flavonoid 3-O-glucoside: 2 "-O-glucosyltransferase responsible for terminal modification of pollenspecific flavonols in A rabidopsis thaliana. *The Plant Journal*, 79(5), 769-782.
- Zanne, A. E., D. C. Tank, W. K. Cornwell, J. M. Eastman, S. A. Smith, R. G. FitzJohn, D. J. McGlinn, B. C. O'Meara, A. T. Moles, P. B. Reich, D. L. Royer, D. E. Soltis, P. F. Stevens, M. Westoby, I. J. Wright, L. Aarssen, R. I. Bertin, A. Calaminus, R. Govaerts, F. Hemmings, M. R. Leishman, J. Oleksyn, P. S. Soltis, N. G. Swenson, L. Warman, J. M. Beaulieu (2014). Three keys to the radiation of angiosperms into freezing environments. *Nature*, *506*(7486), 89-92.

# **APPENDIX**

<u>Content</u>

Appendix Chapter 1 Appendix Chapter 2 Appendix Chapter 3 IX XXXIII XXXIX

# APPENDIX – CHAPTER 1

# Workflow LC-MS data processing and curation

# From Field to Feature in Eco-metabolomics:

LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods

Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H., Neumann, S.

December 12, 2020

# Contents

1	Abstract	2
2	Data Repository & Data Import	2
	2.1 Data Repository	2
	2.2 Pre-processing in Galaxy-W4M	2
	2.3 Data Import	3
3	Missing Data Imputation	5
	3.1 Missing Data Index	5
	3.2 Filter Matrix	6
	3.3 Imputation and Log Scaling	6
4	Batch Correction	8
	4.1 Preparation	8
	4.2 Correction	10
	4.3 Evaluation	11
5	Validity Check	17
	5.1 Feature Validity	17
	5.2 Sample Validity	18
6	Processed Data Output	22
	6.1 Data Saving	22
	6.2 Filter Matrix Re-calculation	22
7	Visualisation	22
8	References	28

# **List of Figures**

1	W4M-Galaxy workflow for raw data pre-processing	3
2	Number of principle components for batch correction	9
3	Inter-batch distances before and after batch correction	16
4	Sample validity check	20
5	Processed data visualisation	27

# 1 Abstract

In plants, secondary metabolite profiles provide a unique opportunity to explore seasonal variation and responses to the environment. These include both abiotic and biotic factors. In field experiments, such stress factors occur in combination. This variation alters the plant metabolic profiles in yet uninvestigated ways. This data set contains trait and mass spectrometry data of thirteen grassland species collected at four time points in the growing season in 2017. We collected above-ground vegetative material of seven grass and six herb species that were grown in plant communities with different levels of diversity in the Jena Experiment. For each sample, we recorded visible traits and acquired shoot metabolic profiles on a UPLC-ESI-Qq-TOF-MS. We performed the raw data pre-processing in Galaxy-W4M and prepared the data for statistical analysis in R by applying missing data imputation, batch correction, and validity checks on the features (detailed tutorial is included). This comprehensive data set provides the opportunity to investigate environmental dynamics across diverse neighbourhoods that are reflected in the metabolomic profile.

Our workflow includes the sample preparation, LC-MS measurements, the pre-processing of raw spectra and the data preparation for statistical analysis. The complete workflow is published in Marr et al.  $^1$ 

# 2 Data Repository & Data Import

# 2.1 Data Repository

The metabolomics data was acquired on a liquid chromatography system (ACQUITY UPLC System, Waters Corporation, Milford, USA; LC) coupled with a mass spectrometer (ESI-micrOToF-Q-II, Bruker Daltonics, Bremen, Germany; MS). In addition to the 512 analytical samples, this study includes quality controls, i.e. blanks and a *Quality Control* (*QC*) that was pooled of all samples. All raw data files are available in *MTBLS679 "From Field to Feature in Ecometabolomics: LC-MS Based Metabolite Profiles of Thirteen Grassland Plant Species Reflect-ing Environmental Dynamics" on https://www.ebi.ac.uk/metabolights/MTBLS679. Detailed descriptions of the experimental setup, sample preparation, quality controls and raw data acquisition can be found in the related publication Marr et al. <sup>1</sup>* 

### 2.2 Pre-processing in Galaxy-W4M

Vendor-specific raw data files (.d) were converted to an open file format (.mzML) using CompassXport (version 3.0.9), enabling the usage across different data analysis procedures in vendor-independent environments. In this study, we used the Galaxy-W4M web service <sup>2</sup> (based on XCMS 3.0) to pre-process the raw data spectra as provided in *MTBLS679* in an automated workflow (Figure 1). The workflow enables both the processing of large data sets composed of diverse LC-MS spectra and the resulting diverse data matrix (*https://doi. workflow4metabolomics.org/W4M00008*). For all samples, including blanks and the *QC*, features were picked, grouped, corrected for retention time shifts and grouped again. Adducts and isotopes of the measured features were annotated using CAMERA. A detailed description of the workflow, including the parameter settings, is available in the corresponding manuscript by Marr et al.<sup>1</sup>.



Figure 1: Galaxy-W4M workflow for raw LC-MS pre-processing. The pre-processing includes the following steps: peak picking, grouping, retention time correction, feature annotation, filtering for the region of interest. Parameter settings and tool versions are listed in Table 2 of the corresponding paper by Marr et al. <sup>1</sup>

### 2.3 Data Import

#### **R** Library

Load R libraries for data processing and visualisation. All libraries are referenced in section 8 References <sup>5-14</sup>.

```
# ---- Processing ----
library(BatchCorrMetabolomics)
library(magrittr)
library(RUVSeq)
library(StatTools)
library(vegan)
# ---- Visualisation ----
library(FactoMineR)
library(factoextra)
library(gridExtra)
library(ggsci)
```

#### Import

library(ggtext)

We import the data matrix (*dataMatrix*), including pre-processed LC-MS data of secondary metabolites in the shoots of grassland plant species, and the sample metadata (*sampleMetadata*), including environmental conditions, plant traits and LC-MS data acquisition, as provided in MTBLS679 *https://www.ebi.ac.uk/metabolights/MTBLS679* and *https://doi.workflow4metabolomics.org/W4M00008*. Note that we will refer to the data matrix and the sample metadata as *dataMatrix* and *sampleMetadata*, respectively, throughout the tutorial; regardless of their state of processing.

# ---- Matrix Example ---dataMatrix [50:53, 405:408]

	M176T732	M176T296	M176T262	M177T237
pos_012_2017_A_GERPRA_B081_b_2.A.5_01_8474	0.000	0.000	0.000	0.00
pos_012_2017_B_CENJAC_B073_a_2.B.8_01_8466	2750.832	0.000	0.000	12730.26
pos_012_2017_C_KNAARV_B073_a_2.D.3_01_8494	0.000	4118.352	0.000	0.00
pos_012_2017_D_RANACR_B071_b_2.E.6_01_8455	0.000	0.000	1001.952	28523.63

```
# ---- Metadata Example ----
sampleMetadata[50:53, c("injectionOrder", "batch", "Campaign", "desDiv")] #2, 4, 22
                                             injectionOrder batch Campaign desDiv
pos_012_2017_A_GERPRA_B081_b_2.A.5_01_8474
                                                    8474 pos2
                                                                      2017_A
                                                                                   2
pos_012_2017_B_CENJAC_B073_a_2.B.8_01_8466
                                                        8466 pos2
                                                                      2017_B
                                                                                   8
pos_012_2017_C_KNAARV_B073_a_2.D.3_01_8494
                                                        8494 pos2
                                                                      2017_C
                                                                                   8
pos_012_2017_D_RANACR_B071_b_2.E.6_01_8455
                                                        8455 pos2
                                                                      2017 D
                                                                                   2
For this example, we need only a few of the available factors in the sample metadata. Hence, we choose only
relevant factors for processing and visualisation.
# ---- Select Relevant Metadata: Factor ----
11 <- c("class", "sampleType", "batch", "FuncGroup", "SpecCode", "desDiv", "Campaign",
     "Season")
# ---- Select Relevant Metadata: Numeric ---
12 <- c("injectionOrder")</pre>
# ---- Remove Remaining Variables From Metadata ---
delCol <- NULL
for (relVar in 1:ncol(sampleMetadata)) {
    lbl <- colnames(sampleMetadata)[relVar]</pre>
    if (lbl %in% l1) {
         idx1 <- which(colnames(sampleMetadata) == lbl)</pre>
         sampleMetadata[, idx1] <- as.factor(sampleMetadata[, idx1])</pre>
    } else {
         if (lbl %in% 12) {
             idx2 <- which(colnames(sampleMetadata) == lbl)</pre>
             sampleMetadata[, idx2] <- as.numeric(sampleMetadata[, idx2])</pre>
        } else {
             idx3 <- which(colnames(sampleMetadata) == lbl)</pre>
             delCol <- c(delCol, idx3)</pre>
        7
    }
}
sampleMetadata <- sampleMetadata[, -delCol]</pre>
```

# ---- Set Variable Types: Factor ---w1 <- which(colnames(sampleMetadata) %in% intersect(l1, colnames(sampleMetadata)))
# ---- Set Variable Types: Numeric ----</pre>

#### w2 <- which(colnames(sampleMetadata) %in% intersect(12, colnames(sampleMetadata)))</pre>

# 3 Missing Data Imputation

In this example, the simultaneous pre-processing of multiple species with diverse metabolomic profiles, cause the *dataMatrix* to incorporate a huge number of missing values. Those missing data can result from either variation in the instrument performances or actual biological reasons, such as species-specificity and adaptation to the environment. We prepare the *dataMatrix* for data cleaning and analysis by imputing all missing intensities, assuming that these features are independent of each other. We use random values picked from a normal distribution with a mean of 70 and an SD of 20. This range of values ( $70 \pm 20$ ) is instrument-specific and chosen in accordance with the prefilter for feature detection used in the pre-processing step (threshold were set to 100). For a detailed explanation also see section *Missing Data Imputation* in the corresponding manuscript by Marr et al. <sup>1</sup>.

#### 3.1 Missing Data Index

In order to preserve the missing intensities for the statistical analysis and investigation of the underlying biological question, we create an index for later reference, replace these zero values with NAs and create the *filterMatrix*.

```
# ---- Save Reference ----
metaPre <- sampleMetadata
Xall <- dataMatrix
# ---- Define Index for Missing Data ----
NAidx <- Xall == 0
# ---- Replace Zeros with NAs ----
XallZero <- Xall
XallNA <- Xall
XallNA [Xall == 0] <- NA</pre>
```

# 3.2 Filter Matrix

We use the *filterMatrix* to subset the *dataMatrix* species-wise. Only those features are assumed to be present in a species that were detected in at least 25% of the samples belonging to this species. The values are calculated as the proportional occurrence of each feature in a particular species. Thereby, the number of samples with measured intensities for each feature is counted in relation to the total number of samples within this species (e.g. 0 = not present in this species, 0.25 = present in 25% of all samples in the species, 1 = present in all samples of the species). Note that in the *filterMatrix* the QC is referred to as *pool*.

```
# --
     - filterMatrix Calculation -
uniqLvl
            <- unique(metaPre$SpecCode) %>% as.character() %>% sort()
             <- length(uniqLvl)
nSpecies
filterMatrix <- matrix(ncol=ncol(XallNA), nrow=nSpecies)</pre>
colnames(filterMatrix) <- colnames(XallNA)</pre>
rownames(filterMatrix) <- uniqLvl</pre>
for (s in 1:nSpecies) {
                   <- uniqLvl[s]
 sp
 Xsp
                   <- XallNA[metaPre$SpecCode == sp,]
                   <- metaPre[metaPre$SpecCode == sp,]
 metaSp
 filterMatrix[s,] <- apply(Xsp, 2, function(x) sum(!is.na(x)))/nrow(Xsp)</pre>
}
# ---- filterMatrix Example ----
round(filterMatrix[ ,1:5], digits = 4)
```

	M127T743	M131T466	M132T149	M133T212	M133T467
ANTODO	0.0312	0.0000	0.0000	0.0000	0.0000
AVEPUB	0.0312	0.0000	0.0000	0.0000	0.0000
blank	0.0000	0.0000	0.0000	0.0000	0.0000
CENJAC	0.2812	0.0000	0.0000	0.8125	0.0312
DACGLO	0.0312	0.0000	0.0000	0.0000	0.0000
FESRUB	0.0645	0.0000	0.0000	0.0000	0.0000
GERPRA	0.6875	0.0000	0.0312	0.0312	0.2188
HOLLAN	0.0000	0.0000	0.0000	0.0000	0.0312
KNAARV	0.0000	0.0000	0.0000	0.0000	0.0000
LEUVUL	0.5781	0.0000	0.0000	0.0000	0.5469
PHLPRA	0.0156	0.0000	0.0000	0.0000	0.0000
PLALAN	0.4062	0.8281	0.0000	0.0000	0.0000
POAPRA	0.1562	0.0000	0.0000	0.0000	0.0000
pool	0.1644	0.8082	0.0000	0.0000	0.0000
RANACR	0.0000	0.0000	0.6875	0.0000	0.0000

#### 3.3 Imputation and Log Scaling

After creating the *filterMatrix*, we impute missing values with random absolute values. The imputation values are chosen accordingly to the threshold set while peak picking (intensity threshold = 100) in the data preprocessing to assure that all imputed values stay below the measured intensities. After the missing value imputation, the *dataMatrix* is scaled to log10.

dataMatrix example: before imputation: measured intensities and zero values

	M136T92	M137T89	M137T156
pos 005 2017 B POAPRA B073 a 1.C.4 01 8385	0.0000	0.000	0.000
pos 005 2017 C LEUVUL B048 b 1.D.7 01 8396	0.0000	7001.498	0.000
pos 005 2017 D GERPRA C121 b 1.F.2 01 8405	0.0000	0.000	4854.355
pos 006 2017 A RANACR A016 b 1.B.2 01 8402	866.3226	0.000	0.000
nos 006 2017 B BANACE 4016 b 1 C 5 01 8407	1839 2631	0 000	0.000

after imputation: measured intensities and random values below threshold

	M136T92	M137T89	M137T156
pos_005_2017_B_PDAPRA_B073_a_1.C.4_01_8385	88.1253	64.4568	56.1964
pos_005_2017_C_LEUVUL_B048_b_1.D.7_01_8396	55.8652	7001.4980	92.4326
pos_005_2017_D_GERPRA_C121_b_1.F.2_01_8405	79.2178	62.1435	4854.3551
pos_006_2017_A_RANACR_A016_b_1.B.2_01_8402	866.3226	88.9791	63.4586
pos_006_2017_B_RANACR_A016_b_1.C.5_01_8407	1839.2631	53.5748	61.0608

log scaled: measured intensities and random values are log10 scaled

	M136T92	M137T89	M137T156
pos_005_2017_B_PDAPRA_B073_a_1.C.4_01_8385	1.9451	1.8093	1.7497
pos_005_2017_C_LEUVUL_B048_b_1.D.7_01_8396	1.7471	3.8452	1.9658
pos_005_2017_D_GERPRA_C121_b_1.F.2_01_8405	1.8988	1.7934	3.6861
pos_006_2017_A_RANACR_A016_b_1.B.2_01_8402	2.9377	1.9493	1.8025
pos_006_2017_B_RANACR_A016_b_1.C.5_01_8407	3.2646	1.7290	1.7858

#### 4 Batch Correction

Due to a large number of samples (total: 511), we split the LC-MS measurements into 12 analytical batches. Thereby, one batch included 44 samples (randomly picked from the 511 samples), one blank and several QC measurements. After running the batch, the MS system was cleaned and recalibrated. Besides the intensity shifts within the batches (intra-batch) caused by the slightly unstable performance of the instrument, this procedure led to further shifts across the batches (inter-batch). These intensity shifts are corrected for by calculating the introduced variance of the QC measurements based on principal component analysis (PCA) calculation<sup>7</sup>. A more detailed explanation can also be found in the corresponding manuscript by Marr et al. <sup>1</sup>.

### 4.1 Preparation

First, we calculate the optimal number of components.

```
# ---- Define QC Measurements --
                    <- which(metaPre$class == "pool")
idxQC
replicates.ind
                     <- matrix(-1, nrow(dMnoisImp) - length(idxQC) + 1, length(idxQC))
replicates.ind[1,] <- idxQC
replicates.ind[-1,1] <- (1:nrow(dMnoisImp))[-idxQC]
# ---- Optimal Number of Components -
allidbafterQC <- sapply(1:15, function(NumOfComp) {</pre>
                        sprintf("Doing Batch correction using %d number of components\n",
                                 NumOfComp)
                        dMnoisImpBC <- t(RUVs(x
                                                     = t(dMnoisImp),
                                               cIdx = 1:ncol(dMnoisImp),
k = NumOfComp,
                                               scIdx = replicates.ind,
                                               round = FALSE.
                                               isLog = TRUE)$normalizedCounts)
# ---- Metadata for Evaluation ----
                 BatchCorrMetaVar <- data.frame(SeqNr = metaPre$injectionOrder,
                                                    Batch = metaPre$batch,
                                                    SCode = metaPre$class)
                 idx <- which(metaPre$sampleType == "pool")</pre>
                 choiceDist_postBCQC <- evaluateCorrection(X</pre>
                                                                  = dMnoisImpBC[idx,],
                                                                  = BatchCorrMetaVar[idx,],
                                                             Y
                                                             what = "PCA",
                                                             plot = FALSE)
                        return(choiceDist_postBCQC)
                 })
```

In order to choose the optimal number of components that we use for the correction, we compare the remaining inter-batch distances on the *QC* measurements (Figure 2).

```
# ---- Interbatch Distances vs Number of Components -
BCdist
            <- as.data.frame(allidbafterQC)
BCdist$nComp <- 1:15
compChoice
             <- ggplot (BCdist, (aes(x = BCdist$nComp, y = BCdist$allidbafterQC))) +
                 geom_line(size = 1) +
geom_point(size = 6, shape = 18) +
                 labs(x = "number of components", y = "inter-batch distance") +
                 theme_bw()+
                                         = element_text(size = 25),
                 theme(axis.text
                                     = element_text(size = 30, face = "bold"),
= element_text(size = 30),
                       axis.title
                       legend.text
                       panel.grid.major = element_line(colour = "grey50")
)
                       panel.background = element_rect(fill = "white"),
compChoice
```



Figure 2: Number of principal components used for the batch correction keeping the inter-batch distance at a minimum.

# 4.2 Correction

In this example, the optimal number of components (*nComp*) is six, as the remaining inter-batch distance (*al-lidbafterQC*) decreases only slightly with more components.

print(BCdist)

	allidbafterQC	nComp
1	5.4277283	1
2	4.4684877	2
3	1.8185237	3
4	1.3409498	4
5	1.4896308	5
6	0.7199777	6
7	0.6824285	7
8	0.6677630	8
9	0.6949238	9
10	0.5562601	10
11	0.5543296	11
12	0.6660080	12
13	0.5690315	13
14	0.5878562	14
15	0.6262616	15

Hence, we perform the batch correction with six components and save the corresponding metadata for the evaluation.

### 4.3 Evaluation

To evaluate the applied batch correction, we calculate the inter-batch distances before the correction and after the correction for all measurements (including quality controls) and the *QC* measurements separately (Figure 3).

We used PCA to visualise the effects of the correction on all measurement and QC measurements separately.

```
# ---- Calculate PCA Before and After Correction: QC ----
idxQC <- which(metaPre$sampleType == "pool")</pre>
pca_Dist_preBCQC <- FactoMineR::PCA(dMnoisImp[idxQC,],</pre>
                                       quali.sup = w1,
                                       quanti.sup = w2,
                                       scale.unit = TRUE,
                                                = 6,
                                       ncp
                                       graph
                                                  = FALSE)
pca_Dist_postBCQC <- FactoMineR::PCA(dMnoisImpBC[idxQC,],</pre>
                                       quali.sup = w1,
quanti.sup = w2,
                                       scale.unit = TRUE,
                                               = 6,
                                       ncp
                                                  = FALSE)
                                       graph
# ---- Calculate PCA Before and After Correction: Samples and Quality Controls ----
pca_Dist_preBC <- FactoMineR::PCA(dMnoisImp,</pre>
                                       quali.sup = w1,
                                       quanti.sup = w2,
                                       scale.unit = TRUE,
                                                = 6,
= FALSE)
                                       ncp
                                       graph
pca_Dist_postBC <- FactoMineR::PCA(dMnoisImpBC,</pre>
                                       quali.sup = w1,
                                       quanti.sup = w2,
                                       scale.unit = TRUE,
                                       ncp
                                                 = 6.
                                              = FALSE)
                                       graph
```

```
# ---- Plot PCA Before Correction: QC ----
idxQC <- which(metaPre$sampleType == "pool")</pre>
preBCQC <- fviz_pca_ind(pca_Dist_preBCQC,</pre>
                                = c(1, 2),
                      axes
                      geom
                                 = c("point"),
                      addEllipses = F,
                      pointsize = 6,
habillage = metaPre[idxQC,]$batch,
                      mean.point = FALSE,
                             = paste0("QC Distance before Correction: ",
                      title
                                   format(signif(Dist_preBCQC, 4), nsmall = 4))) +
          labs(x = paste0("PC 1 (",
                        format(round(pca_Dist_preBCQC$eig[1, 2], 4),
                              nsmall = 4, digits = 4), "%)"),
              y = paste0("PC 2 (",
                       format(round(pca_Dist_preBCQC$eig[2, 2], 4),
                               nsmall = 4, digits = 4), "%)"),
              tag = "a)") +
 scale_x_continuous(limits = c(-50, 100), breaks = seq(-100, 100, by = 40)) +
 name = "Batch") +
 theme bw()+
                         = element text(size = 25).
   theme(axis.text
                        = element_text(size = 20),
= element_text(size = 30, face = "bold"),
= element_rect(fill = "white"),
      axis.title
       panel.background
       panel.grid.major
                        = element_line(colour = "grey50"),
       plot.tag
                         = element_text(size = 30),
                        = element_text(size = 30),
= "none",
       plot.title
       legend.position
       legend.title
                         = element_text(size = 30),
                        = element_text(size = 30)
       legend.text
       )
```

```
# ---- Plot PCA After Correction: QC ----
postBCQC <- fviz_pca_ind(pca_Dist_postBCQC,</pre>
                           axes = c(1, 2),
geom = c("point"),
                            addEllipses = F,
                           pointsize = 6,
habillage = metaPre[idxQC, ]$batch,
                            mean.point = FALSE,
                            title
                                       = paste0("QC Distance after Correction: ",
                                            format(Dist_postBCQC, nsmall = 4, digits = 4))) +
             labs(x = paste0("PC 1 (",
                              format(round(pca_Dist_postBCQC$eig[1, 2], 4),
                  nsmall = 4, digits = 4), "%)"),
y = paste0("PC 2 (",
                              format(round(pca_Dist_postBCQC$eig[2, 2], 4),
                                      nsmall = 4, digits = 4), "%)"),
                  tag = "b)",
                  fill = "Batch") +
             scale_x_continuous(limits = c(-50, 100), breaks = seq(-100, 100, by = 40)) +
             scale_y_continuous(limits = c(-40, 40), breaks = seq(-100, 100, by = 40)) +
             scale_shape_manual(values = c(15, 16, 17, 18, 8, 25, 9, 10, 15, 16, 17, 18),
                                  name = "Batch") +
             scale_color_manual(values = c("#CCOCOOFF", "#FFCD00FF", "#00AF66FF",
                                              "#5C88DAFF", "#7C878EFF", "#84BD00FF",
"#00B5E2FF", "#CC0C00FF", "#FFCD00FF",
"#00AF66FF", "#5C88DAFF", "#7C878EFF"),
                                  name = "Batch") +
             theme_bw() +
             theme(axis.text
                                          = element_text(size = 25),
                                          = element_text(size = 30, face = "bold"),
                    axis.title
                    panel.background = element_rect(fill = "white"),
                                         = element_line(colour = "grey50"),
= element_text(size = 30),
                    panel.grid.major
                    plot.tag
                    plot.title
                                          = element_text(size = 25),
                    legend.direction
                                          = "vertical",
                    legend.justification = c("top"),
                   legend.margin = margin(8, 8, 8, 8),
legend.position = c(0.85, 0.90),
                   legend.title = element_text(size = 30),
legend.text = element_text(size = 25)
                    legend.text
                    )
```

```
# ---- Plot PCA Before Correction: Samples and Quality Controls ----
preBC <- fviz_pca_ind(pca_Dist_preBC,</pre>
                         axes = c(1, 2),

geom = c("point"),
                          addEllipses = FALSE,
                          habillage = metaPre$batch,
                          mean.point = FALSE,
                          pointsize = 6,
                          title
                                       = paste0("Distance before Correction: ",
                                          format(round(Dist_preBC, 4),
                                                   digits = 4, nsmall = 4))) +
          labs(x = paste0("PC 1 (",
                            format(round(pca_Dist_preBC$eig[1, 2], 4),
                                    nsmall = 4, digits = 4),
                             "%)"),
                y = paste0("PC 2 (",
                            format(round(pca_Dist_preBC$eig[2, 2], 4),
                                    nsmall = 4, digits = 4),
                             "%)").
                tag = "c)") +
           scale_x_continuous(limits = c(-50, 100), breaks = seq(-100, 100, by = 40)) +
          scale_color_manual(values = c("#CCOCOOFF", "#FFCD00FF", "#00AF66FF",
                                             "#5C88DAFF" "#7C878EFF" "#84BD00FF",
"#508B52FF", "#7C878EFF", "#84BD00FF",
"#00B5E2FF", "#CC0C00FF", "#FFCD00FF",
"#00AF66FF", "#5C88DAFF", "#7C878EFF"),
                                name = "Batch") +
          theme_bw() +
          theme(axis.text
                                     = element_text(size = 25),
                 axis.title = element_text(size = 30, face = "bold"),
panel.background = element_rect(fill = "white"),
                  panel.grid.major = element_line(colour = "grey50"),
plot.tag = element_text(size = 30),
plot.title = element_text(size = 25),
                  legend.position = "none",
                 legend.title = element_text(size = 30),
legend.text = element_text(size = 30)
                  )
# ---- Plot PCA After Correction: Samples and Quality Controls ----
postBC <- fviz_pca_ind(pca_Dist_postBC,</pre>
                          axes
                                       = c(1, 2),
                           addEllipses = F,
                          geom = c("point"),
pointsize = 6,
habillage = metaPre$batch,
                          mean.point = FALSE,
                                       = paste0("Distance after Correction: ",
format(round(Dist_postBC, 4),
                          title
                                                  nsmall = 4, digits = 4))) +
           labs(x = paste0("PC 1 (",
                             format(round(pca_Dist_postBC$eig[1, 2], 4),
                                     nsmall = 4, digits = 4),
                              "%)"),
                 y = paste0("PC 2 (",
                              format(round(pca_Dist_postBC$eig[2, 2], 4),
                                     nsmall = 4, digits = 4),
                              "%)").
                 tag = "d)") +
            scale_x_continuous(limits = c(-50, 100), breaks = seq(-100, 100, by = 40)) +
            scale_y_continuous(limits = c(-60, 60), breaks = seq(-100, 100, by = 40)) +
            scale_shape_manual(values = c(15, 16, 17, 18, 8, 25, 9, 10, 15, 16, 17, 18),
                                  name = "Batch") +
            scale_color_manual(values = c("#CCOCOOFF", "#FFCD00FF", "#00AF66FF",
                                               "#5C88DAFF", "#7C878EFF", "#84BD00FF",
"#00B5E2FF", "#CC0C00FF", "#FFCD00FF",
"#00AF66FF", "#5C88DAFF", "#7C878EFF"),
                                 name = "Batch") +
           theme bw() +
                                      = element_text(size = 25),
           theme(axis.text
                                      = element_text(size = 30, face = "bold"),
                  axis.title
                  panel.background = element_rect(fill = "white"),
                  panel.grid.major = element_line(colour = "grey50"),
                                   = element_text(size = 30),
= element_text(size = 25),
                  plot.tag
                   plot.title
                   legend.position = "none",
                  legend.title = element_text(size = 30),
legend.text = element_text(size = 30)
                  )
```

# ---- Arrange Batch Correction Plots ----

# grid.arrange(preBC, postBC, preBCQC, postBCQC, nrow = 2, ncol = 2)

The inter-batch distances in the QC measurements before (16.8450445) and after (0.7199777) the batch correction show that the data set is subject to unwanted variations. However, looking at all measurements before (0.056425) and after (0.057719) the correction, the inter-batch distances do not change significantly, revealing that the variation between the samples is much higher than the variation in the QC measurements that were introduced by the batches. PCA plots visualise the effects of batch correction on both QC measurements and analytical samples.



Figure 3: Inter-batch distances before and after batch correction. Distances are calculated across 12 analytical LC-MS batches. Distances before and after correction are compared for the *QC* measurements and for the sample measurements, respectively. The *QC* measurements show a high inter-batch distance (a) that is reduced significantly after correction (b), while the distances detected for the analytical samples (c) only change slightly after correction (d). The proportion of the total explained variance is shown for each component in brackets.

# 5 Validity Check

#### 5.1 Feature Validity

#### Blank Removal

All features were checked for their validity. We only kept those features in the *dataMatrix* that were not detected in the blanks, as these features are likely to have been introduced unintendedly through extraction or while measurements. Therefore, all features detected in blanks were removed from the *dataMatrix* and excluded from further analysis.

```
# ---- Keep Processed Data ----
dMnoisImpSBC <- dMnoisImpBC
dMnoisImpS <- dMnoisImp
meta <- metaPre
NAidxS <- NAidx
# ---- Remove Blank-Features ----
mzrtnames <- names(which(filterMatrix["blank", ] >0))
tempColnames <- setdiff(colnames(dMnoisImpSBC), mzrtnames)
NAidxS <- NAidxS[, tempColnames]
filterMatrixS <- filterMatrix[, tempColnames]
dMnoisImpSBC <- dMnoisImpSBC[, tempColnames]
dMnoisImpS <- dMnoisImpS[, tempColnames]</pre>
```

#### QC Removal

In this example, we used the quality controls *QC* and blanks for batch correction and feature validity checks, respectively. These quality controls are not needed for further analysis and are, therefore, removed from both the *dataMatrix* and *sampleMetadata*.

```
# ---- Remove QC Measurements ----
idxQC <- meta$SpecCode != "pool"</pre>
```

meta	<- meta[idxQC, ]
NAidxS	<- NAidxS[idxQC, ]
dMnoisImpSBC	<- dMnoisImpSBC[idxQC, ]
dMnoisImpS	<- dMnoisImpS[idxQC, ]
-	-
# Remove	Blanks
idxB	<- meta\$SpecCode != "blank"
meta	<- meta[idxB, ]
NAidxS	<- NAidxS[idxB, ]
dMnoisImpSBC	<- dMnoisImpSBC[idxB, ]
dMnoisImpS	<- dMnoisImpS[idxB, ]
-	-
# Drop U	nused Levels
meta[ , w1]	<- data.frame(lapply(w1, function(ii){
	<pre>base::droplevels(meta[ , ii])</pre>
	}))

### 5.2 Sample Validity

As the last step of processing, we also checked the analytical samples for their validity. In our example, the data set is derived from a field experiment that is incorporating a high level of variance on both the inter-species and intra-species level. We, therefore, test all samples within their respective species for feature composition similarity, ensuring they are not contaminated or corrupted. A sample is considered valid when its Mahalanobis distance to its species cluster does not exceed the distance of the 3-fold mean (Figure 4) and when it shares at least 0.25 of features with the other samples in its respective species. Therefore, we calculate the Mahalanobis distances for all species subsets separately.

```
# ---- Mahalanobis Distances ---
                <- levels(meta$SpecCode)
lbls
OutlierDist_list <- list()</pre>
for (lbl in lbls) {
                    <- meta$SpecCode == 1b1
 idxSpec
  zeroBCdata
                    <- dMnoisImpSBC
  zeroBCdata[NAidxS] <- 0
                   <- colSums(zeroBCdata[idxSpec, ], na.rm = TRUE) != 0
 idxF
                    <- zeroBCdata[idxSpec, idxF]
  sdat
  idxFS
                    <- which( apply(sdat, 2,
                                     function(i) { sum( i != 0) /length(i)}) >= 0.25)
                    <- sdat[, idxFS]
  sdatMin
  fShared
                    <- specnumber(sdatMin)/ncol(sdatMin)
                    <- 0.25
  share
  idxfShared
                    <- fShared < share
                     <- prcomp(sdat, center = TRUE, scale.= TRUE)
  pcamdl
  sdat
                    <- pcamdl$x[ , 1:20]
  myLOOMDdist
                    <- sapply(1:nrow(sdat), function(i) {
                          mahalanobis(sdat[i, ], colMeans(sdat[-i, ], na.rm = TRUE),
                                      cov(sdat[-i, ]))
                          - })
                    <- 3 * mean(myLOOMDdist)
  maxDist
  idxLOOMD
                    <- myLOOMDdist > maxDist
  DD
                     <- matrix(myLOOMDdist,
                               nrow = length(myL00MDdist),1,
                               dimnames = list(rownames(sdat), c("Mdist")))
  OutlierDist
                     <- merge(sdat, OD, by = "row.names")
  OutlierDist_list[[lb1]] <- OutlierDist</pre>
}
OutlierDist_all <- do.call(rbind, OutlierDist_list)</pre>
```

We plot all samples indicating the distance to their respective species.

```
# ---- Set Variables ----
SampleNames <- as.factor(OutlierDist_all$Row.names)
maxDist <- 3 * mean(OutlierDist_all$Mdist)</pre>
```

```
# ---- Plot Mahalanobis Distances for All Samples ----
                                = OutlierDist_all,
= SampleNames,
= Mdist, #OutlierDist_all$Mdist,
MD_allSamples <- ggplot(data
                         aes(x
                             У
                             colour = meta$SpecCode,
shape = meta$SpecCode
                              )) +
                  geom_point(size = 6) +
                  labs(x = paste0("samples"),
                       y = paste0("mahalanobis distance")) +
                  theme_bw() +
                  axis.ticks.x = element_blank(),
legend.text = element_markdown(size = 30),
                        legend.position = "right",
                        legend.title = element_text(size = 30),
panel.background = element_rect(fill = "white"),
                        panel.grid.major = element_blank(),
                        panel.grid
                                        = element_blank()
                        ) +
                  scale_color_manual(name = "Species",
                                       values = c("#DC0000FF", "#7E6148FF", "#3C5488FF",
                                                   "#3C5488FF", "#F39B7FFF", "#4DBBD5FF",
"#8491B4FF", "#8491B4FF", "#F39B7FFF",
"#91D1C2FF", "#00A087FF", "#B09C85FF",
                                                   "#E64B35FF"),
                                       labels = c("*Anthoxanthum odoratum*",
                                                   "*Avenula pubescens*",
                                                   "*Centaurea jacea*",
                                                   "*Dactylis glomerata*",
                                                   "*Festuca rubra*",
                                                   "*Geranium pratense*",
                                                   "*Holcus lanatus*",
                                                   "*Knautia arvensis*",
                                                   "*Leucanthemum vulgare*",
                                                   "*Phleum pratense*",
                                                   "*Plantago lanceolata*",
                                                   "*Poa pratensis*",
                                                   "*Ranunculus acris*")) +
                  scale_shape_manual(name = "Species",
                                       values = c(8, 10, 16, 24, 8, 9, 17,
                                                   25, 18, 15, 18, 15, 9),
                                       labels = c("*Anthoxanthum odoratum*",
                                                   "*Avenula pubescens*",
                                                   "*Centaurea jacea*",
                                                   "*Dactylis glomerata*",
                                                   "*Festuca rubra*",
                                                   "*Geranium pratense*",
                                                   "*Holcus lanatus*",
                                                   "*Knautia arvensis*",
                                                   "*Leucanthemum vulgare*",
                                                   "*Phleum pratense*",
                                                   "*Plantago lanceolata*",
                                                   "*Poa pratensis*",
                                                   "*Ranunculus acris*")) +
                  geom_abline(intercept = maxDist, color = "red", size = 1.5)
```

MD\_allSamples



Figure 4: Sample validity check. Calculating the Mahalanobis distances for each species separately. Thresholds (3-fold mean distance within species) are calculated species specific. The indicated threshold (red line) representes the 3-fold distance of the total mean and is included for demonstration purposes only. Only samples above their respective threshold and < 0.25 shared features with their respective species are excluded from further analysis.

Mahalanobis distances and the corresponding feature composition is calculated for all samples within their species separately.

```
# ---- Species Specific Validity Check ----
metaOut <- meta
corrSamp <- unlist(sapply(levels(meta$SpecCode), function(lbl) {</pre>
  idxSpec
                     <- meta$SpecCode == 1b1
  zeroBCdata
                     <- dMnoisImpSBC
  zeroBCdata[NAidxS] <- 0
  # ---- Species Subset ----
             <- colSums(zeroBCdata[idxSpec,], na.rm = TRUE)!= 0
  idxF
  sdat
              <- zeroBCdata[idxSpec, idxF]
             <- which( apply(sdat, 2, function(i) { sum( i != 0) /length(i)}) >= 0.25)
  idxFS
  sdatMin
              <- sdat[, idxFS]
       - Feature Composition
            <- specnumber(sdatMin)/ncol(sdatMin)
  fShared
  share
              <- 0.25
  idxfShared <- fShared < share
              <- prcomp(sdat, center = TRUE, scale.=TRUE)
  pcamdl
  sdat
              <- pcamdl$x[,1:20]
  # ---- Mahalanobis Distances ----
  myLOOMDdist <- sapply(1:nrow(sdat), function(i) {</pre>
                   mahalanobis(sdat[i,], colMeans(sdat[-i,], na.rm = TRUE), cov(sdat[-i,]))
  })
  # ---- Threshold Distance ---
  maxDist
            <- 3 * mean(myLOOMDdist)
            <- myLOOMDdist > maxDist
  idxLOOMD
  return(rownames(sdat)[idxL00MD & idxfShared])
```

}))

In this data set, 12 samples did not pass the validity check. We, therefore, excluded them from the *dataMatrix* and further analysis.

```
[1] "pos_066_2017_C_ANTODO_B060_b_1.A.6_01_9086"
[2] "pos_078_2017_B_ANTODO_A018_b_1.A.5_01_9085"
[3] "pos_036_2017_A_HOLLAN_A035_b_2.A.7_01_9037"
[4] "pos_110_2017_D_LEUVUL_B051_a_1.F.8_01_8877"
[5] "pos_116_2017_D_LEUVUL_B051_b_1.F.3_01_8966"
[6] "pos_018_2017_D_PHLPRA_B073_b_2.F.4_01_8481"
[7] "pos_049_2017_D_PHLPRA_A018_b_1.F.2_01_8529"
[8] "pos_070_2017_D_PHLPRA_B059_b_1.F.6_01_8559"
[9] "pos_016_2017_D_PHLPRA_A018_a_1.F.1_01_8688"
[10] "pos_016_2017_D_POAPRA_A026_b_2.F.2_01_84844"
[11] "pos_057_2017_D_POAPRA_B073_a_2.E.7_01_8626"
[12] "pos_073_2017_D_POAPRA_B073_b_1.F.4_01_8682"
```

```
idxVfyd <- which(!(rownames(dMnoisImpSBC) %in% corrSamp))
dMnoisImpSBCOut <- dMnoisImpSBC[idxVfyd, ]
metaOut <- metaOut[idxVfyd, ]</pre>
```

# 6 Processed Data Output

### 6.1 Data Saving

After performing the validity checks on the data, we save all processed data matrices.

```
# ---- Save processed data matrices ----
prcdSampleMetadata <- metaOut
prcdDataMatrixImputedLog <- dMnoisImpSBCOut
prcdDataMatrixImputed <- 10^prcdDataMatrixImputedLog
prcdDataMatrixZero <- prcdDataMatrixImputed
NAidxPrcd <- NAidxS[rownames(prcdDataMatrixImputed), colnames(prcdDataMatrixImputed)]
prcdDataMatrixZero[NAidxPrcd] <- 0</pre>
```

```
# combined meta data and data matrix
prcdMetadataMatrix <- cbind(prcdSampleMetadata, prcdDataMatrixZero, make.row.names = TRUE)</pre>
```

#### 6.2 Filter Matrix Re-calculation

In order to apply further statistics to the data, we also need to recalculate the *filterMatrix* with the processed data matrix (*prcdDataMatrixZero*) and the corresponding sample metadata (*prcdSampleMetadata*).

	M127T743	M131T466	M132T149	M133T212	M133T467
ANTODO	0.0333	0.0000	0.0000	0.0000	0.0000
AVEPUB	0.0312	0.0000	0.0000	0.0000	0.0000
CENJAC	0.2812	0.0000	0.0000	0.8125	0.0312
DACGLO	0.0312	0.0000	0.0000	0.0000	0.0000
FESRUB	0.0645	0.0000	0.0000	0.0000	0.0000
GERPRA	0.6875	0.0000	0.0312	0.0312	0.2188
HOLLAN	0.0000	0.0000	0.0000	0.0000	0.0323
KNAARV	0.0000	0.0000	0.0000	0.0000	0.0000
LEUVUL	0.5968	0.0000	0.0000	0.0000	0.5645
PHLPRA	0.0167	0.0000	0.0000	0.0000	0.0000
PLALAN	0.4062	0.8281	0.0000	0.0000	0.0000
POAPRA	0.1724	0.0000	0.0000	0.0000	0.0000
RANACR	0.0000	0.0000	0.6875	0.0000	0.0000

# 7 Visualisation

Here, we use PCA to visualise the processed data. The functional-group-wise calculation shows good species separation for both *grass* and *herb* species (Figure 5). For a more detailed explanation see also the corresponding manuscript by Marr et al. <sup>1</sup>

```
quali.sup = w1,
                               quanti.sup = w2,
                               scale.unit = TRUE,
                               ncp
                                       = 6,
                               \operatorname{graph}
                                           = F)
# ---- Calculate PCA Functional Group Specific: Herb ----
idxHerb <- subset(dMnoisImpSBCOut,</pre>
                   metaOut$FuncGroup == "herb")
pcaHerb <- FactoMineR::PCA(idxHerb,</pre>
                              quali.sup = w1,
quanti.sup = w2,
                              scale.unit = TRUE,
                                      = 6,
                              ncp
                                           = F)
                              {\tt graph}
```

```
# ---- Plot All Samples ----
pcaGlobalplot <- fviz_pca_ind(pcaGlobal,</pre>
                              axes = c(1,2),
                              addEllipses = FALSE,
                              geom
                                     = c("point"),
                              pointsize = 6,
habillage = metaOut$SpecCode,
                              mean.point = FALSE,
title = paste0("Functional Group: Grass & Herb")) +
                 labs(x = paste0("PC 1 (",
                                format(round(pcaGlobal$eig[1,2], 4),
                                       nsmall = 4, digits = 4), "%)"),
                         = paste0("PC 2 (",
                      Y
                                format(round(pcaGlobal$eig[2,2], 4),
                                       nsmall = 4, digits = 4), "%)"),
                      tag = "a)") +
                 theme_bw() +
                      Caxis.text= element_text(size = 25),axis.title= element_text(size = 30, face = "bold"),
                 theme(axis.text
                       legend.position = "bottom",
                       legend.text = element_text(size = 30),
legend.title = element_text(size = 30, colour = "white"),
                       panel.background = element_rect(fill = "white"),
                       panel.grid.major = element_line(colour = "grey50"),
                                   = element_text(size = 30),
= element_text(size = 25)
                       plot.tag
                       plot.title
                       ) +
                 scale_x_continuous(limits = c(-80, 90), breaks = seq(-100, 100, by = 40)) +
                 scale_y_continuous(limits = c(-50, 100), breaks = seq(-100, 100, by = 40)) +
                 scale_shape_manual(values = c(8, 10, 16, 24, 8, 9, 17,
                 "#E64B35FF"))
```

```
# ---- Plot Functional Group Specific: Grass ----
idxGrass <- subset(dMnoisImpSBCOut, metaOut$FuncGroup == "grass")</pre>
idxGrassMeta <- subset(metaOut, metaOut$FuncGroup == "grass")</pre>
pcaGrassplot <- fviz_pca_ind(pcaGrass,</pre>
                                           = c(1,2),
                               axes
                               addEllipses = FALSE,
                              geom = c("point"),
pointsize = 6,
                               habillage = idxGrassMeta$SpecCode,
                               mean.point = FALSE,
                title = paste0("Functional Group: Grass")) +
labs(x = paste0("PC 1 (",
                                 format(round(pcaGrass$eig[1,2], 4), nsmall = 4, digits = 4),
                                  "%)"),
                      y = paste0("PC 2 (",
                                format(round(pcaGrass$eig[2,2], 4), nsmall = 4, digits = 4),
                                  "%)"),
                     tag = "b)") +
                 theme bw()+
                 theme(axis.text
                                         = element_text(size = 25),
                                        = element_text(size = 30, face = "bold"),
                       axis.title
                       legend.position = "none",
                       panel.background = element_rect(fill = "white"),
                       panel.grid.major = element_line(colour = "grey50"),
plot.tag = element_text(size = 30),
plot.title = element_text(size = 25)
                       ) +
                 scale_x_continuous(limits = c(-80, 90), breaks = seq(-100, 100, by = 40)) +
                 scale_y_continuous(limits = c(-50, 100), breaks = seq(-100, 100, by = 40)) +
                 "#B09C85FF"))
```

```
--- Plot Functional Group Specific: Herb -
           <- subset(dMnoisImpSBCOut, metaOut$FuncGroup == "herb")
idxHerb
idxHerbMeta <- subset(metaOut, metaOut$FuncGroup == "herb")</pre>
pcaHerbplot <- fviz_pca_ind(pcaHerb,</pre>
                              axes
                                          = c(1,2).
                              addEllipses = FALSE,
                              geom = c("point"),
pointsize = 6,
habillage = idxHerbMeta$SpecCode,
mean.point = FALSE,
                              title
                                           = paste0("Functional Group: Herb")) +
               labs(x = paste0("PC 1 (",
                                format(round(pcaHerb$eig[1,2], 4), nsmall = 4, digits = 4),
                                "%)"),
                        = paste0("PC 2 (",
                    y
                               format(round(pcaHerb$eig[2,2], 4), nsmall = 4, digits = 4),
                                "%)"),
                    tag = "c)") +
               theme bw()+
                                     = element_text(size = 25),
= element_text(size = 30, face = "bold"),
               theme(axis.text
                     axis.title
                     legend.position = "none",
                     panel.background = element_rect(fill = "white"),
                     panel.grid.major = element_line(colour = "grey50"),
plot.tag = element_text(size = 30),
plot.title = element_text(size = 25)
                      ) +
              # ---- Arrange PCA Plots ----
# pL <- list(pcaGlobalplot, pcaGrassplot, pcaHerbplot)</pre>
# grid.arrange(
   grobs = pL,
widths = c(2, 2, 1),
#
#
#
     layout_matrix = rbind(c(1, 1),
#
                           c(2, 3))
```

#)



Figure 5: Sample selection for statistical analysis. The separation of the samples by principle components shows that samples belonging to the same species are grouped in clusters (a). Samples separated by functional groups grass (b) and herb (c), are still found to group in their respective species clusters. We used species abbreviations in the plot's key for clarity reasons: Anthoxanthum odoratum (ANTODO), Avenula pubescens (AVEPUB), Centaurea jacea (CENJAC), Dactylis glomerata (DACGLO), Festuca rubra (FESRUB), Geranium pratense (GERPRA), Holcus lanatus (HOLLAN), Knautia arvensis (KNAARV), Leucanthemum vulgare (LEUVUL), Phleum pratense (PHLPRA), Plantago lanceolata (PLALAN), Poa pratensis (POAPRA), Ranunculus acris (RANACR).

# 8 References

1 Marr, S., Hageman, J. A., Wehrens, R., van Dam, N. M., Bruelheide, H. & Neumann, S. LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods. *Sci. Data* (supplemental material).

2 Giacomoni, F., Le Corguillé, G., Monsoor, M., Landi, M., Pericard, P., Pétéra, M., Duperier, C., Tremblay-Franco, M., Martin, J.-F., Jacob, D., Goulitquer, S., Thévenot, E. A. & Caron, C. Workflow4Metabolomics: a collaborative research infrastructure for computational metabolomics. *Bioinformatics* **31** (9), 1493-1495 (2014).

3 Allaire, J. J., Xie, Y., McPherson, J., Luraschi, J., Ushey, K., Atkins, A., Wickham, H., Cheng, J., Chang, W. & Iannone, R. rmarkdown: Dynamic Documents for R. R package version 2.0. URL https://rmarkdown.rstudio. com (2019).

4 Xie, Y., Allaire, J. J. & Grolemund, G. R Markdown: The Definitive Guide. URL https://bookdown.org/ yihui/rmarkdown (Chapman and Hall, 2018).

5 Wehrens, R., Mumm, R., Keurentjes, J. & de Vos, R. BatchCorrMetabolomics: Complementary package to "Improved Batch Correction in Untargeted MS-Based Metabolomics". R package version 0.1.14. (2020).

6 Bache, S. M. & Wickham, H. magrittr: A Forward-Pipe Operator for R. R package version 1.5. https://CRAN. R-project.org/package=magrittr (2014).

7 Risso, D., Ngai, J., Speed, T. P. & Dudoit, S. Normalization of RNA-seq data using factor analysis of control genes or samples. *Nat. Biotechnol.* **32** (9), 896-902 (2014).

8 Brunius, C. Nifty Tools for Random Statistical Tasks. R package version 0.0.914. (2020).

9 Oksanen, J., Guillaume Blanchet, F., Friendly, M., Kindt, R., Legendre, P., McGlinn, D., Minchin, P. R., O'Hara, R. B., Simpson, G. L., Solymos, P., Stevens, M. H. H., Szoecs, E. & Wagner, H. vegan: Community Ecology Package. R package version 2.5-6. https://CRAN.R-project.org/package=vegan (2019).

10 Kassambara, A. & Mundt, F. factoextra: Extract and Visualize the Results of Multivariate Data Analyses. R package version 1.0.6. https://CRAN.R-project.org/package=factoextra (2019).

11 Le, S., Josse, J. & Husson, F. FactoMineR: An R Package for Multivariate Analysis. J. Stat. Softw. 25 (1), 1-18 (2008).

12 Xiao, N. ggsci: Scientific Journal and Sci-Fi Themed Color Palettes for 'ggplot2'. R package version 2.9. https://CRAN.R-project.org/package=ggsci (2018).

13 Wilke, C. O. ggtext: Improved text rendering support for 'ggplot2'. R package version 0.1.0. https://wilkelab.org/ggtext (2020).

14 Auguie, B. gridExtra: Miscellancous Functions for "Grid" Graphics. R package version 2.3. https://CRAN. R-project.org/package=gridExtra (2017).

15 Microsoft Corporation & Weston, S. doParallel: Foreach Parallel Adaptor for the 'parallel' Package. R package version 1.0.15. https://CRAN.R-project.org/package=doParallel (2019).
```
Session Info:
R version 4.0.3 (2020-10-10)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: Windows 10 x64 (build 18363)
Matrix products: default
locale:
[1] LC_COLLATE=English_World.1252
                                       LC_CTYPE=English_World.1252
                                       LC_NUMERIC=C
[3] LC_MONETARY=English_World.1252
[5] LC_TIME=English_United States.1252
attached base packages:
                                  graphics grDevices utils
[1] stats4
              parallel stats
                                                                 datasets
[8] methods
              base
other attached packages:
 [1] doParallel 1.0.16
                                  iterators 1.0.13
                                  ggtext_0.1.0
 [3] foreach_1.5.1
 [5] ggsci_2.9
                                  gridExtra_2.3
 [7] factoextra_1.0.7
                                  ggplot2_3.3.2
[9] FactoMineR_2.3
                                  vegan_2.5-7
                                  permute_0.9-5
[11] lattice_0.20-41
[13] StatTools_0.0.915
                                  RUVSeq_1.24.0
[15] edgeR_3.32.0
                                  limma_3.46.0
[17] EDASeq_2.24.0
                                  ShortRead_1.48.0
[19] GenomicAlignments_1.26.0
                                  SummarizedExperiment_1.20.0
[21] MatrixGenerics_1.2.0
                                  matrixStats_0.57.0
[23] Rsamtools_2.6.0
                                  GenomicRanges_1.42.0
                                  Biostrings_2.58.0
IRanges_2.24.0
[25] GenomeInfoDb_1.26.1
[27] XVector_0.30.0
[29] S4Vectors_0.28.0
                                  BiocParallel_1.24.1
[31] Biobase_2.50.0
                                  BiocGenerics_0.36.0
                                  BatchCorrMetabolomics_0.1.14
[33] magrittr_2.0.1
[35] knitr_1.30
loaded via a namespace (and not attached):
  [1] readx1_1.3.1
                             backports_1.2.0
                                                       aroma.light_3.20.0
  [4] BiocFileCache_1.14.0
                             splines_4.0.3
                                                       digest_0.6.27
  [7] htmltools_0.5.0
                              memoise_1.1.0
                                                       cluster_2.1.0
 [10] openxlsx_4.2.3
                              R.utils_2.10.1
                                                       sandwich_3.0-0
                                                       jpeg_0.1-8.1
 [13] askpass_1.1
                              prettyunits_1.1.1
                                                       rappdirs_0.3.1
 [16] colorspace_2.0-0
                              blob_1.2.1
 [19] ggrepel_0.8.2
                              haven_2.3.1
                                                       xfun_0.19
 [22] dplyr_1.0.2
                              crayon_1.3.4
                                                       RCurl_1.98-1.2
 [25] kohonen_3.0.10
                              zoo_1.8-8
                                                       glue_1.4.2
                              zlibbioc_1.36.0
 [28] gtable_0.3.0
                                                       DelayedArray_0.16.0
 [31] car_3.0-10
                              kernlab_0.9-29
                                                       prabclus_2.3-2
 [34] DEoptimR_1.0-8
                              abind_1.4-5
                                                       scales_1.1.1
 [37] DBI 1.1.0
                              rstatix 0.6.0
                                                       Rcpp_1.0.5
                                                       \operatorname{crch}_{1.0-4}
 [40] progress_1.2.2
                              gridtext_0.1.3
 [43] scoringRules_1.0.1
                              foreign_0.8-80
                                                       flashClust_1.01-2
 [46] bit_4.0.4
                              mclust_5.4.7
                                                       Formula_1.2-4
 [49] httr_1.4.2
                              RColorBrewer_1.1-2
                                                       fpc_2.2-8
 [52] modeltools_0.2-23
                              ellipsis 0.3.1
                                                       pkgconfig_2.0.3
 [55] XML_3.99-0.5
                              R.methodsS3_1.8.1
                                                       flexmix_2.3-17
 [58] farver_2.0.3
                              nnet_7.3-14
                                                       dbplyr_2.0.0
 [61] locfit_1.5-9.4
                              tidyselect_1.1.0
                                                       labeling_0.4.2
                              AnnotationDbi_1.52.0
 [64] rlang_0.4.9
                                                       cellranger_1.1.0
```

tools\_4.0.3

generics\_0.1.0

[67] munsell\_0.5.0

[70]	RSQLite_2.2.1	pls_2.7-3
[73]	evaluate_0.14	stringr_1.4.0
[76]	bit64_4.0.5	zip_2.1.1
[79]	$Chemometrics \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	purrr_0.3.4
[82]	formatR_1.7	R.oo_1.24.0
[85]	xml2_1.3.2	biomaRt_2.46.0
[88]	curl_4.3	png_0.1-7
[91]	tibble_3.0.4	stringi_1.5.3
[94]	forcats_0.5.0	Matrix_1.2-18
[97]	vctrs_0.3.5	pillar_1.4.7
[100]	data.table_1.13.2	bitops_1.0-6
[103]	R6_2.5.0	latticeExtra_0.6-29
[106]	rio_0.5.16	$codetools_0.2-16$
[109]	$assertthat_0.2.1$	openssl_1.4.3
[112]	GenomeInfoDbData_1.2.4	diptest_0.75-7
[115]	hms_0.5.3	grid_4.0.3
[118]	class_7.3-17	rmarkdown_2.5
[121]	ggpubr_0.4.0	$scatterplot3d_0.3-41$

broom\_0.7.2 yaml\_2.2.1 robustbase\_0.93-6 nlme\_3.1-149 leaps\_3.1 compiler\_4.0.3 ggsignif\_0.6.0 GenomicFeatures\_1.42.1 markdown\_1.1 lifecycle\_0.2.0 rtracklayer\_1.49.5 hwriter\_1.3.2 MASS\_7.3-53 withr\_2.3.0 mgcv\_1.8-33 tidyr\_1.1.2 carData\_3.0-4

#### APPENDIX - CHAPTER 2

**Table 1**: Comprehensive model evaluation (eval.), including model accuracies (ac), settings for the best model (bm), the area under the receiver-operator curve (AUC), and Kappa value (Kpp) for the data sets MTBLS679, MTBLS1224, and MTBLS2140. In MTBLS679 and MTBLS1224, the levels season and diversity were analysed for each species separately. bm were chosen on model specific parameters: For Partial Least Squares Discriminant Analysis (PLS), the number of components (ncomp); for Support Vector Machines (SVM) with linear kernel (I) cost (c), with radial kernel (r) sigma (s) and c, with poly kernel (p) degree (d), scale (sc) and c; and for Random Forests (RF) the number of variables that is randomly collected to be sampled at each split time (mtry).

	Data set									MTBLS	679						
				PLS			SVMI			SVMr			SVMp			RF	
Level	species	eval.	ZeroInt-pP	Impint	ImpLog 2	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	ImpInt	ImpLog
FG		ac	0.999	0.995	1.000	0.998	0.998	1.000	0.992	0.992	1.000	0.998	0.998	1.000	1.000	1.000	1.000
									s = 7.016e-05	s = 7 309e-05	s = 5.467e-05	d = 1 sc =	d = 1  sc = 0.01  c	d = 1  sc = 0.001			
		hm	ncomn = 11	ncomn = 16	ncomn = 2	c = 1	c = 1	c = 1	c = 16	c=8	c=4	0.01 c = 0.25	= 0.25	c=0.25	mtry = 15	mtry = 148	mtry = 22
			1 000	1 000	1 000	1 000	1 000	1 000	1 000	1.000	1 000	1 000	1 000	1 000	0.968	0 998	0 998
		Knn	0.000	0.990	1.000	0.006	0.000	1.000	0.984	0.984	0.000	0.996	0.996	1.000	1 000	1 000	1.000
Casalas		крр	0.955	0.990	1.000	0.550	0.550	1.000	0.584	0.984	0.999	0.990	0.950	1.000	1.000	1.000	1.000
species		ac	0.967	0.866	0.971	0.957	0.957	0.962	0.949	0.946	0.968	0.900	0.957	0.905	0.968	0.908	0.908
		h							s = 7.033e-05,	s = 6.470e-05,	s = 5.907e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 21	ncomp = 30	ncomp = 29	C = 1	C = 1	C = 1	c = 2	c = 2	C = 1	0.001, c = 0.25	c = 2	c = 0.25	mtry = 7	mtry = 81	mtry = 209
		AUC	0.995	0.989	0.996	0.910	0.910	0.918	0.827	0.836	0.859	0.910	0.911	0.919	0.997	0.965	0.996
		Крр	0.964	0.877	0.968	0.953	0.953	0.958	0.944	0.943	0.965	0.956	0.953	0.962	0.965	0.996	0.965
Season	ANTODO	ac	0.848	0.601	0.842	0.791	0.605	0.664	0.245	0.385	0.564	0.794	0.588	0.628	0.812	0.795	0.785
									s = 2.385e-04,	s = 4.842e-05,	s = 4.917e-05,	d = 2, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 3	ncomp = 8	ncomp = 3	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	0.001, c = 0.5	c = 0.25	c = 0.25	mtry = 148	mtry = 2147	mtry = 3030
		AUC	0.942	0.858	0.976	0.929	0.806	0.898	0.500	0.809	0.859	0.931	0.848	0.856	0.924	0.882	0.881
		Крр	0.787	0.481	0.761	0.710	0.458	0.545	0.000	0.241	0.431	0.719	0.451	0.511	0.716	0.694	0.689
Season	AVEPUB	ac	0.888	0.575	0.902	0.843	0.693	0.852	0.239	0.258	0.747	0.859	0.689	0.874	0.818	0.764	0.770
									s = 1.896e-04,	s = 4.908e-05,	s = 4.915e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 8	ncomp = 7	ncomp = 5	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c=0.25	mtry = 24	mtry = 48	mtry = 383
		AUC	0.966	0.815	0.969	0.950	0.802	0.937	0.500	0 722	0.885	0.822	0.829	0.922	0 945	0 906	0.906
		Knn	0.900	0.015	0.854	0.556	0.587	0.800	0.000	0.121	0.677	0.619	0.580	0.926	0.545	0.500	0.500
Saacan	DACGLO	20	0.000	0.410	0.004	0.700	0.507	0.000	0.000	0.121	0.612	0.015	0.500	0.620	0.742	0.672	0.670
Jeason	DACOLO	ac	0.820	0.020	0.818	0.082	0.554	0.000	0.277	0.230	0.013 c = E 002c 0E	d = 1 .co =	d = 1 co = 0.001	d = 1 cc = 0.001	0.755	0.002	0.055
		h							s = 2.700e-04,	s = 5.062e-05,	s = 5.005e-05,	u = 1, SC =	u = 1, St = 0.001,	u = 1, sc = 0.001,			
		bm	ncomp = 3	ncomp = 7	ncomp = 4	C = 1	C = 1	c = 1	C = 1	c = 2	c = 2	0.001, c = 1	c=0.25	c = 0.25	mtry = 136	mtry = 2/1	mtry = 192
		AUC	0.927	0.837	0.937	0.879	0.816	0.865	0.501	0.703	0.862	0.884	0.835	0.853	0.872	0.809	0.809
		Крр	0.749	0.491	0.747	0.566	0.372	0.557	0.036	0.115	0.500	0.679	0.424	0.577	0.663	0.541	0.540
Season	FESRUB	ac	0.758	0.575	0.806	0.816	0.708	0.628	0.263	0.265	0.642	0.817	0.738	0.661	0.774	0.718	0.716
										s = 4.817e-05,	s = 5.151e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 9	ncomp = 9	ncomp = 5	c = 1	c = 1	c = 1	s = 1.514, c = 1	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 249	mtry =7819	mtry = 9290
		AUC	0.942	0.743	0.952	0.882	0.826	0.846	0.500	0.595	0.855	0.874	0.796	0.858	0.900	0.841	0.840
		Крр	0.659	0.409	0.706	0.742	0.603	0.503	0.000	0.021	0.457	0.746	0.624	0.526	0.690	0.621	0.622
Season	HOLLAN	ac	0.829	0.538	0.962	0.807	0.716	0.846	0.199	0.317	0.689	0.787	0.702	0.832	0.881	0.803	0.818
									s = 2.474e-04,	s = 5.062e-05,	s = 5.008e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 10	ncomp = 10	ncomp = 6	c = 1	c = 1	c = 1	c = 1	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 52	mtry = 57	mtry = 74
		AUC	0.971	0.798	0.994	0.934	0.881		0.500	0.708		0.913	0.887		0.955	0.918	0.918
		Kpp	0.763	0.353	0.944	0.709	0.609	0.781	0.000	0.137	0.599	0.688	0.606	0.768	0.826	0.724	0.735
Season	PHLPRA	ac	0.878	0.624	0.830	0.860	0.768	0.746	0.265	0.340	0.714	0.864	0.760	0.761	0.860	0.824	0.824
									s = 2.076e-04.	s = 5.074e-05.	s = 5.043e-05.	d = 1. sc =	d = 1. sc = 0.001.	d = 1. sc = 0.001.			
		hm	ncomn = 4	ncomn = 9	ncomn = 10	c = 1	c = 1	c=1	c = 1	c = 2	c=4	0.001 c=0.5	c = 0.25	c=0.25	mtry = 1077	mtry = 589	mtry = 496
			0.955	0.834	0.955	0.035	0.865	0.871	0.500	0.690	0.856	0.001, 0 0.0	0.847	0.868	0 9/9	0.912	0 912
		Knn	0.555	0.00	0.555	0.555	0.005	0.671	0.000	0.050	0.650	0.924	0.675	0.670	0.940	0.761	0.762
Saaran		κμμ 26	0.835	0.438	0.770	0.810	0.087	0.002	0.000	0.112	0.017	0.813	0.073	0.073	0.809	0.701	0.702
Jeason	FUAFNA	au	0.785	0.855	0.508	0.001	0.711	0.710	c = 2 7420 04	c = 4 0290 05	c = 4 90Eo.0E	d = 1 cc =	d=1 cc=0.001	d = 1 cc = 0.001	0.823	0.093	0.089
		h		n com n - 0		e – 1	e – 1	a – 1	3 - 2.7420-04,	s = 4.938e-03,	s = 4.05Je=0J,	u = 1, 30 =	u = 1, St = 0.001,	u = 1, sc = 0.001,	mtn - 220	mtn - 170	matrix - 126
		ALLC	ncomp = 7	ncomp = 9	ncomp = 4	L=1	L=1	L = 1	L = 2	L = 2	L = 2	0.01, C = 0.25	L = 0.25	C = 0.25	111LTY = 228	11117 = 176	1111 y = 150
		AUC	0.931	0.957	0.950	0.857	0.869	0.900	0.480	0.501	0.863	0.878	0.862	0.888	0.934	0.899	0.901
-		крр	0.708	0.774	0.858	0.703	0.598	0.593	0.000	0.211	0.539	0.683	0.658	0.595	0.755	0.587	0.578
Season	CENJAC	ac	0.696	0.633	0.678	0.661	0.588	0.601	0.224	0.258	0.537	0.686	0.535	0.596	0.708	0.653	0.645
							c = 1	c = 1	s = 2.227e-04,	s = 4.936e-05,	s = 4.857e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			mtry = 1395
		bm	ncomp = 3	ncomp = 4	ncomp = 8	c = 1			c = 2	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 3600	mtry = 52	.,
		AUC	0.851	0.784	0.891	0.767	0.694	0.767	0.500	0.273	0.718	0.786	0.684	0.764	0.844	0.796	0.796
		Крр	0.565	0.493	0.552	0.519	0.439	0.477	0.000	0.138	0.433	0.553	0.367	0.470	0.594	0.534	0.516
Season	GERPRA	ac	0.928	0.671	0.973	0.926	0.720	0.872	0.248	0.435	0.778	0.941	0.732	0.880	0.918	0.853	0.856
									s = 2.478e-04,	s = 5.028e-05,	s = 5.050e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 7	ncomp = 10	ncomp = 6	c = 1	c = 1	c = 1	c = 4	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 8523	mtry = 6038	mtry = 10125
		AUC	0.990	0.865	1.000	0.947	0.848	0.961	0.521	0.798	0.913	0.954	0.830	0.948	0.964	0.936	0.936
		Крр	0.899	0.540	0.961	0.905	0.614	0.818	0.000	0.325	0.713	0.917	0.642	0.831	0.889	0.799	0.802
Season	KNAARV	ac	0.818	0.543	0.900	0.773	0.699	0.750	0.243	0.310	0.666	0.793	0.696	0.719	0.780	0.707	0.713
									s = 2.149e-04,	s = 4.843e-05,	s = 4.856e-05,	d = 2, sc =	d = 1, sc = 0.001,	d= 1, sc = 0.001,			
		bm	ncomp = 7	ncomp = 10	ncomp = 10	c = 1	c = 1	c = 1	c = 4	c = 2	c = 2	0.001, c = 0.5	c = 0.25	c = 0.25	mtry = 161	mtry = 6581	mtry = 1658
		AUC	0.963	0.739	0.979	0.863	0.820	0.869	0.500	0.277	0.839	0.877	0.826	0.889	0.916	0.870	0.871
		Kpp	0.743	0.348	0.861	0.684	0.591	0.671	0.000	0.136	0.553	0.708	0.587	0.626	0.699	0.604	0.610
Season	LEUVUI	ac	0.757	0.492	0.793	0.763	0.668	0.767	0.292	0.427	0.715	0.783	0.669	0.752	0.873	0.883	0.885
									s = 1.873e-04	s = 4.992e-05.	s = 4.871e-05	d= 2. sc =	d = 1, sc = 0.001.	d = 1, sc = 0.001.			
		hm	ncomn = 10	ncomn - 9	ncomn = 10	c = 1	c = 1	c = 1	c=4	c=2	c = 2	0.001 c=0.5	c = 0.25	c = 0.25	mtry = 10125	mtn/ - 4663	mtn/ - 55/0
			0.012	0 710	0.026	0.022	0 920	0.002	0 511	0 721	0.004	0.001, 0 = 0.0	0.25	0.000	0.042	0.020	0.020
		Knn	0.512	0.719	0.550	0.522	0.025	0.502	0.511	0.751	0.504	0.919	0.629	0.696	0.242	0.520	0.520
50000-	DIALAN	whh	0.074	0.519	0.719	0.000	0.554	0.000	0.040	0.230	0.019	0.707	0.500	0.005	0.020	0.041	0.702
Season	PLALAN	au	0.810	0.560	0.863	0.772	0.708	0.743	0.258	0.531	0.690	U./86	U./22	U./16	0.813	U. 786	0.792
									s = 2.093e-04,	s = 4.938e-05,	s = 4.915e-05,	d = 2, sc =	a = 1, sc = 0.001,	a = 1, sc = 0.001,			
		bm	ncomp = 5	ncomp = 8	ncomp = 8	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	0.001, c = 0.25	c = 0.25	c = 0.25	mtry = 161	mtry = 832	mtry = 496
		AUC	0.921	0.813	0.964	0.880	0.844	0.882	0.531	0.802	0.863	0.888	0.842	0.867	0.922	0.892	0.892
		Крр	0.743	0.406	0.814	0.692	0.604	0.655	0.013	0.384	0.592	0.712	0.627	0.624	0.747	0.711	0.719
Season	RANACR	ac	0.855	0.785	0.885	0.813	0.542	0.631	0.248	0.352	0.596	0.844	0.553	0.636	0.735	0.668	0.671
									s = 2.392e-04,	s = 4.915e-05,	s = 4.885e-05,	d = 1, sc =	a = 1, sc = 0.001,	a = 1, sc = 0.001,			
		bm	ncomp = 5	ncomp = 8	ncomp = 6	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	0.001, c = 1	c = 0.25	c = 0.25	mtry = 37	mtry = 7174	mtry = 5540
		AUC	0.945	0.932	0.966	0.925	0.769	0.804	0.500	0.662	0.755	0.933	0.804	0.805	0.882	0.842	0.843
		Крр	0.790	0.785	0.840	0.732	0.382	0.491	0.000	0.148	0.483	0.776	0.385	0.487	0.625	0.553	0.549

#### Table 1: continued – MTBLS679

			PLS			SVMI			SVMr			SVMp			RF	
Level species ev	val. Z	ZeroInt-pP	ImpInt	ImpLog	ZeroInt-pP	ImpInt	ImpLog	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	ImpInt	ImpLog
Diversity ANTODO ad	с	0.163	0.211	0.103	0.146	0.115	0.059	0.180	0.103	0.080	0.259	0.012	0.192	0.093	0.198	0.198
								s = 2.346e-04,	s = 4.943e-05,	s = 4.864e-05,	d = 3, sc = 0.1,	d = 3, sc = 0.01, c	d = 3, sc = 0.01, c			
br	m	ncomp = 3	ncomp = 1	ncomp = 9	c = 1	c = 1	c = 1	c = 2	c = 0.25	c = 2	c = 0.25	= 0.25	= 0.25	mtry = 3	mtry = 10125	mtry = 10125
A	UC	0.332	0.445	0.316	0.550	0.600	0.692	0.500	0.514	0.668	0.629	0.655	0.727	0.240	0.240	0.240
K	рр	-0.061	-0.017	-0.178	-0.095	-0.135	-0.167	0.000	-0.007	-0.099	-0.006	0.012	-0.013	-0.122	-0.021	-0.021
Diversity AVEPUB ac	с	0.291	0.279	0.288	0.291	0.167	0.156	0.242	0.219	0.127	0.238	0.227	0.148	0.280	0.179	0.179
		_	_					s = 1.987e-04,	s = 5.033e-05,	s = 4.938e-05,	d = 1, sc =	d = 3, sc = 0.1, c	d = 3, sc = 0.1, c			
bi	m	ncomp = 7	ncomp = 6	ncomp = 9	c=1	c = 1	c=1	c = 2	c=2	c = 2	0.01, c = 0.25	= 0.25	= 0.25	mtry = 10125	mtry = 455	mtry = 455
A	UC	0.546	0.536	0.576	0.535	0.525	0.569	0.500	0.345	0.640	0.665	0.570	0.561	0.405	0.404	0.404
Kj	.pp	0.095	0.050	0.054	0.041	-0.043	-0.012	0.000	0.005	0.021	0.055	0.000	-0.004	0.094	0.040	0.040
Diversity DACOLO ac	L	0.590	0.505	0.245	0.577	0.204	0.105	0.220	0.175	0.125	0.414 d = 2.co =	0.162	d = 2 co = 0.001	0.515	0.572	0.372
h		comp = 10	ncomn = 9	ncomn = 1	c = 1	c = 1	c = 1	c = 2 949 c = 2	s = 4.802e-05,	s = 4.890e-05,	u = 2, SC =	u = 1, St = 0.001,	u = 2, St = 0.001,	mtn/ - 1077	mtn/ - 9522	mtn/ - 9522
DI		0 650	0.469	0.545	0.614	0 551	0.520	5 = 2.040, C = 2	0.412	0 502	0.001, C = 0.3	0.23	0.525	0 549	0 549	0 549
A K	inn	0.035	0.408	0.045	0.014	-0.034	-0.072	-0.009	-0.013	-0.049	0.030	-0.040	0.035	0.348	0.348	0.348
Divorcity EESPUR of	.pp c	0.175	0.071	0.035	0.170	0.034	-0.072	-0.005	-0.013	-0.049	0.210	-0.040	0.048	0.103	0.201	0.201
Diversity resitob at	c	0.500	0.500	0.550	0.550	0.550	0.225	s = 1 815e-04	s = 5 176e-05	s = 5 0/8e-05	d = 2 sc =	d = 1 sc = 0.001	d = 1 sc = 0.001	0.511	0.222	0.222
br	m	ncomn - 8	ncomn = 5	ncomn = 7	c = 1	c = 1	c = 1	s = 1.015c 04,	s = 5.170c 05,	s = 5.040c 05,	0.01 c = 0.25	c = 0.25	c = 0.25	mtry = 10125	mtn/ - 7819	mtn/ - 7819
A	UC	0.673	0.598	0.710	0.615	0.473	0.564	0.500	0.461	0.445	0.619	0.555	0.545	0.612	0.439	0.439
K	nn	0.147	0.087	0.176	0.108	0.140	0.014	0.000	0.016	0.012	0.270	0.158	0.049	0.087	0.037	0.037
Diversity HOLLAN ad	C	0.471	0.313	0.341	0.377	0.294	0.216	0.171	0.103	0.134	0.367	0.264	0.212	0.294	0.254	0.254
								s = 2.036e-04.	s = 4.956e-05.	s = 5.013e-05.	d = 1. sc =	d = 1. sc = 0.001.	d = 1. sc = 0.001.			
br	m	ncomp = 7	ncomp = 4	ncomp = 7	c = 1	c = 1	c = 1	c = 4	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 2551	mtry = 2551	mtry = 3303
A	UC	0.584	0.597	0.562	0.463	0.507	0.477	0.500	0.446	0.461	0.513	0.434	0.503	0.514	0.514	0.465
K	pp	0.276	0.112	0.132	0.146	0.104	0.029	0.000	-0.013	-0.006	0.159	0.064	0.007	0.066	0.066	0.080
Diversity PHLPRA ad	c	0.525	0.449	0.536	0.506	0.393	0.427	0.225	0.260	0.436	0.507	0.421	0.428	0.462	0.392	0.392
								s = 1.580e-04,	s = 5.031e-05,	s = 5.115e-05,	d = 1, sc =	d = 2, sc = 0.001,	d = 1, sc = 0.001,			
br	m n	comp = 10	ncomp = 10	ncomp = 9	c = 1	c = 1	c = 1	c = 0.25	c = 1	c = 4	0.001, c = 0.5	c = 0.25	c = 0.25	mtry = 11	mtry = 176	mtry = 176
A	UC	0.735	0.695	0.715	0.708	0.580	0.579	0.500	0.637	0.642	0.702	0.585	0.621	0.652	0.568	0.568
K	рр	0.358	0.263	0.374	0.335	0.180	0.237	0.000	0.072	0.260	0.338	0.228	0.236	0.285	0.199	0.199
Diversity POAPRA ac	с	0.310	0.253	0.249	0.351	0.378	0.304	0.219	0.298	0.294	0.396	0.401	0.346	0.269	0.465	0.465
								s = 2.552e-04,	s = 5.057e-05,	s = 4.909e-05,	d = 3, sc = 1, c	d = 1, sc = 0.001,	d = 2, sc = 0.001,			
br	m n	comp = 10	ncomp = 9	ncomp = 10	c = 1	c = 1	c = 1	c = 4	c = 2	c = 2	= 0.25	c = 0.25	c = 0.25	mtry = 8523	mtry = 8523	mtry = 8523
A	UC	0.576	0.530	0.616	0.409	0.401	0.471	0.512	0.410	0.460	0.493	0.441	0.490	0.507	0.477	0.477
K	pp 0.0	089960727	0.023073147	0.028571429	0.1146744	0.1966071	0.1103013	0	0.07888408	0.1268409	0.1980685	0.1731203	0.11585665	0.058916424	0.306938432	0.306938432
Diversity CENJAC ac	с	0.423	0.345	0.362	0.342	0.293	0.179	0.252	0.286	0.187	0.350	0.273	0.195	0.418	0.317	0.317
		-	_	_				s = 1.984e-04,	s = 4.999e-05,	s = 5.030e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
bi	m	ncomp = 6	ncomp = 2	ncomp = 8	c=1	c = 1	c=1	c = 2	c=2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 4278	mtry = 1077	mtry = 1077
A		0.662	0.578	0.598	0.729	0.702	0.668	0.500	0.496	0.527	0.725	0.569	0.703	0.597	0.523	0.523
Kj	.pp U	0.185/9932	0.14/42664/	0.1435/143	0.1435185	0.0///41/	-0.03380952	0	0.0/33525/	0.03/5/816	0.140833333	0.0639881	-0.01220238	0.23386905	0.15315476	0.15315476
Diversity GERPRA ac	С	0.293	0.253	0.338	0.260	0.128	0.143	0.242	0.221	0.123	0.332	0.144	0.143	0.212	0.159	0.159
h		comp = 10	ncomn = 1	ncomn = 4	c = 1	c = 1	c = 1	s = 2.905e-04,	s = 5.010e-05,	s = 5.104e-05,	u = 2, St = 0.1,	u = 1, St = 0.001,	u = 1, St = 0.001,	$mtn_{i} = 10$	mtn/ - 4	mtni – 4
DI		0 561	0.461	0 472	0 519	0 515	0.516	0.479	0.450	0 551	0.23	0.23	0.575	0.429	0 241	0 2/1
K	nn	0.001	0.016	0.472	0.019	-0.073	-0.030	0.000	0.435	0.006	0.322	-0.062	-0.032	-0.009	0.029	0.029
Diversity KNAARV ar	с С	0.372	0.352	0.275	0.292	0.220	0.050	0.000	0.011	0.000	0.330	0.002	0.052	0.293	0.134	0.134
	-							s = 1.965e-04.	s = 5.090e-05.	s = 5.025e-05.	d = 1. sc =	d = 1. sc = 0.001.	d = 1. sc = 0.001.			
br	m	ncomp = 4	ncomp = 1	ncomp = 10	c = 1	c = 1	c = 1	c=4	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 114	mtry = 17	mtry = 17
A	UC	0.659	0.572	0.534	0.587	0.508	0.487	0.500	0.521	0.471	0.625	0.580	0.476	0.529	0.290	0.290
K	рр	0.150	0.169	0.008	0.078	-0.025	-0.053	0.000	0.030	-0.055	0.119	-0.010	-0.057	0.094	-0.034	-0.034
Diversity LEUVUL ad	c	0.377	0.278	0.370	0.354	0.244	0.249	0.252	0.214	0.236	0.357	0.273	0.264	0.423	0.379	0.379
								s = 2.361e-04,	s = 5.008e-05,	s = 4.987e-05,	d = 1, sc =	d = 2, sc = 0.1, c	d = 1, sc = 0.001,			
br	m	ncomp = 3	ncomp = 7	ncomp = 10	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	0.01, c = 0.25	= 0.25	c = 0.25	mtry = 125	mtry = 7174	mtry = 7174
A	UC	0.593	0.531	0.634	0.641	0.527	0.578	0.493	0.497	0.599	0.677	0.544	0.590	0.605	0.577	0.577
K	рр	0.170	0.037	0.164	0.138	0.003	0.013	0.010	-0.035	0.002	0.144	0.066	0.035	0.233	0.175	0.175
Diversity PLALAN ac	с	0.404	0.360	0.380	0.409	0.302	0.313	0.277	0.309	0.281	0.395	0.286	0.287	0.373	0.317	0.317
								s = 2.253e-04,	s = 4.929e-05,	s = 4.935e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
br	m	ncomp = 6	ncomp = 5	ncomp = 2	c = 1	c = 1	c = 1	c = 4	c = 2	c = 2	0.01, c = 0.25	c = 0.25	c = 0.25	mtry = 5540	mtry = 148	mtry = 148
A	UC	0.724	0.671	0.655	0.676	0.639	0.631	0.507	0.632	0.592	0.481	0.640	0.597	0.629	0.570	0.570
K	рр	0.205	0.150	0.187	0.216	0.079	0.100	0.036	0.089	0.066	0.189	0.054	0.063	0.163	0.107	0.107
Diversity RANACR ac	с	0.278	0.314	0.317	0.275	0.171	0.094	0.182	0.104	0.088	0.283	0.153	0.105	0.313	0.192	0.192
								s = 2.778e-04,	s = 4.972e-05,	s = 4.903e-05,	d = 1, sc =	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
br	m	ncomp = 8	ncomp = 1	ncomp = 9	c=1	c = 1	c=1	c = 2	c = 2	c = 0.25	0.001, c = 2	c = 0.25	c = 0.25	mtry = 7819	mtry = 3924	mtry = 3924
A	UC	0.573	0.635	0.636	0.453	0.570	0.507	0.500	0.646	0.555	0.228	0.551	0.465	0.521	0.397	0.397
K	.pp	0.031	0.111	0.137	0.050	-0.054	-0.097	0.000	-0.034	-0.013	0.015	-0.075	-0.088	0.108	0.023	0.023

#### Table 1: continued – MTBLS1224

	Data set									MTBL	S1224						
				PLS			SVMI			SVMr	-		SVMp			RF	
Level	species	eval.	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	ImpInt	ImpLog	ZeroInt-pP	ImpInt	ImpLog	ZeroInt-pP	ImpInt	ImpLog	ZeroInt-pP	ImpInt	ImpLog
FG		ac	1.000	1.000	1.000	1.000	0.997	1.000	0.987	0.989	1.000	1.000	0.999	1.000	1.000	1.000	1.000
									s = 1.122e-04,	s = 1.081e-04,	s = 1.101e-04,	d = 1, sc = 0.001,	d = 3, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 1	ncomp = 3	ncomp = 2	c = 1	c = 1	c = 1	c = 1	c = 1	c = 0.25	c = 0.25	c = 0.25	c = 0.25	mtry = 2	mtry = 2	mtry = 2
		AUC	1.000	1.000	1.000	1.000	0.997	1.000	1.000	1.000	1.000	1.000	0.996	1.000	1.000	0.991	0.991
		Крр	1.000	1.000	1.000	1.000	0.993	1.000	0.975	0.977	1.000	1.000	0.998	1.000	1.000	1.000	1.000
Species		ac	0.971	0.970	0.974	0.969	0.960	0.968	0.958	0.958	0.970	0.970	0.964	0.970	0.971	0.971	0.971
									s = 1.154e-04,	s = 1.205e-04,	s = 1.241e-04,	d = 1, sc = 0.001,	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
		bm	ncomp = 15	ncomp = 28	ncomp = 20	c = 1	c = 1	c = 1	c = 1	c = 1	c = 1	c = 0.5	c = 0.25	c = 0.25	mtry = 26	mtry = 4	mtry = 9
		AUC	0.996	0.996	0.996	0.883	0.882	0.905	0.790	0.781	0.796	0.884	0.882	0.911	0.999	0.998	0.998
		Крр	0.969	0.968	0.972	0.966	0.957	0.965	0.954	0.954	0.967	0.967	0.961	0.967	0.968	0.968	0.968
Season	ANTODO	ac	0.785	0.645	0.770	0.798	0.263	0.548	0.281	0.284	0.451	0.802	0.281	0.583	0.764	0.622	0.633
									s = 3.448e-04,	s = 8.280e-05,	s = 8.376e-05,	d = 1, sc = 0.01, c	d = 3, sc = 0.1, c	d = 1, sc = 0.001,			
		bm	ncomp = 8	ncomp = 10	ncomp = 6	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	= 0.25	= 0.25	c = 0.25	mtry = 3541	mtry = 1462	mtry = 603
		AUC	0.931	0.911	0.974	0.922	0.516	0.718	0.512	0.522	0.652	0.909	0.535	0.688	. 0.913	0.831	0.832
		Kpp	0.684	0.477	0.679	0.695	0.035	0.396	0.040	0.039	0.239	0.701	0.048	0.397	0.667	0.468	0.484
Season	AVEPUB	ac	0.867	0.726	0.934	0.835	0.346	0.711	0.312	0.283	0.665	0.828	0.426	0.724	0.910	0.861	0.866
									s = 4.550e-04.	s = 8.457e-05.	s = 8.708e-05.	d = 1. sc = 0.01. c	d = 2. sc = 0.001.	d = 1. sc = 0.001.			
		bm	ncomp = 8	ncomp = 10	ncomp = 6	c = 1	c = 1	c = 1	c = 1	c = 2	c = 2	= 0.25	c = 0.25	c = 0.25	mtrv = 68	mtry = 270	mtry = 195
		AUC	0.986	0.883	0.988	0.957	0.559	0.909	0.547	0.460	0.799	0.944	0.612	0.891	0.964	0.943	0.943
		Knn	0.816	0.626	0.905	0 774	0.097	0.610	0.075	0.050	0.566	0.757	0.253	0.612	0.873	0.809	0.819
Season	DACGLO	ac	0.898	0.857	0.906	0.877	0.427	0.823	0.293	0.230	0.646	0.856	0.455	0.794	0.923	0.865	0.872
			0.000	0.007	0.000	0.077	0.127	5.025	s = 4,944e-04	s = 9,081e-05	s = 8.634e-05	d = 1. sc = 0.001	d = 1. sc = 0.001	d = 1. sc = 0.001	0.525	0.005	0.072
		bm	ncomn = २	ncomn = 8	ncomn = 3	c = 1	c = 1	c = 1	c=7	c=7	c=7	c=1	c = 0.25	c = 0.25	mtrv = 22	mtrv = 902	mtrv = 837
				0 0 CC 0	0 044	0 057	0.675	0 880	0 5/4	0 /07	0.852	0.054	0.20	0.004	0 QE4	n apo	0.032 0.032
		Knn	0.854	0.500	0.500	0.824	0.234	0.000	0.072	0.427	0.055	0.799	0.759	0.304	0.904	0.550	0.930
Season	FESRUB	20	0.860	0.670	0.050	0.869	0.254	0.736	0.072	0.005	0.500	0.755	0.233	0.751	0.001	0.010	0.050
Jeason	LINOD	ac	0.800	0.070	0.001	0.805	0.338	0.720	s = 6 370e-04	s = 8 570e-05	s = 8 739e-05	d = 1 sc = 0.01 c	d = 1 sc = 0.001	d = 1 sc = 0.001	0.837	0.823	0.043
		hm	ncomn - 10	ncomn = 9	ncomp = 7	c = 1	c = 1	c = 1	s=0.570c 04,	3 = 0.5700 05,	s=0.755C 05,	-0.25	c = 0.25	c = 0.25	mtn/ - 270	mtn/ - 141	mtn/ - 90
			0.062	0.062	0.079	0.025	0.600	0.906	0.522	0.453	0.977	- 0.23	0.23	0.25	0.054	0.021	0 0 2 2
		Knn	0.903	0.802	0.578	0.935	0.000	0.630	0.532	0.453	0.877	0.302	0.582	0.830	0.554	0.321	0.525
Concer		крр	0.808	0.005	0.761	0.011	0.158	0.025	0.075	0.055	0.547	0.805	0.159	0.572	0.770	0.755	0.760
Season	HULLAN	ac	0.958	0.665	0.998	0.951	0.042	0.665	0.500	0.550	0.825	d = 2 co = 0.001	0.005 d = 1 cc = 0.001	d = 1 cc = 0.001	0.951	0.945	0.944
		h	ncomn - F	ncomo - 0	ncomn - 6	0 - 1	0 - 1	0 - 1	s = 0.003e-04,	s = 9.003e-03,	3 = 0.0376-03,	u = 2, sc = 0.001,	u = 1, SC = 0.001,	u = 1, sc = 0.001,	mtn ( - 152	mtru - 63	mtn - 04
			0.000	0.000	1 000	0.091	0.024	0.062	0.592	0.573	0.012	0.005	0.23	0.25	0.000	0.091	0.091
		Kan	0.989	0.950	1.000	0.981	0.834	0.902	0.383	0.373	0.913	0.985	0.848	0.975	0.930	0.581	0.981
Saacan		rph 20	0.905	0.050	0.997	0.907	0.511	0.041	0.160	0.155	0.764	0.950	0.544	0.857	0.951	0.924	0.924
Jeason	FILFINA	ac	0.277	0.815	0.510	0.004	0.495	0.812	c = 2 1260 04	c = 0.0500.05	c = 9 4920 05	d = 1 cc = 0.001	d = 2 cc = 0.001	d = 1 cc = 0.001	0.824	0.780	0.784
		hm	ncomn = 0	ncomp = 10	ncomn - 10	c = 1	c = 1	c = 1	s = 3.120e-04,	s = 9.059e-05,	s = 8.495e-05,	u = 1, sc = 0.001,	u = 2, 3c = 0.001,	u = 1, sc = 0.001,	mtn/ - 220	mtn/ - 152	mtn/ - 152
			0.062	0 001	0 079	0.050	0.662	0.045	0.657	0.643	0.014	0.046	0.20	0.25	0.046	0.015	0.016
		Knn	0.902	0.501	0.578	0.935	0.002	0.545	0.037	0.043	0.314	0.340	0.080	0.343	0.540	0.313	0.510
Season	POAPRA	ac	0.814	0.748	0.883	0.801	0.324	0.740	0.223	0.237	0.710	0.810	0.322	0.700	0.703	0.704	0.710
5645011	IOAINA	ac	0.050	0.040	0.005	0.017	0.441	0.711	c = 5 4020 04	c = 9 7020 05	c = 9 6100 05	d = 1 cc = 0.01 c	d = 1 cc = 0.001	d = 1 cc = 0.001	0.520	0.750	0.000
		hm	ncomn - 10	ncomn = 0	ncomn - 10	c = 1	c = 1	c = 1	s = 5.402e-04,	s = 8.792e-00,	s = 8.019e-00,	-0.25	u = 1, 3c = 0.001,	u = 1, sc = 0.001,	mtn/ - 427	mtn/ - 2017	mtn/ - 2567
			0.042	0 0 20	0.069	0.005	0.676	0.646	0.544	0 512	0.914	0.23	0.609	0.25	0.041	0.905	0.904
		Knn	0.342	0.550	0.908	0.885	0.070	0.840	0.044	0.013	0.814	0.882	0.008	0.853	0.341	0.895	0.034
Saacan	CENIAC	ac N	0.731	0.735	0.832	0.651	0.285	0.367	0.034	0.043	0.349	0.750	0.240	0.001	0.878	0.714	0.7204438
Jeason	CENJAC	ac	0.028	0.440	0.755	0.051	0.255	0.405	c = 4 4020 04	c = 9 001o 05	c = 0 0600 05	d = 1 cc = 0.1 c	d = 1 cc = 0.001	d = 1 cc = 0.001	0.385	0.400	0.401
		hm	ncomn - 0	ncomn = 2	ncomn = 9	c = 1	c = 1	c = 1	s = 4.402e-04,	s = 8.001e-05,	s = 8.805e-05,	-0.25	u = 1, 3c = 0.001,	u = 1, sc = 0.001,	mtn/ - 11/9	mtn/ - 922	mtry = 195
			0 959	0 500	0.964	0.792	0 526	0 676	0.521	0 52/	0.659	0.23	0.507	0.675	0.905	0 702	0 702
		Knn	0.050	0.330	0.607	0.702	0.050	0.070	0.033	-0.015	0.030	0.007	0.007	0.075	0.005	0.705	0.703
Saacan	CEDDDA	20	0.921	0.240	0.027	0.455	0.050	0.250	0.035	0.010	0.211	0.402	0.050	0.310	0.440	0.255	0 8925
5643011	OLIGI IVA	ac	0.521	0.717	0.055	0.550	0.441	0.700	s = 5 741e-04	s = 8 450e-05	s = 8 881e-05	d = 1 sc = 0.01 c	d = 2 sc = 0.001	d = 1  sc = 0.001	0.520	0.075	0.0525
		hm	ncomn = 5	ncomn = 6	ncomn = 6	c = 1	c = 1	c = 1	c=2	c = 7	c = 2	-0.25	c = 0.25	c = 0.25	mtry = 437	mtry = 166	mtry = 3/3
			0.986	0 000	0 971	0.984	0.571	0 028	0.658	0.625	0.905	0.991	0.649	0.9/1	0.958	0.936	0.936
		Knn	0.882	0.500	0.858	0.931	0.253	0.685	0.050	0.183	0.535	0.915	0.015	0.700	0.896	0.835	0.550
Season	KNAARV	ac	0.002	0.005	1 000	0.991	0.435	0.005	0.240	0.105	0.551	0.913	0.555	0.700	0.000	0.035	0.052
5645011	KINAAN	ac	0.500	0.504	1.000	0.501	0.455	0.554	c = 4.6150.04	c - 9 9500 05	c - 9 2220 DE	d = 2 cc = 0.001	d = 2 cc = 0.001	d = 1 cc = 0.001	0.555	0.500	0.500
		hm	ncomn = 0	ncomn = 0	ncomn - 2	c = 1	c = 1	c = 1	5 = 4.015C 04,	3 = 0.050C 05,	s = 0.552c 05,	c = 1	c = 0.25	c = 0.25	mtn/ = 120	mtn/ - 74	mtn/ - 102
			0.005	0.075	1 000	1 000	0 702	0.002	0.694	0.703	0.045	1.000	0.23	0.23	0.006	0.095	0.095
		Knn	0.995	0.975	1.000	0.072	0.703	0.992	0.034	0.702	0.945	0.062	0.091	0.977	0.990	0.985	0.985
Saacan		n pp	0.933	0.074	1.000	0.973	0.230	0.507	0.323	0.232	0.823	0.902	0.303	0.833	0.993	0.981	0.981
Jeason	LLOVOL	ac	0.544	0.825	0.545	0.555	0.507	0.870	c = 5 0000 04	c = 9 0270 05	c = 9 7240.05	d = 1 cc = 0.001	d = 1 cc = 0.001	d = 1 cc = 0.001	0.525	0.513	0.911
		hm	ncomn = 8	ncomn = 9	ncomp = 10	c = 1	c = 1	c = 1	c = 1	s = 0.557C 05,	c = 2	c = 2	c = 0.25	c = 0.25	mtn/ = 557	mtry = 3/13	mtry = 229
			0 001	0 044		0.077	0.672	0 072	0 720	0.704	0.071		0.25	0.25		0.067	0.067
		Knn	0.391	0.944	0.397	0.577	0.072	0.575	0.750	0.704	0.9/1	0.976	0.005	0.974	0.575	0.507	0.907
Sassar		30	0.524	0.705	0.525	0.910	0.338	0.002	0.362	0.353	0.014	0.951	0.355	0.030	0.050	0.001	0.079
JedSUII	r DADAN	au	0.635	0.722	0.654	0.602	0.020	0.003	0.4/5	0.481	0.799	d = 1 cc = 0.01 -	d=2 cc=0.001	d = 1 cc = 0.001	0.003	0.652	0.634
		hm	ncomn - 5	ncomn - 0	ncomn - F	o - 1	o - 1	o = 1	s = 4.1/Ue-U4,	s = 8.772e-05,	s = 9.081e-05,	u = 1, sc = 0.01, c	u = 2, sc = 0.001,	u = 1, sc = 0.001,	mtr 22	mtn/ - 2207	mtor - 40
			ncomp = 5	ncomp = 8	ncomp = 5	c=1	c=1	c=1	c = 2	c = 2	c=2	= 0.25	c = 0.25	c = 0.25	1111 y = 22	muy = 326/	mury = 46
		AUC	0.957	0.870	0.969	0.964	0.742	0.935	0.737	0.745	0.942	0.958	0.727	0.929	0.956	0.940	0.940
6 a a	DANAGE	крр	0.777	0.025	0.804	0.813	0.495	0.737	0.302	0.308	0.734	0.808	0.485	0.737	0.815	0.772	0.777
season	RANACR	ac	0.960	0.968	0.969	0.973	0.459	U.848	0.970	0.351	0./31	. 0.980	0.503	0.823	0.958	0.900	0.912
		hm	ncomn - 10	ncom= - 0	ncome - 4	1	o - 1	o = 1	s = 0.240e-04,	s = 0.757e-U5,	s = 0.00/e-05,	u = 1, scale =	u - 1, St = 0.001,	u = 1, St = 0.001,	mtru - AC	mtru - 40	mtn: - 74
			ncomp = 10	11comp = 9	1 000	c=1	c=1	c=1	C=1	C = 2	c = 2	0.01, C = 0.25	c = 0.25	c = 0.25	1111 y = 46	1111Y = 49	111LTY = 74
		Knn	0.398	0.990	0.057	0.900	0.024	0.923	0.543	0.598	0.903	0.957	0.0//	0.910	0.302	0.957	0.95/
		1,1,1,1,1	0.540	0.249	0.33/	0.200	0.2.1	0.700	0.192	0.125	0.030	0.9/2	0.312	0.700	0.342	1.000	0.001

			PLS			SVMI			SVMr			SVMp			RF	
Level species	eval.	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	ImpInt	ImpLog	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	Impint	ImpLog	ZeroInt-pP	Impint	ImpLog
Diversity ANTODO	ac	0.426	0.400	0.327	0.369	0.363	0.251	0.287	0.277	0.232	0.383	0.387	0.306	0.283	0.356	0.344
								s = 3.734e-04.	s = 8.770e-05.	s = 8.107e-05.	d = 1. sc = 0.01. c	d = 2, sc = 0.001.	d = 2, sc = 0.01, c			
	hm	ncomp - 2	ncomn - 2	ncomn - 7	c = 1	c - 1	c = 1	c-7	c-2	c = 2	-0.25	c = 0.25	-0.25	mtn/ - 5727	mtn/ - 4150	mtny - 2567
		0 222	0 E 00	0 546	0.521	0.410	0.276	0.470	0.492	0.505	- 0.23	0.23	- 0.23	0.465	0.410	1111 y = 2307
	AUC	0.552	0.566	0.546	0.521	0.419	0.570	0.470	0.462	0.505	0.377	0.494	0.454	0.403	0.419	0.420
	крр	-0.061	0.183	0.085	0.164	0.100	0.033	0.021	0.008	0.013	0.164	0.168	0.035	0.072	0.176	0.157
Diversity AVEPUB	ac	0.411	0.414	0.411	0.317	0.173	0.262	0.212	0.157	0.228	0.361	0.326	0.268	0.337	0.317	0.331
								s = 3.855e-04,	s = 8.450e-05,	s = 8.773e-05,	d = 2, sc = 0.001,	d = 2, sc = 0.001,	d = 1, sc = 0.001,			
	bm	ncomp = 7	ncomp = 9	ncomp = 7	c = 1	c = 1	c = 1	c = 4	c = 2	c = 2	c = 0.25	c = 0.25	c = 0.25	mtry = 1584	mtry = 372	mtry = 3838
	AUC	0.546	0.645	0.723	0.499	0.500	0.544	0.495	0.497	0.468	0.539	0.564	0.586	0.543	0.506	0.507
	Крр	0.095	0.225	0.222	0.106	-0.080	0.059	0.002	-0.019	0.034	0.151	0.098	0.062	0.136	0.146	0.154
Diversity DACGLO	ac	0 342	0 269	0 447	0 257	0 259	0 276	0.250	0 215	0 153	0 306	0 255	0 246	0.257	0 243	0 233
bireisity biredeo	ac	0.012	0.205	0.117	0.257	0.200	0.270	s = 4 651e-04	s = 8 512e=05	s = 8 615e-05	d = 1  sc = 0.001	d = 1  sc = 0.001	d = 1 sc =	0.257	0.215	0.200
	hm	ncomn - 10	ncomn - 2	ncomn - 7	c = 1	c <b>-</b> 1	c = 1	3 = 4.051C 04,	3 = 0.5120 05,	3 = 0.0150 05,	u = 1, 3c = 0.001,	u = 1, 3c = 0.001,	0,001, c = 0,25	mtn/ - 20	mtn/ - 2017	mtru - 1594
	DIII	ncomp = 10	ncomp = 2	ncomp = 7	L-1	L-1	L-1	L = 2	L = 2	C-2	L = 2	C = 0.25	0.001, C = 0.25	1111y = 20	1111y - 2017	1111y - 1564
	AUC	0.659	0.441	0.729	0.649	0.546	0.447	0.520	0.478	0.348	0.639	0.528	0.456	0.475	0.473	0.471
	Крр	0.175	0.055	0.262	0.020	0.008	0.101	0.004	0.000	0.018	0.053	-0.007	0.074	0.043	0.069	0.053
Diversity FESRUB	ac	0.558	0.576	0.610	0.540	0.273	0.376	0.287	0.239	0.347	0.533	0.344	0.393	0.498	0.412	0.426
								s = 5.941e-04,	s = 8.791e-05,	s = 8.764e-05,	d = 1, sc = 0.1, c	d = 2, sc =	d = 1, sc = 0.001,			
	bm	ncomp = 8	ncomp = 8	ncomp = 9	c = 1	c = 1	c = 1	c = 2	c = 2	c = 2	= 0.25	1e+05, c = 0.25	c = 0.25	mtry = 2185	mtry = 292	mtry = 372
	AUC	0.673	0.766	0.824	0.686	0.514	0.666	0.482	0.436	0.627	0.690	0.503	0.679	0.731	0.654	0.651
	Kpp	0.147	0.448	0.461	0.354	0.047	0.202	0.045	0.030	0.211	0.366	0.144	0.255	0.312	0.254	0.258
Diversity HOLLAN	20	0.406	0 380	0 314	0.380	0.236	0 116	0.248	0.213	0.105	0 394	0.231	0.250	0.300	0 168	0.140
Diversity Hoterin	uc	0.400	0.500	0.514	0.500	0.230	0.110	c = E 4490.04	c = 0.0E60.0E	c = 0 7020 OF	d = 2 cc = 0.001	d = 2 cc = 0.01 c	d = 2 cc = 0.1 c	0.500	0.100	0.140
	h				- 1	- 1	- 1	5 - 5.4402-04,	5 - 9.0502-05,	s = 0.762e-03,	u = 5, St = 0.001,	u = 5, St = 0.01, t	u = 5, St = 0.1, t			
	bm	ncomp = /	ncomp = 10	ncomp = 6	c = 1	c = 1	C = 1	c = 2	c = 2	c = 2	c = 0.5	= 0.25	= 0.25	mtry = 33	mtry = 24	mtry = 17
	AUC	0.584	0.724	0.538	0.567	0.563	0.575	0.435	0.445	0.563	0.524	0.599	0.532	0.494	0.363	0.362
	Крр	0.276	0.189	0.097	0.150	0.005	-0.078	0.052	0.001	-0.051	0.185	0.040	-0.003	0.095	0.026	-0.022
Diversity PHLPRA	ac	0.465	0.428	0.442	0.427	0.275	0.341	0.299	0.246	0.228	0.436	0.340	0.334	0.350	0.347	0.356
								s = 3.831e-04,	s = 9.177e-05,	s = 8.663e-05,	d = 1, sc = 0.1, c	d = 2, sc = 10, c =	d = 3, sc = 0.001,			
	bm	ncomp = 10	ncomp = 10	ncomp = 10	c = 1	c = 1	c = 1	c = 4	c = 2	c = 1	= 0.25	0.25	c = 0.25	mtry = 832	mtry = 26	mtry = 195
	AUC	0.735	0.669	0.725	0.697	0.519	0.642	0.557	0.509	0.574	0.690	0.531	0.648	0.642	0.598	0.599
	Knn	0.358	0.222	0.252	0.231	0.038	0.123	0.059	0.020	0.113	0.240	0.120	0.134	0.128	0.140	0.151
Diversity POAPRA	20	0.543	0.490	0.670	0.464	0.215	0.328	0 3/8	0.252	0.281	0.462	0.256	0.362	0.523	0.328	0 319
Diversity FORTIN	uc	0.545	0.450	0.070	0.404	0.215	0.520	c = 6 1940-04	c = 7.964o-05	c = 9 6210-05	d = 1 cc = 0.01 c	d = 2 cc = 0.01 c	d = 1 cc = 0.001	0.525	0.520	0.515
	h				- 1	- 1	- 1	3 - 0.1846-04,	3 = 7.304e-03,	3 = 0.0310-00,	u = 1, 3c = 0.01, c	u = 3, 3c = 0.01, c	u = 1, 3c = 0.001,			
	Dm	ncomp = 10	ncomp = 10	ncomp = 9	0 777	0.500	0 505	0.534	C=2	C = 2	= 0.25	= 0.25	C=0.25	mtry = 1861	mury = 5737	mury = 5294
	AUC	0.576	0.770	0.841	0.777	0.509	0.606	0.524	0.472	0.672	0.820	0.589	0.626	0.725	0.534	0.534
	Крр	0.089960727	0.3199708	0.51528822	0.283812	-0.05768287	0.1119529	0.1187996	0.03829966	0.13143338	0.08249158	0.038571429	0.200680272	0.33603896	0.141774892	0.110329485
Diversity CENJAC	ac	0.654	0.425	0.680	0.671	0.425	0.619	0.238	0.233	0.473	0.683	0.393	0.574	0.725	0.678	0.691
								s = 4.364e-04,	s = 1.021e-04,	s = 8.301e-05,	d = 1, sc = 0.01, c	d = 1, sc = 0.001,	d = 1, sc = 0.001,			
	bm	ncomp = 6	ncomp = 9	ncomp = 10	c = 1	c = 1	c = 1	c = 2	c = 2	c = 4	= 0.25	c = 0.25	c = 0.25	mtry = 2567	mtry = 557	mtry = 654
	AUC	0.662	0.618	0.869	0.827	0.647	0.743	0.447	0.511	0.742	0.808	0.577	0.760	0.852	0.796	0.796
	Крр	0.18579932	0.21612666	0.5547374	0.5374325	0.2526725	0.4811207	0.009583333	0.02154762	0.3440957	0.54680451	0.22065476	0.441618567	0.6044974	0.5525493	0.5679413
Diversity GERPRA	ac	0.400	0.421	0.455	0.313	0.184	0.193	0.174	0.102	0.153	0.313	0.261	0.201	0.418	0.212	0.243
,								s = 6 170e=04	s = 8 801e-05	s = 8 708e-05	d=1 sc=0.1 c	d = 2  sc = 0.001	d = 1  sc = 0.001			
	hm	ncomp - 10	ncomn - 6	ncomn - 5	c = 1	c – 1	c = 1	s=0.170c 04,	5 = 0.001C 05,	s = 0.700c 05,	-0.25	a = 2, 3c = 0.001,	c = 0.25	mtny - 1995	mtn/ - 2929	mtn/ - 2017
		ncomp = 10	ncomp = 0	ncomp = 5	0.425	0.472	0.47	0.553	0.547	0.170	= 0.25	0.25	0.25	- Hitty - 4885	1111 y = 3838	111try = 2017
	AUC	0.561	0.613	0.684	0.435	0.472	0.417	0.552	0.517	0.476	0.451	0.511	0.435	0.544	0.454	0.453
	крр	0.073	0.214	0.267	0.090	-0.067	-0.009	-0.047	-0.001	0.035	0.070	0.056	0.002	0.206	0.012	0.035
Diversity KNAARV	ас	0.293	0.354	0.269	0.229	0.214	0.253	0.171	0.143	0.113	0.286	0.236	0.236	0.363	0.230	0.219
								s = 4.266e-04,	s = 8.949e-05,	s = 8.740e-05,	d = 2, sc = 1, c =	d = 2, sc = 0.001,	d = 1, sc = 0.001,			
	bm	ncomp = 4	ncomp = 1	ncomp = 5	c = 1	c = 1	c = 1	c = 8	c = 2	c = 0.25	0.25	c = 0.25	c = 0.25	mtry = 5737	mtry = 768	mtry = 4507
	AUC	0.659	0.554	0.541	0.435	0.524	0.362	0.520	0.461	0.545	0.611	0.547	0.367	0.476	0.445	0.445
	Крр	0.150	0.140	0.057	-0.003	-0.013	0.069	-0.060	-0.069	0.017	0.070	0.026	0.040	0.181	0.050	0.041
Diversity LEUVUL	ac	0.392	0.387	0.315	0.322	0.238	0.156	0.277	0.152	0.161	0.337	0.259	0.185	0.296	0.215	0.218
,								s = 4.218e-04.	s = 8.432e-05.	s = 8.750e-05.	d = 1. sc = 0.001.	d = 3. sc = 0.001.	d = 3. sc = 0.001.			
	hm	ncomp - 2	ncomp = 10	ncomn - 9	c = 1	c – 1	c = 1	c-7	c-2	c = 0.25	c = 2	c = 0.25	c = 0.25	mtn/ - 1/1	mtny - 9	mtn/ - 12
	ALIC	10011p = 5	ncomp = 10	0 E70	0.454	0.402	0.415	0.472	0.400	0.25	0.401	0.25	0.23	0 402	0.204	0.207
	AUC	0.595	0.040	0.372	0.431	0.462	0.415	0.475	0.469	0.515	0.491	0.505	0.556	0.492	0.594	0.597
	крр	0.170	0.179	0.091	0.096	-0.008	-0.104	0.042	-0.092	-0.017	0.119	0.042	0.004	0.071	-0.006	-0.008
Diversity PLALAN	ас	0.359	0.367	0.374	0.331	0.222	0.243	0.317	0.314	0.262	0.345	0.297	0.271	0.305	0.259	0.264
								s = 4.443e-04,	s = 8.543e-05,	s = 8.548e-05,	d = 2, sc = 0.01, c	d = 2, sc = 0.01, c	d = 1, sc = 0.001,			
	bm	ncomp = 6	ncomp = 2	ncomp = 1	c = 1	c = 1	c = 1	c = 2	c = 2	c = 4	= 0.25	= 0.25	c = 0.25	mtry = 102	mtry = 2	mtry = 8
	AUC	0.724	0.577	0.579	0.505	0.504	0.483	0.482	0.465	0.473	0.556	0.496	0.496	0.526	0.466	0.050
	Крр	0.205	0.151	0.172	0.109	-0.028	0.007	0.095	0.092	0.045	0.129	0.088	0.040	0.076	0.050	0.053
Diversity RANACR	ac	0.345	0,473	0,377	0,281	0.222	0.252	0,232	0,119	0,153	0.308	0.232	0.259	0,423	0.356	0,351
,								s = 6.415e-04	s = 9.009e-05	s = 8.763e-05	d = 1. sc = 0.001	d = 1. sc = 0.001	d = 1. sc = 0.001		2.250	
	hm	ncomn - 9	ncomn - 7	ncomn – 1	c = 1	c = 1	c = 1	c - 9	c = 0.25	c-7	- 1, 50 0.001, c - A	c=0.25	c = 0.25	mtry = 2260	mtry = 4150	mtry = 5727
		0 573	n cor	n 600	0 501	0 520	0 554		0.405	0.504	0.500	0.23	0.25	0 6/0		y = 3/3/ 0 E44
	AUC	0.573	0.090	0.088	0.591	0.530	0.554	0.504	0.495	0.504	0.589	0.508	0.624	0.040	0.545	0.544
	крр	0.031	0.253	0.149	0.040	-0.011	0.056	0.028	U.003	U.011	0.073	0.016	0.065	0.238	0.135	0.148

ImpLog 0.990 mtry = 306 1.000 0.976 0.988 mtry = 3 1.000 0.987 mtry = 268 n 1.000 0.973 0.988 mtry = 2 1.000 0.987 ImpInt 0.989 RF 
 mpLog
 ZeroInt-pP
 Implut
 implue
 ZeroInt-pP
 Implue
 Implue
 ZeroInt-pP
 Implue
 Implue
 ZeroInt-pP
 Implue
 Implue
 ZeroInt-pP
 Implue
 Implue
 ZeroInt-pP
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 0.988
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 1.000
 SVMp MTBLS2140 SVMr ImpLog 1.000 c = 1 0.994 0.997 0.987 c = 1 0.950 0.986 ImpInt 0.999 SVMI c = 1 1.000 1.000 0.988 c = 1 0.951 0.987 1.000 ImpLog ZeroInt-pP 
 ncomp = 6
 ncomp = 18
 ncomp = 3

 c
 1.000
 1.000
 1.000

 1.000
 0.995
 1.000

 0.994
 0.970
 1.000

 ncomp = 30
 ncomp = 20

 ncomp = 20
 0.994
 0.976
 1.000 ImpInt 1.000 PLS ZeroInt-pP 1.000 eval. ac AUC AUC AUC Kpp Data set species Species Level FG

Table 1: continued – MTBLS2140

#### APPENDIX - CHAPTER 3

**Supplement Table 1: Plant species indices.** Plant species richness and Shannon were recorded in each season for each plot separately. Seasons represent sampling in spring (E), early summer (F), late summer (G) and autumn (H) of the 2018 growing season. Only identified species were included in the analysis. Species Shannon is shown as calculation for each species. Due to the number of species, the table is split across multiple parts: Shannon & Richness, FG legume, FG herb, FG grass.

#### (Shannon & Richness Season 2018 E)

Season	plot	observed Shannon all species per plot (pShan)	observed Shannon FG grass per plot (Shan_grass)	observed Shannon FG legume per plot (Shan_legume)	observed Shannon FG herb per plot (Shan_herb)	number of species per plot (pRich)
2018_E	A002	2.099	0.701	0.147	1.250	24
2018_E	A003	2.315	0.753	0.190	1.373	20
2018_E	A005	2.417	0.696	0.156	1.565	20
2018_E	A009	1.894	0.259	0.112	1.522	20
2018_E	A010	1.769	0.540	0.115	1.114	18
2018_E	A011	1.513	0.099	0.275	1.139	17
2018_E	A013	2.141	0.052	0.337	1.752	19
2018_E	A016	2.594	0.279	0.389	1.925	27
2018_E	A018	2.249	0.496	0.326	1.427	20
2018_E	A020	1.624	0.159	0.036	1.429	19
2018_E	A026	2.003	1.013	0.206	0.780	20
2018_E	A027	1.685	0.288	0.052	1.345	14
2018_E	A030	1.790	0.101	0.250	1.439	12
2018_E	A035	1.867	0.527	0.255	1.085	15
2018_E	A040	2.032	0.367	0.110	1.555	16
2018_E	A042	1.332	0.071	0.118	1.143	10
2018_E	A043	2.134	0.168	0.529	1.438	18
2018_E	A044	1.880	0.388	0.508	0.985	17
2018_E	A045	1.858	0.937	0.683	0.238	14
2018_E	A046	1.723	0.185	0.859	0.680	15
2018_E	B048	1.898	0.079	0.415	1.404	17
2018_E	B051	2.066	0.902	0.375	0.789	17
2018_E	B054	1.995	0.523	0.432	1.040	19
2018_E	B057	2.396	0.365	0.449	1.582	20
2018_E	B059	2.506	0.479	0.327	1.701	19
2018_E	B060	2.629	0.747	0.338	1.544	20
2018_E	B064	1.993	0.602	0.369	1.022	15
2018_E	B067	1.831	0.799	0.477	0.555	13
2018_E	B071	2.346	0.252	0.504	1.590	17
2018_E	B073	2.347	0.854	0.301	1.192	15
2018_E	B075	1.609	0.381	0.436	0.792	13
2018_E	B080	2.184	0.376	0.581	1.228	18
2018_E	B081	1.686	0.452	0.126	1.109	11
2018_E	B085	1.780	0.350	0.502	0.928	19
2018_E	B090	1.764	0.497	0.331	0.936	14
2018_E	B092	2.233	1.157	0.248	0.828	22
2018_E	C097	1.910	0.972	0.171	0.767	13
2018_E	C103	1.983	0.611	0.228	1.144	16
2018_E	C109	1.733	0.487	0.119	1.126	10
2018_E	C110	2.154	0.654	0.222	1.278	19
2018_E	C114	1.404	0.876	0.025	0.503	11
2018_E	C115	2.436	0.506	0.432	1.499	17
2018_E	C121	1.712	0.425	0.108	1.179	19
2018_E	C131	1.865	0.592	0.222	1.051	17
2018_E	C133	2.504	0.412	0.182	1.910	18
2018_E	C135	1.613	0.358	0.140	1.115	14
2018_E	C136	1.718	0.527	0.272	0.919	13
2018_E	C137	2.020	0.885	0.257	0.878	20

# Supplement Table 1: Plant species indices – continued (Shannon & Richness Season 2018 F & G)

Season	plot	observed Shannon all species per plot (pShan)	observed Shannon FG grass per plot (Shan_grass)	observed Shannon FG legume per plot (Shan_legume)	observed Shannon FG herb per plot (Shan_herb)	number of species per plot (pRich)
2018_F	A002	1.625	0.576	0.085	0.965	8
2018_F	A003	2.086	0.688	0.146	1.252	12
2018_F	A005	1.994	0.549	0.138	1.307	11
2018_F	A009	1.680	0.441	0.000	1.239	8
2018 F	A011	1.110	0.000	0.184	1 102	9
2018_F	A013	1.232	0.162	0.162	0.908	7
2018_F	A016	2.076	0.227	0.399	1.451	16
2018_F	A018	2.090	0.560	0.070	1.460	12
2018_F	A020	1.293	0.085	0.000	1.208	10
2018_F	A026	1.046	0.518	0.061	0.467	9
2018_F	A027	1.098	0.000	0.000	1.098	7
2018_F	A030	1.345	0.000	0.000	1.345	6
2018_F	AU 35	1,606	0.453	0.093	1.060	10
2018 F	4040	0.771	0.234	0.000	0.771	,
2018_F	A043	0.822	0.000	0.280	0.542	7
2018_F	A044	1.066	0.221	0.364	0.481	6
2018_F	A045	2.156	1.396	0.242	0.519	13
2018_F	A046	1.324	0.138	0.354	0.832	10
2018_F	B048	1.333	0.197	0.197	0.938	8
2018_F	8051	1.474	0.601	0.133	0.740	6
2018_F	B054	1.008	0.332	0.314	0.362	5
2018_F	8057	1.828	0.786	0.099	0.943	9
2018_F	B050	1.872	0.510	0.431	1.520	10
2018_F	B064	0.768	0.152	0.159	0.458	9
2018_F	B067	1.645	0.972	0.199	0.475	9
2018_F	B071	1.454	0.491	0.295	0.668	7
2018_F	B073	1.962	0.964	0.063	0.935	10
2018_F	B075	1.496	0.681	0.196	0.619	6
2018_F	8080	1.072	0.303	0.186	0.582	8
2018_F	8081	1.638	0.675	0.144	0.819	10
2018_F	8085	1.219	0.000	0.508	0.711	7
2018 F	8092	1.395	1.019	0.000	0.376	8
2018 F	C097	1.481	0.316	0.000	1.165	10
2018_F	C103	1.312	0.643	0.052	0.617	7
2018_F	C109	1.914	0.570	0.184	1.160	11
2018_F	C110	2.244	0.365	0.222	1.658	14
2018_F	C114	1.051	0.879	0.000	0.172	8
2018_F	C115	1.947	0.363	0.267	1.318	11
2018_F	C121	1.328	0.000	0.000	1.328	9
2018_F	C131	1 294	0.227	0.000	0.204	6
2018 F	C135	1.034	0.177	0.067	0.931	7
2018 F	C136	1.597	0.627	0.238	0.732	8
2018_F	C137	1.170	0.335	0.000	0.835	5
Season	plot	observed Shannon all species per plot (pShan)	observed Shannon FG grass per plot (Shan grass)	observed Shannon FG legume per plot (Shan legume)	observed Shannon FG herb per plot (Shan herb)	number of species per plot (pRich)
Season 2018_G	plot A002	observed Shannon all species per plot (pShan) 1.958	observed Shannon FG grass per plot (Shan_grass) 0.785	observed Shannon FG legume per plot (Shan_legume) 0.138	observed Shannon FG herb per plot (Shan_herb) 1.034	number of species per plot (pRich) 12
Season 2018_G 2018_G	plot A002 A003	observed Shannon all species per plot (pShan) 1.958 2.339	observed Shannon FG grass per plot (Shan_grass) 0.785 0.468	observed Shannon FG legume per plot (Shan_legume) 0.138 0.289	observedShannon FG herb per plot (Shan_herb) 1.034 1.582	number of species per plot (pRich) 12 20
Season 2018_G 2018_G 2018_G	plot A002 A003 A005	observed Shannon all species per plot (pShan) 1.958 2.339 2.023	observed Shannon FG grass per plot (Shan_grass) 0.785 0.468 0.461	observed Shannon FG legume per plot (Shan_legume) 0.138 0.289 0.078	observed Shannon FG herb per plot (Shan_herb) 1.034 1.582 1.484	number of species per plot (pRich) 12 20 13
Season 2018_G 2018_G 2018_G 2018_G	plot A002 A003 A005 A009	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.324	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.461 0.395	observed Shannon FG legume per plot (Shan_legume) 0.138 0.289 0.078 0.045	observed Shannon FG herb per plot (Shan_herb) 1.034 1.582 1.484 1.885	number of species per plot (pRich) 12 20 13 19
Season 2018_G 2018_G 2018_G 2018_G 2018_G	plot A002 A003 A005 A009 A010	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.324 1.745	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.461 0.395 0.395	observed Shannon FG legume per plot Shan_Jegume) 0.138 0.289 0.078 0.045 0.228	observedShannon FG herb per plot (Shan_herb) 1.034 1.582 1.484 1.885 1.855 1.162	number of species per plot (pRich) 12 20 13 19 10
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.024 1.745 1.795 2.000	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.461 0.395 0.355 0.170 0.000	observed Shannon FG legume per plot Shan_legume) 0.138 0.239 0.078 0.078 0.228 0.225 0.225	observedShannon FG herb par plot Shan_herb) 1.034 1.592 1.484 1.885 1.162 1.401	number of species per plot (pRich) 12 20 13 19 10 14 14
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 a016	observed Shannon all species per plot (pShan) 1.958 2.033 2.023 2.324 1.745 1.796 1.638 9 543	observed Shannon FG grass per plot (Shan_grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.170 0.049 0.015	observed Shannon FG lagume per plot (Shan_Jegume) 0.138 0.078 0.078 0.445 0.228 0.225 0.213 0.30	observed Shannon FG herb per plot (Shan_herb) 1.034 1.522 1.464 1.855 1.162 1.401 1.377 2.059	number of species per plot (přich) 12 20 13 19 10 14 14 14 19
Sesson 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A011 A016 A018	observed Shannon all species per plot (pShan) 1.958 2.023 2.324 1.745 1.756 1.638 2.543 2.543	observed Shannon FG grass per plot (Shan_grass) 0.785 0.468 0.461 0.355 0.355 0.170 0.048 0.152 0.075	observed Shannon FG legume per plot (Shan_legume) 0.138 0.239 0.078 0.045 0.245 0.225 0.213 0.302 0.130	observed5hannon FG herb per plot (Shan_herb) 1.034 1.522 1.484 1.855 1.162 1.401 1.377 2.089 1.333	number of species per plot (pRich) 12 20 13 19 10 14 14 14 15
Sesson 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 A016 A018 A020	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.638 2.543 2.543 1.403	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.468 0.395 0.395 0.170 0.048 0.152 0.745 0.049	observed Shannon FG legume per plot Shan_Jegume) 0.138 0.289 0.078 0.45 0.225 0.213 0.302 0.130 0.000	observedShannon FG herb par plot (Shan_herb) 1.034 1.532 1.484 1.855 1.162 1.401 1.377 2.089 1.333 1.355	number of species per plot (přich) 12 20 13 19 10 14 14 18 15 9
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 A016 A018 A020 A026	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.034 1.745 1.745 1.638 2.543 2.268 1.403 1.252	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.461 0.335 0.355 0.370 0.355 0.170 0.049 0.152 0.745 0.049	observed Shannon FG legume per plot Shan_legume) 0.138 0.239 0.078 0.045 0.228 0.228 0.225 0.231 0.302 0.130 0.000 0.046	observedShannonFG herb per plot Shan_herb) 1.034 1.592 1.444 1.855 1.162 1.401 1.377 2.089 1.393 1.355 0.763	number of species per plot (pRich) 12 20 13 19 10 14 14 18 15 9 14
Sesson 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A010 A011 A013 A016 A018 A020 A026 A027	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.024 1.745 1.795 1.638 2.543 2.268 1.403 1.292 1.999	observed Shannon FG grass per plot (Shan_grass) 0.785 0.468 0.461 0.395 0.395 0.370 0.470 0.469 0.452 0.152 0.745 0.469 0.469	observed Shannon FG legume per plot (Shan_legume) 0.138 0.239 0.078 0.045 0.228 0.228 0.225 0.213 0.302 0.130 0.000 0.046 0.040 0.040 0.243	observedShannon FG herb per plot (Shan_herb) 1.034 1.522 1.464 1.855 1.462 1.401 1.377 2.065 1.333 1.355 0.763 1.600	number of species per plot (pRich) 12 20 13 19 10 14 14 14 18 15 9 15 9 14 15
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 A016 A018 A020 A026 A027 A030	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.324 1.745 1.796 1.638 2.543 2.268 1.403 1.292 1.999 1.359	observed Shannon FG grass per plot (Shan_grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.170 0.468 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.395 0.483 0.483 0.483 0.499 0.483 0.499 0.483 0.499 0.483 0.499	observed Shannon FG lagume per plot (Shan_legume) 0.138 0.239 0.078 0.045 0.228 0.225 0.213 0.213 0.300 0.300 0.046 0.243 0.243	observed Shannon FG herb per plot (Shan_herb) 1.034 1.522 1.464 1.855 1.462 1.401 1.377 2.089 1.393 1.395 0.763 1.600 1.459	number of species per plot (pRich) 12 20 13 19 10 14 14 18 15 9 14 15 5 9 14 15 5 9
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 A016 A018 A026 A027 A030 A035	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.638 2.543 1.643 1.443 1.292 1.959 1.359	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.468 0.355 0.355 0.170 0.048 0.152 0.745 0.483 0.649 0.483 0.667 0.483	observed Shannon FG legume per plot Shan_Jegume) 0.138 0.289 0.078 0.445 0.222 0.223 0.223 0.302 0.130 0.000 0.046 0.243 0.000 0.184	observedShannon FG herb per plot (Shan_herb) 1.034 1.532 1.484 1.855 1.162 1.401 1.377 2.089 1.333 1.355 0.763 1.600 1.359 1.323	number of species per plot (pfich) 12 20 13 19 10 14 14 18 5 9 14 15 9 14 16 7 7
Sesson 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 A013 A013 A013 A013 A020 A022 A027 A027 A030 A035 A040	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.324 1.745 1.796 1.698 2.543 2.543 2.268 1.403 1.252 1.989 1.959 1.955 2.645 1.955	observed Shannon PG grass per plot Shan_grass) 0.785 0.468 0.461 0.355 0.355 0.370 0.048 0.152 0.745 0.745 0.483 0.067 0.067 0.067 0.055 0.435 0.057	observed Shannon FG legume per plot Shan_legume) 0.138 0.289 0.070 0.045 0.228 0.225 0.213 0.302 0.130 0.000 0.046 0.243 0.046 0.243 0.046 0.243 0.030	observedShannon FG herb par plot Shan_herb) 1.034 1.034 1.582 1.484 1.885 1.162 1.401 1.377 2.089 1.393 1.355 0.763 1.600 1.359 1.323 2.119 2.119	number of species per plot (pRich) 12 20 13 19 10 14 14 18 15 9 14 16 16 7 14 20 2
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A010 A011 A013 A016 A018 A018 A026 A027 A030 A025 A040 A042 A040	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.024 1.745 1.796 1.630 2.543 2.268 1.403 1.292 1.989 1.359 1.965 2.645 1.976	observed Shannon FG grass per plot (Shan, grass) 0.785 0.468 0.461 0.395 0.395 0.355 0.170 0.048 0.152 0.745 0.049 0.483 0.067 0.483 0.067 0.435 0.435 0.435	observed Shannon FG legume per plot Shan_legume) 0.138 0.239 0.078 0.025 0.225 0.225 0.233 0.302 0.130 0.000 0.046 0.243 0.000 0.046 0.243 0.000 0.344 0.034	observed Shannen FG herb per plot Shan_herb) 1.034 1.52 1.444 1.855 1.452 1.401 1.377 2.069 1.393 1.355 0.763 1.650 1.359 1.323 2.119 0.920 1.32	number of species per plot (pRich) 12 20 13 19 10 14 14 18 15 9 1 14 16 7 14 16 7 14 16 20 9
Season 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A010 A011 A011 A013 A016 A016 A027 A026 A027 A030 A026 A027 A035 A040 A042 A044	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.023 1.745 1.795 1.638 2.543 2.268 1.403 1.292 1.403 1.359 1.359 1.359 1.359 1.359 1.355 2.645 0.976 1.676 1.491	observed Shannon FG grass per plot Ghan_grass) 0.785 0.463 0.461 0.395 0.395 0.375 0.170 0.463 0.172 0.4745 0.483 0.064 0.483 0.064 0.483 0.065 0.495	observed Shannon FG legume per plot (Shan_legume) 0.138 0.239 0.078 0.078 0.225 0.225 0.225 0.230 0.130 0.000 0.046 0.243 0.000 0.184 0.000 0.184 0.000 0.184 0.000 0.184 0.000 0.026 0.031	observed Shannon F6 herb per plot (Shan_herb) 1.034 1.522 1.464 1.855 1.462 1.401 1.377 2.065 1.333 1.355 0.763 1.630 1.559 1.232 2.119 0.920 1.357	number of species per plot (pRich) 12 20 13 19 10 14 14 18 15 9 14 15 5 9 14 16 7 14 20 9 14 20 9
Sesson 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A009 A010 A011 A013 A013 A014 A020 A026 A027 A027 A027 A026 A027 A040 A045 A045	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.736 1.638 2.543 2.268 1.403 1.292 1.959 1.359 1.955 2.645 0.976 1.676 1.676 1.481 2.018	observed Shannon FG grass per plot Ghan_grass) 0.785 0.468 0.468 0.395 0.395 0.170 0.468 0.468 0.483 0.649 0.483 0.667 0.483 0.667 0.483 0.667 0.483 0.667 0.483 0.659 0.458 0.455 0.059 0.310	observed Shannon FG legume per plot Shan_Jegume) 0.138 0.289 0.076 0.245 0.225 0.223 0.213 0.302 0.130 0.000 0.046 0.243 0.000 0.184 0.091 0.184 0.091 0.260 0.311 0.250	observedShannon FG herb per plot (Shan_herb) 1.034 1.532 1.484 1.855 1.162 1.401 1.377 2.089 1.333 1.355 0.763 1.359 1.323 2.119 0.920 1.357 0.660 0.467	number of species per plot (pfich) 12 20 13 15 10 14 14 18 15 9 14 15 7 14 20 9 14 20 9 14 20 15 14 20 15 21 21 21 21 21 21 21 21 21 21 21 21 21
Season 2018_6	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A026 A027 A030 A042 A035 A040 A045 A045	observed Shannon all species per plot (pShan) 1.950 2.339 2.033 2.324 1.745 1.745 1.736 2.543 2.543 2.543 2.543 1.403 1.999 1.355 1.995 2.645 0.976 1.401 1.401 2.010 1.431	observed Shannon PG grass per plot Shan_grass) 0.785 0.460 0.461 0.355 0.355 0.370 0.048 0.048 0.048 0.152 0.483 0.667 0.483 0.667 0.483 0.667 0.483 0.657 0.483 0.483 0.659 0.435 0.435	observed Shannon FG legume per plot Shan_legume) 0.138 0.289 0.076 0.455 0.228 0.225 0.213 0.302 0.300 0.466 0.243 0.000 0.466 0.243 0.000 0.314 0.000 0.311 0.298	observedShannon FG herb par plot Shan_herb) 1.034 1.522 1.444 1.855 1.62 1.401 1.377 2.059 1.333 1.355 0.763 1.60 1.359 1.323 2.119 0.920 1.357 0.560 0.467 0.540	number of species per plot (phich) 12 20 13 19 10 14 14 18 15 9 14 16 7 14 20 9 14 20 9 14 20 9 14 20 14 20 14 20 14 20 14 20 14 20 14 20 14 20 14 20 14 20 14 21 21 21 21 21 21 21 21 21 21 21 21 21
Sesson 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6 2018_6	plot A002 A003 A005 A010 A011 A013 A014 A014 A024 A024 A025 A040 A042 A045 A044 A045 A046 B048	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.024 1.745 1.745 1.796 2.543 2.260 1.403 1.252 1.989 1.359 1.955 2.645 0.976 1.676 1.481 2.018 1.489 1.684	observed Shannon PG grass per plot (Shan, grass) 0.785 0.468 0.461 0.335 0.355 0.370 0.045 0.52 0.745 0.049 0.049 0.047 0.067 0.067 0.067 0.067 0.435	observed Shannon PG legume per plot Shan_legume) 0.138 0.239 0.070 0.470 0.228 0.225 0.225 0.302 0.302 0.300 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.302 0.31 0.301 0.290 0.311 0.290 0.371	observed Shannon FG herb per plot Shan_herb) 1.034 1.52 1.44 1.85 1.42 1.40 1.401 1.377 2.089 1.393 1.355 0.763 1.680 1.359 1.323 2.119 0.520 1.323 2.119 0.520 1.357 0.560 0.467 0.540 1.361	number of species per plot (phich) 12 20 13 19 10 14 14 15 9 14 15 7 14 16 7 14 20 9 14 20 9 14 16 20 9 14 15
Sesson 2018_6	plot A002 A003 A005 A019 A010 A011 A013 A013 A013 A020 A026 A027 A030 A035 A040 A042 A043 A042 A043 A045 A045 A045 B048 B051	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.324 1.745 1.745 1.580 2.543 2.543 2.560 1.403 1.292 1.955 2.645 0.976 1.676 1.411 2.018 1.439 1.676	observed Shannon PG grass per plot Ghan_grass) 0.785 0.463 0.461 0.395 0.395 0.395 0.170 0.493 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.423 0.435 0.445 0.455 0.445 0.456 0.459 0.450000000000	observed Shannon FG legume per plot Shan_legume) 0.138 0.289 0.078 0.225 0.225 0.213 0.302 0.300 0.046 0.046 0.046 0.046 0.040 0.046 0.040 0.040 0.184 0.091 0.184 0.091 0.260 0.350 0.350 0.350	observed Shannen FG herb per plot (Shan_herb) 1.034 1.52 1.444 1.805 1.42 1.401 1.37 2.069 1.393 1.355 0.753 1.550 1.520 1.323 1.555 0.753 1.500 1.529 1.323 1.555 0.753 1.59 1.323 1.555 0.753 1.59 1.323 0.753 0.753 1.59 1.325 0.753 1.59 1.325 1.50 1.59 1.325 1.50 1.5	number of species per plot (pRich) 12 20 13 19 10 14 18 15 9 14 18 15 9 14 16 7 7 14 20 9 14 20 9 14 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sesson 2018_6	plot A002 A003 A005 A010 A011 A011 A013 A016 A013 A016 A026 A027 A026 A027 A026 A027 A042 A042 A043 A044 A045 A045 A046 B048 B054	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.324 1.745 1.745 1.766 2.543 2.543 2.640 1.999 1.359 1.965 2.645 0.976 1.676 1.491 2.010 1.439 1.634 1.591 1.591 1.541 1.541 1.521	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.469 0.469 0.469 0.483 0.649 0.483 0.647 0.483 0.647 0.483 0.647 0.483 0.647 0.483 0.649 0.483 0.641 0.490 0	observed Shannon FG legume per plot Shan_legume) 0.138 0.289 0.070 0.225 0.225 0.225 0.302 0.300 0.000 0.046 0.243 0.000 0.184 0.091 0.191 0.091 0.260 0.311 0.260 0.311 0.250 0.350 0.377 0.110	observedShannon FG herb per plot Shan_herb) 1.034 1.522 1.444 1.855 1.162 1.401 1.377 2.089 1.393 1.355 0.763 1.359 1.359 1.323 2.119 0.920 1.337 0.860 0.447 0.940 1.308 0.447 1.59	number of species per plot (pfich) 12 20 13 14 10 14 14 18 15 9 14 15 9 14 16 15 9 14 16 15 9 14 16 15 19 11 15 13 11 15 15 19 11
Sesson 2018_6	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A026 A027 A030 A042 A035 A040 A043 A043 A044 B045 A044 B045 B051 B054 B051	observed Shannon all species per plot (pShan) 1.950 2.339 2.033 3.324 1.745 1.755 1.736 2.563 2.563 2.563 2.563 1.403 1.939 1.355 2.645 1.935 2.645 1.955 2.645 1.411 2.010 1.421 1.421 1.421 1.634 1.63	observed Shannon PG grass per plot Shan_grass) 0.785 0.460 0.461 0.355 0.355 0.355 0.355 0.420 0.483 0.484 0.483 0.484 0	observed Shannon FG legume per plot Shan_legume) 0.138 0.289 0.076 0.445 0.228 0.225 0.225 0.230 0.302 0.300 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.250 0.311 0.250 0.311 0.250 0.311 0.250 0.377 0.150 0.377 0.110 0.357	observed Shannon FG herb per plot Shan_herb) 1.034 1.034 1.62 1.44 1.85 1.62 1.401 1.37 2.09 1.33 1.355 0.763 1.60 1.355 0.763 1.60 1.355 1.323 2.119 0.920 1.357 0.860 0.467 1.362 0.467 1.308 0.467 1.59	number of species per plot (phich) 12 20 13 19 10 14 14 15 9 14 15 9 14 16 7 7 14 20 9 14 20 9 14 20 9 14 15 5 9 14 15 15 11 15 9 13 11 15 9
Sesson 2018_6	plot A002 A003 A005 A010 A011 A013 A014 A014 A024 A024 A024 A025 A040 A043 A044 A045 A044 A044 B044 B044 B044 B044 B044 B044	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.023 1.745 1.745 1.745 2.543 2.260 1.403 1.252 1.989 1.955 2.645 0.976 1.655 2.645 0.976 1.676 1.481 2.018 1.481 2.018 1.591 1.59	observed Shannon PG grass per plot Shan, grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.395 0.470 0.493 0.4940	observed Shannon PG legume per plot Shan_legume) 0.138 0.239 0.070 0.045 0.225 0.225 0.225 0.302 0.302 0.300 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.243 0.311 0.290 0.311 0.290 0.350 0.377 0.110 0.377 0.110 0.377 0.110 0.377 0.110 0.377 0.316 0.376 0.316 0.376 0.316 0.376 0.31	observed Shannon FG herb per plot Shan_herb) 1.034 1.52 1.444 1.855 1.452 1.401 1.377 2.059 1.393 1.355 0.763 1.680 1.359 1.323 2.119 0.520 1.323 2.119 0.520 1.357 0.660 0.467 0.540 0.467 0.540 0.467 1.357 0.660 0.467 1.357 0.660 0.467 1.357 0.660 0.467 1.362 1.362 1.362 1.375 1.365 1.365 1.375	number of species per plot (pRich) 12 20 13 19 10 14 14 14 15 9 14 15 9 14 15 20 9 14 20 9 14 20 9 14 15 5 9 14 15 5 9 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 5 9 11 15 15 9 11 15 15 9 11 15 15 9 11 15 15 15 15 15 15 15 15 15 15 15 15
2018_6 2018_6	plot A002 A003 A009 A010 A011 A013 A013 A014 A013 A020 A026 A027 A030 A035 A040 A043 A044 A045 A045 A045 B054 B051 B054 B055 B055 B054	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.745 1.638 2.563 2.660 1.403 1.292 1.985 1.955 2.645 1.955 1.676 1.491 2.018 1.439 1.676 1.431 2.018 1.439 1.634 1.551 1.725 1.861 2.552 2.645 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.675 1.67	observed Shannon PG grass per plot Ghan_grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.395 0.404 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.494 0.493 0.494 0	observed Shannon FG legume per plot Shan_Jegume) 0.138 0.289 0.070 0.225 0.225 0.213 0.302 0.302 0.300 0.046 0.243 0.000 0.046 0.243 0.000 0.314 0.000 0.314 0.000 0.311 0.250 0.350	observed Shannon FG herb per plot (Shan_herb) 1.034 1.552 1.434 1.855 1.462 1.401 1.40	number of species per plot (pRich) 12 20 13 14 16 16 17 16 17 14 18 15 9 14 16 7 14 16 7 14 16 17 14 16 17 14 16 17 14 16 17 14 16 17 14 16 17 14 16 17 14 16 17 16 16 16 16 16 16 16 16 16 16
Sesson 2018_6	plot A002 A003 A005 A010 A011 A011 A016 A016 A016 A016 A026 A026 A026 A026 A027 A042 A042 A043 A044 A045 A044 B048 B048 B054 B054 B054 B059 B060 B064	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.324 1.745 1.745 1.745 2.543 2.543 2.543 1.403 1.292 1.999 1.359 2.645 0.976 1.676 1.676 1.451 2.010 1.634 1.591 1.592 1.591 1.59	observed Shannon FG grass per plot Shan_grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.395 0.469 0.469 0.483 0.647 0.483 0.647 0.483 0.647 0.483 0.647 0.483 0.647 0.483 0.645 0.483 0.694 0.491 0	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.076 0.225 0.225 0.225 0.223 0.302 0.300 0.000 0.046 0.243 0.000 0.046 0.243 0.000 0.046 0.243 0.000 0.046 0.243 0.000 0.010 0.101 0.260 0.311 0.260 0.311 0.250 0.310 0.250 0.357 0.310 0.357 0.316 0.357 0.316 0.357	observedShannon FG herb per plot Shan_herb) 1.034 1.522 1.444 1.855 1.162 1.401 1.377 2.089 1.393 1.355 0.763 1.450 1.359 1.323 2.119 0.520 1.357 0.460 0.467 1.357 0.460 0.427 1.357 0.553 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.59 1.033 1.476 1.271 0.523 0.555 0.555	number of species per plot (pfich) 12 20 13 14 16 16 17 14 18 15 9 14 16 7 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 15 15 15 15 15 15 15 15 15 15
Sesson 2018_6	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A026 A027 A030 A042 A035 A040 A043 A043 A044 B045 A044 B045 B046 B051 B054 B054 B054 B055 B050 B054 B054 B054	observed Shannon all species per plot (pShan) 1.950 2.339 2.033 3.324 1.745 1.755 1.756 1.756 2.563 2.563 2.563 2.260 1.403 1.995 2.645 1.995 2.645 1.955 2.645 1.955 1.651 1.624 1.521 1.521 1.624 1.521 1.624 1.624 1.624 1.624 1.625 1.62	observed Shannon PG grass per plot Shan_grass) 0.785 0.460 0.461 0.355 0.355 0.355 0.355 0.420 0.483 0.484 0.483 0.484 0	observed Shannon FG legume per plot Shan_legume) 0.138 0.239 0.070 0.455 0.228 0.225 0.225 0.213 0.302 0.302 0.300 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.311 0.020 0.311 0.298 0.320 0.311 0.298 0.350 0.377 0.110 0.350 0.377 0.110 0.357 0.316 0.391	observed Shannon FG herb per plot Shan_herb) 1.034 1.034 1.62 1.44 1.85 1.62 1.401 1.62 1.401 1.37 2.09 1.33 1.355 0.763 1.50 1.353 1.355 1.323 2.119 0.520 1.367 1.360 0.467 1.367 1.367 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 0.467 1.368 1.456	number of species per plot (phich) 12 20 13 19 10 14 14 15 9 14 16 7 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 15 16 17 16 10 12 11 10 12 15 11 15 15 11 15 15 15 15 15
Sesson 2018_6	plot A002 A003 A009 A010 A011 A013 A013 A014 A013 A020 A026 A027 A030 A027 A030 A042 A042 A042 A042 A042 A044 A045 B044 B044 B044 B044 B044 B044 B051 B054 B054 B054 B057 B057 B057 B057 B057 B057 B057 B057	observed Shannon all species per plot (pShan) 1.958 2.339 2.023 2.023 2.745 1.745 1.745 2.543 2.563 2.563 1.959 1.955 2.645 1.955 2.645 1.955 1.655 1.676 1.481 1.591 1.626 1.591 1.591 1.591 1.684 1.684 1.591 1.684 1.592 1.684 1.684 1.591 1.684 1.591 1.684 1.591 1.684 1.684 1.591 1.684 1.684 1.684 1.591 1.684 1.68	observed Shannon PG grass per plot Ghan_grass) 0.785 0.483 0.461 0.395 0.395 0.395 0.470 0.483 0.474 0.483 0.049 0.483 0.049 0.483 0.049 0.483 0.049 0.483 0.050 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.494 0.493 0.494 0.493 0.494 0.493 0.494 0.493 0.494 0	observed Shannon PG legume per plot Shan_legume) 0.138 0.239 0.078 0.078 0.045 0.225 0.225 0.232 0.332 0.300 0.44	observed Shannon PG herb per plot Shan_herb) 1.034 1.034 1.52 1.44 1.85 1.62 1.401 1.37 2.029 1.33 1.355 0.763 1.60 1.359 1.323 2.119 0.520 1.323 2.119 0.520 1.357 0.860 0.467 0.340 0.467 0.340 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.860 0.467 1.357 0.360 0.467 1.357 0.360 0.467 1.303 1.476 1.353 1.476 1.553 1.653 1.653 1.551 1.655 1.553 1.551 1.553 1.551 1.553 1.551 1.553 1.553 1.551 1.553 1.551 1.553 1.551 1.553 1.553 1.551 1.553 1.553 1.553 1.555 1.553 1.555 1.553 1.555 1.553 1.555 1.553 1.555 1.553 1.555 1.555 1.553 1.555	number of species per plot (pRich) 12 20 13 14 16 14 18 16 17 14 18 16 7 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 15 5 9 13 11 15 9 13 11 15 15 15 15 15 15 15 15 15
Senson 2018_62000000000000000000000000000000000000	plot A002 A003 A003 A010 A011 A013 A013 A013 A014 A013 A020 A020 A027 A030 A030 A035 A040 A042 A042 A045 A045 A045 A045 B045 B051 B053 B055 B055 B055 B055 B055 B057 B057 B057	observed Shannon all species per plot (pShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.736 2.543 2.543 2.563 1.403 1.292 1.355 1.655 2.645 3.355 1.676 1.676 1.676 1.676 1.676 1.676 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.615 1.725 1.661 2.522 2.029 1.625 1.62	observed Shannon G grass per plot Shan_grass) 0.785 0.468 0.461 0.395 0.395 0.395 0.395 0.494 0.494 0.494 0.494 0.494 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.493 0.494 0.	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.225 0.225 0.225 0.221 0.302 0.302 0.300 0.443 0.000 0.443 0.000 0.134 0.000 0.134 0.000 0.134 0.301 0.134 0.301 0.250 0.35	observed Shannon FG herb per plot (Shan_herb) 1.034 1.532 1.434 1.855 1.162 1.401 1.377 2.089 1.335 0.763 1.355 0.763 1.355 1.355 1.359 1.357 0.560 1.367 1.59 1.357 0.561 1.59 1.357 0.563 1.59 1.035 1.59	number of species per plot (pfkic) 12 20 13 14 16 16 16 18 16 18 16 14 18 14 18 14 18 14 18 14 18 14 18 14 18 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 14 18 19 19 14 18 19 19 14 18 19 19 14 18 19 19 14 18 19 19 14 19 19 19 19 19 19 19 19 19 19
Sesson 2018_6	plot A002 A003 A005 A010 A011 A011 A016 A016 A016 A020 A026 A026 A026 A027 A026 A026 A027 A046 A045 A044 A045 A045 A045 B044 B054 B054 B054 B055 B056 B056 B056 B057 B057 B057 B057 B057 B057 B057 B057	observed Shannon sll species per plot (pShan) 1.958 2.339 2.023 3.324 1.745 1.745 1.745 2.543 2.543 2.543 1.003 1.003 1.005 2.645 0.976 1.6777 1.676 1.6	observed Shannon G grass per plot Shan_grass p 0.785 0.460 0.461 0.355 0.355 0.355 0.355 0.354 0.452 0.452 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.454 0.453 0.454 0	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.076 0.228 0.225 0.223 0.223 0.302 0.302 0.300 0.000 0.046 0.443 0.000 0.046 0.243 0.000 0.046 0.341 0.091 0.311 0.260 0.311 0.260 0.311 0.350 0.357 0.316 0.357 0.316 0.357 0.316 0.357 0.316 0.319 0.316 0.357 0.316 0.319 0.316 0.357 0.316 0.319 0.316 0.319 0.310 0.310 0.310 0.310 0.310 0.310 0.310 0.311 0.310 0.310 0.311 0.310 0.310 0.310 0.311 0.310 0.310 0.310 0.311 0.310 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.311 0.310 0.310 0.311 0.310 0.320000000000	observedShannon FG herb per plot Shan_herb) 1.034 1.522 1.444 1.855 1.42 1.401 1.377 2.089 1.393 1.355 1.353 1.355 1.359 1.323 2.119 0.320 1.357 0.560 0.447 1.368 0.447 1.368 0.447 1.368 0.447 1.368 0.447 1.379 1.59 1.373 0.540 1.59 1.59 1.033 1.476 1.59 1.59 1.033 1.476 1.59 1.59 1.51 1.65 1.51 1.65 1.575 1.65 1.51 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.756 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.65 1.756 1.65 1.65 1.65 1.65 1.756 1.65 1.	number of species per plot (pfilo) 12 20 13 14 16 15 14 18 14 18 19 9 14 16 7 7 14 20 9 14 20 9 14 15 9 14 20 9 14 15 15 15 15 15 15 15 15 15 15
Sesson 2018_62000000000000000000000000000000000000	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A020 A020 A020 A020 A020 A035 A040 A045 A043 A044 8054 8054 8054 8055 8055 8055 8055 8	observed Shannon sll species per plot (pShan) 1.950 2.339 2.033 3.324 1.745 1.756 1.756 2.563 2.563 2.260 1.403 1.995 2.645 1.995 2.645 1.955 2.645 1.955 2.645 1.957 1.614 1.511 1.725 1.641 1.511 1.725 1.641 1.512 1.624 1.512 1.624 1.512 1.625 1.634 1.634 1.634 1.634 1.634 1.634 1.634 1.635 1.63	observed Shannon G grass per plot Shan_grass per plot Shan_gras	observed Shannon FG legume per plot Shan_legume) 0.138 0.239 0.076 0.455 0.228 0.225 0.213 0.302 0.302 0.300 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.46 0.243 0.000 0.311 0.020 0.311 0.298 0.320 0.311 0.298 0.350 0.377 0.110 0.357 0.316 0.377 0.110 0.357 0.316 0.393 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.397 0.316 0.393 0.393 0.393 0.393 0.395	observed Shannon FG herb per plot Shan_herb) 1.034 1.034 1.62 1.44 1.85 1.62 1.40 1.62 1.62 1.63 1.65 1.63 1.55 1.63 1.55 1.55 1.63 1.55 1.65 1.55 1.65 1.55 1.65 1.55 1.65 1.55 1.65 1.55	number of species per plot iphich) 12 20 13 14 15 16 17 14 18 15 9 14 16 7 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 14 20 9 20 15 20 20 20 20 20 20 20 20 20 20
Senson 2018_62018_6 2018_6 2018_62018_62018_6 2018_62018_62018_6 2018_62018_62018_6 2018_62018_62018_62018_6 2018_62018_62018_62018_6 2018_62018_62018_62018_6 2018_62018_62018_62018_62018_62018_6 2018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62008_620	plot A002 A003 A005 A010 A011 A013 A013 A014 A013 A020 A020 A020 A027 A030 A030 A035 A040 A042 A043 A044 A045 B044 B054 B054 B054 B054 B055 B064 B055 B064 B057 B057 B067 B073 B073 B075 B060 B073 B075 B075 B075 B075 B075 B075 B075 B075	observed Shannon all species per plot (ipShan) 1.958 2.339 2.031 2.324 1.745 1.745 1.76 1.630 2.543 2.66 1.403 1.292 1.955 1.675	observed Shannon G grass per plot Shan_grass           0.785           0.468           0.461           0.375           0.375           0.375           0.375           0.375           0.478           0.479           0.483           0.474           0.475           0.475           0.476           0.475           0.475           0.470           0.471           0.472           0.473           0.474           0.475           0.470           0.471           0.472           0.473           0.474           0.475           0.474           0.474           0.474           0.474           0.474           0.474           0.474           0.474           0.474           0.474           0.474           0.475           0.471           0.471           0.471           0.471           0.471           0.471	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.225 0.225 0.213 0.302 0.301 0.000 0.046 0.046 0.043 0.000 0.046 0.043 0.000 0.046 0.043 0.000 0.046 0.043 0.000 0.046 0.043 0.000 0.046 0.043 0.000 0.050 0.350 0.350 0.350 0.350 0.350 0.350 0.350 0.350 0.350 0.350 0.350 0.350 0.351 0.35	observed Shannon FG herb per plot (Shan_herb) 1.034 1.552 1.434 1.655 1.452 1.451 1.40	number of species per plot (pRio) 12 20 13 10 14 16 16 17 18 18 19 14 18 19 14 18 19 14 10 19 14 10 10 11 10 11 11 15 11 15 15 15 15 15 15
Sexson 2018_62000000000000000000000000000000000000	plot A002 A003 A005 A010 A011 A013 A013 A014 A013 A020 A020 A027 A020 A027 A040 A042 A043 A044 A045 A045 A045 A045 A045 A045 B045 B051 B057 B059 B059 B057 B057 B057 B057 B057 B057 B057 B057	observed Shannon all species per plot (oShan) 1.958 2.339 2.033 3.324 1.745 1.756 1.756 2.543 2.543 2.645 1.403 1.955 1.657 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.637 1.638 1.755 1.621 1.755 1.655 1.755 1.655 1.755 1.655 1.75	observed Shannon FG grass per plot Shan_grass           0.785           0.468           0.461           0.355           0.375           0.375           0.375           0.375           0.375           0.375           0.375           0.375           0.468           0.475           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471 <td>observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.243 0.225 0.221 0.223 0.302 0.302 0.302 0.304 0.443 0.604 0.443 0.604 0.604 0.604 0.604 0.604 0.604 0.604 0.605 0.550 0.377 0.316 0.350 0.377 0.316 0.357 0.356 0.356 0.357 0.356 0.357 0.356</td> <td>observed Shannon FG herb per plot Shan_herb) 1.034 1.522 1.434 1.855 1.162 1.401 1.377 2.089 1.393 1.355 0.763 1.360 1.359 1.323 2.119 0.920 1.357 0.860 1.357 0.860 1.357 0.840 1.357 1.59 1.033 1.59 1.033 1.59 1.035 1.035</td> <td>number of species per plot (pfile) 12 20 13 14 16 16 14 18 14 18 19 14 18 19 14 20 14 20 14 20 14 20 20 14 20 20 20 20 20 20 20 20 20 20</td>	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.243 0.225 0.221 0.223 0.302 0.302 0.302 0.304 0.443 0.604 0.443 0.604 0.604 0.604 0.604 0.604 0.604 0.604 0.605 0.550 0.377 0.316 0.350 0.377 0.316 0.357 0.356 0.356 0.357 0.356 0.357 0.356	observed Shannon FG herb per plot Shan_herb) 1.034 1.522 1.434 1.855 1.162 1.401 1.377 2.089 1.393 1.355 0.763 1.360 1.359 1.323 2.119 0.920 1.357 0.860 1.357 0.860 1.357 0.840 1.357 1.59 1.033 1.59 1.033 1.59 1.035 1.035	number of species per plot (pfile) 12 20 13 14 16 16 14 18 14 18 19 14 18 19 14 20 14 20 14 20 14 20 20 14 20 20 20 20 20 20 20 20 20 20
Sesson 2018_62000000000000000000000000000000000000	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A020 A020 A020 A020 A020 A020 A020 A02	observed Shannon sll species per plot (oShan) 1.958 2.339 2.023 3.24 1.745 1.745 1.745 1.745 1.630 2.543 2.543 1.927 1.927 1.927 1.955 2.645 0.976 1.675 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.675	observed Shannon G grass per plot Shan_grass) 0.785 0.460 0.461 0.355 0.355 0.355 0.355 0.354 0.452 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.454 0.453 0.454 0.	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.239 0.070 0.455 0.228 0.225 0.223 0.302 0.302 0.301 0.000 0.046 0.443 0.000 0.443 0.000 0.443 0.001 0.443 0.001 0.443 0.001 0.134 0.001 0.243 0.311 0.250 0.311 0.250 0.351 0.357 0.315 0.357 0.351	observed Shannon FG herb per plot Shan_herb) 1.034 1.522 1.444 1.855 1.42 1.401 1.37 2.099 1.333 1.355 0.763 1.360 1.359 1.323 2.119 0.200 1.357 0.860 0.467 1.357 0.860 0.467 1.369 1.377 0.860 0.467 1.393 1.476 1.476 1.591 1.65 1.521 1.65 1.521 1.65 1.521 1.65 1.521 1.65 1.521 1.65 1.521 1.65 1.521 1.65 1.521 1.65 1.521 1.	number of species per plot ipficie) 12 20 13 14 15 16 16 17 14 18 15 9 14 16 7 14 16 17 14 16 19 14 16 19 14 16 19 14 16 19 14 16 19 14 16 19 11 16 10 11 15 10 11 15 10 11 15 10 11 15 15 15 15 15 15 15 15 15
Sesson 2018_62000000000000000000000000000000000000	plot A002 A003 A003 A010 A011 A013 A013 A014 A013 A026 A026 A027 A026 A027 A027 A027 A030 A042 A042 A042 A042 A044 A045 A044 A045 B044 B044 B044 B044 B044 B044 B044 B	observed Shannon all species per plot (pShan) 1.950 2.339 2.033 3.324 1.745 1.756 1.756 2.563 2.563 2.563 2.563 1.403 1.995 2.645 1.995 2.645 1.955 2.645 1.676 1.411 2.018 1.624 1.521 1.624 1.521 1.624 1.521 1.624 1.635 1.634 1.634 1.634 1.634 1.634 1.635 1.634 1.635 1.634 1.635 1.634 1.635 1.634 1.635 1.63	observed Shannon G grass per plot Ghan_grass)           0.785           0.461           0.463           0.461           0.395           0.470           0.471           0.472           0.473           0.474           0.474           0.474           0.474           0.475           0.474           0.474           0.470           0.473           0.470           0.471           0.472           0.473           0.474           0.470           0.471           0.472           0.472           0.473           0.474           0.470           0.471           0.472           0.473           0.471           0.471           0.472           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471 <td>observed Shannon PG legume per plot Shan_legume) 0.138 0.239 0.070 0.455 0.228 0.225 0.213 0.302 0.302 0.300 0.46 0.443 0.006 0.443 0.006 0.443 0.001 0.243 0.000 0.243 0.001 0.243 0.001 0.243 0.031 0.026 0.311 0.298 0.350 0.357 0.316 0.357 0.351 0.351 0.431 0.431 0.431 0.431 0.357 0.351 0.357 0.351 0.</td> <td>observed Shanner FG herb per plot Shan, herb)           1.034           1.532           1.484           1.855           1.41           1.377           2.039           1.333           1.355           0.763           1.360           1.323           2.139           0.520           1.357           0.500           0.467           0.520           1.357           0.520           1.357           0.560           0.467           0.520           1.551           0.560           0.561           1.552           0.563           1.551           1.655           0.523           0.523           0.553           1.551           1.655           0.756           0.751           1.20           1.248           0.516           1.248           0.516           0.546</td> <td>number of species per plot (plic) 12 20 13 10 14 16 17 18 10 10 14 18 19 14 18 19 14 18 19 14 18 19 14 16 17 14 20 9 14 16 17 18 19 19 14 10 19 14 10 10 11 10 11 10 11 11 11 11</td>	observed Shannon PG legume per plot Shan_legume) 0.138 0.239 0.070 0.455 0.228 0.225 0.213 0.302 0.302 0.300 0.46 0.443 0.006 0.443 0.006 0.443 0.001 0.243 0.000 0.243 0.001 0.243 0.001 0.243 0.031 0.026 0.311 0.298 0.350 0.357 0.316 0.357 0.351 0.351 0.431 0.431 0.431 0.431 0.357 0.351 0.357 0.351 0.	observed Shanner FG herb per plot Shan, herb)           1.034           1.532           1.484           1.855           1.41           1.377           2.039           1.333           1.355           0.763           1.360           1.323           2.139           0.520           1.357           0.500           0.467           0.520           1.357           0.520           1.357           0.560           0.467           0.520           1.551           0.560           0.561           1.552           0.563           1.551           1.655           0.523           0.523           0.553           1.551           1.655           0.756           0.751           1.20           1.248           0.516           1.248           0.516           0.546	number of species per plot (plic) 12 20 13 10 14 16 17 18 10 10 14 18 19 14 18 19 14 18 19 14 18 19 14 16 17 14 20 9 14 16 17 18 19 19 14 10 19 14 10 10 11 10 11 10 11 11 11 11
Senson 2018_62018_6 2018_62018_6 2018_62018_6 2018_6 2018_62018_6 2018_62018_62018_6 2018_62018_6 2018_62018_62018_6 2018_62018_62018_6 2018_62018_62018_6 2018_62018_62018_62018_6 2018_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_620	plot A002 A003 A005 A010 A011 A013 A014 A013 A014 A020 A026 A027 A030 A030 A035 A040 A042 A043 A044 A045 A044 A045 B044 A045 B044 A045 B051 B054 B051 B054 B051 B054 B057 B055 B060 B057 B073 B073 B073 B073 B073 B073 B073 B07	observed Shannon all species per plot (oShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.745 1.745 1.745 1.745 1.751 1.859 1.955 1.951 1.725 1.861 1.725 1.861 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.725 1.851 1.751 1.9577 1.9577 1.9577 1	observed Shannon G grass per plot Shan_grass           0.785           0.468           0.461           0.355           0.355           0.470           0.451           0.452           0.453           0.454           0.454           0.454           0.454           0.454           0.453           0.454           0.453           0.454           0.455           0.455           0.456           0.457           0.458           0.459           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.451           0.451	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.225 0.225 0.221 0.223 0.302 0.302 0.300 0.44 0.443 0.000 0.444 0.000 0.344 0.000 0.344 0.000 0.344 0.000 0.344 0.000 0.344 0.000 0.350	observed Shannon FG herb per plot (Shan, herb)           1.034           1.552           1.484           1.855           1.462           1.47           1.491           1.377           2.089           1.333           1.355           0.763           1.592           1.393           0.763           1.395           0.763           1.395           0.763           1.395           0.763           1.395           1.395           0.590           1.397           0.560           0.467           0.467           1.395           1.395           1.395           1.395           1.396           0.467           0.467           1.395           1.395           1.395           1.476           1.271           0.553           1.59           1.476           1.476           1.476           1.476           1.476	number of species per plot (pfki) 12 20 13 10 14 16 16 17 18 18 19 14 18 19 14 18 19 14 18 19 14 10 19 14 10 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10
Sesson 2018_62018_6 2018_6 2018_62000000000000000000000000000000000000	plot A002 A003 A005 A010 A011 A013 A013 A014 A013 A020 A020 A020 A020 A020 A020 A020 A02	observed Shannon sll species per plot (oShan) 1.958 2.339 2.033 3.324 1.745 3.324 1.745 1.756 1.756 1.638 2.543 1.403 1.292 1.999 1.899 1.955 2.645 0.976 1.676 1.411 2.018 1.624 1.635 1.63	observed Shannen G grass per plot Shan_grass per plot Shan_gras	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.243 0.225 0.223 0.223 0.302 0.302 0.301 0.443 0.000 0.443 0.001 0.443 0.001 0.443 0.001 0.243 0.000 0.260 0.311 0.200 0.260 0.351 0.377 0.316 0.357 0.357	observed Shannon FG herb per plot Shan, herb)           1.034           1.552           1.484           1.855           1.42           1.43           1.43           1.43           1.44           1.855           1.42           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.45           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.44           1.59           1.43           1.44           1.54           1.65           1.54           1.54           1.54           1.55           1.54           1.54           1.54           1.54           1.54	number of species per plot (pfile) 12 20 13 10 14 15 16 17 18 18 19 14 18 19 14 18 19 14 10 14 10 14 15 14 15 14 15 15 15 15 15 15 15 15 15 15
Sesson 2018_62018_62018_62018_6 2018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62018_62008_620	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A020 A020 A020 A020 A020 A020 A020 A02	observed Shannon sll species per plot (oShan) 1.950 2.339 2.031 3.24 1.745 1.745 1.745 2.64 1.630 2.543 2.260 1.630 1.925 1.935 1.955 2.645 0.976 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.671 1.675 1.676 1.676 1.671 1.675 1.675 1.671 1.672 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.675 1.676 1.676 1.676 1.676 1.675	observed Shannon G grass per plot Shan_grass ()           0.785           0.460           0.451           0.452           0.355           0.355           0.355           0.460           0.451           0.452           0.463           0.453           0.464           0.454           0.455           0.456           0.457           0.458           0.458           0.459           0.450           0.451           0.452           0.453           0.454           0.455           0.456           0.457           0.458           0.459           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.451           0.452           0.451           0.452           0.451           0.451           0.451           0.451 </td <td>observed Shannon FG legume per plot Shan, Jegume) 0.138 0.239 0.070 0.243 0.225 0.223 0.223 0.223 0.233 0.302 0.302 0.301 0.004 0.046 0.243 0.004 0.046 0.243 0.005 0.311 0.000 0.350 0.350 0.357 0.316 0.357 0.351 0.357 0.316 0.357 0.351 0.357 0.316 0.357 0.351 0.357 0.316 0.357 0.351 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.357 0.357 0.357 0.357 0.356 0.357</td> <td>observed Shannen FG herb per plot Shan, herb)           1.034           1.522           1.484           1.855           1.42           1.43           1.42           1.43           1.43           1.43           1.43           1.44           1.452           1.44           1.457           1.401           1.377           0.763           1.359           1.357           0.460           0.467           0.460           0.467           0.533           1.551           1.655           0.563           1.51           1.65           0.764           1.52           1.53           1.65           0.563           1.51           1.65           0.766           0.776           1.521           1.655           0.756           0.744           1.621           0.744           1.621           0.546</td> <td>number of species per plot ipficient 12 20 13 14 15 10 14 15 9 14 15 9 14 15 9 14 16 17 7 14 20 9 11 15 9 11 15 9 11 15 9 11 15 15 15 15 15 15 15 15 15</td>	observed Shannon FG legume per plot Shan, Jegume) 0.138 0.239 0.070 0.243 0.225 0.223 0.223 0.223 0.233 0.302 0.302 0.301 0.004 0.046 0.243 0.004 0.046 0.243 0.005 0.311 0.000 0.350 0.350 0.357 0.316 0.357 0.351 0.357 0.316 0.357 0.351 0.357 0.316 0.357 0.351 0.357 0.316 0.357 0.351 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.357 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.356 0.357 0.357 0.357 0.357 0.357 0.357 0.356 0.357	observed Shannen FG herb per plot Shan, herb)           1.034           1.522           1.484           1.855           1.42           1.43           1.42           1.43           1.43           1.43           1.43           1.44           1.452           1.44           1.457           1.401           1.377           0.763           1.359           1.357           0.460           0.467           0.460           0.467           0.533           1.551           1.655           0.563           1.51           1.65           0.764           1.52           1.53           1.65           0.563           1.51           1.65           0.766           0.776           1.521           1.655           0.756           0.744           1.621           0.744           1.621           0.546	number of species per plot ipficient 12 20 13 14 15 10 14 15 9 14 15 9 14 15 9 14 16 17 7 14 20 9 11 15 9 11 15 9 11 15 9 11 15 15 15 15 15 15 15 15 15
Senson 2018_62000000000000000000000000000000000000	plot A002 A003 A003 A010 A011 A013 A013 A013 A014 A013 A026 A027 A026 A027 A027 A027 A030 A042 A042 A043 A044 A045 A044 A045 B051 B054 B051 B054 B054 B051 B054 B055 B064 B057 B055 B064 B051 B055 B064 B051 B055 B064 B051 B055 B065 B055 B064 B051 B055 B065 B055 B064 B051 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B05	observed Shannon Bll species per plot (uShan)           1.958           2.339           2.033           2.334           1.745           1.745           2.531           2.60           2.543           2.60           1.630           2.543           2.645           1.655           2.645           0.956           1.676           1.676           1.681           2.018           1.581           2.522           0.926           1.689           2.026           1.681           2.522           0.928           1.689           2.026           0.928           1.689           2.026           1.581           2.026           1.689           2.026           1.689           2.026           1.689           2.026           1.581           1.689           2.026           1.581           1.582      1.581	observed Shannon G grass per plot Ghan_grass           0.785           0.468           0.461           0.452           0.355           0.475           0.475           0.475           0.475           0.474           0.475           0.475           0.475           0.475           0.475           0.470           0.470           0.470           0.470           0.470           0.470           0.471           0.472           0.473           0.470           0.471           0.472           0.473           0.471           0.472           0.471           0.472           0.471           0.472           0.471           0.472           0.471           0.472           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471	observed Shannen FG legume per plot Shan_legume) 0.138 0.289 0.078 0.225 0.225 0.213 0.302 0.130 0.302 0.130 0.44		number of species per plot (plic) 12 20 13 10 14 16 18 19 10 14 18 19 14 18 19 14 18 19 14 16 17 14 20 13 11 15 15 15 15 15 15 15 15 15
Season 2018_62018_6 2018_6 2018_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_620	plot A002 A003 A005 A010 A011 A013 A013 A014 A013 A020 A022 A027 A030 A030 A030 A035 A040 A042 A042 A042 A042 A043 A044 B045 B051 B051 B051 B053 B055 B055 B055 B055 B055 B055 B055	observed Shannon all species per plot (oShan) 1.958 2.339 2.033 2.324 1.745 1.745 1.745 1.745 1.745 1.745 1.630 2.543 2.543 1.630 1.630 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.676 1.675 1.675 1.675 1.675 1.612 2.029 1.625 1.62	observed Shannon G grass per plot Shan_grass           0.785           0.468           0.461           0.375           0.375           0.476           0.475           0.476           0.475           0.476           0.471           0.475           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471           0.471	observed Shannon PG legume per plot Shan, Jegume) 0.138 0.289 0.070 0.243 0.221 0.223 0.223 0.302 0.302 0.301 0.443 0.443 0.443 0.443 0.443 0.443 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.444 0.491 0.494 0.491 0.494 0.491 0.494		number of species per plot (pfkl) 12 20 13 10 14 15 16 16 17 18 18 19 14 18 19 14 18 19 14 18 19 14 10 19 14 10 11 10 11 11 10 11 11 11 11
Sesson 2018_62018_6 2018_6 2018_6 2018_6 2018_6 2018_62018_6 2018_62018_62018_6 2018_6 2018_6 2018_62018_62018_62018_6 2018_62018_62018_6 2018_62018_62018_62008_6 2008_62008_62008_6 2008_62008_6 2008_62008_62008_6 2008_62008_62008_6 2008_62008_62008_6 2008_62008_62008_6 2008_62008_62008_62008_62008_62008_62008_620	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A020 A020 A020 A020 A020 A020 A020 A02	observed Shannon Bil species per plot (jsShan)           1.958           2.339           2.031           2.324           1.755           2.752           2.643           2.543           2.642           2.643           1.955           2.643           1.955           2.645           0.976           1.676           1.481           2.018           1.755           1.861           2.629           1.634           1.755           1.851           2.629           2.029           0.926           1.927           1.851           2.528           2.029           0.928           1.026           1.929           1.920           1.920           1.921	observed Shannon G grass per plot Shan_grass per plot Shan_gras	observed Shannen FG legume per plot Shan, Jegume) 0.138 0.289 0.076 0.225 0.225 0.223 0.302 0.302 0.301 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.45 0.44 0.45 0	observed Shannen FG herb per plot Shan, herb)           1.034           1.552           1.44           1.85           1.42           1.43           1.43           1.44           1.85           1.44           1.85           1.42           1.43           1.43           1.43           1.43           1.44           1.37           2.09           1.33           1.52           1.46           1.37           0.50           0.40           1.357           0.540           1.357           0.540           1.357           0.540           1.357           0.540           1.357           0.540           1.357           0.540           1.59           1.630           0.541           1.551           1.551           1.655           0.756           0.718           1.24           0.541	number of species per plot ipficient 12 20 13 10 14 15 16 17 18 18 19 14 18 19 14 18 19 14 10 14 15 14 15 14 16 17 18 19 14 10 11 15 15 15 15 15 15 15 15 15
Sesson 2018_62008_62008_6 2008_6 2008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_62008_620	plot A002 A003 A005 A010 A011 A013 A016 A013 A016 A020 A020 A020 A020 A020 A020 A020 A02	observed Shannon sll species per plot (pShan)           1.958           2.339           2.031           2.324           1.745           1.745           2.543           2.642           1.955           2.643           1.922           1.935           2.645           0.976           1.676           1.491           2.645           0.976           1.676           1.491           2.645           0.976           1.676           1.491           2.020           0.923           1.691           2.026           1.691           2.026           1.693           2.026           1.693           2.026           1.593           2.026           1.693           2.026           1.693           2.026           1.693           1.693           1.693           1.693           1.693           1.693           1.693 <td>observed Shannon G grass per plot Shan_grass (           0.785           0.460           0.451           0.452           0.355           0.355           0.170           0.461           0.452           0.453           0.454           0.454           0.454           0.454           0.454           0.453           0.454           0.455           0.456           0.457           0.458           0.459           0.459           0.451           0.452           0.453           0.454           0.455           0.456           0.457           0.458           0.459           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.451           0.452           0.451           0.452           0.451           0.451           0.451           0.451<td>observed Shannen FG legume per plot Shan_legume)           0.138           0.239           0.770           0.428           0.228           0.228           0.228           0.229           0.213           0.221           0.223           0.224           0.225           0.213           0.302           0.301           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.005           0.350           0.351           0.357           0.310           0.252           0.351           0.352           0.351           0.352           0.351           0.352           0.353           0.252           0.353           0.252           0.354           0.252           0.355           0.252           0</td><td>observed Shanner Folkerb per plot Shan, herb)           1.034           1.522           1.484           1.855           1.42           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.45           1.45           1.46           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.44           1.44           1.44           1.44           1.44           1.44           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45</td><td>numbar of species per plot (plic) 12 20 13 10 14 15 16 17 18 18 19 14 18 19 14 18 19 14 15 15 10 11 11 15 11 15 15 15 15 15 15</td></td>	observed Shannon G grass per plot Shan_grass (           0.785           0.460           0.451           0.452           0.355           0.355           0.170           0.461           0.452           0.453           0.454           0.454           0.454           0.454           0.454           0.453           0.454           0.455           0.456           0.457           0.458           0.459           0.459           0.451           0.452           0.453           0.454           0.455           0.456           0.457           0.458           0.459           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.451           0.452           0.451           0.452           0.451           0.451           0.451           0.451 <td>observed Shannen FG legume per plot Shan_legume)           0.138           0.239           0.770           0.428           0.228           0.228           0.228           0.229           0.213           0.221           0.223           0.224           0.225           0.213           0.302           0.301           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.005           0.350           0.351           0.357           0.310           0.252           0.351           0.352           0.351           0.352           0.351           0.352           0.353           0.252           0.353           0.252           0.354           0.252           0.355           0.252           0</td> <td>observed Shanner Folkerb per plot Shan, herb)           1.034           1.522           1.484           1.855           1.42           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.45           1.45           1.46           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.44           1.44           1.44           1.44           1.44           1.44           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45</td> <td>numbar of species per plot (plic) 12 20 13 10 14 15 16 17 18 18 19 14 18 19 14 18 19 14 15 15 10 11 11 15 11 15 15 15 15 15 15</td>	observed Shannen FG legume per plot Shan_legume)           0.138           0.239           0.770           0.428           0.228           0.228           0.228           0.229           0.213           0.221           0.223           0.224           0.225           0.213           0.302           0.301           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.0046           0.243           0.005           0.350           0.351           0.357           0.310           0.252           0.351           0.352           0.351           0.352           0.351           0.352           0.353           0.252           0.353           0.252           0.354           0.252           0.355           0.252           0	observed Shanner Folkerb per plot Shan, herb)           1.034           1.522           1.484           1.855           1.42           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.43           1.45           1.45           1.46           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.44           1.44           1.44           1.44           1.44           1.44           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45           1.45	numbar of species per plot (plic) 12 20 13 10 14 15 16 17 18 18 19 14 18 19 14 18 19 14 15 15 10 11 11 15 11 15 15 15 15 15 15
Senson 2018_62000000000000000000000000000000000000	plot A002 A003 A005 A010 A011 A013 A013 A014 A013 A014 A026 A027 A026 A027 A027 A027 A040 A042 A042 A043 A044 A045 B044 B044 B044 B044 B044 B044 B051 B054 B051 B054 B054 B054 B055 B064 B057 B055 B064 B051 B055 B064 B055 B064 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B065 B055 B05	observed Shannon Bli peccies per plot (joShan)           1.958           2.339           2.033           2.334           1.745           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.747           1.758           1.751 <td>observed Shannon G grass per plot Shan, grass           0.785           0.468           0.461           0.461           0.462           0.463           0.475           0.463           0.463           0.463           0.463           0.463           0.463           0.464           0.465           0.464           0.465           0.465           0.464           0.455           0.456           0.457           0.458           0.459           0.451           0.452           0.452           0.453           0.454           0.457           0.458           0.451           0.452           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451<td>observed Shanner Folkegune per plot Shan, Jegune) 0.138 0.289 0.078 0.445 0.225 0.225 0.213 0.302 0.130 0.300 0.446 0.443 0.000 0.466 0.243 0.000 0.466 0.243 0.000 0.260 0.316 0.300 0.260 0.316 0.350</td><td></td><td>number of species per plot (plic) 12 20 13 10 14 10 14 18 19 10 14 18 19 14 18 19 14 18 19 14 10 19 14 10 11 11 11 12 15 15 15 15 15 15 15 15 15 15</td></td>	observed Shannon G grass per plot Shan, grass           0.785           0.468           0.461           0.461           0.462           0.463           0.475           0.463           0.463           0.463           0.463           0.463           0.463           0.464           0.465           0.464           0.465           0.465           0.464           0.455           0.456           0.457           0.458           0.459           0.451           0.452           0.452           0.453           0.454           0.457           0.458           0.451           0.452           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451           0.452           0.451 <td>observed Shanner Folkegune per plot Shan, Jegune) 0.138 0.289 0.078 0.445 0.225 0.225 0.213 0.302 0.130 0.300 0.446 0.443 0.000 0.466 0.243 0.000 0.466 0.243 0.000 0.260 0.316 0.300 0.260 0.316 0.350</td> <td></td> <td>number of species per plot (plic) 12 20 13 10 14 10 14 18 19 10 14 18 19 14 18 19 14 18 19 14 10 19 14 10 11 11 11 12 15 15 15 15 15 15 15 15 15 15</td>	observed Shanner Folkegune per plot Shan, Jegune) 0.138 0.289 0.078 0.445 0.225 0.225 0.213 0.302 0.130 0.300 0.446 0.443 0.000 0.466 0.243 0.000 0.466 0.243 0.000 0.260 0.316 0.300 0.260 0.316 0.350		number of species per plot (plic) 12 20 13 10 14 10 14 18 19 10 14 18 19 14 18 19 14 18 19 14 10 19 14 10 11 11 11 12 15 15 15 15 15 15 15 15 15 15

Season	plot	observed Shannon all species per plot (nShan)	observed Shannon FG grass per plot (Shan, grass)	observed Shannon FG Jegume per plot (Shan, Jegume)	observed Shannon EG berb per plot (Shan, berb)	number of species per plot (pBich)
2018 H	A002	1 762	0.436	0.094	1 232	14
2018 H	A003	1.696	0.513	0.078	1.105	13
2018 H	A005	2.259	0.392	0.090	1,777	17
2018 H	A009	2.440	0.000	0.260	2.180	19
2018 H	A010	1.967	0.512	0.104	1.351	11
2018 H	A011	2.194	0.083	0.288	1.823	19
2018 H	A013	2.311	0.000	0.392	1 9 1 9	20
2018 H	A016	2.181	0.235	0.108	1.837	15
2018 H	A013	2.386	0.670	0.226	1.490	18
2018 H	A020	1.622	0.117	0.112	1.394	11
2018_H	A026	1.715	0.898	0.116	0.700	18
2018_H	A027	2.249	0.112	0.112	2.025	16
2018 H	A030	1.468	0.000	0.169	1.299	9
2018_H	A035	2.539	0.631	0.256	1.652	18
2018_H	A040	2.516	0.274	0.161	2.081	17
2018_H	A042	1.498	0.000	0.117	1.381	12
2018_H	A043	2.126	0.000	0.337	1.789	15
2018_H	A044	2.159	0.465	0.313	1.381	15
2018_H	A045	1.942	1.220	0.201	0.521	17
2018_H	A046	1.848	0.028	0.424	1.396	18
2018_H	B048	2.176	0.083	0.240	1.354	20
2018_H	8051	2.202	0.409	0.337	1.456	17
2018_H	B054	2.059	0.416	0.223	1.420	14
2018_H	B057	2.311	0.322	0.495	1.495	14
2018_H	B059	1.447	0.214	0.110	1.123	12
2018_H	B060	1.902	0.363	0.092	1.447	10
2018_H	B064	1.667	0.448	0.264	0.955	13
2018_H	B067	1.935	0.821	0.291	0.823	15
2018_H	B071	2.200	0.320	0.360	1.520	14
2018_H	B073	2.078	0.840	0.141	1.098	12
2018_H	8075	1.904	0.693	0.300	0.911	11
2018_H	B080	1.884	0.409	0.213	1.262	13
2018_H	B081	2.350	0.512	0.069	1.769	16
2018_H	B085	2.298	0.136	0.443	1.718	20
2018_H	B090	1.593	0.302	0.086	1.206	12
2018_H	B092	1.464	0.774	0.100	0.590	13
2018_H	C097	2.102	0.611	0.000	1.490	17
2018_H	C103	1.893	0.729	0.113	1.051	12
2018_H	C109	1.981	0.478	0.131	1.372	13
2018_H	C110	2.268	0.438	0.148	1.682	16
2018_H	C114	1.179	0.776	0.032	0.371	11
2018_H	C115	2.225	0.341	0.209	1.674	13
2018_H	C121	2.047	0.000	0.000	2.047	12
2018_H	C131	1.038	0.328	0.071	0.638	13
2018_H	C133	2.024	0.099	0.099	1.326	14
2018_H	C135	1.719	0.176	0.166	1.377	12
2018_H	C136	1.605	0.583	0.073	0.949	11
2018_H	C137	1.745	0.352	0.225	1.167	11

# Supplement Table 1: Plant species indices – continued (Shannon & Richness Season 2018 H)

# Supplement Table 1: Plant species indices – continued (FG legume Season 2018 E)

	functional annual		1	la muna a	la muna a	la muna	la muna	la muna	la muna		1
	functional grou	logume	legume	legume	legume	legume	legume	legume	legume	legume	legume
	Codo	Legunnosae	Leguninosae	Madlun	Madana	Teidub	Trifes	Trioro	Trison	Vicero	Viccon
	Code	Latpra	Lotcor	Mediup	Medicere enco	Tridub	Trifelium forsiferum	Trifelium antean	Trifelium	Vicera	vicsep Vicie maium
	species	2019 EE G L	2012 EEG H	2012 EEG	2019 E	2019 E H	2018 G H	2019 EEG U	2012 EEGH	2012 EE G U	2019 666
6	season	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G	2018_E	2013_E,H	2013_0,H	2018_E,F,G,H	2013_E,F,G,H	2010_C,F,O,H	2010_6,F,G
2019 5	A002	0.068	0	0.040	0	0	0	0	0.040	0	0
2010_E	4002	-0.085	0	-0.040	0	0	0	0	-0.040	0	
2010_0	A005	-0.071	0	-0.118	0	0	0	0	0	0	0.025
2010_0	A005	-0.060	0	-0.080	0	0	0	0	0.042	0	-0.055
2010_0	A009	0 021	0 0.21	-0.071	0	0	0	0	-0.042	0	
2010_0	A010	-0.031	-0.031	-0.053	0	0	0	0	0 170	0	
2010_0	A011	0 052	0	-0.058	0	0	0	0	-0.179	0.000	0
2018_E	A013	-0.052	0	-0.167	0	U	U	0	-0.030	-0.088	
2018_6	A016	-0.066	-0.110	-0.110	0	Ű	Ű	0	-0.038	0	-0.066
2018_E	A018	-0.051	0	-0.246	0	U	0	Ű	0	-0.029	
2018_E	A020	0	0	0	U	U	U	U	U	-0.036	U
2018_E	AU26	-0.065	-0.038	-0.038	U	U	U	U	0	-0.065	
2018_E	A027	0	0	0	0	U	U	0	-0.052	0	0
2018_E	A030	0	-0.107	0	0	0	0	0	-0.037	-0.107	0
2018_E	A035	-0.038	-0.108	-0.108	0	0	0	0	0	0	0
2018_E	A040	0	0	-0.110	0	0	0	0	0	0	0
2018_E	A042	0	-0.118	0	0	0	0	0	0	0	0
2018_E	A043	-0.061	0	-0.279	0	0	0	0	0	-0.189	0
2018_E	A044	-0.069	-0.115	-0.209	0	0	0	0	0	-0.115	0
2018_E	A045	-0.102	-0.189	0	0	0	0	0	-0.035	-0.358	0
2018_E	A046	-0.142	-0.142	0	0	0	0	0	-0.220	-0.355	0
2018_E	B048	0	0	-0.245	0	0	0	-0.085	0	-0.085	0
2018_E	B051	0	-0.074	-0.074	0	0	0	0	-0.142	-0.043	-0.043
2018_E	B054	-0.031	0	-0.054	0	0	0	0	0	-0.257	-0.091
2018_E	B057	-0.128	0	-0.066	0	-0.128	0	0	0	-0.128	0
2018_E	B059	0	0	-0.076	0	-0.125	0	0	0	-0.125	0
2018_E	B060	0	0	0	0	-0.169	0	0	0	-0.169	0
2018_E	B064	-0.095	-0.178	0	0	0	0	0	-0.095	0	0
2018_E	B067	-0.043	0	-0.073	0	0	0	0	0	-0.219	-0.141
2018_E	B071	-0.252	0	0	0	0	0	0	0	-0.252	0
2018_E	B073	0	0	0	-0.029	-0.159	0	0	-0.029	-0.084	0
2018_E	B075	0	0	-0.090	0	0	0	0	-0.256	-0.090	0
2018_E	B080	-0.149	-0.230	0	-0.046	-0.078	0	0	0	-0.078	0
2018_E	8081	0	-0.032	0	0	0	0	0	-0.094	0	0
2018_E	B085	0	0	-0.094	0	0	0	0	-0.176	-0.176	-0.056
2018_E	B090	0	0	-0.165	0	0	0	0	-0.165	0	0
2018_E	B092	-0.113	0	-0.068	0	0	0	0	-0.068	0	0
2018_E	C097	0	0	0	0	0	0	0	-0.171	0	0
2018_E	C103	0	0	-0.088	0	0	0	0	-0.088	-0.052	0
2018_E	C109	0	0	0	0	0	0	0	-0.119	0	0
2018_E	C110	-0.053	0	0	0	0	0	0	0	-0.169	0
2018_E	C114	0	0	-0.025	0	0	0	0	0	0	0
2018_E	C115	-0.123	0	-0.063	0	0	0	-0.123	-0.123	0	0
2018_E	C121	0	0	-0.108	0	0	0	0	0	0	0
2018_E	C131	-0.086	0	-0.086	0	0	0	0	0	-0.051	0
2018_E	C133	-0.113	0	-0.068	0	0	0	0	0	0	0
2018_E	C135	0	0	-0.104	0	0	0	-0.036	0	0	0
2018_E	C136	0	0	-0.167	0	0	0	0	-0.053	-0.053	0
2018_E	C137	-0.035	0	0	0	0	0	0	-0.187	-0.035	0

# Supplement Table 1: Plant species indices – continued (FG legume Season 2018 F)

	functional group	p legume	legume	legume	legume	legume	legume	legume	legume	legume	legume
	family	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae
	Code	Latpra	Lotcor	Medlup	Medspe	Tridub	Trifra	Tripra	Trirep	Viccra	Vicsep
	species	Lathyrus_prate	n: Lotus_cornicula	t Medicago_lup	Ili Medicago_spec.	Trifolium_dubiu	r Trifolium_fragife	Trifolium_prate	n Trifolium_reper	: Vicia_cracca	Vicia_sepium
	season	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G	2018_E	2018_E,H	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G
Season	plot										
2018_F	A002	-0.085	0	0	0	0	0	0	0	0	0
2018_F	A003	-0.146	0	0	0	0	0	0	0	0	0
2018_F	A005	-0.138	0	0	0	0	0	0	0	0	0
2018_F	A009	0	0	0	0	0	0	0	0	0	0
2018_F	A010	-0.072	0	0	0	0	0	0	0	0	0
2018_F	A011	-0.115	-0.069	0	0	0	0	0	0	0	0
2018_F	A013	0	0	0	0	0	0	0	0	-0.162	0
2018_F	A016	-0.141	0	-0.086	0	0	0	-0.086	0	-0.086	0
2018_F	A018	-0.070	0	0	0	0	0	0	0	0	0
2018_F	A020	0	0	0	0	0	0	0	0	0	0
2018_F	A026	-0.061	0	0	0	0	0	0	0	0	0
2018_F	A027	0	0	0	0	0	0	0	0	0	0
2018_F	A030	0	0	0	0	0	0	0	0	0	0
2018_F	A035	-0.046	0	0	0	0	0	-0.046	0	0	0
2018_F	A040	0	0	0	0	0	0	0	0	0	0
2018_F	A042	0	0	0	0	0	0	0	0	0	0
2018_F	A043	-0.078	0	0	0	0	0	0	0	-0.202	0
2018_F	A044	-0.221	0	0	0	0	0	0	0	-0.143	0
2018_F	A045	-0.092	0	0	0	0	0	0	0	-0.150	0
2018_F	A046	-0.138	0	0	0	0	0	0	0	-0.215	0
2018_F	B048	-0.197	0	0	0	0	0	0	0	0	0
2018_F	B051	-0.133	0	0	0	0	0	0	0	0	0
2018_F	B054	-0.136	0	0	0	0	0	0	0	-0.178	0
2018_F	B057	-0.099	0	0	0	0	0	0	0	0	0
2018_F	B059	-0.218	0	0	0	0	0	0	0	-0.218	0
2018_F	B060	0	-0.132	0	0	0	0	0	0	-0.299	0
2018_F	B064	-0.059	-0.100	0	0	0	0	0	0	0	0
2018_F	B067	-0.100	0	0	0	0	0	0	0	-0.100	0
2018_F	B071	-0.147	0	0	0	0	0	0	0	-0.147	0
2018_F	B073	0	-0.063	0	0	0	0	0	0	0	0
2018_F	B075	0	0	0	0	0	0	0	-0.052	-0.144	0
2018_F	B080	-0.116	-0.070	0	0	0	0	0	0	0	0
2018_F	B081	-0.072	0	0	0	0	0	0	-0.072	0	0
2018_F	B085	-0.212	-0.083	0	0	0	0	0	0	-0.212	0
2018_F	B090	-0.168	0	0	0	0	0	0	0	0	0
2018_F	B092	0	0	0	0	0	0	0	0	0	0
2018_F	C097	0	0	0	0	0	0	0	0	0	0
2018_F	C103	0	0	0	0	0	0	0	0	-0.052	0
2018_F	C109	-0.135	0	0	0	0	0	0	-0.049	0	0
2018_F	C110	-0.111	0	0	0	0	0	0	0	-0.111	0
2018_F	C114	0	0	0	0	0	0	0	0	0	0
2018_F	C115	-0.267	0	0	0	0	0	0	0	0	0
2018_F	C121	0	0	0	0	0	0	0	0	0	0
2018_F	C131	0	0	0	0	0	0	0	0	0	0
2018_F	C133	-0.218	0	0	0	0	0	0	0	0	0
2018_F	C135	-0.067	0	0	0	0	0	0	0	0	0
2018_F	C136	0	-0.138	0	0	0	0	-0.050	0	0	-0.050
2018_F	C137	0	0	0	0	0	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG legume Season 2018 G)

	functional group	legume	legume	legume	legume	legume	legume	legume	legume	legume	legume
	family	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae
	Code	Latpra	Lotcor	Medlup	Medspe	Tridub	Trifra	Tripra	Trirep	Viccra	Vicsep
	species	Lathyrus_praten	Lotus_corniculat	t Medicago_lupu	i Medicago_spec.	Trifolium_dubiu	r Trifolium_fragife	Trifolium_prater	Trifolium_repen	Vicia_cracca	Vicia_sepium
	season	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G	2018_E	2018_E,H	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G
Season	plot										
2018_G	A002	-0.138	0	0	0	0	0	0	0	0	0
2018_G	A003	-0.185	-0.035	0	0	0	0	0	-0.035	-0.035	0
2018_G	A005	-0.078	0	0	0	0	0	0	0	0	0
2018_G	A009	0	0	0	0	0	0	0	-0.045	0	0
2018_G	A010	-0.228	0	0	0	0	0	0	0	0	0
2018_G	A011	-0.225	0	0	0	0	0	0	0	0	0
2018_G	A013	-0.132	0	0	0	0	o	0	O	-0.031	0
2018_G	A016	-0.152	0	-0.056	0	0	0	0	O	-0.094	0
2018_G	A018	-0.082	0	0	0	0	0	0	0	-0.048	0
2018_G	A020	0	0	0	0	0	0	0	0	0	0
2018_G	A026	-0.046	0	0	0	0	o	0	0	0	0
2018_G	A027	-0.177	-0.067	0	0	0	o	0	O	0	0
2018_G	A030	0	0	0	0	0	0	0	0	0	0
2018_G	A035	-0.135	-0.049	0	0	0	0	0	0	0	0
2018_G	A040	0	0	0	0	0	0	0	-0.091	0	0
2018_G	A042	0	0	0	0	0	0	0	0	0	0
2018_G	A043	-0.100	0	0	0	0	0	0	0	-0.161	0
2018_G	A044	-0.121	0	0	0	0	0	0	0	-0.191	0
2018_G	A045	-0.075	0	0	0	0	0	0	0	-0.223	0
2018_G	A046	-0.091	0	0	0	0	0	0	0	-0.258	0
2018_G	B048	-0.276	0	0	0	0	o	0	O	-0.101	0
2018_G	B051	-0.070	-0.041	0	0	0	0	0	O	0	0
2018_G	B054	-0.107	0	0	0	0	0	0	0	-0.172	0
2018_G	B057	-0.215	-0.071	0	0	0	0	0	0	-0.071	0
2018_G	B059	0	0	0	0	0	0	0	0	-0.316	0
2018_G	B060	0	0	0	0	0	0	0	-0.052	-0.339	0
2018_G	B064	-0.052	-0.088	0	0	0	0	0	-0.052	0	0
2018_G	B067	-0.055	0	0	0	0	0	0	0	-0.173	0
2018_G	B071	-0.159	0	0	0	0	0	0	0	-0.272	0
2018_G	B073	0	0	0	0	0	0	0	0	-0.035	0
2018_G	B075	0	0	0	0	0	0	0	0	-0.164	0
2018_G	B080	-0.091	-0.147	0	0	0	0	0	0	0	0
2018_G	B031	-0.094	-0.056	0	0	0	-0.056	0	-0.056	0	0
2018_G	B085	0	-0.082	0	0	0	0	0	-0.048	-0.238	0
2018_G	B090	-0.084	-0.084	0	0	0	0	0	-0.084	0	0
2018_G	B092	-0.048	-0.048	0	0	0	0	0	0	0	0
2018_G	C097	0	-0.057	0	0	0	0	0	-0.057	0	0
2018_G	C103	0	0	0	0	0	0	0	0	0	0
2018_G	C109	-0.047	-0.047	0	0	0	0	-0.027	0	0	0
2018_G	C110	-0.055	0	0	0	0	O	0	-0.055	-0.093	0
2018_G	C114	0	0	0	0	0	o	0	O	0	0
2018_G	C115	-0.225	0	0	0	0	0	0	0	0	0
2018_G	C121	0	0	0	0	0	0	0	0	0	0
2018_G	C131	-0.043	0	0	0	0	0	0	0	0	0
2018_G	C133	-0.237	0	0	0	0	0	0	-0.155	0	0
2018_G	C135	0	0	0	0	0	0	0	0	0	0
2018_G	C136	0	0	0	0	0	0	-0.030	0	0	-0.030
2018_G	C137	0	0	0	0	0	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG legume Season 2018 H)

	functional grou	n legume	legume	legume	legume	legume	legume	legume	legume	legume	legume
	family	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae	Leguminosae
	Code	Latora	Lotcor	Medlup	Medspe	Tridub	Trifra	Tripra	Trirep	Viccra	Vicsep
	species	Lathyrus prate	n: Lotus cornicula	t Medicago lupul	i Medicago spec.	Trifolium dubiu	r Trifolium fragife	Trifolium prater	Trifolium repen	Vicia cracca	Vicia sepium
	season	2018_E,F,G,H	_ 2018_E,F,G,H	2018_E,F,G	2018_E	2018_E,H	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	- 2018_E,F,G,H	 2018_E,F,G
Season	plot										
2018_H	A002	-0.094	0	0	0	0	0	0	0	0	0
2018_H	A003	-0.049	0	0	0	0	0	0	0	-0.028	0
2018_H	A005	-0.090	O	0	0	0	0	0	0	0	0
2018_H	A009	0	0	0	0	0	0	-0.260	0	0	0
2018_H	A010	-0.104	0	0	0	0	0	0	0	0	0
2018_H	A011	-0.083	0	0	0	-0.157	0	-0.049	0	0	0
2018_H	A013	-0.058	-0.058	0	0	-0.181	0	0	0	-0.097	0
2018_H	A016	-0.081	D	0	0	0	0	0	0	-0.027	0
2018_H	A018	-0.087	0	0	0	-0.087	0	0	0	-0.052	0
2018_H	A020	-0.041	0	0	0	-0.070	0	0	0	0	0
2018_H	A026	-0.087	-0.030	0	0	0	0	0	0	0	0
2018_H	A027	-0.112	0	0	0	0	0	0	0	0	0
2018_H	A030	-0.169	0	0	0	0	0	0	0	0	0
2018_H	A035	-0.128	0	0	0	-0.128	0	0	0	0	0
2018_H	A040	0	0	0	0	0	0	-0.161	0	0	0
2018_H	A042	-0.043	-0.074	0	0	0	0	0	0	0	0
2018_H	A043	-0.093	0	0	0	-0.151	0	0	0	-0.093	0
2018_H	A044	-0.104	0	0	0	-0.104	0	0	0	-0.104	0
2018_H	A045	-0.068	0	0	0	0	0	0	0	-0.133	0
2018_H	A046	-0.157	0	0	0	0	0	-0.028	0	-0.239	0
2018_H	B048	-0.083	D	0	0	0	0	0	0	-0.157	0
2018_H	B051	-0.105	-0.037	0	0	-0.195	0	0	0	0	0
2018_H	B054	-0.085	0	0	0	0	0	0	0	-0.138	0
2018_H	B057	-0.195	0	0	0	-0.195	0	0	0	-0.105	0
2018_H	B059	Ũ	0	0	0	0	0	0	0	-0.110	0
2018_H	B060	0	O	0	0	0	0	0	0	-0.092	0
2018_H	B064	-0.102	-0.061	0	0	-0.102	0	0	0	0	0
2018_H	B067	-0.074	0	0	0	-0.143	0	0	0	-0.074	0
2018_H	B071	-0.077	0	0	0	0	0	0	0	-0.283	0
2018_H	B073	0	0	0	0	0	0	0	0	-0.141	0
2018_H	B075	0	0	0	0	0	0	0	-0.150	-0.150	0
2018_H	B030	-0.107	-0.107	0	0	0	0	0	0	0	0
2018_H	B031	0	0	0	0	0	-0.035	0	-0.035	0	0
2018_H	B085	-0.041	0	0	0	0	0	0	-0.136	-0.266	0
2018_H	B090	-0.086	0	0	0	0	0	0	0	0	0
2018_H	B092	-0.075	-0.025	0	0	0	0	0	0	0	0
2018_H	C097	0	0	0	0	0	0	0	0	0	0
2018_H	C103	-0.071	0	0	0	0	0	-0.042	0	0	0
2018_H	C109	-0.082	-0.049	0	0	0	0	0	0	0	0
2018_H	C110	0	0	0	0	0	0	0	0	-0.148	0
2018_H	C114	-0.032	0	0	0	0	0	0	0	0	0
2018_H	C115	-0.209	0	0	0	0	0	0	0	0	0
2018_H	C121	0	0	0	0	0	0	0	0	0	0
2018_H	C131	-0.071	0	0	0	0	0	0	0	0	0
2018_H	C133	-0.099	0	0	0	0	0	0	0	0	0
2018_H	C135	0	0	0	0	-0.166	0	0	0	0	0
2018_H	C136	0	0	0	0	0	0	-0.073	0	0	0
2018 H	C137	0	0	0	0	-0.225	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG herb species A-B Season 2018 E)

	functional group	harb	hash	harb	hach	hash	hash	hash	harb	harb	hash
	family	Amoronthecono	Aningana	Anincono	Anincono	Aniacoan	Aniacono	Anincono	Proceicocopo	Proceicocooo	Proceicocooo
	Codo	Chaple	Apteul	Carcar	Daucar	Harcola	Apraceae	Pimmoi	Arabir	Conhur	Cinalh
	species	Chanonadium a	Antoyi Anthriseus odva	Carum cardief	Daucur careta	Herseleum enh	nassat	Pimpipella mair	Arabir birruta	Capital hurra	Sinanic alba
	species	2018 EE G H	2019 6 6 6	2019 E	2018 EEG H	2019 E E	2012 EEG	2018 EEG H	2019 H	2019 EEGH	2019 L
Secon	plot	2010_0,1,0,11	2010_0,1,0	2010_0	2010_0,1,0,11	2010_0,1	2010_0,1,0	2010_0,1,0,11	2010_0	2010_0,1,0,11	2010_0
2018 F	4002	0	0	0	-0.040	0	0	0	0	0	0
2010_0	4003	0	0	0	-0.040	0	-0.042	-0.042	0	0	0
2010_C	4005	0	0	0	-0.060	0	-0.042	-0.188	0	0	0
2010_0	A009	0	0	0	-0.000	0	0	-0.100	0	0	0
2010_0	4010	0	0	0	0	0	0	0	0	0	0
2010_0	A010	0	0	0	0	0	0	0	0	0	0
2010_0	A012	0	0	0	.0.020	0	0	.0.020	0	0	0
2010_0	4015	0	0	0	-0.050	0	0	-0.030	0	0	0
2010_0	A018	0	0	0	0	0	0	-0.058	0	0	0
2010_0	A018	0.036	0	0	0	0	0	0	0	0	0
2010_0	A020	-0.056	0	0	0	0	0	0 10 2	0	0	0
2018_6	A026	0	0	0	0	0	0	-0.105	0	0	0
2010_5	A027	0	0	0	0	0	0	0	0	0	0
2018_E	A030	0	0	0	0	0	0	0	0	0	0
2018_5	A035	0	0	0	0	0	0	0	0	0	0
2018_E	A040	U	0	0	U	Ű	U	0	U	0	0
2018_E	A042	0	0	0	0	0	0	0	0	0 100	0
2018_E	A043	0	0	0	0	0	0	U	0	-0.102	0
2018_E	A044	-0.040	0	0	U	Ű	U	0	U	0	U
2018_E	A045	U	U	U	U	U	U	U	U	U	U
2018_E	A046	U	U	0	U	-0.025	U	0	U	0	U
2018_E	8048	U	U	U	U	U	U	U	U	-0.085	U
2018_E	8051	U	U	U	U	U	U	U	U	U	U
2018_E	8054	0	0	0	0	0	0	0	0	0	0
2018_E	8057	0	U	U	U	U	U	-0.022	U	0	U
2018_E	8059	-0.125	U	U	U	U	U	U	U	-0.125	U
2018_E	8060	-0.031	U	U	U	0	U	U	U	-0.169	0
2018_E	8064	U	U	U	U	U	U	U	U	U	U
2018_E	8067	0	U	U	U	U	U	U	U	0	U
2018_E	8071	-0.030	U	0	0	U	0	U	U	-0.167	0
2018_E	8073	U	0	0	U	Ű	U	0	U	0	U
2018_E	8075	Ű	0	0	0	Ű	0	0	0	0	0
2018_E	8080	U	U	U	0	U	U	U	U	U	U
2018_E	8081	U	0	0	U	Ű	U	0	U	0	U
2018_E	BUSS	U	0	0	U	Ű	U	0	U	-0.032	0
2018_E	8090	U	U	U	U	U	U	0	U	U	U
2018_E	8092	U	0	0	0	Ű	U	-0.040	U	0	U
2018_E	0197	U	U	U	-0.054	U	U	U	U	U	U
2018_E	0103	Ű	U	U	0	U	U	U	U	U	U
2018_E	0110	0	U	0	U	Ű	U	0	U	0	U
2018_E	C110	-0.090	U	U	U	U	U	-0.031	U	U	U
2018_E	0114	0	0	0	0	0	0	0	0	0	0
2018_E	C115	0	0	0	0	0	0	0	0	0	0
2018_E	C121	0	0	-0.038	0	0	0	0	0	0	0
2018_E	c131	-0.029	-0.029	0	0	0	0	0	0	0	0
2018_E	C133	-0.181	0	0	0	0	0	0	0	-0.068	0
2018_E	C135	0	0	0	0	0	0	0	0	0	0
2018_E	c136	0	0	0	0	0	0	0	0	-0.030	0
2018_E	C137	0	0	0	0	0	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG herb species A-B Season 2018 F)

	functional mount	hash	h o ch	hash	hach	hash	hash	hash	hash	h a ch	h a ch
	functional group	Amprophysics	Anipropo	Anincono	Anipcopo	Anincono	Aningono	Aniprope	Processo	nero Proceico copo	nero Proceico cono
	Code	Chealb	Antsvi	Carcar	Daucar	Herson	Passat	Pimmai	Arabir	Canhur	Sinalh
	species	Chenopodium a	Anthriscus svive	e Carum carvicf.	Daucus carota	Heracleum sol	no Pastinaca sativa	Pimpinella mai	o Arabis hirsuta	Capsella bursa-i	Sinapis alba
	season	2018 E.F.G.H	2018 E.F.G	2018 E	2018 E.F.G.H	2018 E.F	2018 E.F.G	2018 E.F.G.H	2018 H	2018 E.F.G.H	2018 H
Season	plot				,,,,,,,						
2018_F	A002	0	0	0	0	0	0	0	0	0	0
_ 2018 F	A003	0	0	0	0	0	o	0	0	0	0
2018_F	A005	0	0	0	-0.085	0	-0.085	0	0	0	0
2018_F	A009	0	0	0	0	0	0	0	0	0	0
2018_F	A010	0	0	0	0	0	0	0	0	0	0
2018_F	A011	0	0	0	0	0	0	-0.069	0	0	0
2018_F	A013	0	0	0	0	0	0	0	0	0	0
2018_F	A016	0	0	0	0	0	0	0	0	0	0
2018_F	A018	0	0	0	0	0	0	-0.041	0	0	0
2018_F	A020	0	0	0	0	0	0	0	0	0	0
2018_F	A026	0	0	0	0	0	0	0	0	0	0
2018_F	A027	0	0	0	0	0	0	0	0	0	0
2018_F	A030	0	0	0	0	0	0	0	0	0	0
2018_F	A035	0	0	0	0	0	0	0	0	0	0
2018_F	A040	0	0	0	-0.173	0	0	0	0	0	0
2018_F	A042	0	0	0	0	0	0	0	0	0	0
2018_F	A043	0	0	0	0	0	0	0	0	0	0
2018_F	A044	0	0	0	0	0	0	0	0	0	0
2018_F	A045	0	0	0	-0.092	0	0	0	0	0	0
2018_F	A046	0	0	0	0	-0.085	0	0	0	0	0
2018_F	B048	0	0	0	0	0	0	0	0	0	0
2018_F	B051	0	0	0	0	0	0	0	0	0	0
2018_F	B054	0	0	0	0	0	0	0	0	0	0
2018_F	B057	0	0	0	0	0	0	0	0	0	0
2018_F	B059	-0.218	0	0	0	0	0	0	0	-0.218	0
2018_F	8060	0	0	0	0	0	0	0	0	0	0
2018_F	B064	0	0	0	0	0	0	0	0	0	0
2018_F	B067	0	0	0	0	0	0	0	0	0	0
2018_F	B071	0	0	0	0	0	0	0	0	0	0
2018_F	B073	0	0	0	0	0	0	0	0	0	0
2018_F	B075	0	0	0	0	0	0	0	0	0	0
2018_F	BOSO	0	0	0	0	0	0	0	0	0	0
2018_F	B081	0	0	0	-0.072	0	0	0	0	0	0
2018_F	8085	U	U	U	-0.083	U	U	U	U	U	U
2018_F	8090	U	U	U	U	U	0	u	U	U	U
2018_F	8092	U	0 1 6 5	U	0	0	0	U	0	U	0
2018_F	6197	0	-0.165	0	0	0	0	0	0	0	0
2018_F	C105	0	0	0	0	0	0	0	0	0	0
2010_F	C105	0 111	0	0	0	0	0	0	0	0	0
2010_F	C110	-0.111	0	0	0	0	0	0	0	0	0
2018 F	C115	0	0	0	0	0	n	0	0	0	0
2018 F	c121	0	0	0	0	0	n	0	0	0	0
2018 F	C131	0	0	0	0	0	n	0	0	0	0
2018 F	C133	0	0	0	0	n	n	0	0	0	0
2018 F	C135	n	0	0	0	n	n	0	0	0	0
2018 F	C136	ũ	0	0	õ	0	ũ	õ	õ	0	0
2018 F	C137	0	0	0	0	0	0	0	0	0	0
-											

# Supplement Table 1: Plant species indices – continued (FG herb species A-B Season 2018 G)

	functional gro	up herb	herb	herb	herb	herb	herb	herb	herb	herb	herb
	family	Amaranthacea	e Apiaceae	Apiaceae	Apiaceae	Apiaceae	Apiaceae	Apiaceae	Brassicaceae	Brassicaceae	Brassicaceae
	Code	Chealb	Antsyl	Carcar	Daucar	Hersph	Passat	Pimmaj	Arahir	Capbur	Sinalb
	species	Chenopodium_	a Anthriscus_sylv	/e Carum_carvi cf.	Daucus_carota	Heracleum_sp	ho Pastinaca_sativa	Pimpinella_ma	jo Arabis_hirsuta	Capsella_bursa-	p Sinapis_alba
	season	2018_E,F,G,H	2018_E,F,G	2018_E	2018_E,F,G,H	2018_E,F	2018_E,F,G	2018_E,F,G,H	2018_H	2018_E,F,G,H	2018_H
Season	plot										
2018_G	A002	-0.050	0	0	0	0	0	0	0	0	0
2018_G	A003	-0.035	0	0	-0.035	0	-0.035	0	0	0	0
2018_G	A005	0	0	0	-0.078	0	0	-0.046	0	0	0
2018_G	A009	0	-0.045	0	-0.045	0	0	0	0	0	0
2018_G	A010	0	0	0	0	0	0	0	0	0	0
2018_G	A011	0	0	0	0	0	0	-0.045	0	0	0
2018_G	A013	0	0	0	-0.048	0	0	0	0	0	0
2018_G	A016	-0.094	0	0	0	0	0	0	0	-0.056	0
2018_G	A018	-0.048	0	0	0	0	0	-0.048	0	0	0
2018_G	A020	0	0	0	0	0	Ū	0	0	0	0
2018_G	A026	0	0	0	0	0	0	0	0	-0.046	0
2018_G	A027	-0.067	0	0	0	0	0	0	0	-0.111	0
2018_G	A030	0	0	0	0	0	0	0	0	0	0
2018_G	A035	-0.083	0	0	0	0	0	0	0	0	0
2018_G	A040	-0.091	0	0	-0.091	0	0	0	0	0	0
2018_G	A042	0	0	0	0	0	0	0	0	0	0
2018_G	A043	0	0	0	0	0	0	0	0	0	0
2018_G	A044	-0.073	0	0	-0.073	0	0	0	0	0	0
2018_G	A045	0	0	0	0	0	0	0	0	0	0
2018_G	A046	0	0	0	0	0	-0.054	0	0	0	0
2018_G	B048	0	0	0	0	0	0	0	0	0	0
2018 G	B051	0	0	0	0	0	0	0	0	0	0
2018_G	B054	0	0	0	0	0	0	0	0	0	0
2018 G	B057	0	0	0	0	0	0	0	0	0	0
2018 G	B059	-0.145	0	0	0	0	0	0	0	-0.145	0
2018 G	B060	-0.037	0	0	0	0	0	0	0	-0.143	0
2018 G	B064	0	0	0	0	0	0	0	0	0	0
2018 G	B067	0	0	0	0	0	0	0	0	-0.032	0
2018 G	8071	-0.099	0	0	0	0	0	0	0	-0.159	0
2018 G	8073	0	0	0	0	0	0	0	0	0	0
2018 6	8075	0	0	0	0	0	0	0	0	0	0
2018 6	B080	0	0	0	0	0	0	-0.054	0	0	0
2018 6	B081	0	0	0	0	ů O	0	0	0	0	0
2018 6	8085	0	0	0	0	0	0	0	0	0	0
2018 6	8090	0	0	0	0	0	0	0	0	0	0
2018_6	8092	0	0	0	0	0	0	0	0	-0.048	0
2010_0	0092	-0.057	0	0	0.057	0	0	0	0	-0.057	0
2018_0	C102	-0.035	0	0	-0.057	0	0	0	0	-0.057	0
2018_0	C103	-0.035	0	0	0	0	0	0 0 0 7	0	0	0
2018_0	C109	0	0	0	0	0	0	-0.027	0	0 002	0
2018_0	C110	-0.055	0	0	0	0	0	0	0	-0.055	
2018_6	0114	0	0	U	U	0	U	0	0	0	U
2018_6	C115	-0.045	U	U	U	U	U	-0.045	U	-0.125	U
2018_6	C121	U	U	U	U	U	u	U	U	-0.236	U
2018_6	C131	0	0	0	0	0	0	0	0	0	0
2018_6	C133	-0.155	0	0	0	0	0	0	0	-0.155	0
2018_G	C135	-0.041	0	0	0	0	0	0	0	-0.211	0
2018_G	C136	-0.030	0	0	0	0	0	0	0	0	0
2018_G	C137	0	0	0	0	0	0	-0.039	0	0	0

# Supplement Table 1: Plant species indices – continued (FG herb species A-B Season 2018 H)

	functional group	p herb	herb	herb	herb	herb	herb	herb	herb	herb	herb
	family	Amaranthacea	e Apiaceae	Apiaceae	Apiaceae	Apiaceae	Apiaceae	Apiaceae	Brassicaceae	Brassicaceae	Brassicaceae
	Code	Chealb	Antsyl	Carcar	Daucar	Hersph	Passat	Pimmaj	Arahir	Capbur	Sinalb
	species	Chenopodium_	a Anthriscus_sylv	ve Carum_carvi cf.	Daucus_carota	Heracleum_s	pho Pastinaca_sativ	a Pimpinella_ma	jo Arabis_hirsuta	Capsella_bursa-	p Sinapis_alba
	season	2018_E,F,G,H	2018_E,F,G	2018_E	2018_E,F,G,H	2018_E,F	2018_E,F,G	2018_E,F,G,H	2018_H	2018_E,F,G,H	2018_H
Season	plot										
2018_H	A002	0	0	0	0	0	0	0	0	-0.177	0
2018_H	A003	0	0	0	0	0	0	-0.028	0	-0.049	0
2018_H	A005	0	0	0	-0.053	0	0	-0.031	0	-0.255	0
2018_H	A009	0	0	0	-0.092	0	0	-0.055	0	0	0
2018_H	A010	0	0	0	0	0	0	0	0	0	0
2018_H	A011	0	0	0	0	0	0	-0.049	-0.028	-0.157	0
2018_H	A013	0	0	0	-0.097	0	0	-0.033	0	-0.269	0
2018_H	A016	0	0	0	0	0	0	0	0	-0.327	0
2018 H	A018	0	0	0	-0.030	0	0	-0.030	0	-0.037	0
2018_H	A020	0	0	0	0	0	0	0	0	-0.117	0
2018 H	A026	0	0	0	0	0	0	0	0	-0.037	0
2018 H	A027	0	0	0	o	0	0	0	0	-0.296	0
2018 H	A030	0	0	0	0	0	O	0	0	0	0
2018 H	A035	0	0	0	0	0	0	0	0	0	-0.046
2018 H	A040	0	0	0	-0.059	0	Ū	0	Ū	-0.161	0
2018 H	A042	0	0	0	0	0	0	0	0	0	0
2018 H	A043	0	0	0	0	0	0	0	-0.151	-0.262	0
2018 H	A044	0	0	0	-0.036	0	0	0	0	-0.193	0
2018 H	A045	0	0	0	-0.023	0	0	-0.023	0	-0.068	0
2018 H	A046	0	0	0	0	0	0	-0.028	0	0	0
2018 H	B048	0	0	0	0	0	0	0	0	-0.083	0
2018 H	8051	0	0	0	0	0	0	0	0	-0.105	0
2018 H	B054	0	0	0	0	0	0	0	0	-0.244	0
2018 H	B057	0	0	0	0	0	0	0	0	0	0
2018 H	8059	0	0	0	0	0	0	0	0	-0.288	0
2018 H	B060	-0.092	0	0	0	0	0	0	0	-0.347	0
2018 H	B064	0	0	0	0	0	0	0	0	-0.189	0
2018 H	B067	0	0	0	0	-	0	0	0	0	0
2018 H	8071	-0.046	0	0	0	0	0	0	0	-0.283	0
2018 H	B073	0	0	0	-0.025	0	0	0	0	0	0
2018 H	B075	0	0	0	0	0	0	0	0	0	0
2018 H	BOSO	0	0	0	0	0	0	-0.037	0	0	0
2018 H	B081	0	0	0	-0.100	0	0	0	0	-0.274	0
2018 H	8085	0	0	0	0	0	0	0	0	0	0
2018 H	B090	0	0	0	0	0	0	0	0	0	0
2018 H	B092	-0.025	0	0	0	0	0	0	0	-0.277	0
2018 H	C097	-0.029	0	0	-0.050	0	0	0	0	-0.244	0
2018 H	C103	0	0	0	0	0	0	0	0	-0 138	0
2018 H	C109	0	0	0	0	0	0	-0.028	0	0	0
2018 H	C110	-0.026	0	0	0	0	0	0	0	-0.228	ů
2018 H	c114	0	0	0	0	0	0	0	0	0	0
2018 H	C115	-0 040	n	n	n	0	0	n	0	-0 209	n n
2018 H	C121	0.040	n	0	0	0	0	0	0	-0.253	0
2018 H	c131	-0.071	0	0	0		0	0	0	-0.255	0
2018 4	c133	_0.091	0	0	0		0	0	0	-0.545	0
2018 H	C135	0.055	0	0	0	0	0	0	0	-0.166	0
2018 H	C136	0	0	0	0	0	0	0	0	-0.100	0
2018 1	C137	0	0	0	0	0	0	_0.045	0	-0.325	0
2010 <sup>-</sup> H	C15/	U	U	U	U	U	U	-0.045	U	-0.225	U

-DDe

#### herb Compositae Tarofi Taradeum\_c 2018\_E.F.(G.H 0.206 0.342 herb Compositae Soncle Sonchus\_ol herb Compositae Sonasp 2018\_E hetb Compositae Sonarv Sonchus\_ar 2018\_G herb Compositae Solvir **Solidago\_vi** 2018\_F hetb Compositae Soloan Solidago\_ci 2018\_E.G.H -0.068 heib Compositae Sooaut Scorzoneroi 2018\_F,G Leucanthemu 2018\_EF.G.H herb Compositae Leuvul herb Compositue Leouut 2018\_H hetb Compositae Laoser **Laotuca\_ser** 2018\_E.G.H 0.035 herb Compositae Gabør ki **Galinsoga\_par** 2018\_E.F./G 0 0 hetb Compositae Erioan 2018\_H Erigeron\_anr 2018\_E.F.G.H herb Compositae Eriann hetb Compositae 1 Crebie 1 2018\_F 3 hetb Compositae Cirole Cirsium\_ole 2018\_F.G.H Cirsium\_arve 2018\_EF.G.H herb Compositae Cirarv Centaurea\_ja 1018\_E.F.G.H herb Compositae Cenjao 0 0 0.071 -0.071 -0.057 -0.057 0.118 -0.312 herb Compositae Carori arduus\_018\_GH herb Composikae Belper 2018\_E.F.H . . . . . . . . . . . herb • Compositae Achmil Achillea\_millefo 2018\_E.(G.H herb Caryophyllaceae Siniv • **Silene\_nivea** • 2018\_E.G.H -0.025 herb herb herb Cargophyllacese C Caprifoliasese Cargophyllacese C Knaarv Cenhol S A Knautia\_arvet Cerastium\_holloste 5 2018\_E.F.G.H 2018\_E.F.G.H 2 b herb Campanulaceae Campar Campanula\_pa K 2018\_E 2018\_E 0 -0.033 -0.030 0 0.022 Intelligence Intelligence</

#### Supplement Table 1: Plant species indices – continued (FG herb species C Season 2018 E)

functional group	) hetb	herb	herb	herb	hetb	herb	herb	hetb Pr	eb he	p her	he	pHQ	hett	hetb	herb	hetb	her	4	terb	herb	49	Hb helb	heri	
famity	Campanulaceae	C-sprifoliaceae	Caryophyllaceae	Caryophylac	Here Compositive	Compositive	Compositae	Compositae C	compositae Co	mpositae Co	npositae Co	mpositae Con	spositae Cor	positae Com	positae Com	ositae Con	positae Co	mpositae	Compositiae	Compositive (	Ompositae C	ompositae Con	positer Co	npositiae
Code	Campat Campanula na I	Knaarv Knaaria arue	Cethol Cornerium hole	Silviv Vetes Silane nin	Achmil as Achillas mille	Belper afol Ballie nara	Caroli Caroline of	Cenjac C	itav Virim me O	ok reinn olaran Cr	bie Eis mie hinn Ers	sen Eric meron ann Frie	an Gal	se lacs neora narui laci	er Leoar	ten leur	ul So canthamum unt So	saut orronaroidae autur	Solcan Solidano nanadi	Sobii Solidaan minaa 9	onarv St	onasp Son onchur Ann Son	ole Tar Indexe Tar	dif aracum officinale and
Losses	2018_E	2018_E.F.G.H	2018_EF.G.H	2018_E.G.H	2018_E.G.H	2018_EF.H	2018_G,H	2018_E.F.Q.H 2	018_EF.G.H 20	8_F.G.H 201	9.F 201	9_E.F.Q.H 2018	Н 2016	E.F.G 2018	E.G.H 2018	2018	E.F.G.H 201	8_F.G	2018_E.G.H	2018_F 2018	018_G 20	M8_E 2018	E 201	LEF.G.H
Seaso plot																								
2018_F A002 2018_F A002	• •	• •	• •	• •	• •	• •	• •	• •		• •	• •			• •		• •	0.000		• •	• •	• •	• •		-10.00 - 110
2018 F A005	• •		• •	• •	• •	• •		• •	• •				• •	• •			0			• •				-0.085
2018 F A009	• •		• •	• •				• •				-0.11								m.o.			. 0	-0.177
2018_F A010	0	-0.240	0	0	0	0	0	-0.189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.072
2018_F A011	0	0	0	0	0	0	0	-0.063	0	0	0	0	0	0	0	0	-0.344	0	0	0	0	0	0	-0.115
2018_F A013	0	0	•	0	0	0	0	-0.364	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018_F A016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.086	0	0	980/0-	0	0	0	-0.218
2018 F A018	0	0	0	0	0	•	0	0	0	0	0	0	0	0	0	0	-0.303	0	0	0	0	0	0	0
2018_F A020	•	-0.270	•	0	•	•	0	•	•	-0.085	0	0				0	•		•	-0.085		0		0
2018 F 4026 2018 F 4027						0						12010-								0 1087				0
2018 F A030	• •	-0.347	• •	• •	• •	0	• •	-0.150	• •	, .		-0.150		• •	• •		290-		• •	0	• •	• •		0
2018_F A035	0	0	0	•	0	•	0	0	0	-0.046	0	0	0	0	0	•	0	0	0	0	•	0	0	0
2018_F A040	0	0	0	0	0	0	0	0	0	621/0-	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.173
2018_F A042	0	-0.173	•	•	0	•	0	-0.177	0	0	0	-0.111	0	0		•	0	0	•	0	0	0	0	0
2018_F A043	•	0	0	•	0	0	•	0	82010-	0	82010-	0	0	0	0	0	0	0	0	0	•	0	0	-0.09
2018_F A044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	0	0	•	0	0	0	0	CH10-
2018_F A045	•	-0.092	•	0	0	•	•	•	•	0	0	0		0		0	-0.092	0	•	0	•	0	0	0
2018 F A046						- C80'0-											-0.270			•				3800-
2018_F E048 2018 F E051												9/00-					-0.354			9/010-				
2018 F B054			• •														0							
2018_F B057	0	0	•	0	0	•	0	-0.355	0	0	0	0	0	0	0	0	660'0-	0	0	0	0	0	0	-0.059
2018_F B059	0	0	-0.218	0	0	0	0	0	0	0	0	-0.218	0	0	0	0	0	0	0	0	0	0	0	-0.218
2018_F B060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.122
2018_F B064	0	0	0	0	0	0	0	0	0	0	0	-0.059	0	0	0	0	-0.161	0	0	-0.059	0	0	0	0
2018_F B067	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.356	0	0	0	0	0	0	0
2018_F B071	0	0	•	0	0	0	0	0	-0.091	0	0	0	0	0	0	0	0	0	0	0	•	0	0	0
2018_F BU/3		29670-						0/1/0-									0.101							
2018 F B080	•		•	•				•	. 0					. 0			02010-		•	• •	•	. 0	. 0	02010-
2018_F B081	0	0	•	•	0	•	•	0	0	•	0	0	0	0	0	0	-0.072	0	•	0	•	0	0	0
2018_F B085	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.279	0	0	0	0	0	0	0
2018_F B090	0	-0.063	•	•	•	•	0	•	0	•	0	0	0	•	0	0	-0.218	0	•	0	•	0	0	0
2018 F E032						•				•		+60.02												+S00-
2018_F C097		0	• •		• •	• •		• •		19070-		-0.05					0		• •		• •			
2018 F C109		0.135	• •	• •		• •		• •	• •								-0.365							
2018 F C110	0	0	0	0	0	0	0	0	-0.111	0	0	-0.111	0	0	0	0	0	-0.111	0	0	0	0	0	-0.264
2018_F C1M	0	0	0	•	0	0	0	0	0	-0.043	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.043
2018_F C115	0	0	0	0	0	0	0	0	230.0-	-0.057	0	0	0	0	0	0	-0.155	0	0	0	0	0	0	960'0-
2018_F C121	0	0	0	•	0	0	0	-0.129	820.0-	-0.078	0	-0.129	0	-0.322	0	0	0	0	0	0	0	0	0	0
2018_F C131	0	0	0	0	0	0	0	0	0	190'0-	0	0	0	-0.051	0	0	0	0	0	0	0	0	0	-0.051
2018_F C133	0	0	0	•	0	0	•	0	-0.2%	0	0	0	0	-0.218	0	0	0	0	0	0	•	0	0	-0.218
2018_F C135	0	-0.283	0	0	0	0	0	0	0	-0.067	0	0	0	0	0	0	-0.294	0	•	0	0	0	0	0
2018_F C136	• •		• •	• •	• •	• •	• •		• •	• •				0		• •	9900-		•	• •	• •	•		0
2018_F UTS/	Þ		•	•	2	•	Þ	•	Þ	•	•	5	0	-0.05%	•	•	-0.269	D	•	Þ	•	•	5	-0.156

# Supplement Table 1: Plant species indices – continued (FG herb species C Season 2018 F)

# Supplement Table 1: Plant species indices – continued (FG herb species C Season 2018 G)

functional group	herb hert.	4 4	etb	herb	herb	herb	herb	herb heri	heth	herb	herb	herb	herb	hoth	herb	drad	herb	herb	herb	het	hetb	harb	hetb	
family 1110	Campandaceae Cap	prifoliaceae L	Carjophyllaceae	Caryophyllaceae	Compositae	Compositue Dutro:	Compositae	Compositue Co	mpositae Con	positae Com	positae Com	ositae Comp	ositae Comp	ositae Compo	ositae Compos	tae Composi	ae Compo	Itae Comp	ositae Corr	positae Cor	npositae Corr	ipositae Comp	ositae Com	ositae
species	Campanula pa Knä	autia arvei C	Serastium holost.	e Silene nivea	Achillea millefo	Derper ol Bellis peren	Carduus eris	Centaurea ja Cir	sium arve Cir:	sium oleraci Crei	is bien Erig	ron ann Erige	capa ron canadi Galir	soqa parvi Lactu	ca ser Leonto	fon autumi Leucant	bemum vul Scorzo	neroides autur Solid	ago canad Soli	daqo virqa Sor	inv our som	chus aspi Sone	hus olera Tara	tacum officinale aqq.
Season	2018 E 2016	R EF.GH 2	018_E.F.G.H	2018 E.G.H	2018, E.G.H	2018 E.F.H	2018_GJH	2018_E.F.G.H 201	EF.GH 2018	F.G.H 2018	F 2018	EF.G.H 2018	4 2018	CF.G 2018 E	GH 2018_H	2018 E.F.	3.H 2018_F.0	2018	EGH 2018	F 2016	G 2018	E 2018	2018	5, G,H
Seaso: plot																								
0018_G A002	•	0 .	•	•	•	•	0	0 .		0.				•		0				•			0.	-0.244
008_G A005																	9000							00U0-
0018_G_A009	• •	-0.125			• •			-0.045		-0.076		0.125					0.225	-0.045	92010-					-0.125
018 G A010	0	690.0-	•	0	0	0	0	-0.228	0	0	0	0	0	0			0.127	0	0	0	0	0	0	0
0018_G A011	0	-0.076	•	0	0	0	0	-0.125	•	0	0	0.045	0	0			1368	0	-0.045	0	0	•	0	-0.125
2018_G A013	0	-0.236	•	0	0	0	0	-0.363	0	0	0	0.081	0	0	•		0.048	0	-0.048	0	0	•	0	-0.048
0018_G A016	0	0	•	0	950'0-	0	0	0		0		0.056	0	•			0.152		0	0	95010-	0	0	-0.263
5018_G A018	0 1	-0.048		0 1	• •	•	•	0 1		0 1			0				0.329							
0018_G A020	• •	-0.334	• •	• •	• •			0 0				0.049 0.046		• •			0.135							0 0
2018 G A027		223-0-	• •	• •	290'0-	• •	• •	192	• •			223.0			, .				- ma-		2900-		• •	221'0-
2018_G_A030	•	-0.361		. 0	0		•	-0.352				0.042	. 0	. 0			1306		-0.042	. 0	0			0
2018_G A035	0	-0.049	0	0	0	0	-0.049	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	0	-0.135
2018_G A040	0	-0.227	-0.091	0	0	0	0	0	0	-0.091	0	0.647	0	-0.091	•	. 0	2410	0	-0.091	•	0	•	0	-0.227
2018_G A042	0	-0.202	0	0	0	0	0	-0.152	0	0		0.056	0	0	0	0	0	0	0	0	0	0	0	-0.152
2018_G A043	•	-0.274	0	0	•	0	-0.059	-0.100	0	0	0	0.059	0	0.0	009	0	0	0	0	•	0	0	0	-0.151
2018_G A044	0	-0.121	•	0	•	0	0	0	•	0	0	0	0	0		0		0	0	0	•	•	0	-0.191
2018_G A045	0	-0.075	•	•	0	0	0	0	•	0	0	0	0	•			9201	0	0	•	0	•	0	9/00-
2018_G A046	0	-0.091	*90°0-	-0.149	•	0	0	0	0	0		0	0	0			0.298	0	0	0	0	0	0	-0.M3
2018_G B048	• •	-0.101	• •	-0.060	• •	• •		0				0.060					1323		-0.101					• •
		0000			• •			2010									1000		000					1000
2018 G B057		-0.158	• •	• •	• •	, .	• •	-0.306	• •	, a			, o	, .	, .	, o					, o	, .	, o	0
2018_G E059	•	-0.145			0		•	0	-0.445							. 0		-0.145	-0.145		. 0			. 0
2018_G E060	0	0	-0.052	0	0	0	0	0	0	0	0	0	0	0	0	. 0	2007	-0.052	-0.062	0	0	0	0	280'0-
2018_G B064	0	0	-0.052	0	0	0	-0.052	0	0	0	•	0.052	0	0	•	. 0	1.052	0	-0.052	0	0	•	0	0
2018_G B067	•	-0.032	-0.002	0	•	0	0	0	0	0	0	0	0	•			0.313	0	0	0	0	0	0	0
2018_G B071	0	-0.059	•	0	•	0	0	0	-0.53	0		0.059	0	-0.059		0	0	0	0	0	0	•	0	-0.159
2018_G E073 1016_G E075	• •	-0.328	• •		• •			-0.187									1328							
2018_G_E080	• •				• •												0.147		-0.054					16070-
2018_G E081	0	0	0	0	0	0	0	0	0	0	0	0.056	0	0	0	. 0	1034	0	0	0	0	0	0	0
2018_G E085	0	-0.238	81010-	0	0	0	0	0	-0.048	0	0	0.048	0	0	•	. 0	1336	0	0	0	0	0	0	-0.082
2018_G E030	0	\$80.0-	0	0	0	0	0	0	0	0	0	0	0	0			0.202	0	0	0	0	0	0	0
2018 19 1902		-	84000-				5	5	2000	-		2400	-				1907					-		SH010-
2018_G C097	• •	-0.057	-2000-	• •	• •	• •	• •	-0.057	-0.057	-0.057			• •	• •			0	•	•	• •	• •	• •		•
		AP40-	• •	• •	• •												0.000				• •			
2018 G C110		C8010-								-0.055		0.055			, .		0,151	0000-	-0.055					-0.262
2018_G_C114	0	-0.043	•	0	0	0	0	0	•	-0.043	0	0	0	0	043	0		0	0	0	•	•	0	CH010-
2018_G C115	0	-0.125	0	0	0	0	0	0	0	-0.045	0	0	0	•	•	. 0	0.045	0	-0.045	0	0	0	0	0
2018_G C121	0	0	•	0	0	0	-0.048	0	0	-0.132		0.327	•	0		0		0	-0.048	0	0	•	0	100.0-
2018_G C131	0	-0.043	•	0	0	0	•	0	0	-0.043		0.043	0	0	•	0	0	0	0	0	-0.043	•	0	0
2018_G C133	0	•	0	0	0	0	0	0	0	-0.155	0	0	0	0	0	0	0	0	-0.155	0	0	0	0	-0.155
018_G C135	0	-0.256	•	0	0	0	0	0	-0.041	10.01	0	0	0	•	•		1303	0	0	0	0	•	0	0
2018_G C135		-0.088					•										1366							
2018_G C137	0	-0.293	0	0	0	0	•	0	0	-0.065		0.039	0	0	0	0	0	0	0	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG herb species C Season 2018 H)

		and share	·inarc agg.																																									
	ositae		E.F.G.H		-0284	0600	-0.150	0	-0.157	-0.058	1620-		-0.051	0	0	0	1900	•	0	0	-0.082	-0.063	0.105	0.050	0.40	-0.055	0	0	-0.148		-0.156	0	0.00 0	•	-0.065	0	-0.082	0.08	0	-0.069	12010-	-0.059		0
herb	e Comp	Tarofi Alara Tara	2018																																									
herb	Composita	Sonole	2018 E		0 0	• •	0	0	0	•	•		• •	0	•	•	• •	• •	0	0	•	0	• •	• •	•	• •	0	0	• •		0	0	• •	. 0	0	•	0 (	• •	• •	0	•	0 0		) O
herb	Compositae	Sonasp Constructions	2018_E			• •	0	•	0	•	•	• •	• •	0	•	•	• •	• •	0	0	0	0	• •	• •		• •	0	•	• •	• •	•	0	• •	•	•	•	• •	• •	• •	0	•	• •		, o
ę	ompositae	Desire	18 G			• •	•	•	•	•	•	• •		0	•	•	• •		0	•	0	0	• •	• •	• •	• •	0	•	• •		•	0	• •	•	•	•	•	• •	• •	0	0	0 0		
2	positae C	S	E D				0	0	0	•	•			0	•				0	0	0	0					0	0	• •		0	0			0	0				0	0	0 (		
herb	M COM	Solvi Solvi	2018				22		8	8	6			53								5			2	R						0						16	9	8				5
herb	Compositi	Soloan Soloan	2018 E.G.H		0 0		0.0-	0	0.0-	00	00		• •	0.0-	0	0	0 8	•	0	0	0	0.0	• •	0 0	0 0		0	0	0 0		0	-0.0		. 0	0	0	•	000	° 8	-0.14	0	0 0		, 00-
	058.20		5			• •	0	0	0	•				0	•			• •	0	0	0	0		• •	• •	• •	0	•	• •		0	0			0	0	•		• •	0	0	0 0		• •
herb	Comp	Scoau Boost	2018																																									
herb	Compositae	Levul	2018_E.F.G.H		-0.056	-0.255	-0.150	•	-0.368	-0.181	-0.236	240	•	0	-0.353	-0.128	\$120-	-0.055	-0.133	-0.133	-0.352	-0.363	-0.361	0 3	- en	-0.173	-0.330	-0.339	0 0	-0.322	-0.287	0	136.0	0.044	-0.085	9000-	9300-	-0.M8	• •	0	12010-	0	1907.0	-0.125
	skae						0	0	0	•				0	0			• •	-0.036	0	0	0				• •	0	0			0	0		. 0	0	0			• •	0	0	0	nenn-	• •
herb	ae Compo	Leosur	H 2018_H																																									
herb	Composi	Lacser	2018 E.G.		0 0	• •	0	0	0	•	0	• •		0	°	0	• •		0	0	0	0	•	• •		• •	0	•	• •		•	0	• •		0	0	•	• •		0	0	50'0- U		) O
herb	Compositae	Gabar Pelanan	2018_E,F,G			• •	0	0	0	•	•		• •	0	•	•	• •	• •	•	•	0	•	•	• •	• •	• •	0	•	• •		0	•	• •	• •	0	•	• •	• •	• •	0	•	• •	• •	, o
	mpositae	ur ur	EH E				0	0	0	•			-0.051	0	0			• •	0	•	0	0			• •		0	0			0	0			0	0			• •	0	0	0 0		• •
1	positae Col	n Eic	E.F.G.H 203		-0103		-0.052	0	0	-0.058			-0.051	-0.205	•	•	-0.059	-0.751	0	0	0	-0.063					0	0			0	0	0.00	-0.044	-0.050	0	0 1		• •	-0.145	0	0 (		92010-
herb	positae Com	ie Eriae als Man Eria	F 208				0	0	0	0				0	0				0	0	0	0					0	0			0	0			0	0				0	0	0 (		
herb	Itae Corr	Creb	H 2018																																							. 1	š.	
herb	te Composi	Circle	UH 2018_F.G																																						-	- 3		
herb	Composit	Cirary	4 2018 E.F.O				2010-	0	•	•	•		• •	-0.03	0	90 <del>0</del>		• •	0	-0.02	0	0	•	0 0		0	-0.03	0	0 0		0	0	200	20.0-	-0.05	0	•	900- 2000	0	-0.25	-0.02	-0.09		, 2010-
herb	Compositat	Cenjao	2018 E.F.G.		+60.0-		-0.150	-0.193	-0.157	-0.322	•		0000-	-0.345	-0.163	•	0 000	0.151	-0.062	0	0	0	•	-0.138			0	•	•	0	•	0	0700- 2000-	0	0	•	0	2200		-0.M5	•	-0.059		-0.125
Perb	Compositae	Carol	2018_GH		• •	• •	•	0	•	•	•	• •	• •	0	•	•	0.053	-0.053	0	•	0	0	• •	• •	• •	• •	0	0	22010-		•	0	• •	•	-0.029	•	•	• •	• •	0	•	• •		, o
herb	Compositae	Belper	2018_EF.H		• •	• •	-0.055	•	-0.083	-0.058	•	• •	• •	-0.067	-0.031	•	• •	• •	•	-0.023	6+0'0-	-0.028	-0.037	0		• •	0	0	• •		•	0.059	9000	0	0	-0.024	690'0-	• •	• •	0	0	0	7900 D	, o
	mpositae	hmil Miller millet	8_E.G.H			• •	0	0	-0.028	•	-0.027	• •	-0030	-0.039	0			• •	0	0	0			• •	• •	• •	0	•	• •		0	0			0	•	• •		• •	0	0			• •
ž	ophyllaceae Co	v A	E.G.H 20				0	0	0	•	•			0	0	•			0	0	-0.028	0		• •		• •	0	0	• •		0	0			0	0	•		• •	0	0	0 (		
herb	070 070	Shi Matazar Shi	2018				52		23				8	2			s :	,	8		*	22	¢ .	~ •		5	2		5	2	6	0	8		8	E	12		5			£ 1		
herb	<ul> <li>Caryophyllac</li> </ul>	Cerhol	2018_E.F.G.		0 0		00	0	-0.0	•	0		200	-0.11	0	•	8	0	-0.0	0	96	90	10	47 A	10	- 610-	-0.10	0	0 0	000	-0.10	0.0-	10 <sup>.</sup>		0.0-	00-	10 ·	0 0	0.0	0	0	0.2		, o
herb	Caprifoliaceau	Knaarv	2018 E.F.G.H		• •	-0.030	-0.150	-0.360	-0.157	-0.151	•	0.70	-0.087	-0.205	-0.342	0.128	0.274	-0.262	-0.153	-0.058	-0.239	1210	0109	-0.334	107.0-	0	-0.102	420.0-	-0.228	0410	-0107	0	0.22	•	0	-0.303	0	-0.M8	0.209	-0.145	12010-	-0.184	16.0	0.225
t.	ampandaceae	ampat	38 E			• •	0	0	0	•	0		• •	0	•	•	• •	• •	0	•	0	0	• •	• •	• •	• •	0	•	• •		0	0	• •		0	0	0 1	• •	• •	0	0	0 0		• •
which a group he	o (m	ode anime	ason 20	ŏ	20 20	3 19	100	010	110	913	016	810	8	127	30	8	8 9	; <del>2</del>	744	145	346	348	1g i	z :	20	. 8	164	295	5	20	180	180	89	182	187	103	60	8 1	<u> </u>	21	101	50 H	g 2	01
fur	2	σI	<del>7</del> 8	son ph	H H	2 8 5 1	CH A0	1H AG	.н At	N N	H H	н 1 1	. W	CH A0	QH AC	H ₩	н Н	. R . H.	EH AO	UH A0	3_H AG	H H	5 i	ы н. :		55	ов н <sup>-</sup>	<u>е</u> н вс	ы н н	5 8 5 5	0H B0	н	ы н н н	8	л Н	E H	с і н.:	5 č	5 5	ъ н	CH CI	н): С С	52	) び 5 5
				ŝ	500	5016	2011	2016	2011	50	501	201.	2018	2016	2011	501	2010	2015	2015	2011	2011	2011	50	5		5 10	2016	2011	2011	2016	2011	201	2010	2015	2016	2011	501	2010	2018	2016	2011	2011	10 P	2011

# Supplement Table 1: Plant species indices – continued (FG herb species E-O Season 2018 E)

	f	- 66	h - sh	h - sh	hash	h - sh	h - sh	h h	h h	h - sh	h - sh
	family	p nero	nero Europachia esper	nero Eveloationen	Germineen	Germineen	Nero	lero	leminero	Mehrennen	nero One menore e
	Carda	Equiseraceae	Euphorbiaceae	Euphorbiaceae	Geraniaceae	Geraniaceae	Hypericaceae	Clahad	Dennal	Malvaceae	Giagraceae
	code	Equary	Eupspe Eusberhie rees	Meranni Meranni	Gerpra	Gerspe Gerspiere	Hypper Hunorisum norferstum	Glashama badarasa	Provelle contensis	Malinos	Epispe
	species	2018 EEGH	2018 H G	2019 G H	2012 EEGH	2019 E	2012 G H	2012 EEG H	2012 EEG H	2012 E.G.H	2019 E
Sector	plot	2010_0,1,0,11	2010_11, 0	2010_0,0	2010_0,1,0,11	2010_0	2010_0,0	2010_0,1,0,11	2010_0,1,0,11	2010_1,0,11	2010_0
2019 E	4002	-0.112	0	0	.0 113	0	0	-0.040	-0.040	0	0
2010_0	4002	-0.115	0	0	-0.115	0	0	-8.848	-0.040	0	0
2010_C	A005	-0.071	0	0	-0.071	0	0	-0.071	0	0	0
2010_0	A005	-0.277	0	0	0	0.042	0	0	0	0	0
2010_0	4009	-0.551	0	0	0	-0.042	0	0	0 021	0	0
2010_0	4010	-0.055	0	0	0	0	0	0	-0.051	0	0
2010_0	4012	0	0	0	0	0	0	0 030	-0.057	0	0.020
2010_0	4015	0 110	0	0	0	0	0	-0.030	0.028	0	-0.050
2010_0	4018	-0.110 0.0E1	0	0	0.267	0	0	-0.110	-0.050	0	0
2010_0	A010	-0.051	0	0	-0.567	0	0	0	-0.051	0	0
2010_0	A026	-0.151	0	0	0	0	0	0	-0.056	0	0
2010_0	A026	0	0	0	0	0	0	0 022	-0.065	0	0
2010_0	A027	0	0	0	0	0	0	-0.088	0	0	0
2010_0	A030	0 102	0	0	0.255	0	0	0.005	0	0	0
2010_0	A035	-0.108	0	0	-0.555	0	0	-0.065	0 0 2 0	0	0
2010_0	A040	0 071	0	0	0	0	0	0	-0.035	0	0
2010_0	A042	-0.071	0	0	0	0	0	0.025	-0.118	0	0
2010_0	A043	0	0	0	0	0	0	-0.035	0	0	0
2010_0	A044	0	0	0	0	0	0	0	0	0	0
2010_0	A045	0	0	0	0	0	0	0	0	0	0
2010_0	A046	0	0	0	0	0	0	0.050	0.025	0	0
2018_6	8048	0	0	0	0	0	0	-0.050	-0.085	0	0
2010_6	BUSI	0	0	0	0 051	0	0	0 001	0 021	0	0
2010_6	8054	0	0	0	-0.05+	0	0	-0.091	-0.031	0	0
2010_0	BUS/	0	0	0	0	0	0	0	-0.066	0	0
2010_0	Buss	0	0	0	0	0	0	0	-0.125	0	0
2010_0	BUGU	0	0	0	0	0	0	0 033	-0.169	0	0
2010_0	B064	0	0	0	0	0	0	-0.033	-0.055	0	0
2010_0	B007	0	0	0	0.088	0	0	0	0	0	0
2010_0	8071	0	0	0	-0.000	0	0	0	0	0	0
2010_0	8075	0	0	0	0	0	0	0	0	0	0
2010_0	B020	0	0	0	0.026	0	0	0	0	0	0
2010_C	B081	0	0	0	-0.364	0	0	0	-0.094	0	0
2010_C	B085	0	0	0	0	0	0	-0.176	-0.032	0	0
2018 F	B090	0	0	0	-0.030	0	0	-0.165	0.052	0	0
2018 F	B092	0	0	0	0.050	0	0	0	0	0	-0.040
2018 F	C097	0	0	0	0	0	0	0	0	0	0.010
2018 F	C103	0	0	0	-0.030	0	0	-0.166	-0.052	0	0
2018 F	C109	0	0	0	-0.358	0	0	0	0.052	0	0
2018 F	C110	0	0	0	-0.090	0	0	0	-0.090	0	0
2018 E	C114	ũ	ũ	0	0	0	ũ	-0.025	0	ũ	0
2018 E	C115	ũ	ũ	0	0	0	ũ	0	-0.194	ũ	0
2018 E	C121	ũ	0	0	-0.296	0	ũ	-0.108	0	ũ	-0.065
2018 F	C131	ñ	ů.	0	0	0	ů.	-0.029	-0.086	n n	0
2018 E	C133	ũ	0	0	0	0	õ	0	-0.068	0	0
2018 F	C135	ñ	0	0	0	0	- n	-0.036	-0,062	0	-0,036
2018 E	C136	ů O	0	0	0	0	- 0	0	0	0	0
2018 E	C137	0	0	0	-0.035	0	-	0	-0.035	0	0
		-	-	-		-	-	-		-	-

# Supplement Table 1: Plant species indices – continued (FG herb species E-O Season 2018 F)

	functional group	n harb	harb	borb	bach	harb	harb	barb	harb	harb	hash
	family	Fauicotacoao	Funbarbiacoao	Funbarbiaceae	Goraniacoao	Goraniacoao	Hypericaceae	lamiaceae	Lamiacana	Mahasaaa	Oppgracease
	Code	Equiseraceae	Euprop	Marann	Geranaceae	Gerene	Hypericaceae	Globod	Provad	Malwaceae	Enicpo
	species	Equinatum propose	Euphorbia roor	Meranii Mercurialir, annua	Gerpra	Gerspier mer	Hypper Hypper	Glashema hadarasaa	Prupolla vulgaria	Malva morchata	Epilobium roor
	season	2018 EEGH	2018 H G	2018 G H	2018 EEGH	2018 F	2018 G H	2018 FEGH	2018 FEGH	2018 E.G.H	2018 F
Season	plat	2020_0,1,0,11	2020_11, 0	2020_0,0	2020_0,1,0,11	2010_1	2010_0,0	2020_0,1,0,11	2020_0,1,0,11	2020_7,0,0	1010_0
2018 F	A002	-0 138	0	0	0	0	0	0	0	0	0
2018 F	4003	-0.255	0	0	-0.053	0	0	0	0	-0.053	0
2018 F	A005	-0.334	0	0	0	0	0	0	0	0.055	0
2018 E	4009	-0.365	0	0	0	0	0	0	0	0	0
2018 F	4010	-0.119	0	0	ů	ů	0	0	0	0	0
2018 F	4011	-0.115	0	0	0	0	0	0	0	0	0
2018 F	4013	0	0	0	0	0	0	0	0	0	0
2018 F	A016	-0.086	0	0	0	0	0	-0.086	0	0	0
2018 E	4018	-0.211	0	0	-0.350	0	0	0	0	0	0
2018 F	4020	-0.215	0	0	-0.085	ů	0	0	0	0	0
2018 F	4026	-0.164	0	0	-0.005	0	0	0	0	0	0
2018 F	4027	0.101	0	0	0	0	0	0	0	0	0
2018 E	4030	0	0	0	0	0	0	0	0	0	0
2018 F	4035	-0.232	0	0	-0.366	0	0	-0.046	0	0	0
2018 F	4040	-0.151	0	0	-0.500	0	0	-0.040	0	0	0
2010_0	4043	-0 177	0	0	0	0	0	-0.067	0	0	0
2010_1 2019_E	4042	-0.177	0	0	0	0	0	-0.007	0	0	0
2018 E	4044	0	0	0	0	0	0	0	0	0	0
2010_0	A04F	0	0	0	0	0	0	0	0	0	0
2010_	4045	0	0	0	0	0	0	0.025	0	0	0
2010_0	R049	0	0	0	0	0	0	-0.005	0	0	0
2010_1 2018_E	B051	0	0	0	0	0	0	0	0	0	0
2018 E	8054	0	0	0	0	0	0	0	0	0	0
2018 F	8057	0	0	0	0	0	0	0	0	0	0
2018 F	8059	0	0	0	0	0	0	0	0	0	0
2018 F	8060	0	0	0	0	0	0	0	0	0	0
2018 F	8064	0	0	0	0	0	0	0	0	0	0
2018 F	8067	0	0	0	0	0	0	0	0	0	0
2018 E	B071	0	0	0	0	0	0	0	0	0	0
2018 E	B073	0	0	0	0	0	0	0	0	0	0
2018 F	8075	0	0	0	0	0	0	0	0	0	0
2018 F	B0S0	0	0	0	0	0	0	0	0	0	0
 2018 F	B081	0	0	0	-0.368	0	0	0	0	0	0
2018 F	B085	0	0	0	D	0	0	0	0	0	0
2018 F	B090	0	0	0	0	0	0	0	0	0	0
2018_F	B092	0	0	0	0	0	0	0	0	0	0
 2018 F	C097	0	0	0	0	0	0	-0.061	0	0	0
2018 F	C103	0	0	0	o	0	0	0	0	0	0
2018 F	C109	0	0	0	-0.240	0	0	0	-0.083	0	0
2018 F	C110	0	0	0	-0.111	0	0	-0.111	0	0	0
2018 F	C114	0	0	0	0	0	0	0	0	0	0
2018_F	C115	0	0	0	0	0	0	-0.155	0	0	0
_ 2018_F	C121	0	0	0	-0.306	0	0	0	0	0	0
	C131	0	0	0	0	0	0	-0.051	0	0	0
	C133	0	0	0	0	0	0	0	0	0	0
	C135	0	0	0	0	0	0	0	0	0	0
2018_F	C136	0	0	0	0	0	0	0	0	0	0
2018_F	C137	0	0	0	o	0	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG herb species E-O Season 2018 G)

	functional group	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb
	family .	Equisetaceae	Euphorbiaceae	Euphorbiaceae	Geraniaceae	Geraniaceae	Hypericaceae	Lamiaceae	Lamiaceae	Malvaceae	Onagraceae
	Code	Equarv	Eupspe	Merann	Gerpra	Gerspe	Hypper	Glehed	Pruvul	Malmos	Epispe
	species	Equisetum_arve	r Euphorbia_spec	. Mercurialis_ann	Geranium_prate	Geranium_spec	Hypericum_peri	Glechoma_hede	Prunella_vulgar	i: Malva_moschat	a Epilobium_spec.
	season	2018_E,F,G,H	2018_H, G	2018_G,H	2018_E,F,G,H	2018_E	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	2018_F,G,H	2018_E
Season	plot										
2018_G	A002	-0.085	-0.050	0	0	0	0	0	0	0	0
2018_G	A003	-0.185	0	0	0	0	0	0	0	-0.059	0
2018_G	A005	-0.230	-0.046	0	0	0	0	0	0	0	0
2018_G	A009	-0.317	0	0	0	0	0	0	0	0	0
2018_G	A010	-0.127	0	0	0	0	0	0	0	0	0
2018_G	A011	0	0	0	0	0	0	0	0	0	0
2018_G	A013	0	0	0	0	0	0	-0.048	0	0	0
2018_G	A016	-0.094	0	0	0	0	0	-0.056	0	0	0
2018_G	A018	-0.134	0	0	-0.329	0	0	0	0	0	0
2018_G	A020	-0.331	0	0	0	0	0	0	0	0	0
2018_G	A026	-0.128	0	0	0	0	0	0	0	0	0
2018_G	A027	0	-0.067	0	0	0	0	0	0	0	0
2018_G	A030	0	0	0	0	0	0	0	0	0	0
2018_G	A035	-0.240	0	0	-0.363	0	0	-0.083	0	0	0
2018_G	A040	0	0	-0.091	0	0	0	0	0	0	0
2018_G	A042	-0.094	0	0	0	0	0	-0.056	0	0	0
2018_G	A043	0	-0.059	0	0	0	0	-0.059	0	0	0
2018_G	A044	0	Ũ	0	0	0	0	0	0	0	0
2018_G	A045	0	0	0	0	0	0	0	0	0	0
2018_G	A046	0	0	0	0	0	0	0	0	0	0
2018_6	B048	0	0	-0.060	0	0	0	-0.060	0	-0.060	0
2018_6	B051	0	0	0	0	0	0	0	0	0	0
2018_G	B054	0	0	0	0	0	0	0	0	0	0
2018_G	B057	0	0	0	0	0	0	0	0	0	0
2018_G	B059	0	0	-0.316	0	0	0	0	0	0	0
2018_G	B060	0	0	-0.037	0	0	0	0	0	0	0
2018_G	B064	0	0	0	0	0	0	-0.052	0	0	0
2018_G	B067	0	0	0	0	0	0	0	0	0	0
2018_G	B071	0	0	-0.099	0	0	0	-0.059	0	0	0
2018_6	B073	0	0	0	0	0	0	0	0	0	0
2018_G	B075	0	0	0	0	0	0	0	0	0	0
2018_G	B080	0	0	0	0	0	0	-0.054	0	0	0
2018_G	B081	0	0	0	-0.349	0	0	-0.056	0	0	0
2018_G	B085	0	0	0	0	0	0	-0.048	-0.048	0	0
2018_G	B090	0	0	0	-0.050	0	0	0	0	0	0
2018_G	B092	0	0	0	0	0	0	-0.048	0	0	0
2018_G	C097	0	0	-0.057	0	0	-0.057	-0.057	0	0	0
2018_G	C103	0	0	0	-0.061	0	0	0	0	0	0
2018_6	C109	0	0	0	-0.326	0	0	0	-0.153	0	0
2018_G	C110	0	0	-0.055	-0.093	0	0	0	0	0	0
2018_G	0114	U	U	U	U	U	U	U	U	U	U
2018_6	C115	0	U	0	0	U	0	-0.045	0	0	0
2018_6	C121	U	U	0	-0.340	U	0	0 013	0	0	0
2018_6	C131	U	U	0 455	U	U	U	-0.043	U	U	U
2018_0	0135	U	U	-0.155	U	U	U	U	U	U	U
2018_0	C135	U	U	U	U	U	U	U	0	U	U
2018_0	C136	U	U	U	0	U	U	U	0	U	U
2010-0	0157	U	U	U	U	U	U	U	U	U	U

# Supplement Table 1: Plant species indices – continued (FG herb species E-O Season 2018 H)

	functional group	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb
	family	Equisetaceae	Euphorbiaceae	Euphorbiaceae	Geraniaceae	Geraniaceae	Hypericaceae	Lamiaceae	Lamiaceae	Malvaceae	Onagraceae
	Code	Equary	Eupspe	Merann	Gerpra	Gerspe	Hypper	Glehed	Pruvul	Malmos	Epispe
	species	Equisetum_arvense	Euphorbia_spec.	Mercurialis_annua	Geranium_pratense	Geranium_spec.	Hypericum_perforatum	Glechoma_hederacea	Prunella_vulgaris	Malva_moschata	Epilobium_spec.
· · · · · ·	season	2018_E,F,G,H	2018_H, G	2013_6,H	2018_E,F,G,H	2018_E	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	2018_F,G,H	2018_E
Season	plot			0.001					0.004		
2018_H	A002	0	U	-0.094	U	0	U	U	-0.094	U	0
2018_H	A003	-0.084	U	-0.028	U	U	U	0	U	0	0
2018_H	A005	-0.169	U	0 055	0 055	Ű	Ű	-0.090	U	0	0
2010_H	A009	-0.347	0	-0.055	-0.055	0	0	0	0	0	0
2010_H	A010	-0.104	0	0	0	0	0	0	0	0	0
2010_1	A011	0	0	-0.052	0	0	0	-0.022	0	0	0
2018 H	A015	0	0	-0.055	0	0	0	-0.055	0	0	0
2018 H	A018	-0.027	0	-0.001	-0.165	0	0	-0.040	0	0	0
2018 H	A020	-0.304	0	0	0.105	0	0	0	0	0	0
2018 H	A026	-0.087	0	-0.030	0	0	0	0	0	0	0
2018 H	A027	0	-0.067	-0.039	0	0	0	0	0	0	0
2018 H	A030	0	-0.031	0	0	0	0	0	0	0	0
2018 H	A035	-0.229	-0.046	-0.046	-0.321	0	0	-0.078	0	0	0
2018 H	A040	-0.100	-0.161	-0.059	0	0	0	0	0	0	0
2018_H	A042	-0.074	0	D	0	D	0	0	0	0	0
2018_H	A043	0	-0.093	-0.055	0	0	-0.055	0	0	0	0
2018_H	A044	0	0	D	0	0	0	0	0	0	0
2018_H	A045	0	0	o	0	0	0	0	0	0	0
2018_H	A046	0	-0.028	-0.028	0	0	0	0	-0.049	0	0
2018_H	B048	0	0	-0.028	0	0	0	0	-0.157	-0.083	0
2018_H	B051	0	0	0	0	0	0	-0.037	0	0	0
2018_H	B054	0	0	-0.050	0	0	0	-0.050	0	0	0
2018_H	B057	0	0	0	0	0	0	0	0	0	0
2018_H	B059	0	0	-0.110	0	0	0	0	0	0	0
2018_H	B060	0	0	-0.173	0	0	0	0	0	0	0
2018_H	B064	0	0	o	o	0	0	-0.035	0	0	0
2018_H	B067	0	0	0	0	0	0	0	0	0	0
2018_H	B071	D	-0.026	-0.026	o	D	0	0	0	D	0
2018_H	B073	0	0	0	0	0	0	0	0	0	0
2018_H	B075	D	0	D	0	D	0	-0.026	0	D	0
2018_H	8080	0	0	0	0	0	0	-0.064	0	0	0
2018_H	8081	0	0	-0.059	-0.274	D	0	0	-0.059	0	0
2018_H	B085	0	0	-0.024	0	0	0	-0.212	-0.070	0	0
2018_H	B090	0	0	Û	-0.029	0	0	-0.163	0	-0.029	0
2018_H	B092	0	0	Û	-0.025	0	0	0	0	0	0
2018_H	C097	0	0	-0.050	0	0	0	-0.085	0	0	0
2018_H	C103	0	0	0	-0.042	0	0	0	0	0	0
2018_H	C109	0	0	0	-0.294	0	0	0	-0.082	0	0
2018_H	C110	0	0	-0.026	-0.148	0	0	0	0	0	0
2018_H	C114	0	0	0	0	0	0	0	0	0	0
2018_H	c115	0	0	-0.040	0	0	0	-0.115	0	0	0
2018_H	C121	0	0	0	-0.368	0	0	-0.053	0	0	0
2018_H	C131	0	0	0	0 Q	0	0	-0.071	0	0	0
2018_H	C133	U	U	-0.184	u	U	U	U	U	U	0
2018_H	0135	U	U	U	U	U	u	U	U	U	U
2018_H	C135	U	U	0	U C		U	0	0	0	U
7019 <sup>-</sup> H	0137	U	U	U	ų	U	U	U	U	U	U

#### Supplement Table 1: Plant species indices – continued (FG herb species P-Z Season 2018 E & F)

	functional grou	p herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb
	family	Papaveraceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Polygonaceae	Polygonaceae	Fanunculaceae	Ranunculaceae	Rosaceae	Rosaceae	Rubiaceae	Sapindaceae
	Code	Paparg	Linvul	Plalan	Plamed	Verarv	Veract	Vercha	Polavi	Rumace	Ranacr	Ranrep	Potrep	Sagoff	Galmol	Acespe
	species	Papaver_argemone	Linaria_vulgaris	Plantago_lanceolata	Plantago_media	Veronica_arvensis	Veronica_arvensis cf.	Veronica_chamaedrys	Polygonum_aviculare	Rumex_acetosa	Kanunculus_acris	Ranunculus_repens	Potentilla_reptans	Saguisorba_officinalis	Galium_mollugo	Acer_spec.
	season	2018_E	2018_F	2018_E,F,G,H	2018_E,F,G,H	2018_F,H	2018_E	2018_E,F,G,H	2018_E	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G,H
Season	plot			0.050	0.010					0.010	0.010					
2018_E	A002	0	0	-0.068	-0.040	U	U	-0.113	0	-0.040	-0.040	0	0	0	0	-0.113
2018_E	A003	0	0	-0.0/1	0	U	U	-0.071	0	-0.0/1	-0.306	0	0	0	0	-0.042
2018_E	A005	-0.035	0	-0.329	-0.035	0	0	-0.060	0	-0.101	-0.277	0	0	0	0	0
2018_E	A009	-0.042	0	-0.361		U	U	-0.118		-0.0/1	0	0	0	-0.042	0	-0.042
2018_E	A010	0	0	-0.090	U	U	U	-0.053	0	-0.053	0	0	0	0	0	-0.031
2018_E	A011			-0.351			0	-0.057		+0.033	-0.033	0	0	0		
2018_E	AU13	-0.030	0	-0.360				-0.167		-0.167	0		0	U	0	-0.030
2018_E	A016	0	0	-0.110	-0.066	U	-0.038	-0.066	0	-0.110	-0.342	0	0	0	0	-0.066
2018_E	A018	0	0	-0.246	0	0	0	-0.051	0	-0.029	-0.086	-0.029	0	-0.029	0	-0.051
2018_E	A020	-0.062		-0.062				-0.103		-0.103				-0.036		-0.036
2018_E	A026	0	0	-0.108	0	U	U	-0.065	0	-0.065	0	0	0	-0.038	0	0
2018_E	A027	-0.052	0	-0.144	U	U	U	-0.088	0	-0.144	0	0	0	0	0	0
2018_E	A030	0	0	-0.107	0	0	0	-0.196	0	0	0	0	0	0	0	-0.037
2018_E	A035	0	0	-0.199		U .	U	-0.065		-0.038	-0.108	0	0	0	0	-0.038
2018_E	A040	0	0	-0.202	-0.039	U	U	-0.066	0	-0.110	0	0	0	-0.066	0	-0.039
2018_E	A042	0	0	0	0	0	0	-0.042	0	0	0	0	0	0	0	-0.118
2018_E	AU43	-0.061	0	-0.368			U	-0.102					0	U	0	-0.035
2018_E	AU44	-0.040	0	-0.544	0	0	0	-0.115	0	-0.040	0	Ű	U	0	0	-0.040
2018_E	A045	0	0	-0.102		0	0	0	0	0 005	0	0	0	0	0	-0.035
2018_E	A046							-0.074		-0.025						
2018_E	8048	0	0	-0.085	0	0	U	-0.161	0	-0.161	0	0	U	-0.029	0	0
2018_E	8051	0	0	-0.2/4	0	0	0	-0.043	0	-0.043	0 051	0	0	0	0	
2018_E	8054			-0.363			0	-0.091		+0.031	-0.054	0	0	0		
2018_E	8057	-0.066	0	-0.320	-0.022		U	-0.253		-0.038	0	0	0	U	0	
2018_E	8059	0	0	-0.225	0	0	0	-0.225	0	-0.225	0 024	0	0	0	0 000	
2018_E	8060	0 022	0	-0.255	0	0	0	-0.169	0	-0.169	-0.031	0	0	0	-0.090	0.057
2018_E	8064	-0.035	0				0	-0.1/3	0	+0.055	0	0	0	0		-0.057
2018_E	B007	0.052	0	0 167	0	0	0	-0.043	0	0	0.352	0	0	0	0	0.052
2010_6	8073	-0.032	0	-0.167		0	0	-0.167	0	0	-0.252	0	0	0		-0.032
2010_E	8075		0	-0.155		0	0	0 000	0	0	0	0	0	0		0
2010_0	8020			0.251	0	0	0	0.030	0	0	0.220	0	0	0		0.026
2018_E	B021		0	-0.301	0	0	0	-0.250	0	0	-0.230	0	0	0	0	-0.020
2018_6	DUGE	0	0	0.056	0	0	0	0.282	0	0	-0.034	0	0	0	0	0
2018 E	8090	0	0	-0.050	0	0	0	-0.037	0	-0.052	0	0	0	0		0
2018_E	8092	0	0	-0.057	0	0	0	-0.007	0	-0.052	0	0	0	0	0	-0.040
2018_6	0092	0	0	-0.060	0	0	0	-0.171	0	0.068	-0.021	0	0	0	0	-0.021
2010_0	(102		0			0	0	0.022	0	0	-0.051	0	0	0		-0.031
2018 E	C109		0			0	0	-0.119	0	-0.061	0	0		0		
2018 5	C110	0	0	ů	ů	0	0	-0.169	0	.0.090	0	0	0	0	0	-0.021
2010_0	C116	0.025	0	ő	ů	0	0	0.145	0	0.050	0.044	0	0	0		-0.051
2018 E	C115	-0.021	0	-0.335		0	0	-0.145	0	.0 123	-0.044	0	0			
2018 E	(121	-0.041	0	-0.000		0	0	-0.102	.0 037672964	0.145	-0.247	0	0	-0.022		0
2018 F	c131	0	0	-0.086				-0.162	0.057072504	0	-0.246	0	0	-0.029		-0.029
2018 F	(133	0	0	-0.050				-0.101	.0 068239076	.0 299	-0.068	0	0	-0.010	-0.181	-0.068
2018 F	C135	0	0	-0.036	0	0	0	-0.062	0	0	0	0	0	0	0	0
2018 F	C136	0	0	-0.253		0	0	-0.089	0	0	0	0	0	0		0
2018 F	(137	0	0	-0.255				-0.055		0	0	0	0	0	-0.035	0
		0	0		0			0.000	0	0	0	0	0	0	2.035	

	functional group	p herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb	herb
	family	Papaveraceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Plantaginaceae	Polygonaceae	Polygonaceae	Ranunculaceae	Ranunculaceae	Rosaceae	Rosaceae	Rubiaceae	Sapindaceae
	Code	Paparg	Linvul	Plalan	Plamed	Verarv	Veracf	Vercha	Polavi	Rumace	Ranacr	Ranrep	Potrep	Sagoff	Galmol	Acespe
	species	Papaver_argemone	Linaria_vulgaris	Plantago_lanceolat:	a Plantago_media	Veronica_arvensis	Veronica_arvensis cf.	Veronica_chamaedrys	Polygonum_aviculare	Rumex_acetosa	Ranunculus_acris	Ranunculus_repens	Potentilla_reptans	Saguisorba_officinalis	Galium_molluge	Acer_spec.
	season	2018_E	2018_F	2018_E,F,G,H	2018_E,F,G,H	2018_F,H	2018_E	2018_E,F,G,H	2018_E	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G	2018_G,H	2018_E,F,G,H	2018_E,F,G,H	2018_E,F,G,H
Season	plot															
2018_F	A002	0	0	-0.138	-0.138	0	0	0	0	0	-0.215	0	0	0	0	0
2018 F	A003	0	0	-0.146	0	0	0	0	0	D	-0.255	0	0	0	0	0
2018 F	A005	0	0	-0.215	0	0	0	0	0	-0.085	-0.334	0	0	-0.085	0	0
2018 F	A009	0	0	-0.365	0	0	0	0	0	0	0	0	0	-0.111	0	0
2018 F	A010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018 F	4011	0	0	-0 367				0		-0.069				-0.069	0	
2018 F	A013	0	0	-0.364	-	0	0	0		-0.060		0	0	0	-0.060	-0.060
2012 5	4016	0	0.07600421	0.319	-0.161	0	0	0	ů	0.026	0.250	0	ů	0		.0.000
2018 E	4018	0	0	-0.303				0	-	-0.041	-0.211	-	-		0	
2012 5	4020	0	0	0.315	-0.025	0	0	0	ů	0.025		0	ů	0.025	0	ů
2010 5	1025	0		-0.215	-0.005	0	0	0		-0.003		0		0.003	0	0
2010_F	4025	0	0	-0.001	0	0	0	0		0.007		0		-0.061	0	
2010_F	A027	0	0	-0.221	0	0	0	0	0	-0.087		0	0	0	0	
2018_F	A030	0		-0.260				0		-0.092		0				
2018_F	AU35	U	0	-0.323	U	U	0	U	0	-0.046		U		0	0	U
2018_F	A040	0	0	-0.173	0	0	0	0	0	-0.173	0	0	0	-0.173		0
2018_F	A042	0	0	0	0	0	0	0	0	-0.067	0	0	0	0	0	0
2018_F	A043	0	0	-0.179	0	0	0	0	0	0	-0.078	0	0	0	0	0
2018_F	A044	0	0	-0.251	0	0	0	0	0	-0.087	0	0	0	0	0	0
2018_F	A045	0	0	-0.150	0	0	0	0	0	0	0	0	0	-0.092	0	0
2018_F	A046	0	0	-0.138	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	B048	0	0	-0.317	0	0	0	0	0	-0.076	0	0	0	0	-0.076	0
2018_F	B051	0	0	-0.328	0	0	0	0	0	-0.048	0	0	0	0	0	0
2018_F	B054	0	0	-0.279	0	0	0	0	0	-0.083	0	0	0	0	0	0
2018_F	B057	0	0	-0.272	0	0	0	0	0	0	-0.159	0	0	0	0	0
2018_F	B059	0	0	-0.218	0	0	0	0	0	0	-0.218	0	0	0	0	0
2018_F	B060	0	0	-0.132	-0.132	0	0	0	0	-0.207	-0.132	0	0	0	0	-0.132
2018_F	B064	0	0	-0.059	0	0	0	0	0	-0.059	-0.059	0	0	0	0	0
2018_F	B067	0	0	-0.059	-0.059	0	0	0	0	0	0	0	0	0	0	0
2018_F	B071	0	0	+0.227	0	0	0	0	0	0	-0.350	0	0	0	0	0
2018_F	B073	0	0	-0.170	0	0	0	0	0	-0.063	0	0	0	0	0	0
2018_F	B075	0	0	-0.252	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	B080	0	0	-0.256	0	0	0	0	0	0	-0.116	0	0	-0.070	0	0
2018_F	B081	0	0	-0.189	0	0	0	0	0	0	-0.119	0	0	0	0	0
2018_F	B085	0	0	-0.212	0	0	0	0	0	-0.136	0	0	0	0	0	0
2018_F	B090	0	0	+0.105	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	B092	0	0	-0.094	0	0	0	0	0	-0.094	0	0	0	0	0	0
2018_F	C097	0	0	-0.280	0	-0.103	0	-0.103	0	-0.165	-0.165	0	0	0	0	0
2018_F	C103	0	0	0	0	0	0	0	0	-0.052	0	0	0	0	0	0
2018_F	C109	0	0	0	0	0	0	0	0	-0.049	-0.240	0	0	0	-0.049	0
2018_F	C110	0	0	-0.177	0	0	0	-0.111	0	-0.177	-0.264	0	0	0	0	0
2018_F	C114	0	0	+0.043	0	0	0	0	0	0	-0.043	0	0	0	0	0
2018_F	C115	0	0	-0.351	0	0	0	0	0	-0.096	-0.351	0	0	0	0	0
2018_F	C121	0	0	-0.129	0	0	0	0	0	0	-0.078	0	0	-0.078	0	0
2018_F	C131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	C133	0	0	0	-0.218	0	0	0	0	-0.218	0	-0.218	0	0	0	0
2018 F	C135	0	0	-0.111	0	0	0	-0.177	0	0	0	0	0	0	0	0
2018 F	C136	0	0	-0.366	0	0	0	0	0	0	0	0	0	0	0	0
2018 F	C137	0	0	-0.352	0	0	0	0	0	0	0	0	0	0	0	0
		•														

# Supplement Table 1: Plant species indices – continued (FG herb species P-Z Season 2018 G & H)

|  | functional group I  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | herb  
   
   | herb<br>Plantaginaceae  
   
   | herb<br>Plantadinaciana   
   | herb  
  | herb<br>Riantaginaceae   | herb<br>Plantagina coao   
   
   
   
   
   
   
   
   
   | herb<br>Plantadinaceae  
   
   
   
   
   
   
   
   
  | herb<br>Rolumona coao  | herb  
   | herb<br>Ranunculaceae   
   
   
   
   
   
   
   
   | herb  
   | herb I  | herb  
  | herb  | herb   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
--
--
--
--
--
--
--
--
--
--
--
--
--
--
--
--
--
---
--
---
--
---
--
---|--
--
--
--
--
--
--
--
--
--
---
--
--
--
--
--
--
--
--
--|--
---
--
--
--
--
--
--
--
--
---
---
---|--|---
--|---|---|---
--
---
--
---|--|--|---|---|--|--
---|---|--|---|--|---
--|---|--
--
--|--|---
---
--
--	--	---	--
---|--|---|---|---|--
--
--|---|--|---|---|---|---|--
--|--|---|---|--|--
--
---|---
--
--|--|---
--|--|---|---
--	--	---	---	---	--	---
--
--
--
--
--
--
--
--
---
--
--
--
--
--
--
--
--
--|---|---
--
--
--
--
--
--
--
--
---|---|--|---|---|---
--|--|--|--|---|--|--
---|---|--
---|---
--|---|---|--|---|--|---|---
--
--|---|---|---|---
--|---|--|--|--|---|--
---|--------------------------------------|--|---|---|--|--|---|--|---|---|--
---|--|--|--|---|----------------------------|--|---
--
---|--|---|---|---|---|--|---|---|---|--
---|--|---|--|---|--|--|--|--|---|---|---|---
--|---|---|--|---|---|--
---|---|--|--|--|--|---|---|--
---|---|--
---|---|--|---|---|---|--|
|  | Code  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | Paparg  
   
   | Linvul  
   
   | Plalan  
   | Plamed  
  | Verarv   | Veracf  
   
   
   
   
   
   
   
   
   | Vercha  
   
   
   
   
   
   
   
   
  | Polavi   | Rumace  
   | Ranacr  
   
   
   
   
   
   
   
   | Ranrep  
   | Potrep S  | Sagoff  
  | Galmol  | Acespe   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  | species I   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | Papaver_argemone  
   
   | Linaria_vulgaris  
   
   | Plantago_lanceolata   
   | Plantago_media  
  | Veronica_arvensis  | Veronica_arvensis cf.   
   
   
   
   
   
   
   
   
   | Veronica_chamaedrys   
   
   
   
   
   
   
   
   
  | Polygonum_aviculare  | Rumex_acetosa   
   | Ranunculus_acris  
   
   
   
   
   
   
   
   | Ranunculus_repens   
   | Potentilla_reptans S  | Saguisorba_officinalis  
  | Galium_mollugo  | Acer_spec.   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  | season  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 2018_E  
   
   | 2018_F  
   
   | 2018_E,F,G,H  
   | 2018_E,F,G,H  
  | 2018_F,H   | 2018_E  
   
   
   
   
   
   
   
   
   | 2018_E,F,G,H  
   
   
   
   
   
   
   
   
  | 2018_E   | 2018_E,F,G,H  
   | 2018_E,F,G,H  
   
   
   
   
   
   
   
   | 2018_E,F,G  
   | 2018_G,H  | 2018_E,F,G,H  
  | 2018_E,F,G,H  | 2018_E,F,G,H   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Season<br>2018_G   | A002  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.244  
   | -0.085  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.138  
   
   
   
   
   
   
   
   
  | 0  | 0   
   | -0.138  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A003  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.185  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.185  
   
   
   
   
   
   
   
   
  | 0  | -0.100  
   | -0.274  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | -0.035   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A005  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.361  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | +0.078  
   
   
   
   
   
   
   
   
  | 0  | -0.230  
   | +0.322  
   
   
   
   
   
   
   
   | 0   
   | -0.046  | -0.046  
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A009  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.359  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.125  
   
   
   
   
   
   
   
   
  | 0  | -0.076  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | -0.076  
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A010<br>A011  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.127  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.077  
   
   
   
   
   
   
   
   
  | 0  | -0.127  
   | -0.045  
   
   
   
   
   
   
   
   | 0   
   | 0   | -0.045  
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6   | A013  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.365  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.048  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | -0.048  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A016  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.263  
   | -0.263  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.263  
   
   
   
   
   
   
   
   
  | 0  | -0.152  
   | +0.263  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A018  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.238  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.082  
   | -0.134  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A020  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.240  
   | -0.049  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.135  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | -0.083  
  | 0   | 0 046  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6   | A027  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.177  
   | -0.067  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.067  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A030  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.215  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.042  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A035  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.240  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.083  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A040  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.227  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.147  
   
   
   
   
   
   
   
   
  | 0  | -0.091  
   | -0.091  
   
   
   
   
   
   
   
   | 0   
   | 0   | -0.091  
  | 0   | -0.091   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6   | A043  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.327  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.100  
   
   
   
   
   
   
   
   
  | 0  | -0.100  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A044  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.331  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.073  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A045  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.124  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.075  
   
   
   
   
   
   
   
   
  | 0  | 0   
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | -0.044  
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | A046  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | 0 162   
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0 101   
   
   
   
   
   
   
   
   
  | 0  | -0.091  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | -0.054   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_0<br>2018_G   | B040<br>B051  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.349  
   | -0.070  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.101  
   
   
   
   
   
   
   
   
  | 0  | -0.041  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | -0.060  
  | -0.060  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B054  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.357  
   | -0.064  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.107  
   
   
   
   
   
   
   
   
  | 0  | -0.064  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B057  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.352  
   | -0.042  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | 0   
   | -0.215  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B059<br>B050  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.145  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.145  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B064  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.052  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0.007   
   
   
   
   
   
   
   
   
  | 0  | -0.052  
   | -0.052  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | -0.052   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B067  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.092  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.032  
   | -0.032  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B071  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.159  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.099  
   
   
   
   
   
   
   
   
  | 0  | -0.059  
   | -0.355  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B073<br>B075  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.187  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | 0   
   | -0.035  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_0<br>2018_G   | B020  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.335  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | 0   
   | -0.091  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | -0.051  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B081  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.263  
   | -0.056  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.094  
   
   
   
   
   
   
   
   
  | 0  | 0   
   | -0.152  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B085  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.134  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.134  
   
   
   
   
   
   
   
   
  | 0  | -0.082  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | B090  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.137  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.050  
   | -0.050  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | -0.050  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6<br>2018_6   | 6092<br>C097  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.081  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.155  
   
   
   
   
   
   
   
   
  | 0  | -0.048  
   | -0.057  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | -0.048  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | C103  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | 0   
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.189  
   
   
   
   
   
   
   
   
  | 0  | -0.035  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | -0.035  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | C109  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | 0   
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.047  
   
   
   
   
   
   
   
   
  | 0  | -0.153  
   | -0.047  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | -0.027  | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | C110  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.262  
   | -0.055  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.151  
   
   
   
   
   
   
   
   
  | 0  | -0.093  
   | -0.055  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6   | C114<br>C115  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.043  
   | -0.075  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.043  
   | U<br>10 225   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6   | C121  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.132  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | 0   
   | -0.048  
   
   
   
   
   
   
   
   | -0.048  
   | 0   | -0.031  
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | C131  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | 0   
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | -0.043  
   | +0.043  
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | C133  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | 0   
   | -0.155  
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.155  
   
   
   
   
   
   
   
   
  | 0  | -0.328  
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_G   | C135  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.360  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | -0.088  
   
   
   
   
   
   
   
   
  | 0  | 0   
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 2018_6   | C137  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | 0   
   
   | 0   
   
   | -0.352  
   | 0   
  | 0  | 0   
   
   
   
   
   
   
   
   
   | 0   
   
   
   
   
   
   
   
   
  | 0  | 0   
   | 0   
   
   
   
   
   
   
   
   | 0   
   | 0   | 0   
  | 0   | 0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  |   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   |   
   
   |   
   
   |   
   |   
  |  |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |  |   
   |   
   
   
   
   
   
   
   
   |   
   |   |   
  |   |  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  |   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   |   
   
   |   
   
   |   
   |   
  |  |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |  |   
   |   
   
   
   
   
   
   
   
   |   
   |   |   
  |   |  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  |   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   |   
   
   |   
   
   |   
   |   
  |  |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |  |   
   |   
   
   
   
   
   
   
   
   |   
   |   |   
  |   |  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  | functional grou<br>family   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Panaveraceae  
   
   | herb<br>Plantaginacea   
   
   | herb<br>Plantarinaceae  
   | herb<br>Plantaginace:   
  | herb<br>Plantarinaceae   | herb<br>Plantaginaceae  
   
   
   
   
   
   
   
   
   | herb<br>Plantarinaceae  
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae   | herb<br>Polygonaceae  
   | herb<br>Rapunculaceae   
   
   
   
   
   
   
   
   | herb<br>Bapupculaceae   
   | herb<br>Bosaceae  | herb<br>Rosareae  
  | herb<br>Rubiaceae   | herb<br>Sanindaceae  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  | functional grou<br>family<br>Code   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparg  
   
   | herb<br>Plantaginacea<br>Linvul   
   
   | herb<br>e Plantaginaceae<br>Plalan  
   | herb<br>Plantaginace:<br>Plamed   
  | herb<br>ae Plantaginaceae<br>Verarv  | herb<br>Plantaginaceae<br>Veracf  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha  
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi   | herb<br>Polygonaceae<br>Rumace  
   | herb<br>Ranunculaceae<br>Ranacr   
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep   
   | herb<br>Rosaceae<br>Potrep  | herb<br>Rosaceae<br>Sagoff  
  | herb<br>Rubiaceae<br>Galmol   | herb<br>Sapindaceae<br>Acespe  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  | functional grou<br>family<br>Code<br>species  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon   
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linaria_vulgari  
   
   | herb<br>e Plantaginaceae<br>Plalan<br>s Plantago_Janceola   
   | herb<br>Plantaginace:<br>Plamed<br>ta Plantago_med  
  | herb<br>ae Plantaginaceae<br>Verarv<br>lia Veronica_arvens   | herb<br>Plantaginaceae<br>Veracf<br>is Veronica_arvensis  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>cf. Veronica_chamaedro  
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi<br>rs Polygonum_avicular  | herb<br>Polygonaceae<br>Rumace<br>e Rumex_aceto:  
   | herb<br>Ranunculaceae<br>Ranacr<br>sa Ranunculus_acr  
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep<br>is Ranunculus_repen  
   | herb<br>Rosaceae<br>Potrep<br>Is Potentilla_reptans   | herb<br>Rosaceae<br>Sagoff<br>s Saguisorba_officinal  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_molluj   | herb<br>Sapindaceae<br>Acespe<br>20 Acer_spec.   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
|  | functional grou<br>family<br>Code<br>species<br>season  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E   
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linaria_vulgari<br>2018_F  
   
   | herb<br>Flantaginaceae<br>Flalan<br>S Plantago_Janceola<br>2018_E,F,G,H   
   | herb<br>Plantaginace:<br>Plamed<br>ta Plantago_med<br>2018_5,F,G,H  
  | herb<br>Plantaginaceae<br>Verarv<br>Iia Veronica_arvens<br>2018_F,H  | herb<br>Plantaginaceae<br>Veracf<br>is Veronica_arvensis<br>2018_E  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>cf. Veronica_chamaedm<br>2018_E,F,G,H   
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi<br>s Polygonum_aviculari<br>2018_E  | herb<br>Polygonaceae<br>Rumace<br>e Rumex_aceto:<br>2018_E,F,G,H  
   | herb<br>Ranunculaceae<br>Ranacr<br>Sa Ranunculus_scr<br>2018_E,F,G,H  
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep<br>is Ranunculus_repen<br>2018_E,F,G  
   | herb<br>Rosaceae<br>Potrep<br>s Potentilla_reptans<br>2018_G,H  | herb<br>Rosaceae<br>Sagoff<br>s Saguisorba_officinal<br>2018_E,F,G,H  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_molluş<br>2018_E,F,G,H   | herb<br>Sapindaceae<br>Acespe<br>to Acer_spec.<br>2018_E,F,G,H   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Season<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E<br>0  
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linaria_vulgari<br>2018_F<br>0   
   
   | herb<br>Plantaginaceae<br>Plalan<br>S Plantago_Janceola<br>2018_E,F,G,H   
   | herb<br>Plantaginace:<br>Plamed<br>ta Plantago_med<br>2018_E,F,G,H<br>0   
  | herb<br>Plantaginaceae<br>Verarv<br>Iia Veronica_arvens<br>2018_F,H<br>-0.033  | herb<br>Plantaginaceae<br>Veracf<br>is Veronica_arvensis<br>2018_E<br>0   
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>cd. Veronica_chamaedm<br>2018_E,F,G,H<br>-0.177   
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi<br>rs Polygonum_aviculari<br>2018_E<br>0  | herb<br>Polygonaceae<br>Rumace<br>e Rumex_aceto:<br>2018_E,F,G,H<br>-0.033  
   | herb<br>Ranunculaceae<br>Ranacr<br>sa Ranunculus_acr<br>2018_E,F,G,H<br>-0.177  
   
   
   
   
   
   
   
   | herb<br>: Ranunculaceae<br>Ranrep<br>is Ranunculus_repen<br>2018_E,F,G<br>0   
   | herb<br>Rosaceae<br>Potrep<br>2018_G,H<br>0   | herb<br>Rosaceae<br>Sagoff<br>S Saguisorba_officinal<br>2018_6,F,G,H<br>0   
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_mollug<br>2018_E,F,G,H<br>0  | herb<br>Sapindaceae<br>Acespe<br>o Acer_spec.<br>2018_E,F,G,H  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Season<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | ip herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linaria_vulgari<br>2018_F<br>0<br>0  
   
   | herb<br>Plantaginaceae<br>Plalan<br>S Plantago_Janceola<br>2018_E,F,G,H<br>0<br>-0.084  
   | herb<br>Plantaginace:<br>Plamed<br>ta Plantago_med<br>2018_E,F,G,H<br>0<br>0  
  | herb<br>Verarv<br>2018_F,H<br>-0.033<br>0  | herb<br>Plantaginaceae<br>Veracf<br>2018_E<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>ccf. Veronica_chamaedm<br>2018_E,F,G,H<br>-0.177<br>0   
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi<br>15 Polygonum_avicular<br>2018_E<br>0<br>0  | herb<br>Polygonaceae<br>Rumace<br>2018_E,F,G,H<br>-0.033<br>-0.084  
   | herb<br>Ranunculaceae<br>Ranacr<br>2018_E,F,G,H<br>-0.177<br>-0.296   
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep<br>is Ranunculus_repen<br>2018_E,F,G<br>0<br>0  
   | herb<br>Rosaceae<br>Potrep<br>Iss Potentilla_reptans<br>2018_G,H<br>0<br>0  | herb<br>Rosaceae<br>Saguif<br>s Saguisorba_officinal<br>2018_E,F,G,H<br>0<br>0  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_molluş<br>2018_E,F,G,H<br>0<br>0   | herb<br>Sapindaceae<br>Acespe<br>to Acer_spec.<br>2018_E,F,G,H<br>0<br>0   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003<br>A005  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | ip herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E<br>0<br>0<br>0   
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linaria_vulgari<br>2018_F<br>0<br>0<br>0   
   
   | herb<br>Plantaginaceae<br>Plalan<br>5 Plantago_Janceola<br>2018_E,F,G,H<br>0<br>-0.084<br>-0.090  
   | herb<br>Flantaginace:<br>Flamed<br>ta Plantago_med<br>2018_E,F,G,H<br>0<br>0<br>0   
  | herb<br>Plantaginaceae<br>Verarv<br>Iia Veronica_arvens<br>2018_F,H<br>-0.033<br>0<br>0  | herb<br>Plantaginaceae<br>Veracf<br>is Veronica_arvensis<br>2018_E<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>cf. Veronica_chamsedm<br>2018_E,F,G,H<br>-0.177<br>0<br>-0.169  
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi<br>s Polygonum_avicular<br>2018_E<br>0<br>0<br>0  | herb<br>Polygonaceae<br>Rumace<br>e Rumex_aceto:<br>2018_E,F,G,H<br>-0.033<br>-0.084<br>-0.169  
   | herb<br>Ranunculaceae<br>Ranacr<br>Ba Ranunculus_ace<br>2018_E,F,G,H<br>-0.177<br>-0.296<br>-0.255  
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep<br>is Ranunculus_repen<br>2018_E,F,G<br>0<br>0<br>0   
   | herb<br>Rosaceae<br>Potrep<br>Is Potentilla_reptans<br>2018_6,H<br>0<br>0<br>-0.031   | herb<br>Rosaceae<br>Sagotf<br>s Saguisorba_officinal<br>2018_E,F,G,H<br>0<br>0<br>-0.031  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_molluy<br>2018_E,F,G,H<br>0<br>0<br>0  | herb<br>Sapindaceae<br>Acespe<br>o Acer_apec.<br>2018_E,F,G,H<br>0<br>0<br>0   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Season<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003<br>A005<br>A005  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Papaver_arg<br>Papaver_argemon<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linaria_vulgari<br>2018_F<br>0<br>0<br>0<br>0  
   
   | herb<br>e Plantaginaceae<br>Plalan<br>s Plantago_Janceola<br>2018_E,F,G,H<br>0<br>-0.084<br>-0.095<br>-0.055  
   | herb<br>Plantaginace:<br>Plamed<br>ta Plantago_med<br>2018_E,F,G,H<br>0<br>0<br>0<br>0  
  | herb<br>Verarv<br>Verarv<br>2018_F,H<br>-0.033<br>0<br>0<br>0  | herb<br>Plantaginaceae<br>Varacf<br>is Veronice_arvensis<br>2018_E<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>cf. Veronica_chamsedm<br>2018_E,F,G,H<br>-0.177<br>0<br>-0.169<br>-0.260<br>0 201   
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Polavi<br>s Polygonum_avicular<br>2018_E<br>0<br>0<br>0<br>0   | herb<br>Polygonaceae<br>Rumace<br>Rumex_aceto:<br>2018_E,F,G,H<br>-0.033<br>-0.084<br>-0.169<br>-0.260  
   | herb<br>Ranunculaceae<br>Ranunculus_aceae<br>2018_E,F,6,H<br>-0.177<br>-0.296<br>-0.255<br>0<br>0.000   
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep<br>is Ranunculus_repen<br>2018_E,F,G<br>0<br>0<br>0<br>0  
   | herb<br>Rosacaa<br>Potrep<br>so Potentilla_reptans<br>2018_6.H<br>0<br>-0.031<br>0<br>0   | herb<br>Rosaceae<br>Sagoff<br>s Saguisorba_officinal<br>2018_E.F.G.H<br>0<br>0<br>-0.031<br>-0.092  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_molluy<br>2018_E,F,G,H<br>0<br>0<br>0<br>0   | herb<br>Sapindaceae<br>Acespe<br>2018_E,F,G,H<br>0<br>0<br>0<br>0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Season<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003<br>A005<br>A009<br>A010  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginacea<br>Linvul<br>e Linsria_vulgari<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginaceae<br>Plalan<br>2018_E,F,G,H<br>0<br>-0.084<br>-0.090<br>-0.055<br>-0.193<br>-0.294   
   | herb<br>Plantaginaces<br>Plamed<br>ta Plantago_med<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>herb<br>Verarv<br>Verarv<br>2018_F,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Plantaginaceae<br>Veracf<br>is Veronics_arvensis<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>2018_E,F,G,H<br>-0.127<br>0<br>-0.159<br>-0.260<br>-0.334<br>0  
   
   
   
   
   
   
   
   
  | herb<br>Polygonacsae<br>Polayi<br>s Polygonum_svicular<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonaceae<br>Rumace<br>e Rumex_aceto:<br>2018_E.F.G.H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.104<br>-0.157  
   | herb<br>Ranacr<br>Ranacr<br>2018_E,F,6,H<br>-0.177<br>-0.296<br>-0.255<br>0<br>-0.062<br>-0.083   
   
   
   
   
   
   
   
   | herb<br>herb<br>Ranunculaceae<br>Ranunp<br>is Ranunculus_repen<br>2018_E,F,G<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | herb<br>Rosaceae<br>Potrep<br>2018_6.H<br>0<br>-0.031<br>0<br>0<br>0  | herb<br>Rozaceae<br>Sagoff<br>2018_E,F,G,H<br>0<br>-0.031<br>-0.032<br>0<br>-0.049  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_molluy<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Sapindaceae<br>Acespe<br>to Acer_spec.<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003<br>A005<br>A005<br>A010<br>A010<br>A011<br>A013  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Unvul<br>e Linsria_vulgari<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginaceae<br>Plalan<br>2018_E,F,G,H<br>0<br>-0.084<br>-0.090<br>-0.055<br>-0.193<br>-0.294<br>-0.352   
   | herb<br>Flantaginace:<br>Flamed<br>ts Plantago_med<br>2018_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>herb<br>Verarv<br>Vorarv<br>2018_F,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Plantaginaceae<br>Veracf<br>is Veronics_arvensis<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | hetb<br>Plantaginaceae<br>Varcha<br>2018_EF.G.H<br>-0.177<br>0<br>-0.169<br>-0.260<br>-0.334<br>0<br>0  
   
   
   
   
   
   
   
   
  | herb<br>Polygonacsae<br>Polavi<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonaceae<br>Rumace<br>Rumace<br>2018_E,F,G,H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.097  
   | herb<br>Ranunculaceac<br>Ranacr<br>Ranunculus_acc<br>2018_E,F,6,H<br>-0.177<br>-0.296<br>-0.255<br>0<br>-0.062<br>-0.083<br>0   
   
   
   
   
   
   
   
   | herb<br>Fanunculaceae<br>Ranrep<br>is Ranunculus_repen<br>2018_E,F,G<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Rosaceae<br>Potrep<br>2018_6,H<br>0<br>-0.031<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Rozaceae<br>Sagoff<br>Saguisorba_officinal<br>2018_E,F,G,H<br>0<br>0<br>-0.031<br>-0.092<br>0<br>-0.049<br>-0.033   
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_mollug<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Sapindaceae<br>Acespe<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Season<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003<br>A003<br>A005<br>A010<br>A011<br>A013<br>A016  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Paparer_argemon<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvul<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | harb<br>Plantaginaceae<br>Plaina<br>2018_E,F,G,H<br>0<br>-0.034<br>-0.030<br>-0.055<br>-0.193<br>-0.254<br>-0.552<br>-0.052   
   | herb<br>Flantaginace:<br>Plamed<br>ts Plantago_med<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>Verarv<br>Verarv<br>2018_F,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Plantaginaceae<br>Varacf<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>ct. Veronica_chamaedin<br>2011_E.F.6, H<br>-0.127<br>0<br>-0.250<br>-0.334<br>0<br>0<br>-0.154  
   
   
   
   
   
   
   
   
  | hetb<br>Polygonaceae<br>Polavi<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonaceae<br>Rumace<br>Rumex_sceto:<br>2018_E,F,G,H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.167<br>-0.157<br>-0.097<br>-0.236  
   | herb<br>Ranunculaceae<br>Ranacr<br>2018_E,F,6,H<br>-0.177<br>-0.296<br>-0.255<br>0<br>-0.062<br>-0.083<br>0<br>-0.327   
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrep<br>15 Ranunculus_repen<br>2012_E,F,G<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Rosscae<br>Potrep<br>10 Potentills_reptans<br>2018_6.H<br>0<br>-0.031<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Rozaceae<br>Sagoff<br>Saguisorba_officinal<br>2018_E,F,G,H<br>0<br>0<br>0.031<br>-0.092<br>0<br>0<br>-0.049<br>-0.033<br>0  
  | herb<br>Rubiaceae<br>Galmol<br>is Galium_mollug<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Sapindaceae<br>Acespe<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>season<br>plot<br>A002<br>A003<br>A003<br>A005<br>A010<br>A010<br>A011<br>A013<br>A016<br>A018<br>A020  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p herb<br>Papaveraceae<br>Papare<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginacea<br>Linvul<br>Linvia<br>Linvia<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | harb<br>Plantaginaceae<br>Plantaginaceae<br>2018_E,F,G,H<br>0<br>-0.034<br>-0.030<br>-0.055<br>-0.193<br>-0.294<br>-0.552<br>-0.052<br>-0.051<br>-0.249<br>-0.249<br>-0.249<br>-0.249   
   | herb<br>Plantaginace:<br>Plantago,med<br>2018_EF,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>Verarv<br>Verarv<br>2018_F,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Plantagina.ceae<br>Verard<br>is Veronice_arvensis<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginaceae<br>Vercha<br>cf. Veronica_chamsedin<br>-0.127<br>-0.126<br>-0.260<br>-0.260<br>-0.334<br>0<br>0<br>-0.155<br>-0.007<br>-0.055  
   
   
   
   
   
   
   
   
  | herb<br>Polygonaceae<br>Fotaxi<br>s Polygonum_inviculari<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonacaae<br>Rumax<br>2013_EF,G,H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.097<br>-0.236<br>-0.165<br>-0.165<br>-0.155  
   | herb<br>Ranunculaceae<br>Ranunculaceae<br>2018_E,F,G,H<br>-0.177<br>-0.296<br>-0.052<br>-0.062<br>-0.083<br>0<br>-0.327<br>-0.137   
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranrap<br>is Ranunculus_repen<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Rosaceae<br>Potrap<br>9 Potentilla_reptans<br>0<br>0<br>0.031<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Rosaceae<br>Sagnif<br>Saguisorka_efficinal<br>2018_E,E,G,H<br>0<br>-0.031<br>-0.092<br>0<br>-0.049<br>-0.033<br>0<br>-0.033<br>0<br>-0.033  
  | herb<br>Fubiscese<br>Galmot<br>is Galium_mollup<br>2015_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Sapindaceae<br>Acespe<br>2018_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>sason<br>plot<br>A002<br>A003<br>A005<br>A005<br>A010<br>A011<br>A013<br>A016<br>A018<br>A026   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p hetb<br>Papaveraceae<br>Paparg<br>Papaver_argemon<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginaccas<br>Linvul<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginaceae<br>Plalan<br>2018_EF,0,H<br>0<br>-0.034<br>-0.035<br>-0.193<br>-0.294<br>-0.352<br>-0.031<br>-0.249<br>-0.212<br>-0.051  
   | herb<br>Plantaginace:<br>Flamed<br>ta Plantage_med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>Verarv<br>Verarv<br>2018_F.H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Plantagina.ceae<br>Veracf<br>is Veronics_arrensis<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginacas<br>Varcha<br>2012_EF,6,H<br>-0.177<br>0<br>-0.159<br>-0.260<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
  | herb<br>Polygonacuse<br>Palaxi<br>a Polygonum_svicular<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonacase<br>Rumac<br>Rumac<br>2018_EF.6.H<br>-0.033<br>-0.044<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.037<br>-0.236<br>-0.165<br>-0.177<br>-0.077   
   | herb<br>Banurculaceae<br>Ranacr<br>2015_EF,6,H<br>-0.177<br>-0.296<br>-0.052<br>-0.062<br>-0.062<br>-0.083<br>0<br>-0.327<br>-0.087<br>-0.117<br>0  
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Rancep<br>is Ranunculas_repen<br>2013_E.F.G<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Rosaceae<br>Potrop<br>2013_6.H<br>0<br>-0.031<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Rozaceae<br>5 aguisorba_officinal<br>2018_E.F.G.H<br>0<br>0<br>-0.031<br>-0.092<br>0<br>-0.049<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>Rubiscese<br>Galmol<br>is Galum_molluy<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Sapindaceae<br>Accepe<br>2018_EF,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional grou<br>family<br>Code<br>species<br>searces<br>A002<br>A003<br>A005<br>A005<br>A005<br>A010<br>A011<br>A011<br>A011<br>A011   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p heth<br>Papaver.ceae<br>Papare:<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginaccaz<br>Linvul<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantagina.ceae<br>Plantagina.ceae<br>2018_E,F,G,H<br>0<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.035<br>-0.024<br>-0.024<br>-0.024<br>-0.025<br>-0.025   
   | herb<br>Plantaginace:<br>Plantage_med<br>ta Plantage_med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>herb<br>Verarv<br>is Veronics_ervens<br>2018_F.H<br>0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Plantaginaceae<br>Varacf<br>2012_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | hetb<br>Flantagnaceae<br>Vartha<br>Vartha<br>2011_E.F.G.H<br>-0.177<br>-0.260<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>0<br>-0.377<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
  | herb<br>Polygonacase<br>Palavi<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonacase<br>Rumac<br>Rumac<br>2018_EF.6.H<br>-0.033<br>-0.044<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.037<br>-0.236<br>-0.165<br>-0.177<br>-0.027<br>-0.205   
   | herb<br>Banuncula casa<br>Fanacr<br>2013_E.F.G.H<br>-0.177<br>-0.256<br>0<br>-0.625<br>-0.053<br>0<br>-0.627<br>-0.083<br>0<br>-0.067   
   
   
   
   
   
   
   
   | herb<br>Ranunculaceae<br>Ranunculaceae<br>Ranunculacyrepen<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Forsecae<br>Portrap<br>2018_6.H<br>0<br>-0.031<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Nerb<br>Foraceae<br>Saguiror Mag. officinal<br>2018_E,F,G,H<br>0<br>-0.031<br>-0.092<br>0<br>-0.049<br>-0.033<br>0<br>0<br>0<br>-0.049<br>-0.033<br>0<br>0<br>0<br>0<br>-0.070<br>0<br>-0.070<br>0<br>0<br>0<br>-0.030  
  | herb<br>Rubiscese<br>Galmol<br>2018_EF.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Sapinda.caae<br>Acespe<br>2018_EF, 6, H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H   | functional group           family           Code           species           sascon           plot           A003           A003           A003           A010           A011           A012           A012           A013           A016           A018           A020           A020           A020           A020           A020   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p heth<br>Papavera.case<br>Papaver.greemon<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginacea<br>Linvul<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>1475<br>15435 ginaceae<br>15430<br>1013 g.f.,6.M<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Plantsginace:<br>Plamed<br>ts Plantago_med<br>2018_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | hetb<br>Veranic<br>Veranic<br>2018_f,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | heb<br>Plantspinaceae<br>Verand<br>is Veranica_urvensis<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantaginacaa<br>Varcha<br>2012[E,F,G,H<br>-0.127<br>0<br>-0.169<br>-0.260<br>0<br>0<br>-0.334<br>0<br>0<br>-0.154<br>-0.007<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
  | herb<br>Polygonsceae<br>Polygonsceae<br>Polygonsceae<br>o<br>Polygourge, swiculary<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonaceae<br>Fumace<br>2018_EF.6.H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.097<br>-0.265<br>-0.125<br>-0.125<br>-0.125<br>-0.125<br>-0.127<br>-0.067<br>-0.205<br>0<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0.205<br>-0  
   | herb<br>Banurcula casa<br>Fanacr<br>2013_E.F.G.H<br>-0.177<br>-0.296<br>-0.625<br>-0.083<br>-0.625<br>-0.083<br>-0.637<br>-0.037<br>-0.037<br>-0.047<br>-0.047<br>-0.067<br>-0.041  
   
   
   
   
   
   
   
   | hetb<br>Panonculaceae<br>Panesp<br>(s Ramouchaceae<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | Hefb<br>Postea<br>Potentills,reptantills,<br>2010_6,H<br>0<br>-0<br>-0<br>-0<br>-0<br>-0<br>-0<br>-0<br>-0<br>-0  | hetb<br>Paraceae<br>Saget<br>Saget<br>Supposts,
efficinal<br>2010_E,F,6,H<br>-0.019<br>-0.049<br>-0.049<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.03   | herb<br>Rubiscese<br>Galmot<br>2018_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Sapindaceae<br>Accepe<br>po Acceptore<br>2018_EF.6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  
  |   |   |  
  |  
  |  |  |   |   |  | |
  |   |   |  |   |  |   |  
   |   |  |  
   |   
  |   |   | | | | |
   |  |   |  
   |  |   |   |  
   |   |  |   |   |   |  |   
   
  |   |  |   |   |   |   |  |  
   |  |   |   |  |  |  
  |   |  
   |   
  |   |  | | | | | | |
  |   |   |  |  |   |   |   |  
   |   |  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |  |  
  |  |  |   |   |  |   
   |   |   
  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   |  | | | | | | |
  |  |   |  |   |                                      |  |   |   |  |   
  |   |  |   |   |  |   |  |  |  |   |                            |  |   |   
   
   |  |   |   |   |   |  |   |   |   |  |   |  |   
   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |  |  |  |  |   
   |   |  |   |   |  |   
   |   |  |   |   |   |  |
| Sesson<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H   | functional grow<br>family<br>Code<br>species<br>(sasan<br>A002<br>A003<br>A003<br>A010<br>A010<br>A013<br>A013<br>A013<br>A014<br>A013<br>A014<br>A013<br>A014<br>A013<br>A020<br>A026<br>A026<br>A026<br>A030<br>A030<br>A035  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p hetb<br>Papaveracese<br>Papaveracese<br>Papaveracement<br>Papaveracement<br>Papaveracement<br>Papaveracese<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginaceaz<br>Linvul<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | нитв<br>Калатадінасана<br>Разля<br>Разля<br>Разля<br>В Пялатадінасана<br>В Пялатадінасанананананананананананананананананан  
   | herb<br>Flantaginace:<br>Plantage_med<br>ta Plantage_med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>As Plantaginaceae<br>Veranic<br>2018_F.H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | heib<br>Plantspinacese<br>Verret<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heth<br>Planta ginacase<br>Varcha<br>2012 <u>E</u> , 6, 9, 1<br>-0, 127<br>-0, 129<br>-0, 234<br>-0, 234<br>-0, 234<br>-0, 234<br>-0, 254<br>-0, 057<br>0<br>0<br>-0, 259<br>-0, 259<br>-0, 219<br>-0, 151<br>-0, 151<br>-  
   
   
   
   
   
   
   
   
  | heth<br>Polyson<br>2013_E<br>Polyson<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Folygonaceae<br>Fumace<br>2013_EF,6,H<br>-0.033<br>-0.044<br>-0.169<br>-0.260<br>-0.164<br>-0.157<br>-0.097<br>-0.265<br>-0.157<br>-0.097<br>-0.265<br>-0.127<br>-0.077<br>-0.265<br>-0.127<br>-0.077<br>-0.225<br>0<br>-0.047<br>-0.0229<br>-0.129<br>-0.047<br>-0.021<br>-0.047<br>-0.021<br>-0.047<br>-0.021<br>-0.047<br>-0.022<br>-0.047<br>-0.022<br>-0.047<br>-0.022<br>-0.047<br>-0.021<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.047<br>-0.025<br>-0.047<br>-0.027<br>-0.025<br>-0.047<br>-0.027<br>-0.025<br>-0.047<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.025<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-  | herb<br>Fanuncula casa<br>Fanorcula casa<br>as Renorcula casa<br>as Renorcula casa<br>a
2015_EF,0,H<br>-0.177<br>-0.296<br>-0.062<br>-0.062<br>-0.063<br>0<br>-0.067<br>-0.127<br>-0.217<br>0<br>-0.067<br>-0.117<br>0<br>-0.067<br>-0.117<br>0<br>-0.067<br>-0.117<br>0<br>-0.067<br>-0.117<br>0<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.216<br>-0.067<br>-0.117<br>-0.217<br>-0.216<br>-0.067<br>-0.117<br>-0.217<br>-0.216<br>-0.067<br>-0.117<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-   
   
   
   
   
   
   
   
  | hefb<br>Fanney<br>Fanney<br>1011_EF.0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herð<br>Potrap<br>9 botnilla_septan<br>2014_6 //<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Parscen<br>Sager<br>Segenorita_efficient<br>2012_EF.0.H<br>0<br>0<br>0<br>0.0.01<br>0<br>0.0.02<br>0<br>0<br>0.0.05<br>0<br>0<br>0.0.00<br>0<br>0<br>0.0.00<br>0<br>0<br>0   | harb<br>Rubiaceae<br>Gaimol<br>2018_EF,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Sapindaceae<br>Acespe<br>2018_EF,9,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |  
  |  
  |  |   
  |   |   |  |  |  
  |   |  |   |  |   |  |   |  |  
   
   |  |   |   |  
   
   |  |   |  | | |
  |   |   |  |   |   
  |   |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |  
  |  |  |  
  |   |  
   |  |   | | | | | |
   |  |   |   |  |   
  |   |   |   |  |   |  |  |   
                |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   |   |  | | | | | | | | | | |
                          |   |   |  |  |  |  |   |  |  |  
  |   |  |   
   |   |  |   |   |  |   |   
  |   |   |  
   |   |   |   
   |   |  |   |  |  |  |   |  |  
  |                                      |  |   |   |  |  |   |  |   |   |  |  
  |  |  |  |   |                            |  |   |   
   |  |   |   |   |   |  
                                     |   |   |   |  |   |  |   |  |   |  |   
  |  |  |   |   |   |   |  |   |   |   
  |   |   |  |   |   |  |  |  |  |   |   |  |  
  |   |  |   
   |   |  |   |   |   |  |
| Sesson<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H   | functional grow<br>family<br>Code<br>species<br>species<br>species<br>species<br>species<br>A003<br>A003<br>A003<br>A003<br>A014<br>A013<br>A014<br>A014<br>A014<br>A014<br>A014<br>A026<br>A027<br>A027<br>A025<br>A045<br>A045  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p hetb<br>Papaverseas<br>Papaverseas<br>Papaverseas<br>Papaverseas<br>Papaverseas<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | hetb<br>Plantaginaces<br>Linval<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>a 7 Janta gina casa<br>Fian<br>Piana<br>0 10 10 5 7 0.04<br>- 0.054<br>- 0.054<br>- 0.055<br>- 0.193<br>- 0.254<br>- 0.352<br>- 0.051<br>- 0.254<br>- 0.254   
   | herb<br>Plantaginace:<br>Plantage_med<br>ta Plantage_med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | harb<br>Veranic<br>Veranic<br>2013_F,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | hth<br>Fistingioceae<br>Verard<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heth<br>Flantagnaccae<br>Vartha<br>Vartha<br>2012_EF.6,4<br>-0.127<br>-0.127<br>-0.250<br>-0.334<br>0<br>0<br>-0.354<br>0<br>0<br>-0.554<br>-0.077<br>0<br>0<br>0<br>-0.359<br>-0.229<br>-0.321<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
  | Neth<br>Polyproses<br>Polari<br>2018 <u>E</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herb<br>Folygonaceae<br>Fumacs_eter<br>2013_EF,G,H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.164<br>-0.157<br>-0.027<br>-0.236<br>-0.155<br>-0.155<br>-0.155<br>-0.127<br>-0.037<br>-0.255<br>0<br>-0.229<br>-0.161<br>-0.161<br>-0.121   | herb<br>herb<br>have a subserver<br>have a
subserver<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb<br>herb  
   
   
   
   
   
   
   
   | heft)         Fannenburg epen           1         Fannenburg epen           2011 ≤ F,0         0              
   | herð<br>Roscase<br>Potrap<br>2013_6/<br>2013_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Forscen<br>Stayff<br>Stayff<br>2011_EF.6.H<br>0<br>0<br>0<br>0.001<br>-0.021<br>-0.021<br>-0.021<br>0<br>0<br>0<br>0.031<br>-0.021<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Rubiaceae<br>Gaimol<br>2013_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>Sapindraeae<br>Acespe<br>Retrypec.<br>2012_EF.6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   |   
   |  |  
   |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   |   
   
  |  |   |  | | |
   |   |   |  |   |  
   |   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   
   |  |  |   
   |   |   
  |  |   | | | | | |
  |  |   |   |  |  
   |   |   |   |  |   |  |  |  
   |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
  |   |  | | | | | | | | | | |
   |   |   |  |  |  |  |   |  |  |   
   |   |  |  
  |   |  |   |   |  |   |  
   |   |   |   
  |   |   |  
  |   |  |   |  |  |  |   |  |   
   |                                      |  |   |   |  |  |   |  |   |   |  |   
   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   |   
  |   |   |   |  |   |  |   |  |   |  |  
   |  |  |   |   |   |   |  |   |   |  
   |   |   |  |   |   |  |  |  |  |   |   |  |   
   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H   | functional grow           family           Ca4           gracies           gracies           sason           plot           A002           A003           A004           A005           A005           A011           A013           A014           A015           A026           A027           A020           A025           A040           A045  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p heth<br>Paparetacase<br>Paparetacase<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | hetb<br>Plantaginacea<br>Linvul<br>a Linaria_vulgari<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | bet/b           4         Flaits           Plaits         Plaits           9         Plaits   
  | herb<br>Flantsdinace:<br>Plantsd<br>Plantsd<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>be Plantaginaceae<br>Veranic<br>2018_5/H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | hith<br>Fisitsginscase<br>Varaf<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
  | hetb<br>Plantagnaccas<br>Var(b)<br>2012_EF, 6, H<br>-0.159<br>-0.269<br>-0.354<br>0<br>-0.354<br>0<br>-0.087<br>-0.087<br>0<br>0<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297<br>-0.297   
   
   
   
   
   
   
   
   
   | heth<br>Polysonacas<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Polygonacase<br>Fumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pumas,<br>Pu   
  | herb<br>Anunculacaaa<br>Fanacr<br>2018_E.F.6.H<br>-0.127<br>-0.256<br>-0.052<br>-0.062<br>-0.083<br>0<br>-0.062<br>-0.087<br>-0.017<br>-0.017<br>-0.011<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
  | <ul> <li>beth</li> <li>Fammep</li> <li>Fammep</li> <li>2013 ≤ F.G</li> <li>0</li> <li></li></ul>   
   | herð<br>Rossosa<br>Potsp<br>2012_6H<br>0<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>- | herb<br>Forseare<br>2012 E.F.6.4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Rubiscess<br>Gatmat<br>2018_EF.6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | hetb<br>Sapindacasa<br>Acespe<br>2018_EF.6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |   
   |   
   |  |  
   |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   |   
   
  |  |   |  | | |
   |   |   |  |   |  
   |   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   | 
  |  |   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  
   |   |   |   |  |   |  |  |  |  |                        
  |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
  |   |  |   | | | | | | | | | |
   |   |  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  
   |   |   |   
  |   |   |  
  |   |  |   |  |  |  |   |  |   
   |                                      |  |   |   |  |  |   |  |   |   |  |   
   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   |  |  
  |   |   |  |   |  |   |  |   |  |  
   |  |  |   |   |   |   |  |   |   |  
   |   |   |  |   |   |  |  |  |  |   |   |  |   
   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H   | functional grow           family           Code           species           species           solon           A002           A003           A004           A005           A007           A008           A010           A010           A011           A012           A014           A015           A016           A017           A020           A020           A021           A022           A030           A042           A043  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p heth<br>Papaverscass<br>Papaverscass<br>Papaverscass<br>Papaverscass<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | hetb<br>Plantaginacea<br>Linvul<br>2013.F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | bet3           Flains           Flains           Plains           2018_EF.0.4           0   
   | Herb<br>Flantsginaces<br>Plantsginaces<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>bas Plantaginaceae<br>Varan'<br>2011_5H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | hab<br>Plantspinaceae<br>Varat<br>is Vennit<br>2012_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantagnacas<br>Vartha<br>2012,E,F,G,H<br>-0.137<br>-0.146<br>-0.269<br>-0.269<br>-0.334<br>0<br>-0.354<br>-0.007<br>-0.155<br>-0.007<br>-0.155<br>-0.017<br>0<br>-0.151<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.229<br>-0.216<br>-0.217<br>-0.216<br>-0.217<br>-0.216<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217<br>-0.217  
   
   
   
   
   
   
   
   
  | heth<br>Polygenaces<br>Polygenaces<br>2012_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonacaae<br>Fumac,<br>2011; E.F.G.H<br>-0.033<br>-0.084<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.097<br>-0.236<br>-0.164<br>-0.157<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.225<br>0<br>-0.205<br>0<br>-0.225<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.205<br>0<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215<br>-0.215  
   | Herb           I         Panacr           Panacr         Banacr           2012_EF.6.H         -0.177           -0.355         -0.62           -0.622         -0.623           -0.031         -0.477           -0.177         -0.083           -0.177         -0.083           -0.12         -0.631           -0.62         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631           -0.631         -0.631   
   
   
   
   
   
   
   
   | be5<br>baregy<br>parent<br>2011 € F, 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | herb<br>Rozacsa<br>Potrep<br>2012_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herk<br>Farscas<br>2018 (F.G.)<br>2011 (F.G.)<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb           Fublaces           Satist_EF.6,H           2018_EF.6,H           0      0  | herb<br>Sapindreae<br>Actspe<br>Actspe<br>2012_KFG,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H<br>2018_H   | functional group           family           Cade           gade   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | p helb<br>Papares acase<br>Papares argenemon<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
  | hetb<br>Plantaginacea<br>Linvil<br>Linvil<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
  | berb   
  | herb<br>Flantsginaces<br>Flamd<br>2013_EF.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | heb<br>se Flattagarceae<br>Verary<br>2015_7,H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | holb<br>Fising forces<br>Veract<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
  | heth<br>Flansgnaces<br>Varcha<br>2012_E.F.g.H<br>-0.127<br>-0.127<br>-0.129<br>-0.334<br>0<br>-0.334<br>0<br>-0.354<br>-0.354<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heth<br>Polyprocess<br>Polyprocess<br>2015 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Herb<br>Folygonacaae<br>Fumas,<br>2018_EF,6,H<br>-0.033<br>-0.04<br>-0.169<br>-0.260<br>-0.104<br>-0.157<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.025<br>0<br>-0.145<br>-0.122<br>0<br>-0.142<br>-0.122<br>0<br>-0.164<br>-0.122<br>-0.066<br>-0.066   | Herb           I         Panaurculacasea           Baaser         2012_E, F, 6, H           -0.255         -0.053           -0.355         -0.052           -0.327         -0.057           -0.117         -0.326           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067           -0.067         -0.067  
   
   
   
   
   
   
   
   
  | bef)         Famouloscas           famouloscas         famouloscas           famouloscas         famouloscas           2012 € F,0         0           0         0 </td <td>herð<br/>Roscas<br/>Potep<br/>15 Potentills.reptac<br/>2013.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>Fasaces<br/>Saperf<br/>Septimons_efficial<br/>2011_EF.6.H<br/>0<br/>0<br/>0<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.0021<br/>0.00210000000000</td> <td>herb<br/>Rubincat<br/>2013_EF,G,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>Sapindacaaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>  
  | herð<br>Roscas<br>Potep<br>15 Potentills.reptac<br>2013.6.4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Fasaces<br>Saperf<br>Septimons_efficial<br>2011_EF.6.H<br>0<br>0<br>0<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.0021<br>0.00210000000000  | herb<br>Rubincat<br>2013_EF,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | herb<br>Sapindacaaa<br>Acespa<br>Acespa<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |  
  |  
  |  |   
  |   |   |  |  |  
  |   |  |   |  |   |  |   |  |  
   
   |  |   |   |  
   
   |  |   |  | | | |
  |   |   |  |   |   
  |   |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |   |  |   
  |  
  |   |  
   |  |   | | | | | | | |
   |  |   |   |  |   
  |   |   |   |  |   |  |  |  |  |   
   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   |   |  |   | | | | | | | | |
  |   |  |  |  |  |   |  |  |  
  |   |  |   |   
   |  |   |   |  |   |   
  |   |   |  
   |   |   |   
   |   |  |   |  |  |  |   |  |  
  |                                      |  |   |   |  |  |   |  |   |   |  |  
  |  |  |  |   |                            |  |   |   
   |  |   |   |   |   |  |   
   |   |   |  |   |  |   |  |   |  |   
  |  |  |   |   |   |   |  |   |   |  |                                      
  |   |  |   |   |  |  |  |  |   |   |  |  
  |   |  |   |   
   |  |   |   |   |  |
| Sesson<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H   | functional grow           ramity           Cade           graceise           graceise           graceise           graceise           graceise           graceise           A002           A003           A005           A005           A010           A011           A012           A013           A014           A025           A040           A043           A043           A043           A043           A045           A045  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | D hefb<br>Papayerscase<br>Papayer_systemono<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | hetb<br>Plantaginacea<br>Linvil<br>2012_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | bet/b           4         Plantsginoceae           Plantsginoceae         Plantsginoceae           0         Plantsginoceae           0         0.012_EF.0.H           0         -0.051           -0.051         -0.051           -0.051         -0.051           -0.051         -0.051           -0.051         -0.051           -0.254         -0.051           -0.254         -0.051           -0.254         -0.051           -0.254         -0.051           -0.254         -0.051           -0.051         -0.254           -0.051         -0.254           -0.052         -0.051           -0.052         -0.051           -0.054         -0.052           -0.054         -0.054           -0.054         -0.054           -0.054         -0.054           -0.055         -0.054           -0.054         -0.054   
   | herb<br>Flantsginacu<br>Flamtag_meta<br>2018_EF,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>be Flattsdinaceae<br>Veranic<br>2018_5/H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | hith<br>Fisitspinscase<br>Varaf<br>2015_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | hetb<br>Plantagnaccas<br>Var(b)<br>2012_EF,6,4<br>-0.137<br>-0.260<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.207<br>-0.207<br>0<br>-0.229<br>-0.229<br>-0.321<br>-0.33<br>0<br>-0.354<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357  
   
   
   
   
   
   
   
   
  | heth<br>Polyparscas<br>Polyparson<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Polygonacaa<br>Pumaca<br>2013_EF.6,H<br>-0.033<br>-0.044<br>-0.169<br>-0.264<br>-0.169<br>-0.265<br>-0.161<br>-0.127<br>-0.077<br>-0.225<br>0<br>-0.161<br>-0.161<br>-0.161<br>-0.162<br>-0.161<br>-0.167<br>-0.077<br>-0.255<br>0<br>-0.226<br>-0.164<br>-0.164<br>-0.164<br>-0.021<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022<br>-0.022  
   | Herb<br>Herb<br>Fanaer<br>2012_EF.6.H<br>-0.177<br>-0.296<br>-0.062<br>-0.083<br>0<br>-0.062<br>-0.083<br>0<br>-0.027<br>-0.051<br>-0.067<br>-0.051<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   | <ul> <li>beth</li> <li>Fammely</li> <li>Fammely</li> <li>2011 € F.G</li> <li>0</li> <l<
td=""><td>herð<br/>Roscasa<br/>Potaga<br/>2012_6/H<br/>0<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031<br/>-0.031</td><td>herb<br/>Forsear<br/>2012 E.F.6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubicase<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino<br/>Subino</td><td>herb<br/>Sapindeceae<br/>Acespe<br/>Acespe<br/>2012_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></l<></ul> | herð<br>Roscasa<br>Potaga<br>2012_6/H<br>0<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031<br>-0.031    | herb<br>Forsear<br>2012 E.F.6.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>Fubicase<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino<br>Subino  | herb<br>Sapindeceae<br>Acespe<br>Acespe<br>2012_EF.9.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   
   |   |   |   
   |   
   |  |  |   |   |  | |
   |   |   |  |   |  |   |   
  |   |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |  
  |   |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  
   |   |  |  | | | | | |
   |   |  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  
   |   |   |  |   |  |   |   |   
   
  |   |   |   |   |  |   |  | | | | | | |
   |  |   |  |   |                                      |  |   |   |  |  
   |   |  |   |   |  |   |  |  |  |   |                            |  |   |  
   
                                  |  |   |   |   |   |  |   |   |   |  |   |  |   |  
   |   |  |  |  |  |   |   |   |   |   
  |   |   |  |   |   |  |   |   |  |  |  |  |  
  |   |  |   |   |  |  
  |   |  |   |   |   |  |
| Sesson<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H<br>2013_H   | functional grow<br>family<br>Cede<br>Species<br>Sussion<br>plet<br>A002<br>A005<br>A005<br>A005<br>A010<br>A010<br>A011<br>A013<br>A016<br>A013<br>A016<br>A013<br>A016<br>A016<br>A027<br>A020<br>A027<br>A020<br>A027<br>A030<br>A045<br>A046<br>B045<br>B051   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p heth<br>Papaverscass<br>Papaverscass<br>Papaverscass<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | Hetb<br>Plantsginacez<br>Linvil<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | bit           Imagine and a second and and a se   
   | herb<br>Plantsginacci<br>Plantsginacci<br>Plantsginacci<br>Plantsginacci<br>2012_EF,6,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>be Plantaginaceae<br>Varan<br>2018_F/H<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | hith<br>Finitspinaceae<br>Verat<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantagnaccas<br>Var(b)<br>2012_E,F,G,H<br>-0.137<br>-0.137<br>-0.136<br>-0.334<br>-0.334<br>-0.027<br>-0.354<br>-0.027<br>-0.259<br>-0.155<br>-0.155   
   
   
   
   
   
   
   
   
  | heth<br>Polysmaccas<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Folyponscala<br>Fumace<br>Pumace<br>2013_EF,6,H<br>-0.033<br>-0.044<br>-0.169<br>-0.260<br>-0.164<br>-0.157<br>-0.077<br>-0.205<br>-0.077<br>-0.207<br>-0.207<br>-0.216<br>-0.161<br>-0.161<br>-0.164<br>-0.044<br>-0.064<br>-0.044<br>-0.064<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.057<br>-0.05  | <ul> <li>Herb</li>
<li>Fanaucculacasa</li> <li>BRanuculacasa</li> <li>2012_F.F.0.H</li> <li>0.177</li> <li>0.255</li> <li>0</li> <li>0.625</li> <li>0.633</li> <li>0</li> <li>0.127</li> <li>0.677</li> <li>0.137</li> <li>0.677</li> <li>0.127</li> <li>0.671</li> <li>0.611</li> <li>0</li> <li0< li=""> <li>0</li> <li>0</li> <li0< li=""> <li>0</li></li0<></li0<></ul>   
   
   
   
   
   
   
   
   | b + 0<br>↓ ■ BanaceUbaceae<br>Panety<br>2011 € F, 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | herb<br>Parses<br>Parses<br>2012_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herk<br>Farsteas<br>2011_E,F,S,H<br>2011_E,F,S,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Fubincese<br>2018_5.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>Sapindacaa<br>Acaspe<br>2018_LF.6.4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   |   
   |  |  
   |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   |   
  |  
   |   |  | | | | |
   |   |   |  |   |  
   |   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   |  |  
   |   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  
   |   |   |   |  |   |  |  |  |  |  
  |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
  |  
  |   |  
   
   
   
   
   
   
   
  |   |  |   |   |   | | | | | | | |
  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  
   |   |   |   
  |   |   |  
  |   |  |   |  |  |  |   |  |   
   |                                      |  |   |   |  |  |   |  |   |   |  |   |   
  |  |  |   |                            |  |   |  
  |  |   |   |   |   |  |   |   |  
  |  |   |  |   |  |   |  |  |  |  |   |   
   |   |  |   |   |  |   |   |  |  
  |   |  |  |  |  |   |   |  |   
   |   |  |   |  
  |  |   |   |   |  |
| Sesson<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H<br>2015_H   | Functional group           Family           Code           Societa           Code           Societa           A002           A003           A004           A010           A010           A011           A012           A013           A014           A015           A026           A027           A030           A042           A042           A042           A042           A045           B046           B045           B045  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Paparg zease<br>Paparg Agements<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvit<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | kerb  
   | herb<br>Plantaginace<br>Plantaginace<br>2011_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>se Fjottgaccae<br>Veranice_preness<br>2018_5,H<br>   
   | hub<br>Finitipisces<br>Varad<br>Varad<br>Varad<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heth<br>Plantginacson<br>Varcha<br>2012_E.F. 6, H.<br>-0.177<br>-0.177<br>-0.139<br>-0.334<br>-0.334<br>-0.334<br>-0.334<br>-0.357<br>-0<br>-0<br>-0.319<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219<br>-0.219  
   
   
   
   
   
   
   
   
  | het<br>Polysonsa<br>Polisi<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Herb<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconscase<br>Polyconsca  | Herb           I         Panaurculac.aca           ID         Panaurculac.aca           ID        
Panaurculac.aca           ID         Panaurculac.aca           ID         Panaurculac.aca           ID         ID  
   
   
   
   
   
   
   
   | bef)         1         Bannenuluszese           1         Bannenuluszese         Bannenuluszese           2013 ≤ 5,9         0         0           0         0         0  
   | herð<br>Roscas<br>Potep<br>12 Potep<br>2015_6.4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Fasters<br>Segart<br>Segarts<br>2011.EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Fubisces<br>a Galiam_mellegi<br>a Galiam_melle  | herb<br>Sapindaceae<br>Acespe<br>Acespe<br>2018_EF.9.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   |   |   |   |   
   |   
   |  |  |   | | | |
   |  |  |   |   |   
              |   |  |   |  |   |  |   
   
  |  |   |   |   
  |  
   |   |  | | | | |
   |   |   |  |   |  |   
   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   |  |  
   |   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  |   
   |   |   |  |   |  |  |  |  |   |  
   |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
  |   |  
  |  
   
   
   
   
   
   
   
  |   |  |   |   |   | | | |
  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  |   |   |   
   
  |   |   |   |   |  | | | | | | | | | | | |
   |  |  |  |   |  |   |                                      |  
   |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |  
  |  
  |  |   |   |   |   |  |   |   |   | | | | |
   |   |  |   |  |   |  |  |  |  |   |   |   |   |   
  |   |   |  |   |   |  |   |   |  
   |  |  |  |   |   |  |   
   |   |  |   |   |  
   |   |   |   |  |
| 54600<br>2023, H<br>2023, H<br>2033, H   | functional group           tramity           Code           group           code           group           plot           A002           A003           A004           A005           A005           A006           A010           A011           A012           A013           A014           A025           A040           A042           A043           A045           B042           B043           B044           B045           B051           B055   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papayerscase<br>Papayer systemono<br>2015 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | harb<br>Plantaginacea<br>Linvit<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | kerb  
   
   | herb<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>2013_EF,o,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herb     Herb     Vernit     Vernit     Join     Join     0  
   | halb<br>Fissingscear<br>Veracf<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | hetb<br>Flantsgnaccas<br>Vartb<br>Vartb<br>2012_EF,6,4<br>-0.137<br>-0.137<br>-0.260<br>-0.34<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.354<br>0<br>-0.355<br>-0.357<br>0<br>-0.354<br>-0.357<br>0<br>-0.354<br>-0.357<br>0<br>-0.354<br>-0.357<br>0<br>-0.354<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.357<br>-0.37  
   
   
   
   
   
   
   
   
  | heth<br>Polysonsas<br>Patari<br>2013 <u>E</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herb<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconaccae<br>Polyconacc  | <ul> <li>Herb</li> <li>Fanarculacase</li> <li>Fanarculacase</li> <li>2012 g.f. 6.H</li> <li>40.255</li> <li>0.40.35</li> <li>0.40.32</li> <li>40.432</li> <li>40.421</li> <li>40.421</li></ul>  
   
   
   
   
   
   
   
   
   | <ul> <li>bet)</li> <li>Fannenput</li> <li>Bannenput</li> <li>Bannenput<td>herð<br/>Roscas<br/>Potrap<br/>2013_6/<br/>2013_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Forseau<br/>2012 E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>Subiaces<br/>Satism_molity<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindacaaa<br/>Acesp<br/>Acesp<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul>  | herð<br>Roscas<br>Potrap<br>2013_6/<br>2013_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
            | herb<br>Forseau<br>2012 E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Fubiaces<br>Subiaces<br>Satism_molity<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Sapindacaaa<br>Acesp<br>Acesp<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  
  |   |   |  
  |  
  |  |  |   |   |  | |
  |   |   |  |   |  |   |  
   |   |  |  
   |   
  |   |   | | | | |
   |  |   |  
   |  |   |   |  
   |   |  |   |   |   |  |                 
   
  |   |  |   |   |   |   |  |  
   |  |   |   |  |  |  
  |   |  
   |   
  |   |  | | | | | | |
  |   |   |  |  |   |   |   |  
   |   |  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |  |  
  |  |  |   |   |  |   
   |   |   
  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   |  | | | | | | |
  |  |   |  |   |                                      |  |   |   |  |   
  |   |  |   |   |  |   |  |  |  |   |                            |  |   |   
   
   |  |   |   |   |   |  |   |   |   |  |   |  |   
   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |  |  |  |  
   |   |   |  |   |   |  |   
   |   |  |   |   |   |  |
| 54880<br>2013 J.<br>2013 J.<br>2014 J.<br>2015 J.<br>2014 J.<br>2015 J.<br>2014 J.<br>2015 J.<br>2014 J.<br>2015 J.<br>2014 J.<br>2015 J.<br>2014 J.<br>2015 J.<br>2014 J.<br>2014 J.<br>2015 J.<br>2014 J.   | functional grow           family           Code           species           sason           plot           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A020           A020           A020           A021           A040           A042           A045           B051           B052           B055           B055   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | 0) heth<br>Papaverscase<br>Papaverscase<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
  | Herb<br>Plantaginacea<br>Linvul<br>2013.<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | bit           Imagine case           Fain           Pain           Pain <td>herb<br/>Plantsginaces<br/>Plantag<br/>Plantag_meta<br/>2013_EF,G,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>be Flantsdinaceae<br/>Varan'<br/>2018_5,H<br/>4-0.013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>hith<br/>Fishtspinscese<br/>Varst<br/>2013_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>Plantagnaccas<br/>Var(ha<br/>2012_EF, 6,
H<br/>-0.157<br/>-0.169<br/>-0.334<br/>0<br/>-0.354<br/>0<br/>-0.027<br/>-0.027<br/>-0.027<br/>-0.027<br/>-0.029<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.351<br/>-0.029<br/>-0.229<br/>-0.351<br/>-0.029<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.229<br/>-0.239<br/>-0.229<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.239<br/>-0.240<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.250<br/>-0.2</td> <td>heth<br/>Polysonacas<br/>2013_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>Folygonacsa<br/>Folygonacsa<br/>Pamacs<br/>2013_EF.6,H<br/>-0.033<br/>-0.044<br/>-0.169<br/>-0.264<br/>-0.165<br/>-0.167<br/>-0.077<br/>-0.077<br/>-0.275<br/>0<br/>-0.161<br/>-0.161<br/>-0.161<br/>-0.162<br/>-0.141<br/>-0.062<br/>-0.044<br/>-0.055<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105<br/>-0.105</td> <td><ul> <li>Herb</li> <li>Fanarculacasa</li> <li>Banarculacasa</li> <li>Banarculacasa</li> <li>Banarculacasa</li> <li>Calling F.6.M</li> <li>Calling F.6.M<td><ul> <li>bet0</li> <li>Fanneput</li> <li>Fanneput</li> <li>2011 ≤ F.G</li> <li>0</li> <li>0</li></ul></td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb<br/>Farscas<br/>2011_EF,6,H<br/>2011_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiocos<br/>Salism_molitation<br/>2018_6.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>het)<br/>Sapindacasa<br/>Actapa<br/>Actapa<br/>2018_EF.0 H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td>  
   | herb<br>Plantsginaces<br>Plantag<br>Plantag_meta<br>2013_EF,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>be Flantsdinaceae<br>Varan'<br>2018_5,H<br>4-0.013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | hith<br>Fishtspinscese<br>Varst<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | herb<br>Plantagnaccas<br>Var(ha<br>2012_EF, 6, H<br>-0.157<br>-0.169<br>-0.334<br>0<br>-0.354<br>0<br>-0.027<br>-0.027<br>-0.027<br>-0.027<br>-0.029<br>-0.229<br>-0.229<br>-0.229<br>-0.351<br>-0.029<br>-0.229<br>-0.351<br>-0.029<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.229<br>-0.239<br>-0.229<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.239<br>-0.240<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.250<br>-0.2  
   
   
   
   
   
   
   
  | heth<br>Polysonacas<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Folygonacsa<br>Folygonacsa<br>Pamacs<br>2013_EF.6,H<br>-0.033<br>-0.044<br>-0.169<br>-0.264<br>-0.165<br>-0.167<br>-0.077<br>-0.077<br>-0.275<br>0<br>-0.161<br>-0.161<br>-0.161<br>-0.162<br>-0.141<br>-0.062<br>-0.044<br>-0.055<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105<br>-0.105  | <ul> <li>Herb</li> <li>Fanarculacasa</li> <li>Banarculacasa</li> <li>Banarculacasa</li> <li>Banarculacasa</li> <li>Calling F.6.M</li> <li>Calling F.6.M<td><ul> <li>bet0</li> <li>Fanneput</li> <li>Fanneput</li> <li>2011 ≤ F.G</li> <li>0</li> <li>0</li></ul></td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb<br/>Farscas<br/>2011_EF,6,H<br/>2011_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiocos<br/>Salism_molitation<br/>2018_6.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>het)<br/>Sapindacasa<br/>Actapa<br/>Actapa<br/>2018_EF.0 H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul>  
   
   
   
   
   
   
   
  | <ul> <li>bet0</li> <li>Fanneput</li> <li>Fanneput</li> <li>2011 ≤ F.G</li> <li>0</li> <li>0</li></ul>  
  | herb<br>Parses<br>Parses<br>2012_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herb<br>Farscas<br>2011_EF,6,H<br>2011_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Fubiocos<br>Salism_molitation<br>2018_6.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | het)<br>Sapindacasa<br>Actapa<br>Actapa<br>2018_EF.0 H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |  
   
  |  
  |  |  |   |   |  |  |  
  |   |  |   |  |   |  |   
   |  |  
   |  |   |  
  |  
   |  |   |  | | |
  |   |   |  |   
   |  |   |   |   |  |   
  |   |  |   |   
   |   |   |  |  
   |  |   |   |  |  |  
  |   |  
   |  |   | | | | |
   |  |   |   |  
   |  |   |   |   |  |   |   
  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |  |   |  |   
  |   |   |  |   
   |   |  |   |   |  
   |   |  |   |   |  
   |   
   |   |   |   |  |   |  |  | | | | | |
                           |   |  |   |                                      |  |   |   |  |  |   |  |   
   |   |  |   |  |  |  |   |                            |  |   |   
   |  |   |   |   |  
  |  |   |   |   |  |   |  |   |  |   |  
   |  |  |  |   |   |   |   |  |   |   
   |  |   |   |  |   |   |  |  |  |  |   |   |   
  |   |   |  |   
   |   |  |   |   |   |  |
| 548804<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>2013,H<br>20   | Functional group           Family           Code           Societa           Code           pite           A002           A003           A004           A010           A010           A011           A012           A013           A014           A015           A016           A017           A018           A019           A010           A011           A020           A020           A021           A022           A024           A025           A040           A042           A042           A042           A043           A045           B046           B054           B054           B054           B054           B054  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papare Jacense<br>Papare Jacense<br>Papare Jacense<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb<br>Plantaginacas<br>Linvit<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | kr     k  
   | herb<br>Plansed<br>13 Planses_med<br>14 Planses_med<br>15 Planses_med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>se Fjinstjancsa<br>Vitrani<br>2015_/,H<br>0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | bit         Finite figures is a second s  
   
   
   
   
   
   
   
   
   | heth<br>Planspaces<br>Varcha<br>2012 [, F, G, H<br>-0, 177<br>-0, 177<br>-0, 109<br>-0, 109<br>-0, 109<br>-0, 334<br>-0, 334<br>-0, 334<br>-0, 334<br>-0, 354<br>-0, 307<br>-0, 3   
   
   
   
   
   
   
   
   | het<br>Polyparses<br>Polyparses<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
          | herb<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase<br>Polygonaccase  | Herb           I         Panarculscase           IS         Panarculscase           IS         Panarculscase           IS         Panarculscase           IS         Panarculscase           IS         Panarculscase           IS         IS  
   
   
   
   
   
   
   
   
  | bef)         I Banneroluscasa           1 Banneroluscasa         Banneroluscasa           10 Banneroluscasa         0           2013 € F, 3         0           0   | herb<br>Roscas<br>Potep<br>1016_01011L.ceptate<br>2015_6/H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>Farscars<br>2010<br>2011<br>2011<br>2011<br>2011<br>2011<br>2012<br>2012<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2013<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>2015<br>20 | herb<br>Fubisces<br>2012_E,F,G,H<br>2012_E,F,G,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Sapindacasa<br>Acespe<br>(a) Acespe<br>2018_UF,9,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  
  |   |   |  
  |  
  |  |  |   |   | | |
   |  |   |   |  |   |  |  
|  |   |  |  
   |   
  |   |   |  
   |  |   |  
   |  |  
  |   |  |   |  | | | |
  |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |   |  |  |  
  |   |    
   
   |  |   | | | | | | | | |
   |  |   |   |  |  |   |  
                |   |  |   |  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |   
  |   |  |  |   |  
  |  |   |   |                                 
  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   | | | | | | | | | |
   |  |  |   |  |   |                                      |  |  
  |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |   
   |   
   |  |   |   |   |   |  |   |   |   |  | | |
  |  |   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |  |  
   |  |  |   |   |  |  
  |   |  |   |   |  |   |  
  |   |  |
| 48888<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,4105<br>4,41054,4105<br>4,4105<br>4,4105<br>4,41054,4105<br>4,4105<br>4,41054,4105<br>4,4105<br>4,41054,4105<br>4,4105<br>4,41054,4105<br>4,4105<br>4,41054,4105<br>4,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,4105<br>4,41054,4105<br>4,41054,4105<br>4,41054,41054,4105<br>4,41054,41054,41054,41054,41054,41054,41054,4   | functional group           family           Cade           grades           grades           grades           grades           grades           grades           grades           A002           A010           A011           A012           A013           A014           A025           A026           A027           A031           A042           A042           A043           A044           B045           B054           B055           B064           B055           B064           B055           B064           B054  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papayerszase<br>Papayer Jyremono<br>2013 <u>E</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | bet           Plantspinscele           Plantspinscele           2011_E.F.O.H           2011_E.F.O.H           4           4           2011_E.F.O.H           4 <t< td=""><td>herb<br/>Planta gina cs.<br/>Planta gina cs.<br/>13<br/>Plantage_med<br/>2013_EF, 6, H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• N+10<br/>• • • Flating - caa<br/>Veran/<br/>2015_7.4<br/>• • 0.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>h th<br/>Fisiting Scene<br/>Veract<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heth<br/>Flantagnacca<br/>Varda<br/>Varda<br/>2012_EF,6,4<br/>-0.137<br/>-0.137<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.354<br/>-0.354<br/>-0.354<br/>-0.354<br/>-0.354<br/>-0.359<br/>-0.255<br/>-0.351<br/>-0.359<br/>-0.351<br/>-0.359<br/>-0.351<br/>-0.359<br/>-0.351<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359<br/>-0.359</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2018 <u>E</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease<br/>Polyconscease</td><td>Herb           I         Panaurculacasa           IS         Panaurculacasa</td><td>bef)         i Pannen/Duscasa           i Pannen/Duscasa         pannen/Duscasa           2013 ≤ E,G         0           0         0</td><td>herð<br/>Roscas<br/>Potep<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fasacas<br/>Sapar<br/>Sapar<br/>2011.EF.6.H<br/>0<br/>0<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0.001<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>2012_EF.6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindecase<br/>Acespe<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<>  
   | herb<br>Planta gina cs.<br>Planta gina cs.<br>13<br>Plantage_med<br>2013_EF, 6, H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | • N+10<br>• • • Flating - caa<br>Veran/<br>2015_7.4<br>• • 0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | h th<br>Fisiting Scene<br>Veract<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heth<br>Flantagnacca<br>Varda<br>Varda<br>2012_EF,6,4<br>-0.137<br>-0.137<br>-0.334<br>-0.334<br>-0.334<br>-0.334<br>-0.334<br>-0.334<br>-0.334<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.359<br>-0.255<br>-0.351<br>-0.359<br>-0.351<br>-0.359<br>-0.351<br>-0.359<br>-0.351<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359<br>-0.359   
   
   
   
   
   
   
   
   
  | Not1<br>Polypores.as<br>Polari<br>2018 <u>E</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herb<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease<br>Polyconscease  
   | Herb           I         Panaurculacasa           IS         Panaurculacasa   
   
   
   
   
   
   
   
   | bef)         i Pannen/Duscasa           i Pannen/Duscasa         pannen/Duscasa           2013 ≤ E,G         0           0         0  
   | herð<br>Roscas<br>Potep<br>2012_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Fasacas<br>Sapar<br>Sapar<br>2011.EF.6.H<br>0<br>0<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0.001<br>0<br>0<br>0<br>0   | herb<br>Fubiaces<br>2012_EF.6.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb<br>Sapindecase<br>Acespe<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |   
   |   
   |  |  
   |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   |   
   
  |  |   |  | | |
   |   |   |  |   |  
   |   |   |   |  |  
   |   |  |   |   |   |                                    
  |  |  |  |   |   
   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |  |  
   |   |   |   |  |   |  |   
                              |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
  |   |  | | | | | | | | | | |
   |   |   |  |  |  |  |   |  |  |   
   |   |  |  
  |   |  |   |   |  |   |  
   |   |   |   
  |   |   |  
  |   |  |   |  |  |  |   |  |   
   |                                      |  |   |   |  |  |   |  |   |   |  |   
   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   |   
  |   |   |   |  |   |  |   |  |   |   
                        |  |  |  |   |   |   |   |  |   |   |  
   |   |   |  |   |   |  |  |  |  |   |   |  |   
   |   |  |  
  |   |  |   |   |   |  |
| 40000<br>2012,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2013,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4<br>2014,4  | functional group           rannity           Code           grades           grades           grades           grades           grades           grades           grades           grades           A002           A003           A004           A013           A014           A020           A021           A020           A021           A020           A021           A020           A021           A022           A033           A040           A043           A043           A045           B051           B054           B055           B056           B057   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papaverscase<br>Papaversugemenon<br>2015 <u>E</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | hetb<br>Plantaginacea<br>Linvit<br>2013_f<br>2013_f<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | ks         Flatssyncess           Platssyncess         Platssyncess           Platssyncess         Platssyncess           2011_E.F.G.H         0           -0.04         -0.05           -0.05         -0.05           -0.02         -0.05           -0.02         -0.05           -0.02         -0.02  
   | herb<br>Plants gina cu<br>Plants gina cu<br>Plants gina cu<br>Plants gina cu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herb     herb     vern     vern     vern     2018_5/     0   | h th<br>Fischagina case<br>Verari<br>2013 5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   | hetb<br>Plantsgnaccas<br>Vartha<br>Vartha<br>2012[£,6,4]<br>-0.315<br>-0.314<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.355<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.354<br>-0.3  
   
   
   
   
   
   
   
   
  | Neth<br>Polysonscase<br>Pateri<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Herb<br>Folgenaceae<br>Fumace<br>Fumace<br>2012_EF.0,H<br>-0.033<br>-0.044<br>-0.169<br>-0.260<br>-0.164<br>-0.167<br>-0.276<br>-0.177<br>-0.275<br>-0.077<br>-0.225<br>-0.161<br>-0.161<br>-0.161<br>-0.162<br>-0.161<br>-0.162<br>-0.161<br>-0.162<br>-0.161<br>-0.161<br>-0.161<br>-0.161<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165<br>-0.165  
   | <ul> <li>Herb</li> <li>Fanarcilla Sasci</li> <li>Banarcilla Sasci</li> <li>Banarcilla Sasci</li> <li>Call S. F. G. H</li> <li>Call S. G. G.</li></ul>   
   
   
   
   
   
   
   
  | <ul> <li>bet)</li> <li>Fanneput</li> <li>Constant year</li> <li>Constant year</li></ul>  
  | herð<br>Forscas<br>19 Potes<br>2 2112_6/f<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Forces<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010<br>2010 | Herb           Fublaces           Salar           10           10           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           11           12           12           13           14           15           15           16           17           18           18           19           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10           10  
   | неть<br>Зарийасава<br>Асере<br>2012  |   |   |   |  
  |  
  |  |   
  |   |   |  |  |  
  |   |  |   |  |   |  |   |  |  
   
   |  |   |   |  
   
   |  |   |  | | |
  |   |   |  |   |   
  |   |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |  
  |  |  |  
  |   |  
   |  |   | | | | | |
   |  |   |   |  |   
  |   |   |   |  |   |  |  |   
                                      |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   |   |  | | | | | | | | | | |
  |   |   |  |  |  |  |   |  |  |  
  |   |  |   
   |   |  |   |   |  |   |   
  |   |   |  
   |   |   |   
   |   |  |   |  |  |  |   |  |  
  |                                      |  |   |   |  |  |   |  |   |   |  |  
  |  |  |  |   |                            |  |   |   
   |  |   |   |   |   |  
   |   |   |   |  |   |  |   |  |   |  |   
  |  |  |   |   |   |   |  |   |   |   
  |   |   |  |   |   |  |  |  |  |   |   |  |  
  |   |  |   
   |   |  |   |   |   |  |
| ۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۵۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۵۹<br>۱۹٬۹۹<br>۱۹٬۹۹<br>۱۹٬۹<br>۱۹٬  | functional grow<br>ramity<br>Cade<br>Species<br>sasson<br>plet<br>A002<br>A005<br>A005<br>A005<br>A010<br>A013<br>A016<br>A010<br>A013<br>A016<br>A013<br>A016<br>A016<br>A020<br>A020<br>A020<br>A020<br>A020<br>A035<br>A040<br>A040<br>A040<br>A045<br>A046<br>B045<br>B055<br>B055<br>B055<br>B055<br>B055<br>B056<br>B057<br>B057<br>B057<br>B057<br>B057<br>B057  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papara Josephilia<br>Papara Josephilia<br>2013 <u>-</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | Herb           Plantaginacea           Linvul           i Linval           i Linval <td< td=""><td>bit           Imagination of the second of the seco</td><td>harb<br/>Flansginacci<br/>Plansginacci<br/>Plansginacci<br/>Plansginacci<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>as Pjantscaa<br/>Vitaar<br/>2015_7,H<br/>a G.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Finitingnisses           Variation           source           2013_5           0     <td>heth<br/>Planta gloscase<br/>Varcha<br/>2012 [5.6, 4]<br/>-0.177<br/>-0.169<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.354<br/>-0.077<br/>-0<br/>-0.354<br/>-0.077<br/>-0<br/>-0.154<br/>-0.077<br/>-0<br/>-0.154<br/>-0.077<br/>-0<br/>-0.154<br/>-0.029<br/>-0.151<br/>-0.299<br/>-0.151<br/>-0.299<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291</td><td>het)<br/>Polypose,
set<br/>Telati<br/>2011_f<br/>2011_f<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fancer</li> <li>Fancer</li> <li>Fancer</li> <li>Sammer-tabu, sci</li> <li>2015_E.F. 9. H</li> <li>4.2.296</li> <li>4.2.296</li> <li>4.0.217</li> <li>4.2.296</li> <li>4.0.622</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.612</li> <li>6.0</li> <li></li></ul></td><td>Interface         Interface           Interface         Interface</td><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk<br/>Faraces<br/>2010<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>20</td><td>herb<br/>Fubiocos<br/>2012_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></td<> | bit           Imagination of the second of the seco  
   
  | harb<br>Flansginacci<br>Plansginacci<br>Plansginacci<br>Plansginacci<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>as Pjantscaa<br>Vitaar<br>2015_7,H<br>a G.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | bib           Finitingnisses           Variation           source           2013_5           0 <td>heth<br/>Planta gloscase<br/>Varcha<br/>2012 [5.6, 4]<br/>-0.177<br/>-0.169<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.354<br/>-0.077<br/>-0<br/>-0.354<br/>-0.077<br/>-0<br/>-0.154<br/>-0.077<br/>-0<br/>-0.154<br/>-0.077<br/>-0<br/>-0.154<br/>-0.029<br/>-0.151<br/>-0.299<br/>-0.151<br/>-0.299<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291<br/>-0.291</td> <td>het)<br/>Polypose, set<br/>Telati<br/>2011_f<br/>2011_f<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td> <td><ul> <li>Herb</li> <li>Fancer</li> <li>Fancer</li> <li>Fancer</li> <li>Sammer-tabu, sci</li> <li>2015_E.F. 9. H</li> <li>4.2.296</li> <li>4.2.296</li> <li>4.0.217</li> <li>4.2.296</li> <li>4.0.622</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.612</li> <li>6.0</li> <li></li></ul></td> <td>Interface         Interface           Interface         Interface</td> <td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>
<td>Herk<br/>Faraces<br/>2010<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>2011<br/>20</td> <td>herb<br/>Fubiocos<br/>2012_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>herb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>  
   
   
   
   
   
   
   | heth<br>Planta gloscase<br>Varcha<br>2012 [5.6,
4]<br>-0.177<br>-0.169<br>-0.334<br>-0.334<br>-0.334<br>-0.354<br>-0.077<br>-0<br>-0.354<br>-0.077<br>-0<br>-0.154<br>-0.077<br>-0<br>-0.154<br>-0.077<br>-0<br>-0.154<br>-0.029<br>-0.151<br>-0.299<br>-0.151<br>-0.299<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291<br>-0.291   
   
   
   
   
   
   
   
   | het)<br>Polypose, set<br>Telati<br>2011_f<br>2011_f<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |
herb<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonacc  | <ul> <li>Herb</li> <li>Fancer</li> <li>Fancer</li> <li>Fancer</li> <li>Sammer-tabu, sci</li> <li>2015_E.F. 9. H</li> <li>4.2.296</li> <li>4.2.296</li> <li>4.0.217</li> <li>4.2.296</li> <li>4.0.622</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.617</li> <li>4.0.612</li> <li>6.0</li> <li></li></ul>  
   
   
   
   
   
   
   
  | Interface         Interface  
  | herb<br>Parses<br>Parses<br>2015_6,H<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |
Herk<br>Faraces<br>2010<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>2011<br>20  | herb<br>Fubiocos<br>2012_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Sapindacasa<br>Acaspe<br>2018_EF.6.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  
  |   |   |  
  |  
  |  |  |   |   |  | |
  |   |   |  |   |  |   |  
   |   |  |  
   |   
  |   |   | | | | |
   |  |   |  
   |  |   |   |  
   |   |  |   |   |   |  |                               
   
  |   |  |   |   |   |   |  |  
   |  |   |   |  |  |  
  |   |  
   |   
  |   |  | | | | | | |
  |   |   |  |  |   |   |   |  
   |   |  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |  |  
  |  |  |   |   |  |   
   |   |   
  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   |  | | | | | | |
  |  |   |  |   |                                      |  |   |   |  |   
  |   |  |   |   |  |   |  |  |  |   |                            |  |   |   
   
   |  |   |   |   |   |  |   |   |   |  |   |  |   
   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |  |  |  |  
   |   |   |  |   |   |  |   
   |   |  |   |   |   |  |
| 40000<br>40000<br>4000<br>4000<br>4000<br>4000<br>4000<br>4  | functional group           family           Code           polet           nosc           A002           A003           A010           A011           A012           A013           A014           A020           A013           A014           A020           A021           A020           A021           A022           A030           A040           A045           B054           B055           B056           B057           B064           B057           B064           B057           B064           B057           B064           B057           B064           B057           B064           B067           B064           B067           B064  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papare Jacense<br>Papare Jacense<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvit<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | bit           Plantspinocal           Plantspinocal           Plantspinocal           2011_E.F.O.H           0           0.004           0.015           0.015           0.014           0.024           0.031           0.041           0.024  
   | harb<br>Planaed<br>Planaed<br>Planaed<br>13 Plantage_med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | • H+b<br>• Pinting Caracia<br>• Veranica Jerens<br>2018  | hub<br>Pistingscess<br>Veract<br>is Genoide_seenis<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heb<br>Panagancas<br>Varcha<br>2012_E.F.G.H<br>- 0.177<br>- 0.177<br>- 0.177<br>- 0.179<br>- 0.354<br>- 0.355<br>-  
   
   
   
   
   
   
   
   
  | Not 1<br>Polycarcease<br>Polacei<br>2011 <u>F</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | <ul> <li>herb</li> <li>Polyconscene</li> <li>Formace</li> <li>tumace</li> <li>tumace</li> <li>construction</li> <li>cons</li></ul>  | Herb           I         Panaurculacaaa           I         Panaurculacaaa           I         Panaurculacaaa           I         Panaurculacaaa           I         Panaurculacaaa           I         Panaurculacaaa           I         Internet of the second of the  
   
   
   
   
   
   
   
   
   | Ief)         Isomerical as a periodicata           Isomerical as a periodicata         Isomerical as a periodicata           2013 € F, 0         0            | herð<br>Roscas<br>Potep<br>2015_6,H<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | herb           Roscessor           SapetT           SectionStr., Efficient           0   | herb<br>Fubisces<br>2012_E,F,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Sapindecase<br>Acespe<br>Acespe<br>2018_EF.9.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   |   |   |   |   
   |   
   |  |  |   | | |
   |  |  |   |   |  |  
                |  |   |  |   |  |   
   
  |  |   |   |   
  |  |   
   |  |  | | | | | |
   |   |  |   |  |   
   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   |  |  |   
   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  |   
   |   |   |  |   |  |  |  |  |   |  
   |   |   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   | | | |
  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  |   |   |   
   
  |   |   |   |   |  |   | | | | | | | | | | |
  |  |  |   |  |   |                                      |  
   |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |  
  |  
  |  |   |   |   |   |  |   |   |   |  | | |
   |  |   |  |   |  |  |  |  |   |   |   |   |   
  |   |   |  |   |   |  |   |   |  
   |  |  |  |   |   |  |   
   |   |  |   |   |  
   |   |   |   |  |
| ченно<br>2013 //<br>2013 //   | functional group           rannity           Code           parter           A002           A003           A004           A005           A005           A007           A003           A010           A011           A012           A013           A014           A020           A021           A022           A033           A040           A042           A043           A044           B055           B056           B056           B057           B058           B059           B054           B057           B057 <tr td=""> <!--</td--><td>p helb<br/>Papayerscase<br/>Papayer systemmon<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>keib</li> <li>Plantspincesa</li> <li>Plantspincesa</li> <li>Plantspincesa</li> <li>auterspincesa</li> <li>auterspincesa<td>harb<br/>Plantsdinacu<br/>Plantsdinacu<br/>Plantsdinacu<br/>Plantsdinacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb     herb     herb     yearv     Venni     2012_5     102_5     0</td><td>h th<br/>Fissing a case<br/>Verand<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>Plansgnacca<br/>Vartb<br/>Vartb<br/>2012_EF,6,1<br/>-0.137<br/>-0.137<br/>-0.154<br/>-0.260<br/>-0.34<br/>-0.34<br/>-0.154<br/>-0.07<br/>-0.07<br/>-0.154<br/>-0.07<br/>-0.154<br/>-0.07<br/>-0.154<br/>-0.02<br/>-0.20<br/>-0.155<br/>-0.20<br/>-0.155<br/>-0.20<br/>-0.155<br/>-0.22<br/>-0.220<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.22<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.22<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-</td><td>Neth<br/>Polysons as<br/>Polyson<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomacc</td><td>Herb           I         Panacr         Panacr           IS         Panacr         0.177           -0.25         -0.25         -0.25           -0.062         -0.062         -0.012           -0.077         -0.061         -0.07           -0.010         -0.071         -0.061           -0.071         -0.061         -0.071           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011          
-0.012         -0.012         -0.011           -0.012         -0.012         -0.012           -0.012         -0.012         -0.012</td><td><ul> <li>bef)</li> <li>Famopara</li> <li>Caller of a manufactura year</li> <li>2013 € F, G</li> <li>0</li> <li>0<td>herð<br/>Forscas<br/>Potrap<br/>2013_6/<br/>2013_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Facaca<br/>Sapar<br/>2012 E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>Subiaces<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calumation<br/>a C</td><td><ul> <li>herb</li> <li>Зарілбасава</li> <li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul></td></li></ul></td></li></ul></td></tr> <tr><td>наме     1011 н     1011 н</td><td>functional group<br/>ramity<br/>Cades<br/>reason<br/>plot<br/>Ad002<br/>Ad005<br/>Ad005<br/>Ad005<br/>Ad005<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad010<br/>Ad02<br/>Ad02<br/>Ad02<br/>Ad02<br/>Ad02<br/>Ad02<br/>Ad02<br/>Ad0</td><td>D heth<br/>Paparetacase<br/>Paparetacase<br/>2018_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb           Plantaginacea           Linvit           itinitia           2018_F           0     <td>ks         Flantspinscell           Plantspinscell         Plantspinscell           2012_EF.0.4         0           0         0.015           0.021         0.031      <tr< td=""><td>herb<br/>Flansginacci<br/>Plansginacci<br/>Plansginacci<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td><td>herb<br/>as Plantstauccaa<br/>Virtanor<br/>Virtanor<br/>2018F.H<br/>d.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>htb           Plantparsese           Varadi           source           2013_5           0</td><td>hetb<br/>Plantsgnaccas<br/>Var(h)<br/>2012_EF, 6, Homesef<br/>2012_EF, 6, Homesef<br/>-0.159<br/>-0.154<br/>-0.029<br/>-0.029<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021</td><td>heb<br/>Polyprocess<br/>Folky<br/>2011_F<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface        
Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr<></td></td></tr> <tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>4100000000</td><td>Functional group           Family           Code           polet           rescript           rescript           A002           A003           A004           A010           A011           A012           A013           A014           A020           A013           A014           A020           A031           A020           A042           A042           A045           B054           B055           B056           B057           B058           B057           B058           B057           B058           B057           B057           B058           B059           B050           B051           B052           B053           B054           B055           B056           B057           B058           B059           B051           B052           B053</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>kr     kr     k     k     k     k     k</td><td>harb<br/>Planed<br/>Planed<br/>13 Plantaginace<br/>Planed<br/>14 Plantaginace<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>beb<br/>beb<br/>se Fjontgaccae<br/>2018_5, press<br/>2018_5, press<br/>201</td><td>btb           Firstspicess           Verad           5           2013_5           0      <tr< td=""><td>Heth<br/>Varcha<br/>Varcha<br/>2012_E.F.G.H<br/>-0.177<br/>-0.169<br/>-0.139<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.345<br/>-0.354<br/>-0.354<br/>-0.354<br/>-0.355<br/>-0.229<br/>-0.229<br/>-0.235<br/>-0.235<br/>-0.235<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.25<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25</td><td>het<br/>Polysons Joint<br/>Polysons Joint<br/>2011 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Polyconscene</li> <li>Fourses</li> <li>stumacs</li> <li>stumacs</li></ul></td><td>Herb           I         Panarr         Panarr           ID         Panarr         1012_EF.6.H           ID         ID         ID           ID         ID         ID      <tr< td=""><td>Ief)         Isomerical and a set of a set</td><td>herð<br/>Roscas<br/>Potep<br/>12 Potep<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>нин<br/>Базаар<br/>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,</td><td>herb<br/>Fubisces<br/>2012_E,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindecase<br/>Acespe<br/>(a) Acespe<br/>2018_EF,9,H<br/>(a) 0<br/>(a) 0<br/>(a) 0<br/>(b) 0<br/>(c) 0<br/>(</td></tr<></td></tr<></td></tr>
<tr><td>40000<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012<br/>1012</td><td>functional group           family           Code           pace           pace           A002           A003           A004           A010           A010           A011           A012           A013           A014           A025           A020           A021           A020           A021           A022           A023           A024           A043           A045           B046           B047           B048           B049           B049           B047           B048           B047           B048           B047           B048           B049           B057           B057           B058           B057           B057           B057           B057           B057           B057           B057           B057           B057           B057</td><td>p helb<br/>Papares Jeremon<br/>2010 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>keib</li> <li>Plantspinscene</li> <li>Plantspinscene</li> <li>Plantspinscene</li> <li>Diattspinscene</li> <li< td=""><td>harb<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• herb<br/>• e Flatta, promas<br/>2012_5, 4<br/>-0.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>h th<br/>Fissing access<br/>Verand<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>Plansgnacca<br/>Varta<br/>Varta<br/>2012_EF,6,1<br/>- 0.137<br/>- 0.137<br/>- 0.159<br/>- 0.260<br/>- 0.314<br/>- 0.260<br/>- 0.34<br/>- 0.154<br/>- 0.07<br/>- 0.07<br/>-</td><td>Not1<br/>Polysons as<br/>Polyson Joint 2<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Harb</li> <li>Polyconscience</li> <li< td=""><td>Herb           Finance           Banace           Banace           10</td><td>Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0<td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:30:30           2011           2011           0</td><td>Herb           Fublaces           Sublaces           Su</td><td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></li<></ul></td></li<></ul></td></tr>
<tr><td>40000<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10114<br/>10</td><td>functional group           rannity           Code           pater           pater           A002           A003           A004           A005           A005           A001           A011           A012           A013           A014           A015           A026           A027           A030           A040           A045           A045           A045           A045           B057           B058           B057           B056           B057           B058           B059           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           &lt;</td><td>p heth<br/>Papayerscase<br/>Papayer systemen<br/>2018 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Piantaginacea           Linvit           Linvit           i Linvit           2018_F           0     <!--</td--><td><ul> <li>k)</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Bantspinoces</li> <li>Bantspinoces</li></ul></td><td>harb<br/>Plantsginacu<br/>Plantsginacu<br/>Plantsginacu<br/>Plantsginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>IPIntaginaceae</li> <li>Veranic</li> <li>2018_F,H</li> <li>4.0.033</li> <li>0</li> <li>0<!--</td--><td>h th<br/>Fishtspinscase<br/>Varaf<br/>2013_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0</td><td>Neth<br/>Polysons.as<br/>Polyson<br/>2013_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0         0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face
Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></li></ul></td></td></tr> <tr><td>40000<br/>41100<br/>41100<br/>4100<br/>4100<br/>4100<br/>4100<br/>4</td><td>Functional group           Family           Code           searce           searce           A002           A003           A004           A005           A010           A011           A012           A013           A014           A020           A021           A020           A021           A022           A023           A042           A042           B054           B055           B056           B057           B058           B059           B050           B051           B052           B053           B054           B057           B058           B059           B050           B051           B052           B053           B054           B055           B056           B057           B058           B059           B050           B051           B052</td><td>p helb<br/>Papary rocase<br/>Papary Jennon<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginacea<br/>Linvit<br/>2013</td><td><ul> <li>Instance</li> <li>Plantaginaceia</li> <li>Plantaginaceia</li> <li>Plantaginaceia</li> <li>Diantaginaceia</li> <li>Diantaginaceia</li></ul></td><td>harb<br/>Plansed<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planses<br/>planse</td><td>herb<br/>as Planta, arenas<br/>2015_7, H<br/>- 4-0, 033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>htb           First spaces           Varad           is           2013_5           0      <tr< td=""><td>heb           Yaraha           Yaraha           Yaraha           1012_E.F.G.H           -0.137           -0.134           -0.334           -0.334           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.340           -0.341           -0.342           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.344           -0.345           -0.345           -0.345           -0.345           <td< td=""><td>het<br/>Polysons as<br/>Polysons Joint<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul></td><td>Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42      <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape          
SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle          
addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr><tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043          
-0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr><tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar           IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett           Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060        
  B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li>
<li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr><tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr></td></td<></td></tr<></td></tr> | p helb<br>Papayerscase<br>Papayer systemmon<br>2012 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | hetb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | <ul> <li>keib</li> <li>Plantspincesa</li> <li>Plantspincesa</li> <li>Plantspincesa</li> <li>auterspincesa</li> <li>auterspincesa<td>harb<br/>Plantsdinacu<br/>Plantsdinacu<br/>Plantsdinacu<br/>Plantsdinacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb     herb     herb     yearv     Venni     2012_5     102_5     0</td><td>h th<br/>Fissing a case<br/>Verand<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>Plansgnacca<br/>Vartb<br/>Vartb<br/>2012_EF,6,1<br/>-0.137<br/>-0.137<br/>-0.154<br/>-0.260<br/>-0.34<br/>-0.34<br/>-0.154<br/>-0.07<br/>-0.07<br/>-0.154<br/>-0.07<br/>-0.154<br/>-0.07<br/>-0.154<br/>-0.02<br/>-0.20<br/>-0.155<br/>-0.20<br/>-0.155<br/>-0.20<br/>-0.155<br/>-0.22<br/>-0.220<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.22<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.22<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-</td><td>Neth<br/>Polysons as<br/>Polyson<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomacc</td><td>Herb           I         Panacr         Panacr           IS         Panacr         0.177           -0.25         -0.25         -0.25           -0.062         -0.062         -0.012           -0.077         -0.061         -0.07           -0.010         -0.071         -0.061           -0.071         -0.061         -0.071           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.012         -0.012         -0.011           -0.012         -0.012         -0.012           -0.012         -0.012         -0.012</td><td><ul> <li>bef)</li> <li>Famopara</li> <li>Caller of a manufactura year</li> <li>2013 € F, G</li> <li>0</li> <li>0<td>herð<br/>Forscas<br/>Potrap<br/>2013_6/<br/>2013_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Facaca<br/>Sapar<br/>2012 E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>Subiaces<br/>a Calum_moltque<br/>a Calum_moltque<br/>a
Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calumation<br/>a C</td><td><ul> <li>herb</li> <li>Зарілбасава</li> <li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul></td></li></ul></td></li></ul> | harb<br>Plantsdinacu<br>Plantsdinacu<br>Plantsdinacu<br>Plantsdinacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb     herb     herb     yearv     Venni     2012_5     102_5     0  
   | h th<br>Fissing a case<br>Verand<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   |
heb<br>Plansgnacca<br>Vartb<br>Vartb<br>2012_EF,6,1<br>-0.137<br>-0.137<br>-0.154<br>-0.260<br>-0.34<br>-0.34<br>-0.154<br>-0.07<br>-0.07<br>-0.154<br>-0.07<br>-0.154<br>-0.07<br>-0.154<br>-0.02<br>-0.20<br>-0.155<br>-0.20<br>-0.155<br>-0.20<br>-0.155<br>-0.22<br>-0.220<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.22<br>-0.21<br>-0.21<br>-0.21<br>-0.22<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-   
   
   
   
   
   
   
   
   | Neth<br>Polysons as<br>Polyson<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |
Herb<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomacc  | Herb           I         Panacr         Panacr           IS         Panacr         0.177           -0.25         -0.25         -0.25           -0.062         -0.062         -0.012           -0.077         -0.061         -0.07           -0.010         -0.071         -0.061           -0.071         -0.061         -0.071           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.012         -0.012         -0.011           -0.012         -0.012         -0.012           -0.012         -0.012         -0.012   
   
   
   
   
   
   
   
   
  | <ul> <li>bef)</li> <li>Famopara</li> <li>Caller of a manufactura year</li> <li>2013 € F, G</li> <li>0</li> <li>0<td>herð<br/>Forscas<br/>Potrap<br/>2013_6/<br/>2013_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Facaca<br/>Sapar<br/>2012 E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>Subiaces<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calumation<br/>a C</td><td><ul> <li>herb</li> <li>Зарілбасава</li> <li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul></td></li></ul>   | herð<br>Forscas<br>Potrap<br>2013_6/<br>2013_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Facaca<br>Sapar<br>2012 E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Fubiaces<br>Subiaces<br>a Calum_moltque<br>a Calum_moltque<br>a Calum_moltque<br>a Calum_moltque<br>a Calum_moltque<br>a Calumation<br>a C  | <ul> <li>herb</li>
<li>Зарілбасава</li> <li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul>  | наме     1011 н   | functional group<br>ramity<br>Cades<br>reason<br>plot<br>Ad002<br>Ad005<br>Ad005<br>Ad005<br>Ad005<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad0 | D heth<br>Paparetacase<br>Paparetacase<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0       | Herb           Plantaginacea           Linvit           itinitia           2018_F           0 <td>ks         Flantspinscell           Plantspinscell         Plantspinscell           2012_EF.0.4         0           0         0.015           0.021         0.031      <tr< td=""><td>herb<br/>Flansginacci<br/>Plansginacci<br/>Plansginacci<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td><td>herb<br/>as Plantstauccaa<br/>Virtanor<br/>Virtanor<br/>2018F.H<br/>d.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>htb           Plantparsese           Varadi           source           2013_5           0</td><td>hetb<br/>Plantsgnaccas<br/>Var(h)<br/>2012_EF, 6, Homesef<br/>2012_EF, 6,
Homesef<br/>-0.159<br/>-0.154<br/>-0.029<br/>-0.029<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021</td><td>heb<br/>Polyprocess<br/>Folky<br/>2011_F<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface         Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr<></td> | ks         Flantspinscell           Plantspinscell         Plantspinscell           2012_EF.0.4         0           0         0.015           0.021         0.031 <tr< td=""><td>herb<br/>Flansginacci<br/>Plansginacci<br/>Plansginacci<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td><td>herb<br/>as Plantstauccaa<br/>Virtanor<br/>Virtanor<br/>2018F.H<br/>d.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>htb           Plantparsese           Varadi           source           2013_5           0</td><td>hetb<br/>Plantsgnaccas<br/>Var(h)<br/>2012_EF, 6, Homesef<br/>2012_EF, 6,
Homesef<br/>-0.159<br/>-0.154<br/>-0.029<br/>-0.029<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021</td><td>heb<br/>Polyprocess<br/>Folky<br/>2011_F<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface         Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr<> | herb<br>Flansginacci<br>Plansginacci<br>Plansginacci<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10                 | herb<br>as Plantstauccaa<br>Virtanor<br>Virtanor<br>2018F.H<br>d.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | htb           Plantparsese           Varadi           source           2013_5           0 | hetb<br>Plantsgnaccas<br>Var(h)<br>2012_EF, 6, Homesef<br>2012_EF, 6,
Homesef<br>-0.159<br>-0.154<br>-0.029<br>-0.029<br>-0.029<br>-0.021<br>-0.021<br>-0.029<br>-0.021<br>-0.021<br>-0.029<br>-0.154<br>-0.029<br>-0.154<br>-0.029<br>-0.154<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021 | heb<br>Polyprocess<br>Folky<br>2011_F<br>2011_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonacc | <ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface         Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul>   | Interface         Interface           Interface         Interface | herð<br>Parses<br>Parse<br>2015_6,H<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herk<br>Faraces<br>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,  | herb<br>Fubiocos<br>2012_5.7.5.H<br>2012_5.7.5.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | hetb<br>Sapindacasa<br>Acaspe<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      |
40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>4100000000 | Functional group           Family           Code           polet           rescript           rescript           A002           A003           A004           A010           A011           A012           A013           A014           A020           A013           A014           A020           A031           A020           A042           A042           A045           B054           B055           B056           B057           B058           B057           B058           B057           B058           B057           B057           B058           B059           B050           B051           B052           B053           B054           B055           B056           B057           B058           B059           B051           B052           B053 | p helb<br>Papare Jacense<br>Papare Jacense<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb<br>Plantaginacea<br>Linvit<br>2013<br>2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | kr     k     k     k     k     k | harb<br>Planed<br>Planed<br>13 Plantaginace<br>Planed<br>14 Plantaginace<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | beb<br>beb<br>se Fjontgaccae<br>2018_5, press<br>2018_5, press<br>201 | btb           Firstspicess           Verad           5           2013_5           0    
      0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0 <tr< td=""><td>Heth<br/>Varcha<br/>Varcha<br/>2012_E.F.G.H<br/>-0.177<br/>-0.169<br/>-0.139<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.345<br/>-0.354<br/>-0.354<br/>-0.354<br/>-0.355<br/>-0.229<br/>-0.229<br/>-0.235<br/>-0.235<br/>-0.235<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.25<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25</td><td>het<br/>Polysons Joint<br/>Polysons Joint<br/>2011 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Polyconscene</li> <li>Fourses</li> <li>stumacs</li> <li>stumacs</li></ul></td><td>Herb           I         Panarr         Panarr           ID         Panarr         1012_EF.6.H           ID         ID         ID           ID         ID         ID      <tr< td=""><td>Ief)         Isomerical and a set of a set</td><td>herð<br/>Roscas<br/>Potep<br/>12 Potep<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>нин<br/>Базаар<br/>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,</td><td>herb<br/>Fubisces<br/>2012_E,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindecase<br/>Acespe<br/>(a) Acespe<br/>2018_EF,9,H<br/>(a) 0<br/>(a) 0<br/>(a) 0<br/>(b) 0<br/>(c) 0<br/>(</td></tr<></td></tr<> | Heth<br>Varcha<br>Varcha<br>2012_E.F.G.H<br>-0.177<br>-0.169<br>-0.139<br>-0.334<br>-0.334<br>-0.334<br>-0.345<br>-0.354<br>-0.354<br>-0.354<br>-0.355<br>-0.229<br>-0.229<br>-0.235<br>-0.235<br>-0.235<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.25<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25 | het<br>Polysons Joint<br>Polysons Joint<br>2011 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>herb</li> <li>Polyconscene</li> <li>Fourses</li> <li>stumacs</li> <li>stumacs</li></ul>   | Herb           I         Panarr         Panarr           ID         Panarr         1012_EF.6.H           ID         ID         ID           ID         ID         ID <tr< td=""><td>Ief)         Isomerical and a set of a set</td><td>herð<br/>Roscas<br/>Potep<br/>12 Potep<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>нин<br/>Базаар<br/>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,</td><td>herb<br/>Fubisces<br/>2012_E,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindecase<br/>Acespe<br/>(a) Acespe<br/>2018_EF,9,H<br/>(a) 0<br/>(a) 0<br/>(a) 0<br/>(b) 0<br/>(c) 0<br/>(</td></tr<> | Ief)         Isomerical and a set of a set | herð<br>Roscas<br>Potep<br>12 Potep<br>2012_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | нин<br>Базаар<br>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,   
  | herb<br>Fubisces<br>2012_E,F,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Sapindecase<br>Acespe<br>(a) Acespe<br>2018_EF,9,H<br>(a) 0<br>(a) 0<br>(a) 0<br>(b) 0<br>(c) 0<br>( | 40000<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012 | functional group           family           Code           pace           pace           A002           A003           A004           A010           A010           A011           A012           A013           A014           A025           A020           A021           A020           A021           A022           A023           A024           A043           A045           B046           B047           B048           B049           B049           B047           B048           B047           B048           B047           B048           B049           B057           B057           B058           B057           B057           B057           B057           B057           B057           B057           B057           B057           B057      | p helb<br>Papares Jeremon<br>2010 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | harb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>keib</li> <li>Plantspinscene</li> <li>Plantspinscene</li> <li>Plantspinscene</li> <li>Diattspinscene</li> <li< td=""><td>harb<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• herb<br/>• e Flatta, promas<br/>2012_5, 4<br/>-0.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>h th<br/>Fissing access<br/>Verand<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>Plansgnacca<br/>Varta<br/>Varta<br/>2012_EF,6,1<br/>- 0.137<br/>- 0.137<br/>- 0.159<br/>- 0.260<br/>- 0.314<br/>- 0.260<br/>- 0.34<br/>- 0.154<br/>- 0.07<br/>- 0.07<br/>-</td><td>Not1<br/>Polysons as<br/>Polyson Joint 2<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Harb</li> <li>Polyconscience</li> <li< td=""><td>Herb           Finance           Banace           Banace           10</td><td>Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0<td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:30:30           2011           2011           0     
     0           0</td><td>Herb           Fublaces           Sublaces           Su</td><td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></li<></ul></td></li<></ul> | harb<br>Planta gina ca<br>Planta gina ca<br>Planta gina ca<br>Planta gina ca<br>Planta gina ca<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | • herb<br>• e Flatta, promas<br>2012_5, 4<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | h th<br>Fissing access<br>Verand<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | heb<br>Plansgnacca<br>Varta<br>Varta<br>2012_EF,6,1<br>- 0.137<br>- 0.137<br>- 0.159<br>- 0.260<br>- 0.314<br>- 0.260<br>- 0.34<br>- 0.154<br>- 0.07<br>- | Not1<br>Polysons as<br>Polyson Joint 2<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>Harb</li> <li>Polyconscience</li> <li< td=""><td>Herb           Finance           Banace           Banace           10</td><td>Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0<td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:30:30           2011           2011           0</td><td>Herb           Fublaces           Sublaces           Su</td><td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></li<></ul> | Herb           Finance           Banace           Banace           10   | Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0 <td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>Nerk           F0:30:30           2011           2011           0</td> <td>Herb           Fublaces           Sublaces           Su</td> <td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> | herð<br>Forscas<br>Potes<br>2012_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Nerk           F0:30:30           2011           2011           0   | Herb           Fublaces           Sublaces           Su | herb<br>Sapindraaa<br>Acespa<br>Acespa<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
40000<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10 | functional group           rannity           Code           pater           pater           A002           A003           A004           A005           A005           A001           A011           A012           A013           A014           A015           A026           A027           A030           A040           A045           A045           A045           A045           B057           B058           B057           B056           B057           B058           B059           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           <   
   | p heth<br>Papayerscase<br>Papayer systemen<br>2018 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Piantaginacea           Linvit           Linvit           i Linvit           2018_F           0 </td <td><ul> <li>k)</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Bantspinoces</li> <li>Bantspinoces</li></ul></td> <td>harb<br/>Plantsginacu<br/>Plantsginacu<br/>Plantsginacu<br/>Plantsginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td><ul> <li>herb</li> <li>IPIntaginaceae</li> <li>Veranic</li> <li>2018_F,H</li> <li>4.0.033</li> <li>0</li> <li>0<!--</td--><td>h th<br/>Fishtspinscase<br/>Varaf<br/>2013_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0</td><td>Neth<br/>Polysons.as<br/>Polyson<br/>2013_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0        
0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></li></ul></td> | <ul> <li>k)</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Bantspinoces</li> <li>Bantspinoces</li></ul> | harb<br>Plantsginacu<br>Plantsginacu<br>Plantsginacu<br>Plantsginacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0           | <ul> <li>herb</li> <li>IPIntaginaceae</li> <li>Veranic</li> <li>2018_F,H</li> <li>4.0.033</li> <li>0</li> <li>0<!--</td--><td>h th<br/>Fishtspinscase<br/>Varaf<br/>2013_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0</td><td>Neth<br/>Polysons.as<br/>Polyson<br/>2013_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0         0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></li></ul> | h th<br>Fishtspinscase<br>Varaf<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0 | Neth<br>Polysons.as<br>Polyson<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonacc | <ul> <li>Herb</li> <li>Fanarculscate</li>
<li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0         0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul> | bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0             | herð<br>Parses<br>2012.6,H<br>2012.6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herk Faraces Face Face Face Face Face Face Face Face  | herb<br>Fubiocos<br>Fubiocos<br>20116_5.6.4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | hetb<br>Sapindacasa<br>Acaspe<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | 40000<br>41100<br>41100<br>4100<br>4100<br>4100<br>4100<br>4   | Functional group           Family           Code           searce           searce           A002           A003           A004           A005           A010           A011           A012           A013           A014           A020           A021           A020           A021           A022           A023           A042           A042           B054           B055           B056           B057           B058           B059           B050           B051           B052           B053           B054           B057           B058           B059           B050           B051           B052           B053           B054           B055           B056           B057           B058           B059           B050           B051           B052             | p helb<br>Papary rocase<br>Papary Jennon<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb<br>Plantaginacea<br>Linvit<br>2013  | <ul> <li>Instance</li> <li>Plantaginaceia</li> <li>Plantaginaceia</li> <li>Plantaginaceia</li> <li>Diantaginaceia</li> <li>Diantaginaceia</li></ul> |
harb<br>Plansed<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planse | herb<br>as Planta, arenas<br>2015_7, H<br>- 4-0, 033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | htb           First spaces           Varad           is           2013_5           0 <tr< td=""><td>heb           Yaraha           Yaraha           Yaraha           1012_E.F.G.H           -0.137           -0.134           -0.334           -0.334           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.340           -0.341           -0.342           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.344           -0.345           -0.345           -0.345           -0.345           <td< td=""><td>het<br/>Polysons as<br/>Polysons Joint<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul></td><td>Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42      <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape           SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001          
0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr><tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134  
        -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr><tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar           IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett          
Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces          
S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr><tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0         
 0           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr></td></td<></td></tr<> | heb           Yaraha           Yaraha           Yaraha           1012_E.F.G.H           -0.137           -0.134           -0.334           -0.334           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.340           -0.341           -0.342           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.344           -0.345           -0.345           -0.345           -0.345 <td< td=""><td>het<br/>Polysons as<br/>Polysons Joint<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul></td><td>Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42      <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape           SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.001           0.001    
      0.001           0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr><tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013
5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr><tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar          
IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett           Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces          
S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr><tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0         
 0           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr></td></td<> | het<br>Polysons as<br>Polysons Joint<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | <ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul> | Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42 <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape           SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr> <tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting
Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr> <tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135  
        -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr> <tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar           IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett           Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr>
<tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr>
<tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr> <tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0       
   0           0           0           0           0           0           0           0           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr> | Int         Int           Int | herð<br>Parses<br>Parses<br>2012_0,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Herk           Facaca           SapeT           SapeTape           SapeTap | herb<br>Fubisces<br>2012_0,F,6,H<br>2012_0,F,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Spinforceae<br>Accepte<br>Accepte<br>2018_LF,9,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>410000<br>410000<br>410000<br>410000<br>41000000<br>410000000000                    | functional grow<br>family<br>Cade<br>acade<br>acade<br>acade<br>A002<br>A003<br>A005<br>A005<br>A005<br>A005<br>A010<br>A010<br>A010<br>A010   | p helb<br>Papaverscase<br>Papaverscase<br>Papaverscase<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | harb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001<  
                      | harb<br>Plantaginacs<br>Plantaginacs<br>12<br>Plantage.med<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul> | h th<br>Fisting Scate<br>Verat<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338     | Not1<br>Polypores.as<br>Polari<br>2013 <u>F</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul>   
   | <ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul> | Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0  | herð<br>Forscas<br>Potep<br>2012,6,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0   | Herb           Fublaces           Sublaces           addism_mostle           addism_mostle | herb<br>Spinforcase<br>Acespe<br>2013_EF,9,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40000<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10 | functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054 | p helb<br>Papare Jacense<br>Papare Jacense<br>2012 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Heib           Plantaginacea           Linvit           i Linvit <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0 
   0     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<> | <ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul> | harb<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0 
   0     0 | b 45<br>Fisstapios case<br>Vesta<br>2013 5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135 | Neth           Polyson           2011_E           0 | Herb<br>Polycena c.a.e.<br>Polycena c.a.e. | <ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul> | In Farmery         0           2011 ≤ F.G.         0           0 | herb<br>Parses<br>Parses<br>2012_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043< | herb<br>Fubiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subioco | hetb<br>Spindacese<br>Actope<br>2012 | 2011, J<br>2011, J<br>201 | Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055 | p helb<br>Papare: Papare:<br>Papare: Papare:<br>Papare: Papare:<br>Papare: Papare:<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb<br>Plantaginaces<br>Linvit<br>2018_F<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul> | harb<br>Plansed<br>planses_med<br>2012_f, 6, 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | heb<br>as Planta, acents<br>2015_7, H<br>ace, 0, 03<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | bib           Plantpacess           Varad           is           2015_5           0 | heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341< | het<br>Polyparsen, jotalin<br>Polyparsen, jotalin<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul> | Herb           IPanar           IPa |  | herb<br>Roscas<br>Potep<br>2012_6H<br>2012_6H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Herk           Faces           Sayett           Sayet | herb<br>Fubiocos<br>2012.0 |
herb<br>Sapindacase<br>Acaspe<br>2012.E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40000<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100 | functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075 <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<> | p helb<br>Papares Argeneous<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | harb<br>Plantaginacea<br>Linvit<br>2013<br>2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021< | harb<br>Planta glascs:<br>Planta glascs:<br>Plantage.med<br>10<br>Plantage.med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul> | http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0 | heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335          
-0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339 | het<br>Polysonson Polosian<br>Polyson Polosian<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul> | Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10 | Int         Intercentary and a second | herb<br>Roscas<br>Potep<br>2015_6.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Nerk           Fasters           Staters           St | Harb           Fublaces           Sublaces           S | herb<br>Spinforcase<br>Acespe<br>2018_EF.9.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>410000<br>410000<br>410000<br>410000000<br>410000000000 | functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057 <tr td=""></tr> | p helb<br>Papares Jeremon<br>2010 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | harb<br>Plantaginacea<br>Linvit<br>2012_F<br>2012_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>Instantional and and and and and and and and and and</li></ul> | harb<br>Planta<br>Planta<br>Planta<br>Plantaginaca<br>Plantaginaca<br>Plantaginaca<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | • <b>h</b> +b<br>• • Finite Spaceae<br>Verant<br>Verant<br>2 010_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | bib           Fisionationationationationationationationat | heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155 <td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td> <td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td> <td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td> <td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td> <td>Herb           Fublaces           Sublaces           Su</td> <td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> | Neth<br>Polysons as<br>Polyson Jointin<br>2013 E<br>0 10 J E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul> | <ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul> | Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I | herð<br>Forscas<br>Potes<br>2012_0H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20 | Herb           Fublaces           Sublaces           Su | hetb<br>Spindacesa<br>Actope<br>2012 E.F.G H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4, | functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot | p hell<br>Papare Jacense<br>Papare Jacense<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Heib           Plantaginacea           Linvit           uitarit           2018_F           0 | Instagination           Instagination | Herb<br>Plansd<br>Plansd<br>Plansd<br>Plansd<br>Plansd<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul> | bib           Plantpacese           Varad           is           Stants_vents           2013_5           0 <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td> <td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td> | heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335 | het<br>Polyprose,<br>Polyprose,<br>2011_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052 </td <td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td> <td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td> | <ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul> | Interface           Interface <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff          
Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<> | herb<br>Parses<br>Parses<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Herk           Facace           Sayaff           Saya | herb<br>Fubiocse<br>2012_E.F.G.H<br>2013_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | hetb<br>Spindarese<br>Actope<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| p helb<br>Papayerscase<br>Papayer systemmon<br>2012 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | hetb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | <ul> <li>keib</li> <li>Plantspincesa</li> <li>Plantspincesa</li> <li>Plantspincesa</li> <li>auterspincesa</li> <li>auterspincesa<td>harb<br/>Plantsdinacu<br/>Plantsdinacu<br/>Plantsdinacu<br/>Plantsdinacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb     herb     herb     yearv     Venni     2012_5     102_5     0    
0     0</td><td>h th<br/>Fissing a case<br/>Verand<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>Plansgnacca<br/>Vartb<br/>Vartb<br/>2012_EF,6,1<br/>-0.137<br/>-0.137<br/>-0.154<br/>-0.260<br/>-0.34<br/>-0.34<br/>-0.154<br/>-0.07<br/>-0.07<br/>-0.154<br/>-0.07<br/>-0.154<br/>-0.07<br/>-0.154<br/>-0.02<br/>-0.20<br/>-0.155<br/>-0.20<br/>-0.155<br/>-0.20<br/>-0.155<br/>-0.22<br/>-0.220<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.22<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.22<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-0.21<br/>-</td><td>Neth<br/>Polysons as<br/>Polyson<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomaccae<br/>Polycomacc</td><td>Herb           I         Panacr         Panacr           IS         Panacr         0.177           -0.25         -0.25         -0.25           -0.062         -0.062         -0.012           -0.077         -0.061         -0.07           -0.010         -0.071         -0.061           -0.071         -0.061         -0.071           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.012         -0.012         -0.011           -0.012         -0.012         -0.012           -0.012         -0.012         -0.012</td><td><ul> <li>bef)</li> <li>Famopara</li> <li>Caller of a manufactura year</li> <li>2013 € F, G</li> <li>0</li> <li>0<td>herð<br/>Forscas<br/>Potrap<br/>2013_6/<br/>2013_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Facaca<br/>Sapar<br/>2012 E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>Subiaces<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calumation<br/>a C</td><td><ul> <li>herb</li> <li>Зарілбасава</li> <li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul></td></li></ul></td></li></ul> | harb<br>Plantsdinacu<br>Plantsdinacu<br>Plantsdinacu<br>Plantsdinacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | herb     herb     herb     yearv     Venni     2012_5     102_5     0   
   
   | h th<br>Fissing a case<br>Verand<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | heb<br>Plansgnacca<br>Vartb<br>Vartb<br>2012_EF,6,1<br>-0.137<br>-0.137<br>-0.154<br>-0.260<br>-0.34<br>-0.34<br>-0.154<br>-0.07<br>-0.07<br>-0.154<br>-0.07<br>-0.154<br>-0.07<br>-0.154<br>-0.02<br>-0.20<br>-0.155<br>-0.20<br>-0.155<br>-0.20<br>-0.155<br>-0.22<br>-0.220<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.22<br>-0.21<br>-0.21<br>-0.21<br>-0.22<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-0.21<br>-   
   | Neth<br>Polysons as<br>Polyson<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | Herb<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomaccae<br>Polycomacc  
   
   
   
   
   
   
   
  | Herb           I         Panacr         Panacr           IS         Panacr         0.177           -0.25         -0.25         -0.25           -0.062         -0.062         -0.012           -0.077         -0.061         -0.07           -0.010         -0.071         -0.061           -0.071         -0.061         -0.071           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.071         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.011         -0.011         -0.011           -0.012         -0.012         -0.011           -0.012         -0.012         -0.012           -0.012         -0.012         -0.012 | <ul> <li>bef)</li> <li>Famopara</li> <li>Caller of a manufactura year</li> <li>2013 € F, G</li> <li>0</li> <li>0<td>herð<br/>Forscas<br/>Potrap<br/>2013_6/<br/>2013_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Facaca<br/>Sapar<br/>2012 E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Fubiaces<br/>Subiaces<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calum_moltque<br/>a Calumation<br/>a C</td><td><ul> <li>herb</li> <li>Зарілбасава</li>
<li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul></td></li></ul> | herð<br>Forscas<br>Potrap<br>2013_6/<br>2013_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   | herb<br>Facaca<br>Sapar<br>2012 E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | herb<br>Fubiaces<br>Subiaces<br>a Calum_moltque<br>a Calum_moltque<br>a Calum_moltque<br>a Calum_moltque<br>a Calum_moltque<br>a Calumation<br>a C  | <ul> <li>herb</li> <li>Зарілбасава</li> <li>Асегра</li> <li>Асегра</li> <li>Асегра</li> <li>О</li> <li>0</li> <li>0</li></ul>  |   |  
   |   |   |   |   
   |   
   |  |  |   | | |
   |  |  |   |   |  |  
  |  |   |  |   |  |   
   
  |  |   |   |   
  |  
   |   |  |  | | | | |
   |   |  |   |  |   
   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   |  |  |   
   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  |   
   |   |   |  |   |  |  |  |  |   |  
   |   |   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   | | | |
  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  |   |   |   
   
  |   |   |   |   |  |   | | | | | | | | | | |
  |  |  |   |  |   |                                      |  
   |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |  
  |  
  |  |   |   |   |   |  |   |   |   |  | | |
   |  |   |  |   |  |  |  |  |   |   |   |   |   
  |   |   |  |   |   |  |   |   |  
   |  |  |  |   |   |  |   
   |   |  |   |   |  
   |   |   |   |  |
| наме     1011 н  | functional group<br>ramity<br>Cades<br>reason<br>plot<br>Ad002<br>Ad005<br>Ad005<br>Ad005<br>Ad005<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad010<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad02<br>Ad0   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | D heth<br>Paparetacase<br>Paparetacase<br>2018_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | Herb           Plantaginacea           Linvit           itinitia           2018_F           0 <td>ks         Flantspinscell           Plantspinscell         Plantspinscell           2012_EF.0.4         0           0         0.015           0.021         0.031      <tr< td=""><td>herb<br/>Flansginacci<br/>Plansginacci<br/>Plansginacci<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td><td>herb<br/>as Plantstauccaa<br/>Virtanor<br/>Virtanor<br/>2018F.H<br/>d.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>htb           Plantparsese           Varadi           source           2013_5           0</td><td>hetb<br/>Plantsgnaccas<br/>Var(h)<br/>2012_EF, 6, Homesef<br/>2012_EF, 6,
Homesef<br/>-0.159<br/>-0.154<br/>-0.029<br/>-0.029<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021</td><td>heb<br/>Polyprocess<br/>Folky<br/>2011_F<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface         Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr<></td>   
   | ks         Flantspinscell           Plantspinscell         Plantspinscell           2012_EF.0.4         0           0         0.015           0.021         0.031 <tr< td=""><td>herb<br/>Flansginacci<br/>Plansginacci<br/>Plansginacci<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10<br/>10</td><td>herb<br/>as Plantstauccaa<br/>Virtanor<br/>Virtanor<br/>2018F.H<br/>d.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>htb           Plantparsese           Varadi           source           2013_5           0</td><td>hetb<br/>Plantsgnaccas<br/>Var(h)<br/>2012_EF, 6, Homesef<br/>2012_EF, 6, Homesef<br/>-0.159<br/>-0.154<br/>-0.029<br/>-0.029<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.021<br/>-0.021<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.029<br/>-0.154<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021<br/>-0.021</td><td>heb<br/>Polyprocess<br/>Folky<br/>2011_F<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface         Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr<>  
  | herb<br>Flansginacci<br>Plansginacci<br>Plansginacci<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | herb<br>as Plantstauccaa<br>Virtanor<br>Virtanor<br>2018F.H<br>d.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | htb           Plantparsese           Varadi           source           2013_5           0  
   
   
   
   
   
   
   
   
  | hetb<br>Plantsgnaccas<br>Var(h)<br>2012_EF, 6, Homesef<br>2012_EF, 6, Homesef<br>-0.159<br>-0.154<br>-0.029<br>-0.029<br>-0.029<br>-0.021<br>-0.021<br>-0.029<br>-0.021<br>-0.021<br>-0.029<br>-0.154<br>-0.029<br>-0.154<br>-0.029<br>-0.154<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021<br>-0.021  
   
   
   
   
   
   
   
   
   | heb<br>Polyprocess<br>Folky<br>2011_F<br>2011_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonacc  | <ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>2015_EF.9.M</li> <li>4.2.255</li> <li>0</li> <li>0.021</li> <li>0.021</li> <li>0.021</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.027</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0.021</li> <li>0</li> <li>0<td>Interface         Interface           Interface         Interface</td><td>herð<br/>Parses<br/>Parse<br/>2015_6,H<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk<br/>Faraces<br/>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
4,</td><td>herb<br/>Fubiocos<br/>2012_5.7.5.H<br/>2012_5.7.5.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul>  
   
   
   
   
   
   
   
  | Interface         Interface   | herð<br>Parses<br>Parse<br>2015_6,H<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | herk<br>Faraces<br>2010/10, 5, 6, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,   | herb<br>Fubiocos<br>2012_5.7.5.H<br>2012_5.7.5.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | hetb<br>Sapindacasa<br>Acaspe<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  |   |   |   |  
  |  
  |  |  |   | | | |
  |  |  |   |   |  |   |   
  |   |  |   |  |  
   
   |  |   |   |  
   |  |  
  |  |  | | | | | |
  |   |  |   |  |  
  |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |   |  |  |  
   
  |   |  
   |  |   | | | | | | | |
   |  |   |   |  |  |  
  |   |   |  |   |  |  |  |  |   |   
  |   |  
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  | | |
  |  |  |   |  |  |  
  |   |  |   |   
   |  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   | | | | | | | | | | |
   |  |  |   |  |   |                                      |   
  |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |   
   |   
   |  |   |   |   |   |  |   |   |   |  | | |
  |  |   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |   
  |  |  |  |   |   |  |  
  |   |  |   |   |   
  |   |   |   |  |
| 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>4100000000 | Functional group           Family           Code           polet           rescript           rescript           A002           A003           A004           A010           A011           A012           A013           A014           A020           A013           A014           A020           A031           A020           A042           A042           A045           B054           B055           B056           B057           B058           B057           B058           B057           B058           B057           B057           B058           B059           B050           B051           B052           B053           B054           B055           B056           B057           B058           B059           B051           B052           B053   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papare Jacense<br>Papare Jacense<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvit<br>2013<br>2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | kr     k     k     k     k     k  
   | harb<br>Planed<br>Planed<br>13 Plantaginace<br>Planed<br>14 Plantaginace<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | beb<br>beb<br>se Fjontgaccae<br>2018_5, press<br>2018_5, press<br>201  
   | btb           Firstspicess           Verad           5           2013_5           0 <tr< td=""><td>Heth<br/>Varcha<br/>Varcha<br/>2012_E.F.G.H<br/>-0.177<br/>-0.169<br/>-0.139<br/>-0.334<br/>-0.334<br/>-0.334<br/>-0.345<br/>-0.354<br/>-0.354<br/>-0.354<br/>-0.355<br/>-0.229<br/>-0.229<br/>-0.235<br/>-0.235<br/>-0.235<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.25<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.240<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25<br/>-0.25</td><td>het<br/>Polysons Joint<br/>Polysons Joint<br/>2011 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Polyconscene</li> <li>Fourses</li> <li>stumacs</li> <li>stumacs</li></ul></td><td>Herb           I         Panarr         Panarr           ID         Panarr         1012_EF.6.H           ID         ID         ID           ID         ID         ID      <tr< td=""><td>Ief)         Isomerical and a set of a set</td><td>herð<br/>Roscas<br/>Potep<br/>12 Potep<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>нин<br/>Базаар<br/>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,</td><td>herb<br/>Fubisces<br/>2012_E,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindecase<br/>Acespe<br/>(a) Acespe<br/>2018_EF,9,H<br/>(a) 0<br/>(a) 0<br/>(a) 0<br/>(b) 0<br/>(c) 0<br/>(</td></tr<></td></tr<>  
   
   
   
   
   
   
   
   | Heth<br>Varcha<br>Varcha<br>2012_E.F.G.H<br>-0.177<br>-0.169<br>-0.139<br>-0.334<br>-0.334<br>-0.334<br>-0.345<br>-0.354<br>-0.354<br>-0.354<br>-0.355<br>-0.229<br>-0.229<br>-0.235<br>-0.235<br>-0.235<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.25<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.240<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25<br>-0.25  
   
   
   
   
   
   
   
   
  | het<br>Polysons Joint<br>Polysons Joint<br>2011 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | <ul> <li>herb</li> <li>Polyconscene</li> <li>Fourses</li> <li>stumacs</li> <li>stumacs</li></ul>  | Herb           I         Panarr         Panarr           ID         Panarr         1012_EF.6.H           ID         ID         ID           ID         ID         ID <tr< td=""><td>Ief)         Isomerical and a set of a set</td><td>herð<br/>Roscas<br/>Potep<br/>12 Potep<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>нин<br/>Базаар<br/>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,</td><td>herb<br/>Fubisces<br/>2012_E,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Sapindecase<br/>Acespe<br/>(a) Acespe<br/>2018_EF,9,H<br/>(a) 0<br/>(a) 0<br/>(a) 0<br/>(b) 0<br/>(c) 0<br/>(</td></tr<>  
   
   
   
   
   
   
   
   | Ief)         Isomerical and a set of a set  
  | herð<br>Roscas<br>Potep<br>12 Potep<br>2012_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | нин<br>Базаар<br>2011, Б. Г. (, , , , , , , , , , , , , , , , , , ,  | herb<br>Fubisces<br>2012_E,F,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | herb<br>Sapindecase<br>Acespe<br>(a) Acespe<br>2018_EF,9,H<br>(a) 0<br>(a) 0<br>(a) 0<br>(b) 0<br>(c) 0<br>( |   |   |   |  
  |  
  |  |  |   | | | | |
  |  |  |   |  
  |  |   |  |   |  |   |  |  
   
   |  |   |   |  
   |   
  |   |  | | | | |
  |   |   |  |   |  |  
  |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |   |  |   
  |  
  |   |  
   |  |   | | | | | | | | |
   |  |   |   |  |   
  |   |   |   |  |   |  |  |  |  |   |   
  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   |   |   
   |   
   
   
   
   
   
   
   
   |   |  |   |   |   | | | |
   |  |  |  |   |  |  |  
  |   |  |   |   
   |  |   |   |  |   |  |   |   |  
   
   |   |   |   |   | | | | | | | | | | | |
  |   |  |  |  |   |  |   |                                      |   
  |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |                          
   |   |   
   |  |   |   |   |   |  |   |   | | | | | | |
   |  |   |  |   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |   
  |  |  |  |   |   |  |  
  |   |  |   |   |   
  |   |   |   |  |
| 40000<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012<br>1012  | functional group           family           Code           pace           pace           A002           A003           A004           A010           A010           A011           A012           A013           A014           A025           A020           A021           A020           A021           A022           A023           A024           A043           A045           B046           B047           B048           B049           B049           B047           B048           B047           B048           B047           B048           B049           B057           B057           B058           B057   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | p helb<br>Papares Jeremon<br>2010 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
  | harb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
  | <ul> <li>keib</li> <li>Plantspinscene</li> <li>Plantspinscene</li> <li>Plantspinscene</li> <li>Diattspinscene</li> <li< td=""><td>harb<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>Planta gina ca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• herb<br/>• e Flatta, promas<br/>2012_5, 4<br/>-0.033<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>h th<br/>Fissing access<br/>Verand<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>Plansgnacca<br/>Varta<br/>Varta<br/>2012_EF,6,1<br/>- 0.137<br/>- 0.137<br/>- 0.159<br/>- 0.260<br/>- 0.314<br/>- 0.260<br/>- 0.34<br/>- 0.154<br/>- 0.07<br/>- 0.07<br/>-</td><td>Not1<br/>Polysons as<br/>Polyson Joint 2<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Harb</li> <li>Polyconscience</li> <li< td=""><td>Herb           Finance           Banace           Banace           10</td><td>Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0<td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:30:30           2011           2011           0</td><td>Herb           Fublaces           Sublaces           Su</td><td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></li<></ul></td></li<></ul>  
   | harb<br>Planta gina ca<br>Planta gina ca<br>Planta gina ca<br>Planta gina ca<br>Planta gina ca<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | • herb<br>• e Flatta, promas<br>2012_5, 4<br>-0.033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | h th<br>Fissing access<br>Verand<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heb<br>Plansgnacca<br>Varta<br>Varta<br>2012_EF,6,1<br>- 0.137<br>- 0.137<br>- 0.159<br>- 0.260<br>- 0.314<br>- 0.260<br>- 0.34<br>- 0.154<br>- 0.07<br>-   
   
   
   
   
   
   
   
  | Not1<br>Polysons as<br>Polyson Joint 2<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>Harb</li> <li>Polyconscience</li> <li< td=""><td>Herb           Finance           Banace           Banace           10</td><td>Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0<td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:30:30           2011           2011           0</td><td>Herb           Fublaces           Sublaces           Su</td><td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></li<></ul>   
   | Herb           Finance           Banace           Banace           10  
   
   
   
   
   
   
   
   | Int         Famoup           I         Famoup           2013 ≤ F.G.         0           0 <td>herð<br/>Forscas<br/>Potes<br/>2012_6/<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>Nerk           F0:30:30           2011           2011           0</td> <td>Herb           Fublaces           Sublaces           Su</td> <td>herb<br/>Sapindraaa<br/>Acespa<br/>Acespa<br/>2018_EF,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>  
   | herð<br>Forscas<br>Potes<br>2012_6/<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Nerk           F0:30:30           2011           2011           0  | Herb           Fublaces           Sublaces           Su   |
herb<br>Sapindraaa<br>Acespa<br>Acespa<br>2018_EF,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   |   
   |  |  
   |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   |   
  |  
   |   |  | | | | |
   |   |   |  |   |  
   |   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   |  |  
   |   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  
   |   |   |   |  |   |  |  |  |  |  
  |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
  |   |  
  |  
   
   
   
   
   
   
   
  |   |  |   |   |   | | | | | | | | | |
  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  
   |   |   |   
  |   |   |  
  |   |  |   |  |  |  |   |  |   
   |                                      |  |   |   |  |  |   |  |   |   |  |   |   
  |  |  |   |                            |  |   |  
  |  |   |   |   |   |  |   |   |  
  |  |   |  |   |  |   |  |  |  |  |   |   |   |   |                         
  |   |   |  |   |   |  |  
  |   |  |  |  |  |   |   |  |   
   |   |  |   |  
  |  |   |   |   |  |
| 40000<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10114<br>10   | functional group           rannity           Code           pater           pater           A002           A003           A004           A005           A005           A001           A011           A012           A013           A014           A015           A026           A027           A030           A040           A045           A045           A045           A045           B057           B058           B057           B056           B057           B058           B059           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           <   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p heth<br>Papayerscase<br>Papayer systemen<br>2018 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | Piantaginacea           Linvit           Linvit           i Linvit           2018_F           0 </td <td><ul> <li>k)</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Bantspinoces</li> <li>Bantspinoces</li></ul></td> <td>harb<br/>Plantsginacu<br/>Plantsginacu<br/>Plantsginacu<br/>Plantsginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td><ul> <li>herb</li> <li>IPIntaginaceae</li> <li>Veranic</li> <li>2018_F,H</li> <li>4.0.033</li> <li>0</li> <li>0<!--</td--><td>h th<br/>Fishtspinscase<br/>Varaf<br/>2013_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356          
-0</td><td>Neth<br/>Polysons.as<br/>Polyson<br/>2013_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0         0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></li></ul></td>  | <ul> <li>k)</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Plantspinoces</li> <li>Bantspinoces</li> <li>Bantspinoces</li></ul>   
   
  | harb<br>Plantsginacu<br>Plantsginacu<br>Plantsginacu<br>Plantsginacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>herb</li> <li>IPIntaginaceae</li> <li>Veranic</li> <li>2018_F,H</li> <li>4.0.033</li> <li>0</li> <li>0<!--</td--><td>h th<br/>Fishtspinscase<br/>Varaf<br/>2013_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356          
-0</td><td>Neth<br/>Polysons.as<br/>Polyson<br/>2013_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonaccas<br/>Polygonacc</td><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0         0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></li></ul> | h th<br>Fishtspinscase<br>Varaf<br>2013_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
  | heb           Plantsgnaccas           Vardia           Vardia           2011_E.F.G.H           -0.319           -0.329           -0.324           -0.334           0           -0.324           -0.334           0           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.354           -0.355           -0.354           -0.354           -0.355           -0.356           -0.357           -0.358           -0.356           -0.357           -0.358           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0.356           -0  
   
   
   
   
   
   
   
   
   | Neth<br>Polysons.as<br>Polyson<br>2013_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | herb<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonaccas<br>Polygonacc  | <ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate<td>bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0           0         0</td><td>herð<br/>Parses<br/>2012.6,H<br/>2012.6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herk Faraces Face Face Face Face Face Face Face Face</td><td>herb<br/>Fubiocos<br/>Fubiocos<br/>20116_5.6.4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Sapindacasa<br/>Acaspe<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul>   
   
   
   
   
   
   
   
   
  | bef)         1           1         Bannenulus, repent           10         Bannenulus, repent           2013_EF,0         0             | herð<br>Parses<br>2012.6,H<br>2012.6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herk Faraces Face Face Face Face Face Face Face Face   | herb<br>Fubiocos<br>Fubiocos<br>20116_5.6.4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | hetb<br>Sapindacasa<br>Acaspe<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  |   |   |   |  
  |  
  |  |  |   | | | |
  |  |  |   |   |  |   |   
  |   |  |   |  |  
   |                         
  |   |   |  
   |  |  
  |  |  | | | | | |
  |   |  |   |  |  
  |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |   |  |  |  
   
  |   |  
   |  |   | | | | | | | |
   |  |   |   |  |  |  
  |   |   |  |   |  |  |  |  |   |   
  |   |  
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  | | |
  |  |  |   |  |  |  
  |   |  |   |   
   |  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   | | | | | | | | | | |
   |  |  |   |  |   |                                      |   
  |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |   
   |   
   |  |   |   |   |   |  |   |   |   |  | | |
  |  |   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |   
  |  |  |  |   |   |  |  
  |   |  |   |   |  |  
  |   |   |  |
| 40000<br>41100<br>41100<br>4100<br>4100<br>4100<br>4100<br>4   | Functional group           Family           Code           searce           searce           A002           A003           A004           A005           A010           A011           A012           A013           A014           A020           A021           A020           A021           A022           A023           A042           A042           B054           B055           B056           B057           B058           B059           B050           B051           B052           B053           B054           B057           B058           B059           B050           B051           B052           B053           B054           B055           B056           B057           B058           B059           B050           B051           B052  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papary rocase<br>Papary Jennon<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | herb<br>Plantaginacea<br>Linvit<br>2013   
   
   | <ul> <li>Instance</li> <li>Plantaginaceia</li> <li>Plantaginaceia</li> <li>Plantaginaceia</li> <li>Diantaginaceia</li> <li>Diantaginaceia</li></ul>   
   | harb<br>Plansed<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planses<br>planse | herb<br>as Planta, arenas<br>2015_7, H<br>- 4-0, 033<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | htb           First spaces           Varad           is           2013_5           0 <tr< td=""><td>heb           Yaraha           Yaraha           Yaraha           1012_E.F.G.H           -0.137           -0.134           -0.334           -0.334           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.340           -0.341           -0.342           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.344           -0.345           -0.345           -0.345           -0.345           <td< td=""><td>het<br/>Polysons as<br/>Polysons Joint<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul></td><td>Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42      <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape          
SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle          
addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr><tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043          
-0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr><tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar           IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett           Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060        
  B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li>
<li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr><tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr></td></td<></td></tr<> | heb           Yaraha           Yaraha           Yaraha           1012_E.F.G.H           -0.137           -0.134           -0.334           -0.334           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.337           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.339           -0.340           -0.341           -0.342           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.343           -0.344           -0.345           -0.345           -0.345           -0.345 <td< td=""><td>het<br/>Polysons as<br/>Polysons Joint<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul></td><td>Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42        
  -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42      <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape           SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle          
addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr><tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043          
-0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr><tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar           IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett           Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr><tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060        
  B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr><tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li>
<li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr><tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr></td></td<> | het<br>Polysons as<br>Polysons Joint<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>barb</li> <li>Polyconscene</li> <li>Polyconscene&lt;</li></ul>   
   | Herb           I           Panar           IP           2012_EF.6.H           -0.25           -0.35           -0.42           -0.43           -0.41           -0.42           -0.42           -0.43           -0.42           -0.43           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42           -0.42 <tr tr="">     -0.42<td>Int         Int           Int         Int           Int</td><td>herð<br/>Parses<br/>Parses<br/>2012_0,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facaca           SapeT           SapeTape           SapeTap</td><td>herb<br/>Fubisces<br/>2012_0,F,6,H<br/>2012_0,F,6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Spinforceae<br/>Accepte<br/>Accepte<br/>2018_LF,9,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr> <tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000<br/>41000000<br/>410000000000</td><td>functional grow<br/>family<br/>Cade<br/>acade<br/>acade<br/>acade<br/>A002<br/>A003<br/>A005<br/>A005<br/>A005<br/>A005<br/>A010<br/>A010<br/>A010<br/>A010</td><td>p helb<br/>Papaverscase<br/>Papaverscase<br/>Papaverscase<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013_F<br/>2013_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001&lt;</td><td>harb<br/>Plantaginacs<br/>Plantaginacs<br/>12<br/>Plantage.med<br/>2<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul></td><td>h th<br/>Fisting Scate<br/>Verat<br/>2011_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331          
-0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338</td><td>Not1<br/>Polypores.as<br/>Polari<br/>2013 <u>F</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul></td></tr> <tr><td>40000<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10124<br/>10</td><td>functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054</td><td>p helb<br/>Papare Jacense<br/>Papare Jacense<br/>2012 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           i Linvit           <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0    
      0           0           0           0           0           0           0           0           0           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<></td></tr> <tr><td>2011, J<br/>2011, J<br/>201</td><td>Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055</td><td>p helb<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>Papare: Papare:<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb<br/>Plantaginaces<br/>Linvit<br/>2018_F<br/>2018_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul></td><td>harb<br/>Plansed<br/>planses_med<br/>2012_f, 6, 0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb<br/>as Planta, acents<br/>2015_7, H<br/>ace, 0, 03<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Plantpacess           Varad           is           2015_5           0</td><td>heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341&lt;</td><td>het<br/>Polyparsen, jotalin<br/>Polyparsen, jotalin<br/>2011_E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul></td><td>Herb           IPanar           IPa</td><td></td><td>herb<br/>Roscas<br/>Potep<br/>2012_6H<br/>2012_6H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Faces           Sayett           Sayet</td><td>herb<br/>Fubiocos<br/>2012.0</td><td>herb<br/>Sapindacase<br/>Acaspe<br/>2012.E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></tr>
<tr><td>40000<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100<br/>4,1100</td><td>functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075           <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></tr>
<tr><td>40000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>41000<br/>410000<br/>410000<br/>410000<br/>410000000<br/>410000000000</td><td>functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057      <tr td=""></tr></td><td>p helb<br/>Papares Jeremon<br/>2010 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2012_F<br/>2012_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>Instantional and and and and and and and and and and</li></ul></td><td>harb<br/>Planta<br/>Planta<br/>Planta<br/>Plantaginaca<br/>Plantaginaca<br/>Plantaginaca<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>• <b>h</b>+b<br/>• • Finite Spaceae<br/>Verant<br/>Verant<br/>2 010_5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>bib           Fisionationationationationationationationat</td><td>heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155<td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td><td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td><td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td><td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td><td>Herb           Fublaces           Sublaces           Su</td><td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></td></tr> <tr><td>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,000<br/>4,</td><td>functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot</td><td>p hell<br/>Papare Jacense<br/>Papare Jacense<br/>2013 <u>6</u><br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Heib           Plantaginacea           Linvit           uitarit           2018_F           0       
   0           0           0           0           0           0           0           0           0</td><td>Instagination           Instagination           Instagination</td><td>Herb<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>Plansd<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul></td><td>bib           Plantpacese           Varad           is           Stants_vents           2013_5           0     <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td><td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td></td></tr> | Int         Int           Int  
  | herð<br>Parses<br>Parses<br>2012_0,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Herk           Facaca           SapeT           SapeTape           SapeTap  | herb<br>Fubisces<br>2012_0,F,6,H<br>2012_0,F,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb<br>Spinforceae<br>Accepte<br>Accepte<br>2018_LF,9,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>410000<br>410000<br>410000<br>410000<br>41000000<br>410000000000 | functional grow<br>family<br>Cade<br>acade<br>acade<br>acade<br>A002<br>A003<br>A005<br>A005<br>A005<br>A005<br>A010<br>A010<br>A010<br>A010  | p helb<br>Papaverscase<br>Papaverscase<br>Papaverscase<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | harb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001<   
   | harb<br>Plantaginacs<br>Plantaginacs<br>12<br>Plantage.med<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul> | h th<br>Fisting Scate<br>Verat<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338   | Not1<br>Polypores.as<br>Polari<br>2013 <u>F</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul>  
   | <ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul> | Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0   | herð<br>Forscas<br>Potep<br>2012,6,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0            | Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0 | Herb           Fublaces           Sublaces           addism_mostle           addism_mostle | herb<br>Spinforcase<br>Acespe<br>2013_EF,9,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40000<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10   | functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054     | p helb<br>Papare Jacense<br>Papare Jacense<br>2012 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | Heib           Plantaginacea           Linvit           i Linvit <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0    
0     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<> | <ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul>  | harb<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0   
   | b 45<br>Fisstapios case<br>Vesta<br>2013 5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135   | Neth           Polyson           2011_E           0 | Herb<br>Polycena c.a.e.<br>Polycena c.a.e. | <ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul>   
   | In Farmery         0           2011 ≤ F.G.         0           0  | herb<br>Parses<br>Parses<br>2012_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043< | herb<br>Fubiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subioco | hetb<br>Spindacese<br>Actope<br>2012   | 2011, J<br>2011, J<br>201   
  | Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055 | p helb<br>Papare: Papare:<br>Papare: Papare:<br>Papare: Papare:<br>Papare: Papare:<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | herb<br>Plantaginaces<br>Linvit<br>2018_F<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | <ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul>   |
harb<br>Plansed<br>planses_med<br>2012_f, 6, 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | heb<br>as Planta, acents<br>2015_7, H<br>ace, 0, 03<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | bib           Plantpacess           Varad           is           2015_5           0 | heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341<   | het<br>Polyparsen, jotalin<br>Polyparsen, jotalin<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                    | <ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul>   | Herb           IPanar           IPa |  | herb<br>Roscas<br>Potep<br>2012_6H<br>2012_6H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | Herk           Faces           Sayett           Sayet | herb<br>Fubiocos<br>2012.0                
   | herb<br>Sapindacase<br>Acaspe<br>2012.E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                       | 40000<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100  | functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075 <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<> | p helb<br>Papares Argeneous<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                | harb<br>Plantaginacea<br>Linvit<br>2013<br>2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021           0.021          
0.021           0.021<  | harb<br>Planta glascs:<br>Planta glascs:<br>Plantage.med<br>10<br>Plantage.med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul>  | http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0 | heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339       | het<br>Polysonson Polosian<br>Polyson Polosian<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | <ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul>  
   | Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10   | Int         Intercentary and a second | herb<br>Roscas<br>Potep<br>2015_6.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0    | Nerk           Fasters           Staters           St | Harb           Fublaces           Sublaces           S | herb<br>Spinforcase<br>Acespe<br>2018_EF.9.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>410000<br>410000<br>410000<br>410000000<br>410000000000 | functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057 <tr td=""></tr> | p helb<br>Papares Jeremon<br>2010 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                       | harb<br>Plantaginacea<br>Linvit<br>2012_F<br>2012_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>Instantional and and and and and and and and and and</li></ul>   | harb<br>Planta<br>Planta<br>Planta<br>Plantaginaca<br>Plantaginaca<br>Plantaginaca<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | • <b>h</b> +b<br>• • Finite Spaceae<br>Verant<br>Verant<br>2 010_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | bib           Fisionationationationationationationationat   
   
   
   
   
   
   
   
   
   | heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155 <td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td> <td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td> <td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td> <td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td> <td>Herb           Fublaces           Sublaces           Su</td> <td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>  
   
   
   
   
   
   
   
  | Neth<br>Polysons as<br>Polyson Jointin<br>2013 E<br>0 10 J E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | <ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul>   | <ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul>   
   
   
   
   
   
   
   
  | Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I   | herð<br>Forscas<br>Potes<br>2012_0H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Nerk    
      F0:20:20:20:20:20:20:20:20:20:20:20:20:20  | Herb           Fublaces           Sublaces           Su | hetb<br>Spindacesa<br>Actope<br>2012 E.F.G H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0             | 4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4, | functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot           Bot | p hell<br>Papare Jacense<br>Papare Jacense<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | Heib           Plantaginacea           Linvit           uitarit           2018_F           0 | Instagination           Instagination | Herb<br>Plansd<br>Plansd<br>Plansd<br>Plansd<br>Plansd<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0          | <ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul>   | bib           Plantpacese           Varad           is           Stants_vents           2013_5           0 <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td> <td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td> | heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335 | het<br>Polyprose,<br>Polyprose,<br>2011_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                     | berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051          
-0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052 </td <td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td> <td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td> | <ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul>   | Interface           Interface <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<> | herb<br>Parses<br>Parses<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                               | Herk           Facace           Sayaff           Saya | herb<br>Fubiocse<br>2012_E.F.G.H<br>2013_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | hetb<br>Spindarese<br>Actope<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                |  |   |   |   
   
  |   |   |   |   |  | | | | | | | | | | | |
   |  |  |  |   |  |   |                                      |  
   |   |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |  
  |  
  |  |   |   |   |   |  |   |   |   | | | | |
   |   |  |   |  |   |  |  |  |  |   |   |   |   |   
  |   |   |  |   |   |  |   |   |  
   |  |  |  |   |   |  |   
   |   |  |   |   |  
   |   |   |   |  |
| Int         Int           Int  | herð<br>Parses<br>Parses<br>2012_0,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | Herk           Facaca           SapeT           SapeTape           SapeTap  
   
  | herb<br>Fubisces<br>2012_0,F,6,H<br>2012_0,F,6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | herb<br>Spinforceae<br>Accepte<br>Accepte<br>2018_LF,9,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
  |  |   
  |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |  |  
  |  
   
   
   
   
   
   
   
  |  
  |   |  |   
   |  |   |   |   |  
  |  
  |  |   
  |   |   |  |  |  
  |   |  |   |  |   |  |   |  |  
   
   |  |   |   |  
   
   |  |   |  | | | |
  |   |   |  |   |   
  |   |   |   |  |   
  |   |  |   |   
   |   |   |  |  |  |   |  
  |  |  |  
  |   |  
   |  |   | | | | |
   |  |   |   |  |   
  |   |   |   |  |   |  |  
   |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   |   |  | | | | | | | |
  |   |   |  |  |  |  |   |  |  |  
  |   |  |   
   |   |  |   |   |  |   |   
  |   |   |  
   |   |   
             |   |   |  |   |  |  |  |   |  | | | |
  |                                      |  |   |   |  |  |   |  |   |   |  |  
  |  |  |  |   |                            |  |   |   
   |  |   |   |   |   |  
   |   |   |   |  |   |  |   |  |   |  
   |  |  |  |   |   |   |   |  |   |   |   
  |   |   |  |   |   |  |  |  |  |   |   |  |  
  |   |  |   
   |   |  |   |   |   |  |
| 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>410000<br>410000<br>410000<br>410000<br>41000000<br>410000000000  | functional grow<br>family<br>Cade<br>acade<br>acade<br>acade<br>A002<br>A003<br>A005<br>A005<br>A005<br>A005<br>A010<br>A010<br>A010<br>A010  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papaverscase<br>Papaverscase<br>Papaverscase<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | harb<br>Plantaginacea<br>Linvit<br>2013_F<br>2013_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011 E.F.C.H           0           0.000           0.011 E.F.C.H           0.001<   
   | harb<br>Plantaginacs<br>Plantaginacs<br>12<br>Plantage.med<br>2<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | <ul> <li>herb</li> <li>ter Flatting, create your of the second s</li></ul>   | h th<br>Fisting Scate<br>Verat<br>2011_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   
   
   
   
   
   
   
   | heb           Flantsquaces           Varial           Varial           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.139           -0.139           -0.334           -0.334           -0.334           -0.334           -0.337           -0.338           -0.339           -0.339           -0.331           -0.339           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.331           -0.332           -0.333           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.339           -0.334           -0.335           -0.336           -0.337           -0.338           -0.338           -0.339           -0.338   
   
   
   
   
   
   
   
   
  | Not1<br>Polypores.as<br>Polari<br>2013 <u>F</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | <ul> <li>barb</li> <li>Poissonaceae</li> <li>Poissonaceae&lt;</li></ul>   | <ul> <li>Harb</li> <li>Panarculacata</li> <li>Panarculacata<td>Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0</td><td>herð<br/>Forscas<br/>Potep<br/>2012,6,4<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0    
      0</td><td>Herb           Fublaces           Sublaces           addism_mostle           addism_mostle</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2013_EF,9,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></li></ul>  
   
   
   
   
   
   
   
  | Ief)         Isomeoluscas           Isomeoluscas         Barreş           2012 € F,0         0           0         0      0   | herð<br>Forscas<br>Potep<br>2012,6,4<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | Nerk           Fastaget           State           2011.EF.6.M           0           0           0.001           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           -0.021           0  | Herb           Fublaces           Sublaces           addism_mostle  | herb<br>Spinforcase<br>Acespe<br>2013_EF,9,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  
  |   |   |  
  |  
  |  |  |   |   |  | |
  |   |   |  |   |  |   |  
   |   |  |  
   |   
  |   |   |  
   |  |   |  
   |  |  
  |   |  |   |  |   | |
  |   |  |   
  |   |  |   |   |   |   |   
  |  |  |   |   |  |  |  
  |   |  
   
   |  |   | | | | | | | |
   |  |   |   |  |  |   |   |  
  |  |   |  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |   
  |   |  |  |   |  
  |  |   |   |   
  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   | | | | | | | | | |
   |  |  |   |  |   |                                      |  |  
          |   |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |   
     |   
   |  |   |   |   |   |  |   |   |   |  | | |
  |  |   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |  |  
   |  |  |   |   |  |   |  
  |  |   |   |  |   |   |   |                          
   |
| 40000<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10124<br>10   | functional group           rannity           Code           annity           Code           season           plot           A002           A003           A004           A010           A011           A012           A013           A014           A020           A021           A021           A022           A040           A042           B051           B052           B051           B052           B053           B054   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p helb<br>Papare Jacense<br>Papare Jacense<br>2012 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
   | Heib           Plantaginacea           Linvit           i Linvit <td< td=""><td><ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul></td><td>harb<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>Plantaginacu<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0</td><td>b 45<br/>Fisstapios case<br/>Vesta<br/>2013 5<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135</td><td>Neth           Polyson           2011_E           0</td><td>Herb<br/>Polycena c.a.e.<br/>Polycena c.a.e.</td><td><ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul></td><td>In Farmery         0           2011 ≤ F.G.         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0   
     0           0         0           0</td><td>herb<br/>Parses<br/>Parses<br/>2012_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043&lt;</td><td>herb<br/>Fubiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subiocos<br/>Subioco</td><td>hetb<br/>Spindacese<br/>Actope<br/>2012</td></td<>  | <ul> <li>k) *</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Plantspinces</li> <li>Sulfspinces</li> <li>Sulfspinces&lt;</li></ul>  
  | harb<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>Plantaginacu<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | Herb     Herb     Vernit     Vernit     Vernit     Vernit     2012     7,4     40,033     0   
  | b 45<br>Fisstapios case<br>Vesta<br>2013 5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   
   
   
   
   
   
  | heb           Plantsquaces           Varial           Varial           Varial           1011_EF,6,1           -0.137           -0.136           -0.137           -0.137           -0.137           -0.138           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.134           -0.135           -0.134           -0.134           -0.134           -0.134           -0.234           -0.234           -0.235           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135           -0.135   
   
   
   
   
   
   
   
   
   | Neth           Polyson           2011_E           0  | Herb<br>Polycena c.a.e.<br>Polycena c.a.e.   
  | <ul> <li>Herb</li> <li>Panacr</li> <li>Panacrustica.se</li> <li>2012_f.f.0.H</li> <li>2014_f.0.H</li> <li>2014_f.0.H</li></ul>   
   
   
   
   
   
   
   
  | In Farmery         0           2011 ≤ F.G.         0           0   
  | herb<br>Parses<br>Parses<br>2012_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | herb           Rosecos           2011         E,F,S,H           2011         E,F,S,H           0         0           -0,032         -0,032           -0,043         -0,043           -0,043<   |
herb<br>Fubiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subiocos<br>Subioco | hetb<br>Spindacese<br>Actope<br>2012   |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |  |  |   
   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
  |  
  |  |   |   |   |  |  |  |  |   |  |  |   
   |   |  |  
  |   |  |   |   |   
                                |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  |  |   | | | | |
   |   |                                      |  |   |   |  |  |   |  |   |  
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  |   
   |   |  |  
  |   |  |   |   |   |  |
| 2011, J<br>2011, J<br>201   | Functional grow           Family           Code           Sectors           Code           Sectors           A002           A003           A010           A011           A012           A013           A014           A015           A016           A027           A030           A026           A042           A042           A042           A042           A042           B044           B055           B064           B057           B058           B054           B057           B058           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055           B050           B051           B052           B053           B054           B055  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | p helb<br>Papare: Papare:<br>Papare: Papare:<br>Papare: Papare:<br>Papare: Papare:<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
  | herb<br>Plantaginaces<br>Linvit<br>2018_F<br>2018_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | <ul> <li>Instaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>Plantaginacia</li> <li>011 (6.00)</li> <li>0.051 (6.00)</li> <li>0.0</li></ul>   
   
  | harb<br>Plansed<br>planses_med<br>2012_f, 6, 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | heb<br>as Planta, acents<br>2015_7, H<br>ace, 0, 03<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | bib           Plantpacess           Varad           is           2015_5           0  
   
   
   
   
   
   
   
   
  | heb           Paraba           Varcha           Varcha           1012           -0.177           -0.134           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341           -0.341<  
   
   
   
   
   
   
   
   
   | het<br>Polyparsen, jotalin<br>Polyparsen, jotalin<br>2011_E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | <ul> <li>berb</li> <li>Polyconscene</li> <li>polyconscene&lt;</li></ul>   | Herb           IPanar           IPa  
   
   
   
   
   
   
   
   
   |   | herb<br>Roscas<br>Potep<br>2012_6H<br>2012_6H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   | Herk           Faces           Sayett           Sayet  | herb<br>Fubiocos<br>2012.0  | herb<br>Sapindacase<br>Acaspe<br>2012.E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   
   |   |   |   
   |   
   |  |  |   |   |  | |
   |   |   |  |   |  |   |   
  |   |  |   
  |  
   |   |   | | | | |
  |  |   |   
  |  |   |                               
   |  |   |  |   |   
   |   |  |  
   |   |  |   |   |   |   |  
   |  |  |   |   |  |  |   
   |   |   
   
  |  |   | | | | | | | |
  |  |   |   |  |  |   |   |   
   |  |   |  |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |                                     
   |  |  |   |   
   |  |   |   |  
   |   |   |  |   |  |   |   |   
   
  |   |   |   |   |  |   | | | | | | | | | |
  |  |  |   |  |   |                                      |  |   |   
               |  |  |   |  |   |   |  |   |  |  |  |   |                            |  |   |  
   
  |  |   |   |   |   |  |   |   |   |  | | |
   |  |   |  |   |  |  |  |  |   |   |   |   |   
  |   |   |  |   |   |  |   |   |  |  |  
   |  |   |   |  |   |   
   |  |   |   |  |   |   |   |  |
| 40000<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100<br>4,1100  | functional grow           family           Code           grow           Code           secon           piccon           A002           A003           A004           A010           A011           A012           A013           A014           A027           A038           A029           A040           A042           A043           A044           B045           B046           B057           B058           B059           B060           B073           B055           B060           B073           B054           B055           B060           B073           B055           B060           B071           B073           B073           B074           B075           B070           B071           B072           B073           B074           B075 <t< td=""><td>p helb<br/>Papares Argeneous<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>harb<br/>Plantaginacea<br/>Linvit<br/>2013<br/>2013<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021&lt;</td><td>harb<br/>Planta glascs:<br/>Planta glascs:<br/>Plantage.med<br/>10<br/>Plantage.med<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul></td><td>http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0</td><td>heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339           -0.339           -0.339</td><td>het<br/>Polysonson Polosian<br/>Polyson Polosian<br/>2013 E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td><ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul></td><td>Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10</td><td>Int         Intercentary and a second and a second</td><td>herb<br/>Roscas<br/>Potep<br/>2015_6.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Nerk           Fasters           Staters           St</td><td>Harb           Fublaces           Sublaces           S</td><td>herb<br/>Spinforcase<br/>Acespe<br/>2018_EF.9.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<>  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | p helb<br>Papares Argeneous<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
  | harb<br>Plantaginacea<br>Linvit<br>2013<br>2013<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
  | Instantion           Plantaginacean           Plantaginacean           Plantaginacean           2011_E.F.O.H           0           0.000           0.011_E.F.O.H           0.001           0.001           0.012           0.012           0.012           0.021<  
   
  | harb<br>Planta glascs:<br>Planta glascs:<br>Plantage.med<br>10<br>Plantage.med<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>herb</li> <li>Veranica, prens</li> <li>2019_, H</li> <li>4-0,033</li> <li>0</li> <li>0</li></ul>   
  | http://paraflascase.verail.           Piastingscase.verail.           Veracf           6           0   
   
   
   
   
   
   
   
  | heb           Panagaacaa           Varcha           Varcha           Varcha           1012_E.F.G.H           -0.137           -0.138           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.334           -0.335           -0.335           -0.335           -0.335           -0.335           -0.336           -0.337           -0.337           -0.338           -0.339           -0.339           -0.331           -0.335           -0.336           -0.337           -0.338           -0.339           -0.339           -0.331           -0.336           -0.337           -0.338           -0.339           -0.339           -0.336           -0.337           -0.338           -0.339           -0.339           -0.339          
-0.339           -0.339  
   
   
   
   
   
   
   
   | het<br>Polysonson Polosian<br>Polyson Polosian<br>2013 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>herb</li> <li>Poisonacea</li> <li>Poince</li> <li>poince</li></ul>  
  | Herb           Finance           Banace           Banace           Banace           10           Banace           10           Banace           10           Banace           10   
   
   
   
   
   
   
   
  | Int         Intercentary and a second  
  | herb<br>Roscas<br>Potep<br>2015_6.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Nerk           Fasters           Staters           St  | Harb           Fublaces           Sublaces           S  
   | herb<br>Spinforcase<br>Acespe<br>2018_EF.9.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |   |   |   |  
  |  
  |  |   
  |   |   |  |  |  
  |   |  |   |  |   |  |   |  |  
   
   |  |   |   |  
   |   
  |   |  | | | | |
  |   |   |  |   |   
  |   |   |   |  |   
  |   |  |   |   |   |   
   |  |  |  |   |   |  |   
  |  
  |   |  
   |  |   | | | | | | | |
   |  |   |   |  |   
  |   |   |   |  |   |  |  |  |  |   
   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   |   |  |   |   |   | | | | | | | |
   |  |  |  |   |  |  |  
  |   |  |   |   
   |  |   |   |  |   |   
  |   |   |  
   |   |   |   
   |   |  |   |  |  |  |   |  |  
  |                                      |  |   |   |  |  |   |  |   |   |  |   |  
   |  |  |   |                            |  |   |   
   |  |   |   |   |   |  |   |   |   
   |  |   |  |   |  |   |  |  |  |  |   |  
  |   |   |  |   |   |  |   |   |  |   
   |   |  |  |  |  |   |   |  |  
  |   |  |   |   
   |  |   |   |   |  |
| 40000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>41000<br>410000<br>410000<br>410000<br>410000000<br>410000000000   | functional grow           family           Code           sacon           A002           A003           A004           A005           A005           A001           A010           A011           A012           A013           A014           A025           A026           A027           A038           A040           A042           A043           A045           B046           B057           B058           B057           B057 <tr td=""></tr>   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | p helb<br>Papares Jeremon<br>2010 E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
  | harb<br>Plantaginacea<br>Linvit<br>2012_F<br>2012_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   
  | <ul> <li>Instantional and and and and and and and and and and</li></ul>  
  | harb<br>Planta<br>Planta<br>Planta<br>Plantaginaca<br>Plantaginaca<br>Plantaginaca<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
                                       | • <b>h</b> +b<br>• • Finite Spaceae<br>Verant<br>Verant<br>2 010_5<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | bib           Fisionationationationationationationationat  
   
   
   
   
   
   
   
   
  | heb           Plantsgnaccas           Varda           Varda           1011_E.F.G.H           -0.137           -0.138           -0.139           -0.134           0           -0.154           0           -0.154           0           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.154           -0.155           -0.154           -0.155           -0.154           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155           -0.155 <td>Neth<br/>Polysons as<br/>Polyson Jointin<br/>2013 E<br/>0 10 J E<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td><ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul></td> <td><ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul></td> <td>Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I</td> <td>herð<br/>Forscas<br/>Potes<br/>2012_0H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20</td> <td>Herb           Fublaces           Sublaces           Su</td> <td>hetb<br/>Spindacesa<br/>Actope<br/>2012 E.F.G H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td>   
   
   
   
   
   
   
   
   
   | Neth<br>Polysons as<br>Polyson Jointin<br>2013 E<br>0 10 J E<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>barb</li> <li>Poisquest</li> <li>Poisquest</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2013_E.F.G.H</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li> <li>2014</li> <li>2015</li> <li>2014</li></ul>   | <ul> <li>Harb</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Panarculacator</li> <li>Quilacator</li> <li>Qui</li></ul>   
   
   
   
   
   
   
   
   
  | Int         Fance           I Fance         0           I Fance         0           I I I I I I I I I I I I I I I I I I I   | herð<br>Forscas<br>Potes<br>2012_0H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | Nerk           F0:20:20:20:20:20:20:20:20:20:20:20:20:20   | Herb           Fublaces           Sublaces           Su   | hetb<br>Spindacesa<br>Actope<br>2012 E.F.G H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |  
  |   |   |  
  |  
  |  |  |   |   |  | |
  |   |   |  |   |  |   |  
   |   |  |  
   |   
  |   |   | | |
   |  |   |  
   |  |   |   |  
   |   |  |   |   |      
  |  |   
  |   |  |   |   |   |   |   
  |  |  |   |   |  |  |  
  |   |  
   |   
  |   |  | | | | | | |
  |   |   |  |  |   |   |   |                      
   |   |  |  |  |  |   |  |   |  
   
   
   
   
   
   
   
   
  |  
   
   
   
   
   
   
   
   
   |   |   |   
   
   
   
   
   
   
   
   
   |   |  |   |   |   |  |  |  |  |  
  |  |  |   |   |  |   
   |   |   
  |   |   |  |   |  |   |   |  
   
   |   |   |   |   |  |   |  | | | | | | |
  |  |   |  |   |                                      |  |   |   |  |   
  |   |  |   |   |  |   |  |  |  |   |                            |  |   |   
   
   |  |   |   |   |   |  |   |   |   |  |   |  |   
   |  |   |  |  |  |  |   |   |   |   |  
   |   |   |  |   |   |  |   |   |  |  |  |  
   |   |   |  |   |  
    |  |   |   |  |   |   |   |  |
|  |   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   |   
   
   |   
   
   |   
   |   
  |  |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |  |   
   |   
   
   
   
   
   
   
   
   |   
   |   |   
  |   |  |   |   |   |   
   
   |   
   |  |  |   |   |  |  |   
   |   |  |   |  |   |  |  
  |  |   
  |  |   |   
   |   
  |  |   |  | | |
   |   |   |  |  
  |  |   |   |   |  |  
   |   |  |   |  
  |   |   |  |   
  |  |   |   |  |  |   
   |   |   
  |  |   | | | | |
  |  |   |   |   
  |  |   |   |   |  |   |  
   |  |  |  |   |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
   
  |   |  |   |   |   |  |  |  |  |   |  |  
   |   |   |  |  
  |   |  |   |   |   
  |   |  |   |   |   
  |  
  |   |   |   |  |   |  |  | | | | | |
      |   |  |   |                                      |  |   |   |  |  |   |  |   |                
  |  |   |  |  |  |   |                            |  |   |  
  |  |   |   |   |   
   |  |   |   |   |  |   |  |   |  |   |   
  |  |  |  |   |   |   |   |  |   |  
  |  |   |   |  |   |   |  |  |  |  |   |   |  
   |   |   |  |  
  |   |  |   |   |   |  |
| 4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,000<br>4,   | functional grow           rannity           Code           anoty           code           assen           assen           Anot           Bot  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   | p hell<br>Papare Jacense<br>Papare Jacense<br>2013 <u>6</u><br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
   
   | Heib           Plantaginacea           Linvit           uitarit           2018_F           0  
   
   | Instagination   
   | Herb<br>Plansd<br>Plansd<br>Plansd<br>Plansd<br>Plansd<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | <ul> <li>herb</li> <li>4 Planta (access)</li> <li>2012 _ , H</li> <li>2013 _ , H</li> <li>4.0, 033</li> <li>0</li> <li>0</li></ul>   
   | bib           Plantpacese           Varad           is           Stants_vents           2013_5           0 <td>heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335</td> <td>het<br/>Polyprose,<br/>Polyprose,<br/>2011_F<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td> <td>berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052     <!--</td--><td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td><td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td></td>   
   
   
   
   
   
   
   
   
   | heth           Parcha           Varcha           1012           -0.177           -0.134           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335           -0.335   
   
   
   
   
   
   
   
  | het<br>Polyprose,<br>Polyprose,<br>2011_F<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   
   | berb           Polyconscene           Polyconscene           Polyconscene           Polyconscene           2012_EF.6.H           -0.044           -0.057           -0.057           -0.057           -0.057           -0.057           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052           -0.052           -0.051           -0.052           -0.051           -0.052           -0.051           -0.052           -0.052 </td <td><ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul></td> <td>Interface           Interface           <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<></td>   | <ul> <li>Herb</li> <li>Fanarculscate</li> <li>Fanarculscate</li> <li>Panarculscate</li> <li>Panarculscate</li> <li>20112_EF.9.H</li> <li>4.2.95</li> <li>0</li> <li>4.2.94</li> <li>4.0.62</li> <li>4.0.6</li></ul>   
   
   
   
   
   
   
   
   | Interface           Interface <t< td=""><td>herb<br/>Parses<br/>Parses<br/>2015_6,H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Herk           Facace           Sayaff           Saya</td><td>herb<br/>Fubiocse<br/>2012_E.F.G.H<br/>2013_E.F.G.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>hetb<br/>Spindarese<br/>Actope<br/>2018_EF.0.H<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td></t<>  
   | herb<br>Parses<br>Parses<br>2015_6,H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Herk           Facace           Sayaff           Saya  | herb<br>Fubiocse<br>2012_E.F.G.H<br>2013_E.F.G.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  
  | hetb<br>Spindarese<br>Actope<br>2018_EF.0.H<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |   |   |   |   
   |   
   |  |  
   |   |   |  |  |   
   |   |  |   |  |   |  |   |  |   
   
  |  |   |   |   
   
  |  |   |  | | | |
   |   |   |  |   |  
   |   |   |   |  |  
   |   |  |   |   |   |  
  |  |  |  |   |   |  |  
   |   
   |   |   
  |  |   | | | | | | | |
  |  |   |   |  |  
   |   |   |   |  |   |  |  |  |  |  
  |  |   |   
   
   
   
   
   
   
   
   
   |   
   
   
   
   
   
   
   
   
  |   |   |  
   
   
   
   
   
   
   
  |   |  |   | | | | | | | | | |
   |   |  |  |  |  |   |  |  |   
   |   |  |   |  
  |  |   |   |  |   |  
   |   |   |   
  |   |   |  
  |   |  |   |  |  |  |   |  |   
   |                                      |  |   |   |  |  |   |  |   |   |  |   |   
  |  |  |   |                            |  |   |  
  |  |   |   |   |   |  |  
  |   |   |  |   |  |   |  |   |  |  |  |                        
   |   |   |   |   |  |   |   |  |   |   |                                       
                  |   |   |  |  |  |  |   |   |  |   
   |   |  |   |  
  |  |   |   |   |  |

# Supplement Table 1: Plant species indices – continued (FG grass Season 2018 E)

	functional group	) grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass
	family	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae
	Code	Antodo	Avepub	Brohor	Dacglo	Fesovi	Fespra	Fesrub	Fesspe	Hollan	Lolper	Phipra	Poapra
	species	Anthoxanthum_odoratum	Avenula_pubescens	Bromus_hordeaceus	Dactylis_glomerata	Festuca_ovina agg.	Festuca_pratensis cf.	Festuca_rubra	Festuca_spec.	Holcus_lanatus	Lolium_perenne	Phleum_pratense	Poa_pratensis
	season	2018_E,F,G,H	2018_E,F,G,H	2018_E,G,H	2018_E,F,G,H	2018_E,F,G,H	2018_F,G	2018_E,F,G,H	2018_G	2018_E,F,G,H	2018_E	2018_E,F,G,H	2018_E,F,G,H
Season	plot												
2018_E	A002	0	-0.348	-0.040	0	0	0	0	0	-0.040	0	-0.206	-0.068
2018_E	A003	-0.215	0	0	-0.306	0	0	-0.071	0	-0.042	-0.118	0	0
2018_E	A005	0	-0.060	0	-0.277	0	0	0	0	-0.101	-0.035	-0.188	-0.035
2018_E	A009	0	-0.071	0	0	0	0	0	0	-0.118	0	0	-0.071
2018_E	A010	0	-0.309	0	-0.031	0	0	0	0	-0.031	0	-0.169	0
2018_E	A011	0	-0.033	0	0	0	0	0	0	0	0	-0.033	-0.033
2018_E	A013	0	0	0	0	0	0	0	0	0	0	0	-0.052
2018_E	A016	0	0	-0.038	0	-0.066	0	0	0	0	0	-0.110	-0.066
2018_E	A018	-0.086	0	0	-0.162	0	0	0	0	-0.162	0	-0.086	0
2018_E	A020	0	0	0	0	0	0	-0.036	0	-0.062	0	0	-0.062
2018_E	A026	0	0	0	0	0	0	-0.108	0	-0.065	-0.199	-0.290	-0.355
2018_E	A027	0	0	0	0	0	0	0	0	-0.144	0	0	-0.144
2018_E	A030	0	0	0	0	0	0	0	0	0	-0.037	0	-0.064
2018_E	A035	0	0	0	0	0	0	0	0	-0.290	0	-0.199	-0.038
2018_E	A040	0	0	0	0	0	0	0	0	-0.367	0	0	0
2018_E	A042	0	0	0	0	0	0	0	0	0	0	0	-0.071
2018_E	A043	-0.035	-0.035	0	0	0	0	0	0	-0.061	0	-0.035	0
2018_E	A044	-0.209	-0.040	0	0	0	0	-0.069	0	-0.069	0	0	0
2018_E	A045	-0.035	-0.368	0	-0.035	0	0	-0.061	0	0	-0.189	-0.189	-0.061
2018_E	A046	0	-0.043	0	-0.025	0	0	0	0	0	0	-0.074	-0.043
2018_E	B048	0	0	0	0	0	0	0	0	-0.029	0	0	-0.050
2018_E	B051	-0.025	-0.074	0	-0.338	0	0	0	0	-0.142	-0.025	-0.274	-0.025
2018 E	B054	-0.091	0	-0.031	0	0	0	0	0	0	-0.091	-0.311	0
2018 E	B057	-0.022	0	-0.022	0	0	0	0	0	-0.128	0	-0.066	-0.128
2018 E	B059	0	0	-0.076	0	0	0	-0.076	0	-0.076	0	-0.125	-0.125
2018 E	B060	-0.255	0	-0.090	0	0	0	0	0	-0.090	-0.053	-0.090	-0.169
2018 E	B064	0	0	0	0	0	0	-0.367	0	-0.057	0	0	-0.178
2018 E	B067	-0.025	0	0	0	0	0	-0.311	0	0	-0.025	-0.219	-0.219
2018 E	B071	-0.252	0	0	0	0	0	0	0	0	0	0	0
2018 F	B073	0	-0.243	-	-0.050	0	0	-0.024	0	-0.159	0	-0.159	-0.159
2018 F	B075	0	0	-0.090	0	0	0	-0.090	0	-0.031	0	0	-0.170
2018 E	B020	0	-	0	-0.046	0	0	0	0	-0.284	0	-0.046	0
2018 E	B021	0	0	0	0	0	0	-0.056	0	-0.364	-0.032	0	
2010_0	PAGE	0	0.056	-0.022	0	0	0	0.056	0	-0.504	0.052	.0.094	0.056
2010_C	8090	0	-0.050	-0.052	-0.250	0	0	-0.030	0		-0.052	-0.054	-0.050
2010_0	P092	0	0.266	0.040	0.112	0	0	0.246	0	0	0.112	0.062	0.112
2010_0	0092	0 171	-0.965	-0.040	-0.115	0	0	0.001	0	0	-0.115	-0.000	0.057
2010_0	(102	-0.171	-0.091	0	-0.565	0	0	0.166	0	0	0	0	-0.257
2010_0	C105	-0.052	-0.505	0	0.051	0	0	-0.100	0	0.202	0	0	0.000
2018_E	0103	0	0 254	0	-0.081	0	0	0	0	-0.508	0	0	-0.119
2018_E	0110	Ű	-0.364	Ű	-0.031	0	0	0 2/2	0	-0.169	0	-0.090	0 2 5 6
2018_E	C114	U 0.104	0 063	0	0.053	U	U	-0.363	U	0.052	-0.145	0 122	-0.568
2018_E	0115	-0.194	-0.063	U	-0.063	U	U	U	U	-0.063	0	-0.123	0
2018_E	0121	-0.038	-0.108	U	U	U	U	U	U	U	-0.065	-0.108	-0.108
2018_E	0131	U	U	0	U	U	U	-0.086	U	U	U	-0.162	-0.344
2018_E	C133	0	0	-0.113	0	0	0	0	0	0	0	-0.299	0
2018_E	C135	0	-0.192	0	0	0	0	0	0	0	0	-0.062	-0.104
2018_E	C136	0	-0.307	0	0	0	0	0	0	0	-0.053	-0.167	0
2018_E	C137	-0.060	-0.101	-0.035	-0.368	0	0	0	0	-0.035	0	-0.101	-0.187

# Supplement Table 1: Plant species indices – continued (FG grass Season 2018 F)

	functional group	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass
	Tamily	roaceae	roaceae	Poaceae	Poaceae	Poaceae	Foaceae	Foaceae	roaceae	Poaceae	Poaceae	Poaceae	Poaceae
	Code .	Antodo	Avepub	Brohor	Dacgio	Fesovi	Fespra	Fesrub	Fesspe	Hollan	Lolper	Phipra	Poapra
	species	Anthoxanthum_odoratum	Avenula_pubescens	Bromus_hordeaceus	Dactylis_glomerata	Festuca_ovina agg.	Festuca_pratensis cf.	Festuca_rubra	Festuca_spec.	Holcus_lanatus	Lolium_perenne	Phleum_pratense	Poa_pratensis
	season	2018_E,F,G,H	2018_E,F,G,H	2018_E,G,H	2018_E,F,G,H	2018_E,F,G,H	2018_F,G	2018_E,F,G,H	2018_6	2018_E,F,G,H	2018_E	2018_E,F,G,H	2018_E,F,G,H
Season	plot												
2018_F	A002	0	-0.360	0	0	0	0	0	0	0	0	-0.215	0
2018_F	A003	-0.146	0	0	-0.343	0	0	-0.146	0	0	0	0	-0.053
2018_F	A005	0	0	0	-0.215	0	0	0	0	0	0	-0.334	0
2018_F	A009	0	0	0	0	0	0	-0.177	0	0	0	-0.264	0
2018_F	A010	0	-0.189	0	0	0	-0.119	0	0	0	0	-0.119	0
2018_F	A011	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	A013	0	0	0	0	0	0	-0.162	0	0	0	0	0
2018_F	A016	0	0	0	0	0	0	-0.141	0	0	0	-0.086	0
2018_F	A018	-0.116	0	0	-0.211	0	0	0	0	-0.116	0	-0.116	0
2018_F	A020	0	0	0	0	0	0	0	0	0	0	0	-0.085
2018_F	A026	0	0	0	0	0	0	0	0	0	0	-0.278	-0.240
2018_F	A027	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	A030	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	A035	0	0	0	0	0	0	0	0	-0.130	0	-0.323	0
2018_F	A040	0	0	0	0	0	0	0	0	-0.294	0	0	0
2018_F	A042	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	A043	0	0	0	0	0	0	0	0	0	0	0	0
2018_F	A044	-0.221	. 0	0	0	0	0	0	0	0	0	0	0
2018_F	A045	0	-0.230	0	-0.092	-0.150	0	-0.347	0	0	0	-0.230	-0.347
2018_F	A046	0	0	0	0	0	0	0	0	0	0	-0.138	0
2018_F	B048	-0.197	0	0	0	0	0	0	0	0	0	0	0
2018_F	B051	0	0	0	-0.364	0	0	0	0	0	0	-0.237	0
2018_F	B054	0	0	0	0	0	0		0	0	0	-0.332	0
2018_F	B057	0	0	0	0	0	0	-0.272	0	0	0	-0.159	-0.355
2018_F	B059	0	0	0	0	0	0		0	0	0	-0.310	0
2018_F	B060	-0.365	0	0	0	0	0		0	0	0	-0.207	0
2018_F	B064	0	0	0	0	0	0	-0.152	0	0	0	0	0
2018_F	B067	0	0	0	0	0	-0.100	-0.356	0	0	0	-0.161	-0.356
2018 F	B071	-0.344	. 0	0	0	0	0	0	0	0	0	-0.147	0
2018 F	B073	0	-0.286	0	0	0	0	-0.286	0	0	0	-0.106	-0.286
2018 F	B075	0	0	0	0	0	0	-0.340	0	0	0	0	-0.340
2018 F	B030	0	0	0	0	0	0		0	-0.303	0	0	0
2018 F	B031	0	-0.189	0	0	0	0		0	-0.368	0	-0.119	0
2018 F	B085	0	0	0	0	0	0		0	0	0	0	0
2018 F	B090	-	0	-	-0.284	-	-		0		-	0	0
2018 F	B092	-	-0.349	-	-0.234	-0.094	-	-0.342	-		-	0	0
2018 F	C097	-	0	-	-0.316	0	-		-		-	0	-
2018 F	C103	-	-0.250	-		-	-	-0.250	-	0	-	-0 143	-
2018 F	C109	°	0.250	°	-0.240	0	°		0	-0.331	0	0.115	0
2010_5	C110	0	0.265	°	0.2.10	0	°		0	0.551	0	0	0
2010_1	C110	0	0.505	0	0	0.121	0.043	0.257			0	0	0.257
2018 F	C115	0.957			0	-0.121	-0.045	-0.55/				_0.095	-0.357
2010 5	C101	-0.267			0	0					0	-0.096	0
2010_F	C121	0		Ű	U	U			0			0.141	0.007
2010_F	C131	0		0	U	Ű			0			-0.141	-0.087
2010_F	C135	0		0	U	Ű			0		0	-0.368	0
2010_F	C135	0		0	0	Ű		-0.1//	0		0	0.011	0
2010_F	0136	U -	-0.244		-0.138	U	- -		0		U	-0.244	0
2018_F	C137	0	0	0	-0.335	0	0	. 0	0	0	0	0	0

# Supplement Table 1: Plant species indices – continued (FG grass Season 2018 G)

	functional group	p grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass
	family	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae	Poaceae
	Code	Antodo	Avepub	Brohor	Dacgio	Fesovi	Fespra	Fesrub	Fesspe	Hollan	Lolper	Phipra	Poapra
	species	Anthoxanthum_odoratum	Avenula_pubescens	Bromus_hordeaceus	Dactylis_glomerata	Festuca_ovina agg.	Festuca_pratensis cf.	Festuca_rubra	Festuca_spec.	Holcus_lanatus	Lolium_perenne	Phleum_pratense	Poa_pratensis
	season	2018_E,F,G,H	2018_E,F,G,H	2018_E,G,H	2018_E,F,G,H	2018_E,F,G,H	2018_F,G	2018_E,F,G,H	2018_G	2018_E,F,G,H	2018_E	2018_E,F,G,H	2018_E,F,G,H
Season	plot												
2018_G	A002	0	-0.366	-0.085	0	0	0	0	0	0	0	-0.334	0
2018_G	A003	-0.100	0	-0.059	-0.274	0	0	0	0	0	0	0	-0.035
2018_G	A005	0	0	0	-0.230	0	0	0	0	0	0	-0.230	0
2018_G	A009	0	0	-0.225	0	0	0	-0.125	0	0	0	-0.045	0
2018_G	A010	0	-0.228	0	0	0	0	0	0	0	0	-0.127	0
2018_G	A011	0	-0.125	-0.045	0	0	0	0	0	0	0	0	0
2018_G	A013	0	0	0	0	0	0	0	0	0	0	-0.048	0
2018_G	A016	0	0	0	0	0	0	0	0	0	0	-0.152	0
2018_G	A018	-0.134	0	0	-0.238	0	0	0	0	-0.134	0	-0.238	0
2018_G	A020	0	0	0	0	0	0	0	0	-0.049	0	0	0
2018_G	A026	0	0	0	0	0	0	0	0	0	0	-0.229	-0.254
2018_G	A027	0	0	0	0	0	0	0	-0.067	0	0	0	0
2018_G	A030	0	0	0	0	0	0	0	0	0	0	0	0
2018_G	A035	0	0	-0.083	0	0	0	0	0	-0.240	0	-0.135	0
2018_G	A040	0	0	-0.091	0	0	0	0	0	-0.344	0	0	0
2018_G	A042	0	0	0	0	0	-0.056	0	0	0	0	0	0
2018_G	A043	0	0	-0.059	0	0	0	0	0	0	0	0	0
2018_G	A044	-0.310	0	0	0	0	0	0	0	0	0	0	0
2018_G	A045	0	-0.357	0	0	-0.044	0	-0.315	0	0	0	-0.223	-0.315
2018_G	A046	0	0	0	0	0	0	0	0	0	0	-0.149	0
2018_G	B048	0	0	0	0	0	0	0	0	0	0	0	0
2018 G	8051	0	0	0	-0.302	0	0	0	0	0	0	-0.302	0
2018 G	B054	0	0	0	0	0	0	0	0	0	0	-0.288	0
2018 G	B057	0	0	0	0	0	0	0	0	0	0	-0.118	-0.352
2018 G	B059	0	0	0	0	0	0	-0.145	0	0	0	-0.316	0
2018 G	B060	-0.367	0	0	0	0	0	0	0	0	0	0	0
 2018 G	B064	0	0	-0.052	0	0	0	-0.160	0	0	0	0	0
_ 2018 G	B067	0	0	0	0	0	0	-0.363	0	0	0	-0.173	-0.363
	8071	-0.272	0	0	0	0	0	-0.099	0	0	0	0	0
2018 G	B073	0	-0.187	0	0	0	0	-0.276	0	0	0	-0.187	-0.276
- 2018 G	B075	0	0	0	0	0	0	-0.303	0	0	0	-0.051	-0.303
2018 G	8030	0	-0.054	-0.054	0	0	0	0	0	-0.091	0	-0.054	0
2018 G	8031	0	0	-0.094	0	0	0	0	0	-0.368	0	0	0
2018 G	8085	0	-0 134	0	0	0	0	0	0	0	0	0	0
2018 G	8090	0	0	0	-0 137	0	0	0	0	0	0	-0.050	0
2018 6	8092	-	-0.364	0	0	-0.048	-	-0.338		-		0	
2018 6	097	0	0	0	-0.275	0	0	0.550	0	0	0	0	ů
2018 6	c103	0	-0.278	0	0	0	0	-0.102	0	0	0	0	0
2018 6	C109	0	0	-0.047	.0.229	ů	0	0.102	0	.0.229	ů	0	
2018 6	C110	0	-0.362	-0.047	-0.205	0	0	0	0	-0.205	0	0	
2018 6	C114	0	-0.500	0	0	-0.043	0	-0.357	0	0	0	-0.043	-0.357
2018 6	C115	-0.359	0	0	0	-0.045	0	-0.557	0	0	0	-0.125	-0.337
2012 6	(121	-0.353	0	0	0	0	0	0	0	0	0	-0.125	0
2010_0	0121	0	0	0		0	0	0 357	0	0	0	0.042	0 357
2018_0	C122	0	0	0	0	0	0	-0.35/	0	0	0	-0.0+5	-0.557
2010_0	0135		0	0		0	0	0	0	0	0	-0.528	0 041
2018_0	C135	U	0 051	0	0	U	U	U	U	U	U	0.051	-0.041
2012_0	0135	U	-0.251	0	0	U	U	U	U	U	U	-0.251	0
3018 <sup>6</sup>	0137	U	U	-0.039	-0.365	U	U	U	U	U	U	U	U

#### Supplement Table 1: Plant species indices – continued (FG grass Season 2018 H)

	fun ational analysis												
	family	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass	grass
	Codo	Antodo	Avenub	Prober	Daceae	Forei	Foreiro	Formh	Foreno	Hellon	Foaceae	Phinro	Poppro
	mosion	Anthorathum ederatum	Avepub Avepula pubercent	Bromur bordoscour	Dactulic domorata	Fostura outina arr	Fortura protoprinef	Fortura rubra	Fortura mor	Holeur Isestur	Loiper	Phloum protopro	Pop protoprir
	season	2018 FEG H	2018 FEG H	2018 E.G.H	2018 FEG H	2018 FEGH	2018 E G	2018 EEGH	2018 G	2018 FEGH	2018 F	2018 FEGH	2018 FEGH
Season	nlot	2020_0,1,0,11	2010_0,1,0,11	2010_0,0,0	1010_0,1,0,11	2010_0,1,0,11	1010_0,0	2020_0,1,0,11	1010_0	2010_0,0,0,0	1010_0	1010_0,1,0,0	2010_0,1,0,11
2018 H	A002	0	-0.341	0	0	0	0	0	0	0	0	-0.094	0
2018 H	A003	-0.159	0.511	0	-0.354	0	0	0	0	0	0	0	0
2018 H	A005	0	0	0	-0.361	0	0	0	0	0	0	-0.031	0
2018 H	A009	-	0	0	0	9	0	0	0	0	0	0	0
2018 H	A010	0	-0.283	0	0	0	0	0	0	-0.193	0	-0.036	0
2018 H	A011	0	-0.083	0	0	0	0	0	0	0	0	0	0
2018 H	A013	0	0	0	0	0	0	0	0	0	0	0	0
2018 H	A016	0	-0.154	-0.081	0	0	0	0	0	0	0	0	0
2018 H	A018	-0.249	0	0	-0.304	0	0	0	0	-0.037	0	-0.030	0
2018 H	A020	0	0	-0.117	0	0	0	0	0	0	0	0	0
2018_H	A026	0	0	0	0	0	0	-0.367	0	0	0	-0.164	-0.366
2018 H	A027	0	0	-0.112	0	0	0	0	0	0	0	0	0
2018 H	A030	0	0	0	0	0	0	0	0	0	0	0	0
2018_H	A035	0	-0.229	0	-0.128	0	0	0	0	-0.229	0	-0.046	0
2018_H	A040	0	0	0	0	0	0	0	0	-0.274	0	0	0
2018_H	A042	0	0	0	0	0	0	0	0	0	0	0	0
2018_H	A043	0	0	0	0	0	0	0	0	0	0	0	0
2018_H	A044	-0.360	-0.104	0	0	0	0	0	0	0	0	0	0
2018_H	A045	0	-0.360	0	0	-0.068	0	-0.360	0	0	0	-0.133	-0.299
2018_H	A046	0	0	0	0	0	0	0	0	0	0	-0.028	0
2018_H	B048	0	0	-0.083	0	0	0	0	0	0	0	0	0
2018_H	B051	0	-0.037	0	-0.336	0	0	0	0	0	0	-0.037	0
2018_H	B054	0	0	0	-0.366	0	0	0	0	0	0	-0.050	0
2018_H	B057	0	0	0	0	0	0	0	0	0	0	-0.037	-0.285
2018_H	B059	-0.110	0	-0.066	0	0	0	0	0	0	0	-0.038	0
2018_H	B060	-0.363	0	0	0	0	0	0	0	0	0	0	0
2018_H	B064	0	0	0	0	-0.102	0	-0.347	0	0	0	0	0
2018_H	B067	0	-0.044	0	-0.074	0	0	-0.365	0	0	0	-0.025	-0.313
2018_H	B071	-0.320	0	0	0	0	0	0	0	0	0	0	0
2018_H	B073	0	-0.272	0	0	0	0	-0.272	0	0	0	-0.025	-0.272
2018_H	B075	0	0	0	0	0	0	-0.347	0	0	0	0	-0.347
2018_H	8080	0	0	0	-0.107	0	0	-0.196	0	-0.107	0	0	0
2018_H	B081	0	-0.185	0	0	0	0	0	0	-0.327	0	0	0
2018_H	B085	0	0	-0.136	0	0	0	0	0	0	0	0	0
2018_H	B090	0	0	0	-0.302	0	0	0	0	0	0	0	0
2018_H	B092	0	-0.366	0	0	-0.044	0	-0.364	0	0	0	0	0
2018_H	C097	0	0	-0.244	-0.367	0	0	0	0	0	0	0	0
2018_H	C103	0	-0.352	0	-0.071	0	0	-0.306	0	0	0	0	0
2018_H	C109	0	0	0	-0.239	0	0	0	0	-0.239	0	0	0
2018_H	C110	0	-0.360	0	0	0	0	0	0	-0.077	0	0	0
2018_H	C114	0	0	0	0	-0.056	0	-0.360	0	0	0	0	-0.360
2018_H	C115	-0.301	0	0	0	0	0	0	0	0	0	-0.040	0
2018_H	C121	0	0	0	0	0	0	0	0	0	0	0	0
2018_H	C131	0	-0.071	-0.071	0	0	0	0	0	0	0	0	-0.187
2018_H	C133	0	0	0	0	0	0	0	0	0	0	-0.099	0
2018_H	C135	0	-0.088	-0.088	0	0	0	0	0	0	0	0	0
2018_H	C136	0	-0.364	-0.073	0	0	0	0	0	-0.073	0	-0.073	0
2018_H	C137	U	U	U	-0.352	0	U	U	0	0	U	U	0

**Supplement Table 2: Tool versions and parameters used in the Galaxy-W4M workflow.** The workflow for the LC-MS raw data pre-processing is available at https://doi.workflow4metabolomics.org/W4M00008 using an example dataset.

Tool name	Description	Version	P aram et er	Value
MSnbase readMSData	Imports mass-spectrometry data files	2.8.2.2		
fin dChrom Peaks	Chromatographic peak detection	3.6.1+galaxy1	Extraction method for peaks detection max tolerated point m/z deniation	CentWave 25
			Min, Maxpeak width	5 s, 20 s
			Signal to noise ratio cutoff	LD .
			Prefiter step (ROI detection)	2 scans, 1000 intensity
			Minimum difference in m/z for peaks with overlapping retention times	-0.005
			Noise filter	2000
xcm s fin dChrom Peaks Merger	Merge xcms findChromPeaks RData into a unique file to be used by group	3.6.1+galaxy0		
xcms groupChromPeaks (group)	Perform the correspondence, the grouping of chromatographic peaks within and between samples	3.6.1+galaxv2	Method	P eak D en sit v
0	00-1-00	0	Bandwidth	- 07
			Minimum fraction of samples	0.75
			Minimum number of samples	1
			Width of overlapping m/z slices	0.25
xcm s adjustRtim e (retcor)	Retention Time Correction	3.6.1+galaxy1	Method	PeakGroups
			Min required fraction	0.75
			Max number of additional peaks	1
			Smooth method	Loess – non-linear alignment
			Degree of smoothing	0.2
			Family	gaussian
			-	2
xcms groupChromPeaks (group)	Perform the correspondence, the grouping of chromatographic peaks within and between samples	3.6.1+galaxy2	Method	P eakDen sit y
			Bandwidth	0 0
			Minimum fraction of samples	0.75
			Minimum number of samples	1
			Width of overlapping m/z slices	0.005
CANAED & secondate.	Distrime and station point the first and posts - addituate and fraction and st	1.0 6±comoral 42.0.color	M M Minister of the other of an instance.	u
	изганно анногалон назанго (рософа Адахо) адаагаана наблизико)	2.2.0 CONCLOT.42.0-8010/ J	ryunipurer orune sourcer a evietori Decembers of Finan (1,1,1,4)	
			reroentage of FVMHM Wigth	9.0
			General ppm error	
			General absolut error in m/z	0.005
			Max. ion charge	m
			Max. number of expected isotopes	4
			The percentage number of samples, which must satisfy the C12/C13 rule for isotope annotation	0.5
			groupCorr: correlation threshold (01)	0.75
			groupCorr: Method selection for grouping peaks after correlation analysis into pseudospectra	hcs
- - 7		0	groupCorr. significant correlation threshold	0.5319
Check Format Generic Eiter	uneuxing formatting the sample and variable names Datating commolor and for unrichtor	5.0.0	remenue in "" unimerat	101000 sts
	Determing some pressoner of a variables	T0.0202	remove in " "values upper	11 , 000 (3) "rf" 80 (c)

**Supplement Table 3: Metabolite families for PLS selected features putatively annotated.** The features were selected in thirteen species for seven factors. Putative annotations were based on database searches performed by MetFamily. Only those annotations that showed certain statistical reliability (p <= 0.05) were accepted. For each annotated family, we assigned a putative metabolite family ID (pMetFam\_ID) used to indicate the features used for the statistical analysis. a) shows the annotation of each feature, for which trait in which species it was selected and which library was used for the putative annotation. b) Shows the intensity of the feature measured in each sample and the number of samples (across all species) that had an intensity measured for the feature. Note that to allow the table to be searchable by species and trait, features that had been PLS-selected for multiple species-trait combinations are listed for all these combinations.

#### Supplement Table 3a: Metabolite families - continued

eee 21 21 21 21 21 21 21 21 21 21 21 21 21 2	* 8 * 8 8 8 8 7 5 8 8 8 7 7 8 8 7 4 4 5 8 7 7 7 7 7 8 8 8 8 8 8 8 8 8 9 8 9 8 9	
d andec ad andec ad andec andec andec andec	88 89 81 8 9 1 1 1 1 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9	
Purcet (a) Moneabli Jamines (a) Moneabli Jamines (a) Moneabli Jamines (a) Moneabli Jamines (a) Moneabli Jamines (b) Tethen Cathoonic and (b) Tethe	Purent (6 (a) 3 methory/drom (a) 6-oropurines (b) 6-oropurines (b) 6-oropurines (b) 6-oropurines (b) 6-oropurines	
5 66 65 65 65 65 65 65 65 65 65 65 65 65	Subclass (1) Hydroquinolones (1) Hydroquinolones (1) Pyridinecuborylica (1) Chromones (1) Hydropyrindines (1) Hydropyrindines (1) Hydropyrindines (1) Hydropyrindines (1) Hydropyrindines (1) Bydrobes (1) Bydrobes (1	
Sublios (1) Finansy particas (1) Finansy particas (1) Finansy particas (1) Finansy particas (1) Finansy particas (2) Cherologica of attra (2) Cherologica of attra (3) Cherologica of attra (3) Cherologica of attra (4) Cherologica of attra (4) Cherologica of attra (4) Cherologica of attra (5) Cherologica of attra (5) Cherologica of attra (6) Cherologica of attra (7)	and derivatives and derivatives tand derivatives boxylic adds and derivatives and primodine derivatives and primodine derivatives and primodine derivatives and primodine derivatives of prime derivatives of prime derivatives of prime derivatives	
s prophetics working and any prophetics prop	Class varities (1) Outmotone: varities (1) Outmotone: varities (1) Outmotone: varities (1) Outmotone: varities (1) Pyrindine (1)	
0.05 1.1 Amute 1.1 A	Supercises (A) Outrolines and der (A) Outrolines and der (B) Tetenyndorisopation (B) Tetenyndorisopation (B) Tetenyndorisans (C) Dolanes (C) Dolanes (	
Neeture (a) Organomic perior compound (b) Organomic perior compound (c) Organomic perior compound (c) Organomic perior compound (c) Phenetic (c) Phe	m mponet encyclic compounds provide the organic compounds provide	
<ul> <li>Algudini,</li> <li>Algudini,</li></ul>	as photefarmDr MinghamD MinghamB (0) 00 00 00 00 00 00 00 00 00 00 00 00 0	
Main         Constraint         Constraint           0.000         Performance         Performance           0.000         Per	and         modulated (f, m)         modulated (f, m)           5103         5103         5103         5103           5103         5103         5103         5103         5103           5103         5103         5103         5103         5103         5103           5103	
R4C_A Py 1440 1440 1440 1540 1540 1540 1540 1540	mbathad mini bashadin 1770000 17700000000	
Internation         Internation           2010/00/2010/00/20         2010/00/2010/00/20           2010/00/2010/00/20         2010/20           2010/00/2010/00/20         2010/20           2010/00/2010/00/20         2010/20           2010/00/2010/00/20         2010/20           2010/00/2010/00/20         2010/20           2010/00/2010/00/20         2010/20           2010/00/2010/2010/2010         2010/20           2010/00/2010/2010/2010/2010         2011/20           2010/00/2010/2010/2010/2010         2011/20           2010/00/2010/2010/2010/2010/2010/2010/2	total         na           pres < current de vo., 2021. 09-02	
Ibny - analwe used (11.2) (21.6):65 stores of the (12.2) (21.6):65 stores of the (12.2) (21.6):65 stores of the (12.2) (21.6):65 stores of the (13.2) (21.6):65 stores of the (23.2) (11.5) (26.6):70 stores of (23.2) (21.6):70 stores of (23.2) (23.2) (23.2) (23.2)	species         Library - database           D5         R-2763_005165         R-2030_005165           D6         R-2709_005165         R-2030_005165           D6         R-2030_005165         R-2030_005165           D7         R-2709_005165         R-2030_005165           D7         R-2709_005165         R-2030_005165           D7         L-2214_110pperfix         D           D1         L-2214_110pperfix         D           D1         L-2214_110pperfix         D           D2         L-2214_110pperfix         D           D2         L-2214_110pperfix         D           D1         L-2214_110pperfix         D           D2         D2         D         D           D2         D2         D         D           D3         D2         D         D           D4         D2         D         D           D4         D2         D         D         D           D4         D2         D         D         D           D4         D2         D         D         D         D           D4         D2         D         D         D         D         <	
nt         n, j,	m         n         n         n           100         100.320         100         100           100         100.320         100         100           100         100.320         100         100           100         177.04554         200         100           100         177.04554         200         100           100         177.04554         200         100           101         177.04554         200         100           101         177.04554         200         100           102         110         100         100         100           102         111         111         111         111         111           102         111         111         100         100         100           103         111         111         100         100         100           103         100         100         100         100         100           104         100         100         100         100         100           105         100         100         100         100         100           104         100         100         100 </td	
<ul> <li>Henke</li> <li></li></ul>	Feature           0.12777         0.12777           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01177         0.01277           0.01217         0.01271           0.01217         0.01271           0.01217         0.01271           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217           0.01217         0.01217	
Market         Parket           Parket	Andra Factor season multiple multipl	
detercos	الس Theorem 2010 کا تھا تھا تھا تھا تھا تھا تھا تھا تھا تھ	
14. 14. 14. 14. 14. 14. 14. 14. 14. 14.	0.000         0.000           0.000	
Species Another and a second an	Species Demographic of the second of the sec	
count 224 224 224 224 224 224 237 237 237 237 237 237 237 237 237 237	5 5 5 8 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	count 2116 222 333 337 337 337 337 337 337 337 1117 1116 1116
---	--	--
Рани	<ul><li>(a) Any lectores</li><li>(b) Any lectores</li></ul>	Parent Parent (a) Pennoses (a) Pennoses (a) Pennoses (a) Pennoses (b) Pennoses (a) Pennoses (b) Pennoses (b) Pennoses (c) Pennose dempounda (c) Cylorost dempounda (c) Cylorost dempounda (c) (c) Periost dempounda (c) (c) Periost dempounda (c) (c) (c) Periost dempounda (c)
Subclass	(1) Netones (1) Netones	staticitas staticitas (1) Polytol (1) (1) Polytol (1) (1) Polytol (2) (1) Polytol (2) (2) Polytol (2) Polytol (2) Polytol (2) (2) Polytol (2)
20 20 20	s s s s s s s s s s s s s s	Classical stand polyols (2) Alcohols and polyols (3) Cubohyndrese and cabohyndres (3) Cubohyndreses and cabohyndres (4) Cubohyndreses and cabohyndres (4) Cubohyndreses and cabohyndres (4) Cubohyndreses and cabohyndres (4) Cubohyndrese and cabohyndres (4) Cubohyndrese and cabohyndres (4) Cubohyndrese and cabohyndres (4) Cubohyndreses and cabohy
Superchass compounds compounds compounds compounds compounds compounds compounds compounds compounds compounds compounds (A) Organoitregen compoun compounds (A) Organoitregen compounds compounds (A) Organoitregen compounds	compounds 4, b) (paraionitreper more compounds 4, b) (paraionitreper more international 4, b) (paraionitreper more compounds 4, b) (paraionitreper compound compounds 4, b) (paraionitreper compounds 6, b) (paraionitreper comp	Supercisas supercisas supercisas and Construction of Construction componential and Construction of Constructions and Construction of Constructions and Construction of Construction and Construction and Construction of Construction and C
D         Ringlam           01         010 tegnic congent           07         010 tegnic congent	(P)4. (P) Organic congrating (P)4. (P)4. (P	4.2         (7) Organic oxygen ox ALL
<ul> <li>m pause photesnu,</li> <li>a) 0.000 (appletesnu,</li> </ul>	<ol> <li>0.039 (0.04) Hetersmun.</li> <li>0.040 (0.04) Hetersmun.</li> <li>0.040 (0.04) Hetersmun.</li> <li>0.040 (0.04) Hetersmun.</li> <li>0.041 (0.04) Hetersmun.</li> </ol>	n         positive         Montram. U           positive         positive         positive           positive
amotated ms amotated ms amotated ms amotated ms 215,544 10.215,544 12.215,544 12.215,544 12.215,544 12.215,546 12.215,548 12.215,568 12.215,548 120,548 12.215,548 120,548 12.215,548 12000000000000000000000000000000000000	241.145 6 241.145 6 241.145 5 201.154 5 201.154 5 201.154 5 201.154 5 201.154 1 211.170 7 211.170 7 211.17	International manufacture mathematical manufacture management of the second sec
Limary - distance used G771, 18156 64195 Current 4-95, 2021-0-02 64771, 18156 64195 Current 4-95, 2021-0-02 7578, 18156 feet peet Current 4-95, 2021-0-02 6771, 18156 64195 Current 4-95, 2021-0-02 6771, 18155 64195 Cur	ery71, Jackie Gabe, Curreneh Pay, 2021. doi: 2 ery71, Jackie Gabe, Daven Jackie Jackie Gabe, 2 ery213, Jackie Gran, Jackie Pay, 2021. doi: 2 ery213, Jackie Gabe, Jackie Jackie Gabe, 2 ery213, Jackie Gabe, Jackie Jackie Jackie Gabe, 2 ery213, Jackie Gabe, Jackie Jackie Jackie Gabe, 2 ery213, Jackie Gabe, 2 ery214, Jackie Gabe, 2 er	Many - database used
mt. (1, (1, (1, (1, (1, (1, (1, (1, (1, (1,	24.1.1977 700.00 6.0.2 F 24.1.9877 700.00 F 24.0.2 F 24	mt         r,s         r,s         mt         period           222.22000         200.2100 <td< td=""></td<>
Feature M255743 M2157743 M2157743 M255783 M1257743 M1257743 M1257723 M1257772 M1257772 M12577772 M12577772 M12577777777 M125777777777777777777777777777777777777	M2417561 M2417561 M2417561 M2417561 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M267757 M277577 M277577 M277577 M277577 M2777	eture 10,17,05 10,17,05 10,17,06 10,17,05 10,17,06 10,17,05 10,17,
Factor obs:Sham obs:Sham ath:Dam ath:Dam ath:Dam bis:Sham bis:Sham obs:Sham mechDam bis:Sham mechDam mechDam mechDam	season mechbam BBCH mechbam BBCH BBCH height mechbam mechbam mechbam height baskich obsfilch pathbam pathbam obsfilch	Fatter F Fatter 1 height 1 height 1 pathban 1 pathban 2 feld 1 feld 1 fe
ک K ک ک ک ک ک ک ک ک ک ک ک ک ک ک ک ک ک		olettercode
eeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeeee		7 14 10 10 10 10 10 10 10 10 10 10 10 10 10

#### Supplement Table 3a: Metabolite families - continued

count 52	12 L Z Z Z	192	888	108 77	1 2 2	0.01	115	496	184	100	ž,	141	2 2 2	ount	135	135	233	181	39	39	ŧ	303	611	386	142	5 5	64	26	ount 23	44	4	8 8	22	8	22	5	118	209	83	8 13	42	414	15 IS	234	2 2	74
							flavanones							5															ers o	cers cers	ers	ers ers	ers.	ers	ters	ers	cers cers	cers erc	ers	cers cers	cers	sus sus	cers cers	ers	cers cers	ters
						and here here	enylated iso																						iaric acid est	Naric acid est	haric add est	Naric acid est Naric acid est	aric acid est	haric add est	naric acid est naric acid est	anic acid est	harric acid est harric acid est	naric acid est	aric acid est	harric acid est harric acid est	naric acid est	varic acid est	haric acid est haric acid est	aric acid est	haric acid est haric acid est	iaric add est
Parent							(a) 6-pi							Parent				5 5		5 5		2 2			5	5 5	52		(a) Courr	(a) Courr (a) Courr	(a) Count	(a) Courr (a) Courr	(a) Court	(a) Count	(a) Courr (a) Courr	(a) Count	(a) Courr (a) Courr	(a) Court	(a) Count	(a) Courr (a) Courr	(a) Court	(a) Count	(a) Courr (a) Courr	(a) Count	(B) Courr (B) Courr	(a) Count
			a di name a di na	arins														and derivativ	and derivativ	and derivativ	and derivativ	and derivativ	and derivativ	and derivativ	and derivative	and derivativ	and derivativ	add esters	cadd esters	add esters	add esters	add esters	add esters	cadd esters	cadd esters	add esters	add esters add esters	add esters	add esters	add esters add esters	add esters	add esters	add esters add esters	add esters	add esters	c add esters
355			territoria de las constantes de las cons	hydroxycoum		sofiavanols	sofi avanones	terocamane	terocarpans	terocarpans	terocarpans	terocarpans						maric acids a maric acids a	maric acids a	maric acids a maric acids a	maric acids a	maric acids a maric acids a	maric acids a	maric acids a maric acids a	maric acids a	maric acids a	maric acids a	roxycinnamic	; roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	roxycinnami	rowcinnami
Subcis			10.00	199 199		sl (T)	(2) IS	10.012	Ē	88 13 13	Ē	88 88 88 88 88 88 88 88 88 88 88 88 88		Subclass	5 13	5 4	5	es (1) Cour es (1) Cour	es (1) Cour	es (1) Cour es (1) Cour	es (1) Cour	es (1) Cour es (1) Cour	es (1) Cour	es (1) Cour	es (1) Cour	es (1) Cour es (1) Cour	es (1) Cour	es (2) Hydi	subclass es (.2) Hydi	es (2) Hydi	es (2) Hydi	es (2) Hydi es (2) Hydi	es (2) Hydi	es (2) Hydi	es (2) Hydi es (2) Hydi	es (2) Hydi	es (2) Hydi es (2) Hydi	es (2) Hydi	es (2) Hyd	es (2) Hydi es (2) Hydi	es (2) Hydi	es (2) Hydi	es (2) Hydi es (2) Hydi	es (2) Hydi	es (2) Hydi es (2) Hydi	es (2) Hvdi
	pide	oids			vonoids								10		and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ	and derivativ	and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ	and derivativ and derivativ	and derivativ	and derivativ and derivativ	and derivativ
	liandhentan	liar/lheptan zable tannin	a subscreen of	coumarins	vlated isofia	su	6 6	soflavonoid:	soflavonoid	soflavonoid	soffavonoid	soffavonoid	ic acid ester		namic acids	namic acids	namic acids	namic adds	namic acids	namic acids namic acids	namic acids	namic acids namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids	namic acids namic acids	namic acids	namic acids	namic acids namic acids	namic acids	namic acids	namic acids namic acids	namic acids	namic acids namic acids	namicacids
ssen	(111) press	(1) Linear ( (1) Hydroly	11 Decession	(2) Hydroxy (2) Hydroxy	(1) 0-meth	(2) Isoflaw	(2) Isofiave	(3) Furanoi	(3) Furanoi	(3) Furanoi (3) Furanoi	(3) Furanoi	<ol> <li>Furanoi</li> <li>Furanoi</li> </ol>	(1) Cinnam	sse	) Hydroxydini	) Hydroxydini ) Hydroxydini	) Hydroxyaini	) Hydroxydini ) Hydroxydini	) Hydroxydini	) Hydroxydini ) Hydroxydini	) Hydroxyaini	) Hydroxydini ) Hydroxydini	) Hydroxydini	) Hydroxydini ) Hydroxydini	) Hydroxydinr	) Hydroxyani ) Hydroxyaini	) Hydroxydini	) Hydroxyaint	lass 2) Hydroxydin	2) Hydroxydin 2) Hydroxydin	2) Hydroxydin	<ol> <li>Hydroxyan</li> <li>Hydroxyan</li> </ol>	2) Hydroxydin	2) Hydroxydin	<ol> <li>Hydroxydin</li> <li>Hydroxydin</li> </ol>	2) Hydroxydin	<ol> <li>Hydroxyan</li> <li>Hydroxyan</li> </ol>	2) Hydroxydin 2) Hydroxydin	2) Hydroxyan	<ol> <li>Hydroxyan</li> <li>Hydroxyan</li> </ol>	2) Hydroxydin	2) Hydroxydin	<ol> <li>Hydroxydin</li> <li>Hydroxydin</li> </ol>	2) Hydroxydin	<ol> <li>Hydroxydin</li> <li>Hydroxydin</li> </ol>	0) Hydroxelin
			rivatives rivatives	rivatives									d derivatives d derivatives d derivatives	5	rivatives (2	rivatives (2	rivatives (2	rivatives (2 rivatives (2	rivatives (2	rivatives (2 rivatives (2	rivatives (2	rivatives (2 rivatives (2	rivatives (2	rivatives (2	rivatives (2	rivatives (2 rivatives (2	rivatives (2	rivatives (2	0 erivatives (2	crivatives (2	invatives (2	envatives (2	ivatives (	erivatives (2	crivatives (2	crivatives (2	erivatives (2	crivatives ()	crivatives (2	erivatives (2	crivatives (2	crivatives (2	irivatives (2	invatives (2	ivatives (	nivatives 0
	nes hentanoide	heptanoids ns	arins and de arins and de	arins and de	vonoids vonoids	vonoids	vonoids	vonoids	vonoids	vonoids	vonoids	vonoids vonoids	mic acids an mic acids an mic acids an		acids and de	acids and de	acids and de	acids and de	acids and de	acids and de acids and de	acids and de	acids and de acids and de	acids and de	acids and de	acids and de	acids and de acids and de	acids and de	scids and de	acids and de	acids and de	adds and de	adds and de adds and de	acids and de	adds and de	acids and de acids and de	acids and de	adds and de adds and de	acids and de	acids and de	acids and de acids and de	adds and de	acids and de	acids and de acids and de	acids and de	acids and de acids and de	adde and de
Superclass	s (A) Stilbe (B) Diand	s (B) Diaryl s (C) Tanni	s (D) Coum a (D) Coum	(D) Coum	E) Isofia	s (E) Isofia	s (E) Isofia (E) Isofia	s (E) Isofla e (E) Isofla	e (E) Isofia	s (E) Isofla (E) Isofla	s (E) Isofia	s (E) Isofia s (E) Isofia	s (F) Cinna (F) Cinna (F) Cinna	uperclass	) Cinnamica	<ol> <li>Ginnamica</li> <li>Ginnamica</li> </ol>	) Cinnamica	<ul> <li>) Cinnamic a</li> <li>) Cinnamic a</li> </ul>	) Cinnamic a	<ol> <li>Ginnamica</li> <li>Ginnamica</li> </ol>	) Gnnamica	<ol> <li>Ginnamica</li> <li>Ginnamica</li> </ol>	) Cinnamic a	<ol> <li>Ginnamica</li> <li>Ginnamica</li> </ol>	) Cinnamic a	) Cinnamica ) Cinnamica	) Cinnamic a	) Cinnamic a	uperclass F) Cinnamic	<ul> <li>F) Cinnamic</li> <li>F) Cinnamic</li> </ul>	F) Cinnamic	<li>F) CINNAMIC</li>	F) Cinnamic	F) Cinnamic	<ul> <li>F) Cinnamic</li> <li>F) Cinnamic</li> </ul>	F) Cinnamic	F) CINNAMIC F) CINNAMIC	F) Cinnamic	F) Cinnamic	F) CINNAMIC F) CINNAMIC	F) Cinnamic	F) Cinnamic	<li>F) Cinnamic</li>	F) Cinnamic	<li>F) Ginnamic</li>	E) Cinnamic
d polyketide	id polyketide id polyketide id polyketide	d polyketide d polyketide	id polyketide id polyketide	d polyketide	d polyketide d polyketide	d polyketide	d polyketide	d polyketide d polyketide	d polyketide	id polyketide d polyketide	d polyketide	id polyketide id polyketide	id polyketide id polyketide id polyketide		yketides (F	yketides (F vketides (F	yketides (F	yketides (F vketides (F	yketides (F	yketides (F vketides (F	yketides (F	yketides (F vketides (F	yketides (F	yketides (F vketides (F	yketides (F	yketides (F vketides (F	yketides (F	yketides (F	s lyketides (	lyketides (	lyketides (	lyketides (	lyketides (	lyketides (	lyketides ( lyketides (	lyketides (	lyketides ( lyketides (	lyketides (	lyketides (	lyketides ( lyketides (	lyketides (	lyketides (	lyketides ( lyketides (	lyketides (	lyketides ( lyketides (	Interlides (
opanoids an	opanoids an opanoids an opanoids an	opanoids an opanoids an	opanoids an	opanoids an	opanoids an	opanoids an	opanoids an	opanoids an	opanoids an	opanoids an	opanoids an	opanoids an opanoids an	opanoids an opanoids an opanoids an		lod pue spie	ids and pol-	ids and pol	ids and pol	lod pue spie	ids and pol-	lod pug spie	ids and pol	lod pue spie	ids and pol	ids and pol-	ids and pol	ids and pol-	ids and pol	oids and po	oids and po	oids and po	oids and po	oids and po	oids and po	oids and po	oids and po	oids and po oids and po	oids and po	oids and po	oids and po oids and po	oids and po	or or and pro	oids and po	oids and po	oids and po oids and po	oids and po
ungaom 08) Phenylpr	08) Phenylpr 08) Phenylpr 08) Phenylpr 08) Phenylpr	08) Phenylpr 08) Phenylpr	08) Phenylpr 08) Phenylpr 08) Phenylpr	08) Phenylpr 08) Phenylpr	08) Phenylpr 08) Phenylpr	08) Phenylpr	08) Phenylpr	08) Phenylpr 08) Phenylpr	08) Phenylpr	08) Phenylpr 08) Phenylpr	08) Phenylpr	08) Phenylpr 08) Phenylpr	08) Phenylpr 08) Phenylpr 08) Phenylpr	F	envilpropano	envipropano	envipropano	envipropano	enylpropano	envipropano	envipropano	envipropano	enylpropano	envipropano	envipropano	envipropano	enylpropano	envipropano	am henylpropan	nenylpropan nenylpropan	nenylpropan	nenyipropan nenyipropan	nenyipropan	nenylpropan	nenylpropan	henylpropan	nenyipropan nenyipropan	nenylpropan	nenylpropan	nenyipropan nenyipropan	nenylpropan	renylpropan	nenyipropan nenyipropan	henylpropan	nenvipropan nenvipropan	actionationed
28	882 4-88	13-00 10-00		08-D21	11-12-00	0-E21	08-E2.2a	8-8- 1-8-8-	18.0	0.6-81	18-81	0 18-81 0 8-81	18-FI	Kingdo	(08) Ph	44 (80) 44 (80)	H4 (80)	12 (08) Ph	1 (08) Ph	H (08) Ph	21 (08) Ph	H (08) Ph	1 (08) Ph	21 (08) Ph	2.1 (08) Ph	H (08) Ph	21 (08) Ph	22 (08) Ph	Kingdo 2.2a (08) PI	2.2a (08) PI	2.2a (08) PI	2.2a (08) PI	2.2a (06) PI	2.2a (08) PI	2.2a (08) PI 2.2a (08) PI	2.2a (08) PI	2.2a (08) PI	2.2a (08) PI	2.2a (08) PI	2.2a (08) PI 2.2a (08) PI	2.2a (08) PI	2.2a (08) PI	'2.2a (08) PI '2.2a (08) PI	2.2a (08) PI	'2.2a (08) PI '2.2a (08) PI	10 100/ CC C:
ue pivietram 045 pivietran	042 pMetfan 042 pMetfan 036 pMetfan 026 pMetfan	037 pMetFan 033 pMetFan	024 pMetfan 024 pMetfan 027 pMetfan	011 pMetFan	045 pMetFan 045 pMetFan	049 pMetFan	030 pMetFan	048 pMetFan 047 nMetFan	047 pMetFan	050 pMetFan 050 nMetFan	050 pMetFan	033 pMetFan 026 pMetFan	048 pMetfan 048 pMetfan 035 pMetfan	letFam_ID	letfam_08-F	letfam_08-Fi letfam_08-Fi	letfam 08-F	letfam_08-F. letfam_08-F.	letfam 08-F	letfam_08-Fi letfam_08-Fi	letfam 08-F	letfam_08-Fi letfam_08-Fi	letfam 08-F	letfam_08-F	letfam_08-F	letfam_08-F	letFam_08-F.	letfam_08-F	MetFam_ID MetFam_08-I	MetFam_08-1 MetFam_08-1	MetFam_08-I	Metham_08-1 Metham_08-1	MetFam_08-1	MetFam_08-I	MetFam_08-I MetFam_08-I	MetFam_08-I	MetFam_06-I MetFam_06-I	MetFam_08-1 MetFam_08-1	MetFam_08-	MetFam_06-I MetFam_06-I	MetFam_08-1	MetFam_08-1	MetFam_08-I MetFam_08-I	MetFam_08-I	MetFam_08-I MetFam_08-I	MetFam 08-1
2.275 0.	3.263 3.263 1.2.679 3.563 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.579 0.0 2.563 0.0 2.550000000000000000000000000000000	6.350 0.	7.962 0.	4.886 0.	8.025 0.	3029	4.384 0.	14.258 0.0 4.642 0.0	4.642 0.	2011 00	2 011 0	2.989 0. 3.413 0.	11.610 0. 11.610 0. 7.797 0.	p-value pM	0.044 pN	0.044 pN 0.044 pN	0.046 pN	0.037 pN 0.037 pN	0.026 pN	0.026 pN 0.037 pN	Mq 650.0	0.039 pN 0.021 pN	0.027 pN	0.007 pN	Mq 650.0	0.016 pN 0.014 pN	0.007 pN	0.028 pN	6 0.022 pl	5 0.009 pl	5 0.009 pl	6 0.016 pl	2 0.018 pl	0 0.007 pl	6 0.024 pl 1 0.024 pl	0 0.015 pl	0 0.014 pl 1 0.013 pl	2 0.019 pl	0 0.007 pl	0 0.024 pl	5 0.009 pl	1 0.024 pl	5 0.015 pl	0 0.008 pl	Id 600.0 8	0 000 B
mz annocate 138	144 132 180	128	118	199 199	110	920	148	122	E	107	101	80 80	148 149 149	otated rt_m	4.886	4.806	3.178	4.049	7.401	7.401	6.306	3.996 2.272	6.281	2.442	3.996	8.215 2.493	4.886	8.001	notated rt_m 4.83	10.09	10.09	262	3.20	4.26	7.87	6.07	353	9.33	4.26	2.85	10.09	4.40	5.66	3.93	5.49	5.49
annotated 1 263.	499. 369. 3 161	341	18 18 381	207.	347.	273.	175.	181.	373.	986 986	i ĝ	291.	261. 261.	ated mz ann	207.065	207.065	163.040	207.065	515.154	515.154 369.119	207.065	147.044 251.140	233.081	163.040 233.081	147.044	147.045	207.065	307.102	275.151	351.107	351.107	370.110	370.110	341.138	361.091	177.127	495.134	427.196	341.138	147.044	351.100	227.164	321.218 177.127	147.044	147.044	147 044
L-09-02	L-09-02												L-09-02	annol	9-02	9-02					9-02								uue																	
ted-Pos_202	ted-Pos_202 ted-Pos_202 w_2021-09-00 w_2021-09-00	w_2021-09-0	w_2021-09-0. w_2021-09-0.	w 2021-09-00	w 2021-09-00	w 2021-09-07	w_2021-09-0	w_2021-09-03	w_2021-09-07	w_2021-09-03	w 2021-09-00	w_2021-09-00 w_2021-09-00	ted-Pos_202 ted-Pos_202 w_2021-09-07	50	ectra_2021-0	ectra_2021-( ectra_2021-(	2021-09-02	21-09-02 21-09-02	9-02	6-02 6-02	ectra_2021-(	2021-09-02	2021-09-02	2021-09-02	2021-09-02	2021-09-02	2021-09-02	9-02	-09-02	-09-02	-09-02	-09-02	-09-02	-09-02	-09-02 -09-02	-09-02	-09-02	-09-02	-09-02	-09-02 -09-02	-09-02	-09-02	-09-02 -09-02	-09-02	-09-02 -09-02	0.00
se used Respect-Cura	Respect-Cura Respect-Cura ctra_pos_ne ctra_pos_ne	dra_pos_ne	an soq etb an soq etb	dra pos ne	dra pos ne	dra pos ne	dra_pos_ne	dra pos_ne	dra_pos_ne	dra pos_ne	dra_pos_ne	dra_pos_ne dra_pos_ne	Respect-Cura Respect-Cura ctra_pos_ne	0 1000	C-MS-MS_P	as SM-SM-0.	urated-Pos	ated-Pos_20 ated-Pos_20	new 2021-(	new_2021-0 new_2021-0	C-MS-MS_P	Curated-Pos Curated-Pos	urated-Pos	Curated-Pos	ursted-Pos	Curated-Pos Curated-Pos	urated-Pos	new_2021-(	s_new_2021	s new 2021 s new 2021	s_new_2021	s new 2021 s new 2021	s new 2021	s_new_2021	s_new_2021 s_new_2021	s_new_2021	s_new_2021 s_new_2021	s_new_2021	s new 2021	s_new_2021 s_new_2021	s_new_2021	s_new_2021	s_new_2021 s_new_2021	s_new_2021	s_new_2021 s_new_2021	TCUC mon 2
2768_MSMS-	2768_MSM5- 2768_MSM5- 2214_lib_spe 2214_lib_spe	2214_IIb_spe 2214_IIb_spe	2214_IIb_spe 2214_IIb_spe	2214 IIb spe	2214 lib spe	2214 lib spe	2214_11b_spe	2214_IIb_spe	2214_IIb_spe	2214_IIb_spe	2214_IIb_spe	2214_IIb_spe 2214_IIb_spe	2768_MSM5- 2768_MSM5- 2214_Iib_spe	abase used	oNA-export-	oNA-export-l oNA-export-l	MS-Respect-	MS-GNPS-Cur MS-GNPS-Cur	spectra_pos	spectra pos	oNA-export-	VIS-Respect-	MS-Respect-	MS-Respect-	MS-Respect-	VIS-Respect-	VS-Respect-	spectra_pos	spectra_po	spectra po	spectra_po	spectra_po	spectra_po	_spectra_po	spectra_po	spectra_po	_spectra_po	_spectra_po	spectra_po	_spectra_po	_spectra_po	_spectra_po	spectra_po	spectra_po	spectra po	contro no
1 AP R-	8 8 8 9 5 8 8 8 5 8 8 5 5	8 0 E 0	2 2 1 2 2 1	6 40 5 RA 3 RA	20	8 2 1 8 8 9	2 PA	0 GP 15	4 DG	2 DG 8 DG 8	S PA	4 4 8 4 8	007 007	Library - dat	M-21906 M	M-21908_M	R-2768_MSI	6-3771_MSI 6-3771_MSI	-2214_11b	L-2214_IIb_	M-21908 M	R-2768_M51 R-2768_M51	R-2768 MSI	R-2768_MSI R-2768_MSI	R-2768_MSI	R-2768 MSI R-2768 MSI	R-2768_MSI	L-2214_IIb_	s Library - di L-2214_Jib	L-2214_11b	L-2214_11b	L-2214 115	L-2214_10	L-2214 11b	L-2214_1ib L-2214_1ib	L-2214_11b	L-2214_11b	L-2214_1ib	L-2214_1(b	L-2214_115	L-2214_11b	L-2214_11b	L-2214_11b L-2214_11b	L-2214_1ib	L-2214_IIb L-2214_IIb	411 &12 C-1
 74.082 2.90	94.149 3.23 94.149 3.23 42.124 12.36 04.517 5.07	60.552 6.00 79.036 6.31	75.541 7.92 75.541 7.92 60.075 2.69	91.373 4.05 33.799 10.56	00.193 8.33	69.788 2.83	95.339 4.92	54.346 14.23 76.406 4.60	76.406 4.60	99.274 4.96 99.274 4.96	99.274 4.98	74.684 2.91 03.273 3.38	95.297 11.58 95.297 11.58 65.840 7.76	m species	So4 HL	504 PA	042 LV	145 PA 145 PA	353 D.G	353 D.G 776 FR	628 FR	156 PL 209 AP	254 GP	409 KA 254 PA	979 PP	665 PP 389 RA	330 R.A	516 HL	Lm specie 4.803 A0	0.069 LV	0.069 LV	2.595 AP	3.187 AP	4.488 CI	7.249 DG 6.445 FR	6.010 FR	4.995 FR 3.668 FR	3.962 GP 9.962 HI	4.488 KA	5.632 LV 2.694 LV	0.069 LV	4.374 PA	5.614 PA 6.010 PP	3.747 PP	5.406 RA 5.406 RA	5 406 PA
1 313131313 1	09.1426252 1 09.1426252 1 09.1324414 7 09.1324414 7	23.1327032 3 11.1362548 3	11173599 4 11173599 4 121705511 1	7.0654284 2	17.0757352 5	1.1000001	5.1480374 2	31.1222311 8 11.27427 2	3 1127427 2	59.1068074 2 59.1068074 2	9.1068074 2	AL0861592 1 AL0861657 2	sl.1483944 6 sl.1483944 6 s3.1490664 4	ਸਿੰਡ ਹੋਰ ਸਿੰਡ	270.213 4	270.213 4	182.529 3.	248.703 4. 248.703 4.	441.168 7	441.168 7. 286.546 4.	397.657 6.	189.349 3. 132.532 2.	375.232 6.	375 232 6	238.730 3.	519.882 8. 113.322 1.	259.814 4	450.942 7.	7 288,180	1 604.117 1	1 604.117 1	1 155.697 0 155.697	101 101 0	2 269.286	d 434.921 9 386.689	d 360.616	2 220.081	5 237.704 25 508 066	2 269.286	8 337.916 4 161.641	1 604.117 1	1 262.432	1 336.819 d 360.616	7 224.810	9 324.379	6/2 PCE 6
53T174 26	997194 45 997194 45 997742 36 117305 14	23T361 22	817476 30 817476 30 87747 30	077291 20	71500 34	7371.70 25	5T295 10	31T054 10 12T276 21	131276 31	59T299 31 191299 31	397299 31	a17175 29 a17203 29	511695 26 511695 26 331466 45	12 041 0450045	207.0653517	207.0653517	163.0394705	207.0651231 207.0651231	515.1535289	515.1535289 369.117543	207.0652593	147.0443204 251.1388214	233.081045	163.0392152 233.081045	147.0443784	147.0441969	207.0652892	307.1019816	mz 275.150077	351.106832	351 106832	370.109930	370.109772	341.13710	361.091159	177.127420	495.152954 339.106257	425.141032	341.13710	183.065465 147.044297	351.106832	227.164129	321.216841 177.127420	147.044342	147.044317	147 044317
osRich M2	athDam M4 athDam M4 sight M3 sight M3	thDam M3	sight MB 8CH MB	CH WD	sRich M3-	tight M2	osRich ML	Shan MU Schan M2	echDam M3	echDam M3	sRich M3	eight M2 eight M2	echDam M2 sight M2 sShan M4	sature r	2071270	2071270	1637183	207T249 207T249	5157441	5157441 3697287	3651102	1477189 2517133	2331375	163T145 233T375	147T239	1477520	2071260	3071451	Feature M275T288	M351T604 M351T604	M351T604	M370T156	1611076M	M341T269	M361T435 M163T387	ML77T361_2	M4931300 M3391220	M425T238 M323T508	M341T269	ML83T338 ML47T162	M3511604	M227T262	M321T337 ML77T361 2	ML47T225	ML47T324 ML47T324	M147T324
ettercode P	u a ž i	ι ν Ĕ.	2 ai à	:	. o ž	. <i>с</i> і		0 0	, E	v 5		£ Ē	ετō	actor F	teason N	pathDam A NBCH M	obsRich N	BBCH A North Control of the American Section Section 2014 International Section 2014 International Section 2014	nechDam N	pathDam A PathDam M	nedsede	pathDam A vbsRich M	SBCH N	BBCH N nechDam M	oathDam N	pathDam A vbs5han M	obsRich N	nechDam A	Factor season	obsShan heisht	pathDam	height	season	season	mechDam BBCH	season	obsRich obsShan	BBCH	obsRich	BBCH mechDam	season	pathDam	pathDam	pathDam	obsRich mechDam	nathDam
AP	£ £ 6 c	ere ere	ಕೆಕೆ	www.A0 RA	00	e 6	PA	6P	DG	D G	PA	88	00±	etterCode F		_ 4				- 9		- 0		~ -	-	- 0	,	-	oletterCode				0.00													
ectes enuia pubescens	fruce rubre Journ pretence Journ pretence Marree Jacoe	riuce rubre canthemam vulg	majo laneolar majo laneolar	thousanthum odio suncutus antis	ataurea jacea Vaurea jacea	leum pratence	emum prenuse a pretensis	ranium protence Accuration color	tiple picmente	cipils giomente volo cirmente	e pretensis	èum pratense èum pratense	ataures jaces daures jaces ntego lanaciata	Twoh	Ξ	HL PA	lave LV	PA PA	DG	90 H	£	а 4 А	GP	RA Pa	8	4 Z	RA	Ŧ	vicratum A0	udare LV udare LV	vuigare LV	the AP	AP AP	0	wa Dé	£ i	¥ ¥	49 II	KA	rugare LV	vijare LV	PA	∀d .	: & i	r RA	r RA
au \$	e e é é	Fee Leve	223	And	88	No.	202	Ger.	â	2 Dec	ŝ.	₹ ₹	555				o unde		0,000	1919	÷	-colar.	asu	÷	5	* *	oute	*	n or	1 (10)	orom s.	these the	these	(eces	vmera	2	2 2	reter	ensoir	1 0000	a mont	-12	sols trense	dense	or acred	ur antir

### Supplement Table 3a: Metabolite families - continued

Supplement Table 3	3a: Metabolite	families – continued
--------------------	----------------	----------------------

Twob	tterCode Factor	Feature	m2 rt_s rt_m s 611 15051 360 165 4 336 D	pecies Library - database used to	annotated mz annol	ated rt_m p-	value p[MetFam_ID 0.041 ntitatEam_00.6	Kingdom 000 Bhanderonsnoide and polisianidae	Superclass	Class	Subclass	Parent	count
	obsShi	12212120 UB	315.0657828 771.201 12.653 C	J L-2214_IIb_spectra_pos_new_2021-09-02	315.086	12.873	0.032 pMetFam_08-GL1	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(1) 6-0-methylated flavonoids		3 8
	height	TE169EW	369.1175322 311.475 5.191 FI	R R-2768_MSMS-Respect-Curated-Pos_2021-09-02	369.118	5.035	0.028 pMetFam_08-G1.2	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(.2) 3'-O-methylated flavonoids		19
	VINSO0	TELESCHI UNICATION	4 TAT'S S/HTTS 7755/TT'606	B. KZ/08_MD/MS-Respect-Unlated-Pos_ZUZ-09-02 G.2771_INCMC_GMDC_CUMPLACEDor_2021_00.02	0C1 501	660-6	0.028 pHetram_08-61.2	(00) Phenyipropanoids and polyketides (00) Phenyipropanoids and polyketides	(c) Flavonoids	(1) 0-methylated flavonoids (1) 0-methylated flavonoids	(.2) 5-0-methylated flavonoids (.3) 7-0-methylated flavonoids		10
	BBCH	N189T258	1201273278 257 884 4 248 PI	P G-3771 MSMS-GMPS-Curated-Doc 2021-09-02	189.128	4 322	0.029 pMetFam 08-61 3	(08) Phenylpropanoids and polyketides	(G) Elavonoids	(1) 0-methylated flavonoids	<ul> <li>(3) 7-0-methylated flavonoids</li> </ul>		282
	seasor	9 M625T416	1 625.1754202 418.015 6.967 FI	R L-2214 lib spectra pos new 2021-09-02	625.176	7.212	0.033 pMetFam 08-61.3	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(L) 0-methylated flavonoids	(.3) 7-0-methylated flavonoids		Ц
	pathDa	am M579T457	579.1700155 457.215 7.620 A	0 L-2214_lib_spectra_pos_new_2021-09-02	021/625	7.905	0.048 pMetfam_08-GL4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		126
	height	· M282T285	282.1591756 285.075 4.751 A	.0 L-2214_lib_spectra_pos_new_2021-09-02	282.159	4.819	0.050 pMetFam_08-GL4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		21
	obsShi	an MI37T157	137.0598533 157.411 2.624 A	P L-2214_IIb_spectra_pos_new_2021-09-02	137.060	2.779	0.017 pMetFam_08-GL4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(L) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		257
	seasor	n M333T345	333.1229394 349.152 5.819 A	P L-2214_IIb_spectra_pos_new_2021-09-02	333,123	5.858	0.017 pMetFam_08-61.4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		<b>љ</b>
	neigu	MI555154	H ATS'S 75T'A+5 +ASA77T'SSS	r r-rrt+Tip_spectra_pos_new_zurt-us-uz	27T'222	2000	WULL PRETATION	(VS) Phenyipropanolds and polyketides	(o) Flavonoids	(T) 0-methylated flavonolds	(.4) 8-0-methylated flavonolds		
	obs5h.	an M3311745	331.0809485 744.847 12.414 C	J L-2214_IIb_spectra_pos_new_2021-09-02	1907155	12.108	0.006 pMetFam_08-GL4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		<del>9</del>
	UCS GO	AVITS2M ns	281.1020340 //8.430 12.9/4 F	R L-ZZI4_IID_spectra_pos_new_ZUZI-US-UZ	201.102	166.71	0.01/ phietram_08-614	(US) Phenylpropanoids and polyketides	(c) Flavonoids	(T) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		n 1
	padito	ARE NULSSING.	5 5/// +05/804 25/+TOTION	V L-2014 Lib control program 2001-00-02	201/021	2001	0.040 philetrain 00-01 A	(00) Distanting and a bioarcondramination (00)	(G) Elsopoids	<ol> <li>Ormetrigated navonolds</li> <li>Ormetridated flavonolds</li> </ol>	(-4) 0-0-method accumation of the (-4) 0-0-method steed flavorooids		201
	obsRic	4. MISTTER	137.0596533 157.411 2.624 P	A L-2214 IIb spectra pos new 2021-09-02	137.060	2.779	0.017 pMetFam 08-GL4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(1) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		257
	Season	n M217T842	217.1580447 842.361 14.039 P.	A L-2214 lib spectra pos new 2021-09-02	217.159	14.043	0.017 pMetFam 08-GL4	(08) Phenylpropanoids and polyketides	(G) Flavonoids	(L) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		8
	mechD	am M217T842	217.1580447 842.361 14.039 P	A L-2214_lib_spectra_pos_new_2021-09-02	217.159	14.043	0.017 pMetfam_08-61.4	(08) Phenylpropanoids and polyketides	: (G) Flavonoids	(1) 0-methylated flavonoids	(.4) 8-0-methylated flavonoids		8
	BBCH	M359T270	359.1351594 270.124 4.502 P.	A 6-3771_MSMS-GNPS-Curated-Pos_2021-09-02	359.135	4.523	0.037 pMetFam_08-62	(08) Phenylpropanoids and polyketides	: (G) Flavonoids	(2) Flavonoid glycosides			16
ettert	Code Factor	Feature	mz nt_s nt_m si	pecies Library - database used	annotated mz anno	tated rt_m p	value pMetFam_ID	Kingdom	Superclass	Class	Subclass	Parent	count
	patho	am M46/114.	0 3001 11211 //TRUGO/04 1	50 G-21/1_MSMS-GNPS-Curated-Pos_2021.00.00 M C 2721 ANSING CURPCOLLEGED-POS_2021.00.00	467.052	2049	0.015 pMetram_06-621	<ul> <li>(us) Phenylpropanoids and polyketide</li> <li>(us) phenylpropanoids and polyketide</li> </ul>	(d) Flavonoids	(2) Flavonoid giycosides	(T) Flavonoid O-glycosides		a Ē
	ohebio	4 M449T474	7 2027 1/2/1/1 1/2/2/1 1/2/2/2/1/2/1/2/2/2/2/2	B G. G. 2771 MCMS. GMBS. CULORED FOS. 2021-09-02	449.107	1001	0.023 pMetfam 08.621	<ul> <li>(oo) menyipropanotas and polyketue</li> <li>(00) Phendronanoids and polyketide</li> </ul>	e (G) Flavonoide	(2) Flavonoid giyoosides (2) Flavonoid elvossides	<ol> <li>Flavoroid 0-shoosides</li> </ol>		171
	BBCH	M449T474	449.1065634 474.274 7.905 L	V 6-3771 MSMS-GNPS-Curated-Pos 2021-09-02	449.107	7.941	0.023 pMetFam 08-62.1	(08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-plvcosides		171
	height	· M449T554	449.106972 553.885 9.231 K	A L-2214 lib_spectra_pos_new_2021-09-02	449.107	9.271	0.038 pMetfam_08-62.1	(08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides		69
	BBCH	M387T274	387.2002741 273.972 4.566 L	V M+21908_MoNA+export-LG-MS-MS_MS_Spectra_2021-09-02	387.200	4.633	0.050 pMetFam_08-62.1:	a (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides	(a) Anthocyanins	13%
	pathD.	am M387T274	387.2002741 273.972 4.566 P	N. M-21908_MoNA-export-LC-MS-MS_Spectra_2021-09-02	387.200	4.633	0.050 pMetFam_08-62.1	a (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(.1) Flavonoid 0-glycosides	(a) Anthocyanins	13
	seaso	n M435T44!	435.0909912 445.384 7.423 6	5P L-2214_lib_spectra_pos_new_2021-09-02	435.091	6.865	0.042 pMetfam_08-62.1	.b (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides	(b) Flavonoid O-glucuronides	â
	BBCH	-6516TSW	519.1125512 594.242 9.904 L	V L-2214_IIb_spectra_pos_new_2021-09-02	519.114	9.945	0.042 pMetFam_08-62.1	b) (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides	(b) Flavonoid O-glucuronides	
	mean	Jam N44/168.	4 /THTE 820.029 82/02/21/44	P L-ZZI4_IID_Spectra_pos_new_2021-09-02	44/.125	11440	0.016 pMetram_08-62.1	D (US) Phenylpropanoids and polyketide	(d) Flavonoids	(Z) Flavonoid giycosides	(T) FIGVODOID O- DYCOSIDES	(b) Flavonoid O-glucuronides	
	CONCOL	APACTERS.	V CIC 0 VOZ CAR NOVCCUT ADC	V 0. GLAZTI MEMOLOMIC CULTURE CULTURE VOLTORION	70E 102	0 606	0.040 philetrain_00-02.1	<ol> <li>(vo) Frienyipropanorus and polykeuue</li> <li>(vo) Bhanderonanorde and notideatide</li> </ol>	(d) riavonoida	(2) Elsonorid aluccidad	(1) Elsonaid Ordinaridar	(c) FLAVOROTOTICS-OF-BLYCOSTUES	
	Depart	N424T83	A 10/2 1 738 58 401301.002	Construction of the second se second second sec	424 180	1.415	0.035 nMetfam 08-62 1	<ol> <li>(o) mempiopanoids and polyectics (08) Phendronanoids and polyectics</li> </ol>	s (G) Elavonoids	(2) Elevanoi d'alvosi des	(1) Elsonoid 0-plocosides	(c) Flavonoid-3-0-glycosides	
	height	· M262T83	2621282972 83.407 1.390 A	(P 6-3771 MSMS-GNPS-Curated-Pos 2021-09-02	262 128	1417	0.042 pMetfam 08-62.1	c (08) Phenylpropanoids and polyketide	(G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-plvcosides	(c) Flavonoid-3-0-stycosides	
	BBCH	M448T183	448.1271116 183.267 3.054 A	0 6-3771 MSMS-GNPS-Curated-Pos 2021-09-02	448.128	3.008	0.040 pMetfam 08-62.1	c (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glvcosides	(c) Flavonoid-3-0-glycosides	
	pathDa	am M4611573	46L1068196 573.185 9.553 A	(P G-3771_MSMS-GNPS-Curated-Pos_2021-09-02)	461.107	9.583	0.035 pMetFam 08-62.1	c (05) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-plycosides	(c) Flavonoid-3-0-et/vcosides	
	seasor	n M339T532	339.1068483 532.144 8.869 D	06 6-3771 MSMS-6NPS-Curated-Pos 2021-09-02	339.107	8,555	0.037 pMetfam 08-62.1	c (08) Phenybropanoids and polyketide	s (6) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glvcosides	(c) Flavonoid-3-0-glvcosides	
	pathDa	M4957775	495 1276503 772 707 12 878 F	R 6-3771 MSMS-6NPS-Curated-Pox 2021-09-02	495 129	12 842	0.013 pMetFam 08-62 1	c (08) Phenylpropanoids and polyketide	6) Flavonoids	(2) Elavonoid elvosides	(1) Flavonoid 0-etvosides	(c) Flavonoid-3-0-etvcosides	
	BBCH	M463T665	463.1224315 664.713 11.079 L	V G-3771 MSMS-GNPS-Curated-Pos 2021-09-02	463.122	11.091	0.012 pMetFam 08-62.1	c (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides	(c) Flavonoid-3-0-glycosides	
	BBCH	M611T301	611 1596254 301 345 5 022 1	V 6-3771 MSMS-GNPS-Curated-Pos 2021-09-02	611 160	5.576	0.013 pMetfam 08-62.1	c (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-plycosides	(c) Flavonoid-3-0-etycosides	0
	BRCH	MAASTRAS	1 (29 2 996 222 2299211 392	V G.2771 MGMS.GMPS.Gurated.Doc 2021.09.02	345 119	5 917	0.037 nMetFam 08-62 1	c (08) Dhendronanoide and nolytetide	e (G) Elsonoide	(2) Flavonoid elucosidas	(1) Flavonoid O-alvoorides	(c) Flavonoid-3-0-churosides	
	obdel	COLOUR 1	a store tot off accounting	A DESCRIPTION OF A DESC	405 100	100 01	TTO OF IND DAMA ICON	. (00) Discontranspiration of the state o	(d) Havenoide	(2) Elemental atmosfieldor	2.1.1 Elemented Organization	contraction of a provided	
	Dinem Dinem	101120101010101	d 221 0 002 007 100200 002 002	N GLEAT MONDONCONDCLOUGHER SOLUTION OF N GLEAT MONDCLONDCLOUGHER SOLUTION OF N GLEAT MONDCLONDCLOUGHER SOLUTION OF N GLEAT MONDONCONDCLOUGHER SOLUTION OF N GLEAT MONDONCONDCLOUR SOLUTION OF N GLEAT N MONDONCONDCLOUR SOLUTION OF N MONDONCONTONCON OF N MONDONCONTONCON OF N MONDONCONTONCONTONCON OF N MONDONCONT	300,000	7 015	0.027 nHates an 00.021.	<ul> <li>(vo) Filenyipropanoids and polykeude</li> <li>(00) Dhambronanoids and polykatida</li> </ul>	(G) Elseonoide	(2) Elsuonoid atuonidan	(1) Elsonoid Ordinoridae	(c) Elsonoid-2-Ordinovides	0 0
	medic	7dill 11205145.	1 //TO 060/064 TO0/060/600 0	C. STATA_MOND_GNPC_CUIDECUTOS_EXELOTOR M. C.2771_MCMCC.CMDC.CUIDECUTOS_EXELOTOR	202,020	CT6.1	0.027 pHote am 00-021	<ul> <li>(vo) Filenyipropanorus and polykeute</li> <li>(vo) Bhandaronanorus de and polykeute</li> </ul>	<ul> <li>(a) riavonoida</li> <li>(b) Elsopoida</li> </ul>	(2) Elsonorid aluccidad	(1) Elsonaid Ordinaridar	(c) Flavoroid-2-0-divosides	
	mecht	94197211 MBC	4 064-7 T74-644 /85/T60'575	Z0+60-TZ0Z S04-DateInterceNet-CNUCIN_TZ/2-0	760.975	74.1	U.US/ phietram_US-02.1	c (us) Phenyipropanolds and polyketide	S (6) Flavonoids	(2) FLAVOROID BIVCOSIDES	(T) Flavonold 0-Blycosides	(c) Flavonold+3-U-glycosldes	n 1
	mecht	0am M309149.	d //TR 065060 T09/060605	P 0-2/17 MD/MD-GMPD-CAUSted-Fox 20/21-09-02	2020.202	CT6./	0.05/ pMetham_08-62.1	c (08) Phenylpropanoids and polyketide	S (G) FIEVONOIDS	(2) Flavonoid glycosides	(T) FISVONOID O- BIVCOSIDES	(c) Flavonoid-5-0-glycosides	5. 1
	BBCH	M449T43.	449.1069703 432.106 7.202 L	V L-2214 lib_spectra_pos_new_2021-09-02	449.108	7.238	0.043 pMetfam_08-62.1	.c (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides	(c) Flavonoid-3-0-glycosides	9
	obs5h.	an M611137.	6111596341 377.930 6.299 A	.P M+21908_MoNA+export-LC-M5-M5_Spectra_2021-09-02	611.161	6.874	0.040 pMetFam_08-62.1	.c (08) Phenylpropanoids and polyketide	s (G) Flavonoids	(2) Flavonoid glycosides	(1) Flavonoid 0-glycosides	(c) Flavonoid-3-0-glycosides	8
	patho	VGIT6HM WB	9 545'6 41/7/5 ST14/TT164	W-Z1908_MONA-export-to-Mb-Mb-Mb Spectra_2021-02-02	/11 166	599.6	0.054 pMetham 08-62.1	.c (us) Phenylpropanoids and polyketide	S (G) FIGVODOIDS	(2) Flavonoid glycosides	(T) FISVONOID O- BIVCOSIDES	(c) Flavonoid-5-0-glycosides	4
	medil	VSITION ME	6111596341 3//.930 6.294 A	W M-ZL908_MoNA-export-LC-MD-MS_Spectra_2021-09-02	101110	0.8/4	0.040 pMetham_08-62.1	.c (06) Phenylpropanoids and polyketide	(6) Flavonoids	(2) Flavonoid glycosides	(.1) Havonoid 0-glycosides	(c) Flavonoid-5-0-glycosides	9.
	BBCH	M653T48:	653.1705556 485.014 8.084 A	VP M+21908_MoNA+export-LC-M5-M5_Spectra_2021-09-02	1/1759	1151	0.031 pMetFam_08-62.1	.c (08) Phenylpropanoids and polyketide	(G) Flavonoids	(2) Flavonoid glycosides	(.1) Flavonoid 0-glycosides	(c) Flavonoid-3-0-glycosides	
	Seaso	n M449159.	H 500.0 956/52 201761 546	1L Mr-21908_MONA-export-LC-MD-MS_Spectra_2021-09-02	143.141	0.004	0.035 pMetham_08-62.1	.c (us) Phenylpropanoids and polyketide	(d) Flavonoids	(Z) Flavonoid giycosides	(T) FIGVOROID O- BIYCOSIDES	(c) Flavonoid-5-0-glycosides	
	1099	OPTIMIZED	1 G0/10 G06/2014 ##606#TTRG	V NI-20-20 NOVA-EXPORT-U-WO-WE SPECIFIC VI-	OGT 195	16/10	0.035 phietram_06-02.1	c (vs) Phenylpropanoids and polyketide	Spinonous (v)	(Z) FIAVONOID BIYCOSIDES	(T) LIAVONOID U-BIYCOSIDES	(c) Flavonold-9-0-glycosides	4 9
	seasol	U M465T510	465.1024946 518.612 8.644 G	R 2768_MSMS-Respect-Curated-Pos_2021-09-02 SP R-2768_MSMS-Respect-Curated-Pos_2021-09-02	465.102	8.677	0.035 pMetFam_08-62.1	<ol> <li>(voj Frietry propanotas and polyketide.</li> <li>(08) Phenyl propanoids and polyketide.</li> </ol>	<ul> <li>(v) Flavonoids</li> <li>(G) Flavonoids</li> </ul>	(2) Flavonoid giycosides	(1) Flavonoid 0-glycosides	<ul> <li>(c) Flavonoid-3-0-glycosides</li> <li>(c) Flavonoid-3-0-glycosides</li> </ul>	9 m
oLei	tterCode Factu	or Feature	m_z ns m_m	species Library - database used	annotated mz an	iotated rt_m	p-value pMetFam_ID	Kingdom	Superclass	Class	Subclass	Parent	coun
	mec	thDam M477T-	45_1 477.1021371 445.260 7.421	AP R-2768_MSM5-Respect-Curated-Pos_2021-09-02	477.102	6.987	0.048 pMetFam_08-63	(08) Phenylpropanoids and polyketid-	es (G) Flavonoids	(3) Hydroxyflavonoids			
	path	-TTTC: M47/T-	45_1 477.1021371 445.260 7.421	. AP R-2768_MS/MS/Respect-Curated-Pos_2021-09-02	477.102	7.010	0.048 pMetFam_08-63	(00) Phenylpropanoids and polyketid	es (G) Flavonoids	(3) Hydroxyflavonoids			
	200	HOZON NDEAD	100510 7T010T6 T6007601002 320	D D D D D D D D D D D D D D D D D D D	001 009	6T0.7	0.042 philetram_00.02	(00) Phenylpropanoids and polykeud	es (ej Flavonolds	CD LOCATION CONTRACT (C) (2) High contraction contraction			a .
	BRCF	NEODER N	65 609 1804849 664 640 11 077	H R-2768 MSMS-Respect-Cursted-Poc 2021-09-02	609 180	10.411	0.043 nMetFam 00-63	(08) Phendrico and ide and polykerid	es (G) Elseonoids	(3) Hydroxeffavonoids			
	seas	50n M289T2	60 289.07071 259.963 4.333	HL R-2768 MSM5-Respect-Curated-Pos 2021-09-02	269.072	4.339	0.036 pMetFam 08-63	(08) Phenvipropanoids and polyketide	es (6) Flavonoids	(3) Hvdroxyflavonoids			
	heig	tht M33912	47 339.1066095 246.706 4.112	: HL R-2768_MSM5-Respect-Curated-Pos_2021-09-02	339.107	4.131	0.021 pMetFam_08-63	(08) Phenylpropanoids and polyketid	es (G) Flavonoids	(3) Hydroxyflavonoids			IE
	mec	ThDam M339T	47 339.1066095 246.706 4.112	: HL R-2768_MSM5-Respect-Curated-Pos_2021-09-02	339.107	4.131	0.021 pMetFam_08-G3	(08) Phenylpropanoids and polyketide	es (G) Flavonoids	(3) Hydroxyffavonoids			16
	heig	tht M325T4	19 325.0920891 418.812 6.980	KA R-2768_MSMS-Respect-Curated-Pos_2021-09-02	325.093	7.019	0.021 pMetFam_08-63	(08) Phenylpropanoids and polyketid	es (G) Flavonoids	(3) Hydroxyflavonoids			14
	obsi	Rich M325T:	38 325.0920725 537.616 8.960	PL R-2768_MSM5-Respect-Curated-Pos_2021-09-02	325.093	8.436	0.021 pMetFam_08-63	(08) Phenylpropanoids and polyketide	es (G) Flavonoids	(3) Hydroxyflavonoids			9
	.sqo	Shan M337T-	ISI 337.0916383 450.904 7.515	CI L-2214_lib_spectra_pos_new_2021-09-02	337.093	7.560	0.038 pMetFam_08-63.	<ol> <li>(06) Phenylpropanoids and polyketids</li> </ol>	es (G) Flavonoids	(3) Hydroxyflavonoids	(1) 5-hydroxyflavonoids		4
	Ded	TUBM MISS/I-	GTG/ HOR/OGE 2029760//22 TG	CI L-ZZL4_IID_Spectra_pos_new_ZUZL-US-US	260.755	1.560	0.056 pMetram_06-65.		es (c) Flavonoids	(S) Hydroxyfiavonoids	SD IOLONALISADO IOLONALISA		4 4
	10 00 00 00 00 00 00 00 00 00 00 00 00 00	TCOHN USE	710/0 70//065 7555000/505 /6	LK L-2214 IID Spectra pos new 20200	190.004	0000	0.010 pMetram_00.00	T (00) Prenylpropanolds and polykend	es (e) Liavonoids	spiouoxe itixo ibiti (c)	SDIOUOABILÁXOJDÁU-C (T')		4.4
	obec	100-001 USA	100 20/066 2464000/004 /00	20-07-1207 Mail 200 Section 202-02-02-02-02-02-02-02-02-02-02-02-02-	100.004	0.020	0.042 pMattern 00-62	<ol> <li>(00) Bhamderoranaious and polykeutic</li> </ol>	es (a) riavonolas	(2) Hodrow Bronnoide	(1) Chudrow Second at		1 2
	198	H MAADTO	7001 077/027 000/07/044 000	50 1-2014 the sector program with the sector of the sector	101.016	2,560	0.043 nMaffam (0.63	<ol> <li>(08) Dhemioropanoide and polyheridi</li> </ol>	es (G) Elseonoide	(3) Hudrowiffseenei de	(1) Subdrowd avonoide		4 =
	heid	the MAAGUS	753 5 0CC 0CC 0250201040 000	CO-DO-LOCO was not subject to the second state of the second	449.107	2 560	0.043 nMaffam 00.63	<ol> <li>(00) Dhamilorophic bound and polyhetide</li> </ol>	ec (G) Flavonoide	(3) Hudrovellavonoide	(1) Schodrowell successive		4 =
	Dem	hDam M449T5	753 444 1070558 230 224 3837	PA 1-2214 lib spectra nos new 2021-09-02	449 107	3 560	0.043 nMetEam 08-63	1 //081 Phenylpronanoids and polykerid	es (G) Elseonoids	(3) Hydroxofi syonoids	(1) 5-bodrooofi soon oi de		
	heig	-ht M457T4	130 457 1333054 429 706 7 162	PL R-2768 MSMS-Respect-Curated-Pox 2021-09-02	457.133	7.184	0.032 pMetFam 08-63	1 (08) Phenylpropanoids and polyketide	es (G) Flavonoids	(3) Hydroxyflavonoids	(1) 5-hvdroxyflavonoids		
	han	10am M449T4	01 1 449 107416 400 885 6681	PA G-3771 MSMS-GNPS-Curated-Pox 2021-09-02	449 107	6 064	0.041 pMetFam 00-63	2 (08) Phenylaronanoi ds and nolyketid	es (G) Elavonoids	(3) Hydroxyflavonoi ds	(2) 4'-hydroxyflavonoids		
	1084	H M449T4	01 1 449 107416 400 885 6681	KA 1-2214 Hb spectra nos new 2021-09-02	449 107	6 064	0.041 pMetFam 00-63	<ol> <li>(08) Phenylaropanoids and polyketide</li> </ol>	es (G) Elavonoids	(3) Hydroxyflavonolds	(2) 4'-bydroxyflavonoids		
	BRCF	H MEGETS	101 595 1645907 390 237 6 504	11V M-21908 MoM4-evport-16-MS-MS Snectra 2021-09-02	505 165	6 946	0.048 nMetEam 08-63	2 (08) Phenylpronanoids and nolykerid	es (G) Elseonoids	(3) Hydroxoff avonoids	(2) 4'-hvdroveflavonoide		
	Sdo	5han M289T4	193 289 0915029 492 861 8 214	LV R-2768 MSMS-Respect-Cursted-Pos 2021-09-02	289.092	8 232	0.041 pMetFam 08-63	2 (08) Phenylpropanoids and polyketide	es (6) Flavonoids	(3) Hydroxyflavonoids	(.2) 4'-hydroxoff avonoids		
	heid	the MS65T3	245 2 200 200 200 200 200 200 200 200 200	AP G-2771 MCMG-GMPG-CHESted-Doc 2021-00-02	565 155	5 281	0.043 nMeffam 00-63	<ol> <li>(00) Phenotonon and polyterid.</li> <li>2 (00) Phenotonon and polyterid.</li> </ol>	ec (G) Flavonoide	(3) Hudrowfi suonoide	(3) 7-bodroodlavonoide		
		blow Meets	04010 001/020 20004471/000 T20	AP 0.001	331 323	102.3	0.042 pMotEam 00.021	<ol> <li>2 4001 Bhomileronicheraties die der beischen die die die die die die die die die die</li></ol>	es (a) Havenoids	(2) Hudrowitzwond -	(2) 7-budroodfavoroida		
	10aa	CTUDEN INDUD	2007 C00/070 Z00C6CT/C0C T70	20-50-1702 SOLUCION CANS-CANSING T//C-5 AV A	191 119	TOC'C	0.042 phietram_uo-65.	<ol> <li>(uo) Prienyipiopanoids and polykeuds</li> <li>(uo) Phomological and polykeuds</li> </ol>	es (e) Flavonolds	(c) Hydrorefferendigter (c)	2) 7 Production Record Production (C) 7 Production Record Production (C) 7		
		THE MOLET.	100'F 202'CH2 270/60TTT0 CH	The state and state state state state and state stat	101110	1/970	0.040 pMetram_Uo-G0.	(00) Prenylpropanolds and polykeud	Spice (a) Lisvonoids	spiouospitoxolb(h) (c)	spiouoxeii/xoib/u-/ (c)		
	5 . 00	UTTOM URUS	/90/5 707/057 770/607/TT0 65	PA 0-5//1_MDMD-6MP3-CURATEGPP05_20/21-05-02	101110	2.6/1	0.045 prietram_06-65.		es (e) Flavonolds	(5) Hydroxyfi avonol ds	(c) /-uydroxyfiavonolds		
	Line Line	ght in <del>44</del> 21.	100.0 449.10752550 046440 020	CI L-ZZI4_IIb_spectra_pos_new_zuzuzusus	201-54 <del>5</del>	5.002	0.050 pMetram_us-us-	<ol> <li>(08) Phenylpropanoids and polyneuu</li> </ol>	es (G) Flavonoids	(5) Hydroxyflavonolds	(.5) 7-hydroxyflavonoids		
	pau	Dam NH421.	100 449.1073236 520.209 449.1073236 5205 5205 505	CI L-ZZI4_IIb_spectra_pos_new_zuzuzuzuz	5001.246	200.6	0.030 pMetham_US-165.	<ol> <li>(08) Phenylpropanoids and polyneum</li> <li>(08) Phenylpropanoids and polyneum</li> </ol>	es (G) Flavonolds	(3) Hydroxyflavonoids (3) Hydroxyflavonoids	(.3) 7-hydroxyflavonol ds * 31 7 hudrowell suomol de		
	See.	CTRAMM 44-14	CLOCK 209-0120104 240-012 CLOCK 240-014	PG L-2214_IID_spectra_pos_new_zuzz-us-uz ps 1.2014_IIb_spectra_pos_new_zuzz-us-uz	CTT-SCC	700.0	0.041 pMetram_uo-so. 0.000 pMatfam_00.031	<ol> <li>(08) Phenylpropanorus and polyneuur</li> <li>200 Phanylpropanorus and polyheidd</li> </ol>	es (G) Flävonolus	(5) Hydroxyfiavonords 22 Hydroxyfiavonords	(.5) /-hydroxyfiavonotds / 5) 7_hodroxyfiavonotds		
	obs.	RICH MHODI.	AVER 240.015 210.051 200.051 001	. RA L-2214_HB_Spectra_pos_new_zuzt-us-uz new within the subsection for the subsection of the subse	405.1U5	ecc.c	0.008 pMetram_w-w-w.	<ol> <li>(08) Phenylpropanoids and polyneuw</li> <li>(00) Phenylpropanoids and polyheidd</li> </ol>	es (6) Mavonolas	(3) hydroxyfiavonoids 20. Hydroxyfiavonoids	(.5) /-hydroxyflavonoids		
	SOO	Rich M4491.	90 449.1425187 490.225 8.1/U	PP M-21908_MoNA-export-LC-MS-MS_Spectra_2021-09-04	449.144	014 9 T\$Z?2	0.023 pMetham_08-65.	<ol> <li>(08) Phenylpropanoids and polyketide</li> </ol>	es (G) Flavonoids	(3) Hydroxyfiavonoids	(3) 7-hydroxyflavonolds		
	mec	chDam M4551.	69 433.1121045 368.749 5.146	RA M-21908_MoNA-export-LC-MS-MS_Spectra_2021-09-04	2 433.11z	9.71X	0.044 pMetFam_us-65.	3 (08) Phenylpropanoids and polyketid	es (G) Flavonoids	(3) Hydroxyflavonolds	(.3) 7-hydroxyflavonolds		
	BPL	H NDS91.	.84 589.1545526 164.055 5.00o	: PP R-2768_MSMS-Respect-curated-Pos_2021-09-02	569.155	2,101	0.044 pMetham_00-up.	<ol><li>(06) Phenylpropanoids and polykeum</li></ol>	es (G) Flavonolds	(3) Hydroxyffavonords	(.3) 7-hydroxyffavonoi.ds		* 

763 am_05-C		00-0 00-0
M5251		1. Li Stand
57844	2015 510 510 510 510 510 510 510 510 510	
5 M5	85 86 95 95 95 95 95 95 95 95 95 95 95 95 95	
4475769 MotFam	్షార్య ఉత్య	
107 P	8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	
M473T	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	19 19 19 19 19 19 19 19 19 19
37853 ( <sup>7</sup> am 05	Маииапоцирав555с25	また。 1991 この日本の0000と生活活性ではないではない。 「たり00本の000と生活活性ではないではない。 「たり00本の000ととなったはない。」 「たり00本の000ととなったはない。」 「「「「100本の000ととなった」」 「「「10~本の0000」」
M35 05- pMe	2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2251274 4etFam	82 5 97 97 97 97 97 97 97 97 97 97 97 97 97	9 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0
05- pl	28 28 28 28 28 28 28 28 28 28 28 28 28 2	2010 2010
M175T3		
m_05-B	g ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
M453T6		
r808		
M429	R1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
61 m 04-B	9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	142 224 244 245 245 245 245 245 245 245 2
MIGIT2		a best for a start of the start
104-82		
M37314		
04-82.5	88 19 19 19 19 19 19 19 19 19 19	- 5.25 - 5.25 - 6.25 - 7.55 - 7.55
2711706 Metfam		
04-B2	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
M403173		
04-8	2002 2012 2012 2012 2012 2012 2012 2012	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
M408T2: pMetFan		ess lande
3 04-A1	444 227056 227056 228050 2	<ul> <li>A. MAAA</li> <li>A. MAAAA</li> <li>A. MAAAA</li> <li>A. MAAAA</li></ul>
M209126 oMetFam		
550 m 03-fi	23005 2002 2002 2002 2002 2002 2002 2002	2 a
M450T		Sa (USA)
TT232 Fam. 03	4 2000 1790 1790 1990 1990 1990 1990 1990 1	
M25 13-L pMer		
07T321	9 53 · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
03-f pM		
M183T10		i na
187 m 03-4	±	
M215T	m	
1325T318		A contract of the contract of
TTTS M	231 231 231 231 231 231 231 231 231 231	1000 100 1000 1
6 M199	¥	
MI77T31		an crute franke
37500 k	2022	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
A1. pMo.		
0785 Fam. 01-	855 B B	1997 1997
M25 1-A' pMet		
611178 off am 0	20 °	1110 1110 122 22 23 23 23 23 23 23 23 22 23 22 22 2
E No		° 735939553535355555689339394555353555555999393939343554937899493939393
Feature	1463	Methods Met

## Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam01 to 05)

917306 14 m. 0	
EW BLACK	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Antistantial of the second sec	
Trans. 10000000 1000000 1000000 1000000 1000000 10000000 100000000	2559606 47265 101739
2551 255 255 255 255 255 255 255 255 255	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
11711245 1667 and 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.8 19.4 19.4 19.4 19.4 19.4 19.4 19.4 19.4
C. C. Martine M. M. Martine M.	146962 149527 159227 161267 161267 161267 161267 161267 161267 161267 161267 161267 161267 161267 161267 161262 16126 1
1111 1110	
141 1410 411 1410 411 141 00	
	842650 842650 842650
0001112500 0000000000	
SETTERNA File Setter Set	
446 5 5 5 5 5 5 5 5 5 5 5 5 5	17206 19527 195777 1957777 195777 195777 1957777 1957777 195777 1957777 1957777 1957777 1957777 19577777 1957777 1957777777777
	000000000098855888558
Anternations Anternations 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.	58 89 99 - 1 98 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<pre>4 * Compare 1 * Compare 2 * Compare 2</pre>	
500 1000 1000 1000 1000 1000 1000 1000	
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0-0-00000000000000000000000000000000000
SETTION And and and and and and and and and and a	
SECHO C C C C C C C C C C C C C C C C C C C	141791 14050 14000 140500 140500 140500 140500 140000000000
	en 19000000000000000000000000000000000000
22 22 22 22 22 22 22 22 22 22 22 22 22	ea
1130 4 fram. 08-1 3 3 2 fram. 08-1 3 3 2 fram. 08-1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Advite Terrors 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1000001 10000001 1000001 1000001 1000001 10000001 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 100000000	Md/193 76214 1250083 1250083 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	مەمەمەئۇمەتۇرۇرمەت
	EPLEON EPLEON EPLCHS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS EPLANS

#### Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam06 to i1.2a)

## Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam07 to A1.1a)

2	N ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	4	
13T229 #Fam_07-A1		rt3T229 letFam_07-A	τ υ <sub>δ</sub>
1 M3 M3		EM 12-20 4	12.244 24.452
M487T67 A1 pMetFam	x	M487T6 A1 nMetFao	
1557857 1etFam_07-/	··· · · · · · · · · · · · · · · · · ·	4557857 VetFam 07-	
795 M m_07-A1 ph		M 10-70 m	
-A1 pMetFa	φοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοο	M455T	
M4377808 pMetFam_07	N N N N N N	M437T808 nMetFam_0	
rT366 Fam_07-A1	80 80 80 80 80 80 80 80 80 80	91366 Fam 07-A1	, , , , , , , , , , , , , , , , , , ,
2 M245 _07-A pMet	15 21 21 21 21 21 21 21 21 21 21 21 21 21	2 M24	8259 8259 8259 8461 9461 9461 9461 9461 9461 9461 9461 9
M503T47 A pMetFam	Notococococococococococococococococococo	M503147	
[2417361 MetFam_07-	주 258 28 25 25 25 25 25 25 25 25 25 25 25 25 25	1241T361 MetFam 07-	김 두 않곡않않 바둑 장구성체 국정
T317 N am_07-A p		T317 N T317 N	
07-A pMetF		M227 07-A -Med	
M2117448 A pMetFam	ドネットなったのだとなっていっついたであるならってものはあれたのがったのでかったなななのだとなが	M211T446 A. oMetFam	、 たち、あち、あち、あって a a a a a a a a a a a a a a a a a a a
2091220 VetFam_07	2. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2097220 MetFam_07-	
83 M Bar M	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	M 9-20 083	, go o o o o o o o o o o o o o o o o o o
M200 07-A pMetF	1, 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M200 07-A pMetF	
MI63T537 MetFam		MI63T537 A pMetFam	
637219 letFam_07-A	2020 2020	637219 Maff.am - 07-4	20 20 20 20 20 20 20 20 20 20
57873 M1 Fam_07 pM	8 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	31873 M1 Fam 07 ofv	8 9 9
106 M35 am_07 pMe	00 00 00 00 00 00 00 00 00 00	106 M35 am 07 pMe	10000000000000000000000000000000000000
13 M3071	VIC 22234	13 M3071	2.24 2.24 2.25 2.25 2.25 2.25 2.25 2.25
07 pMetFan	маарооолоосоосоосоосоосоосоосоосоосоосоосоос	5 M215T74	81.000000000000000000000000000000000000
M209T455 7 pMetFam	\$	M209T455 7 nMetFam	жассоссоссоссоссоссоссоссоссоссоссоссоссо
MI95T361 pMetFam_0	9 90901 1990 1990 1990 1990 1990 1990 1	M195T361 oMetFam_0	20 10 10 10 10 10 10 10 10 10 1
11917431 MetFam_07	2.55 2.57 2.57 2.57 2.57 2.57 2.57 2.57	MatFam 07	
s5T88 N stFam_07 pl	H6 27731 27731 258915 258915 258752 257752 257752 267752 2	55788 M	<ul> <li>14:1</li> <li< td=""></li<></ul>
T203 Mf	103 22251513 2200513 2200513 2200513 200513 200513 200513 2005100 200510000000000	T203 Mt Fam 07 nMt	100 100 100 100 100 100 100 100
	1914 1944 - 19 1944 - 19 1	M139 ID pMat	1910 1910
Feature pMetFam.	\$99,999,999,999,999,999,999,999,999,999	Feature cMetFam	1 まままままままままままた。 1 ままままままままた。 1 まままままままた。 1 ままままままた。 1 ままままままた。 1 まままままた。 1 まままままた。 1 まままままた。 1 ままままた。 1 ままままた。 1 まままた。 1 まままた。 1 まままた。 1 ままた。 1 ままた。 1 ままた。 1 ままた。 1 ままた。 1 ままた。 1 ままた。 1 ままた。 1 また。 1 また 1 また。 1 また。 1 また。 1 また また。 1 また また また。 1 また また また。 1 また また また。 1 また また また また。 1 また



#### Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam07-A2 to A3.2a)



	1 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5		й р - 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
T276		276	4 60
ELEM	****	M373T	9
- Carroo	2010 1012 1012 1012 1012 1012 1012 1012	1 0.0	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
99T299		T239	a de la construcción de
EM P		M335	
G Dour	1012 1012 1012 1012 1012 1012 1012 1012	00.00	4 4 14 14 15 15 15 15 15 15 15 15 15 15
231T20		917203	er Frank
E T		M2	
75	1995 - 1905 - 19	5	5444 5425 5425 5425 5425 5425 5425 5425
M291T		291117	to the first of t
10.00	486 486 486 586 586 586 586 586 586 586 586 586 5	2	Line (Line (L
17854		T854	9 NALLELN V LEELE TEE ELWAN VEWL JOUNEENELL VEILELELE 444 040.EE VIN 9
MIR	**************************************	T81M	
0.01-04		0.02	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
11.758		1758	
BIM	*200000=2000000000000000000000000000000	181M	
0.02-04	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		10000000000000000000000000000000000000
57235		T295	90 - Le
LIM .		STIM.	
Carero	5 10 10 10 10 10 10 10 10 10 10 10 10 10		00-62.20 1440.02 14
737170		021120	
M		M2	<sup>2</sup> <sup>2</sup> <sup>2</sup> <sup>1</sup> <sup>2</sup>
TS00	100 82330 842	200	
M347		M347T	Σ 2
1 0 0 1 0			
17T634		7T634	
MZC		M20	
- ad	9579 93396 93396 9326 9226 9227 9227 9227 9227 9227 9227 92	00.00	-02-90 -07.27 -07.27 -07.27 -07.27
207729		07729	
21	1 	Ma	
181		19	6 6
M463T		4463T1	
-	, p	-	4 650 4 600 5 700 5
381T476		B1T476	່ງ ນີ້ ນີ້ ແມ່ນ ຊີ
W		EW	
379	on n≖rarnon 	379	1 1 1
M3411		M341T	La estad
- Concert	101 111 111 111 111 111 111 111 111 111	0.00	00-00-00-00-00-00-00-00-00-00-00-00-00-
223736		123T361	And the second se
W		W	
305	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	305	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
TIBLM		TI-91M	
42	2 2	42	
136917		1369174	the set of a
4 94	2000 2000 2000 2000 2000 2000 2000 200	N N	
1439TT	ម ។ ច្រើកដ្ឋាន ដែរ ព	1499T15	6 6 87 0
74 1		A N	
126371		1263717	a series and a series of the ser
ء <i>ع</i>	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	21	
ature		ature	
Ĩ.	F8999999999999999999999999999999999999	01	f:^^^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

08-F2.	CECTORY CECTOR	12.8 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9
M307T451		
08-F2.1	35 26 26 26 26 26 26 26 26 26 26	
M515T44		
87 n_08-F2.1	69 60 60 60 60 60 60 60 60 60 60	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
M36972	N 0 N + T N 0 K + 0 0 0 K 0 0 0 0 0 0 0 0 0 0 0 0 0	
33 m_08-F2.1	22 Strates 22 Strates 23 Strates	
1 pMetFa		
375 m_08-F2.	11 2000 2000 4120 4120 2107 2107 2107 2107 2107 2107 2107 2	
M233T	#	
r398 am_08-F2	3939.907	
M2071	· · · · · · · · · · · · · · · · · · ·	
T260		MUDAL CONTRACTOR CONTE
2.1 pMed		- Zoooooooooooooooooooooooooooooooooooo
77249 Fam_08-F	121 121 121 121 121 121 121 121 121 121	60 - 22 - 20 - 20 - 20 - 22 - 20 - 22 - 20 - 22 - 2
F2.1 pMe	900 900 900 900 900 900 900 900 900 900	
3T145 4Fam_08-	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<ul> <li>H.M. 2014.</li> <li>H.M. 2014.</li></ul>
-F2.1 pMe		
47T520 etFam_08	7	22 5 8 12 8 12 8 12 8 12 8 12 8 12 8 12
±Σ		
3-F2.1 P	24 10 10 10 10 10 10 10 10 10 10	LTTMM
147T239 M AetFam_08-F2.1 pl	A Contraction of the contraction	TTTLANG TTT
M147T239 M 18-F2.1 pMetFam_08-F2.1 pl	Superior         Superior           0         0      0         0	TTTTT         MUTTTT         MUTTTT           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001         2001         2001         2001           2001
Matfam_08-F2.1 pMetfam_08-F2.1 pl	SOC         ML           0         0	Trynus         Contract in the first state sta
M147T189 M147T239 M 08-F2:1 pMetFam_08-F2:1 pMetFam_08-F2:1 pl	1         90         94.2           0000         0         0000           000000         0	
M137T113 M147T189 M147T239 M 5MetFam_08-F2.1 pMetFam_08-F2.1 p	10         100         142           0000         0         0000     <	NUMBA         NUMBA         NUMBA         NUMBA         NUMBA           0
32 M1377113 M1477189 M1477239 M 0.05-F2 pMetFam.05-F2.1 pMetFam.08-F2.1 pl	20         90         90         90           0000         0         000         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0         0           0000         0         0	
M3411382 M1371113 M1471189 M1471239 M 2 pMetFan_08-F2.1 pMetFan_08-F2.1 pMetFan_08-F2.1 p	20         91         202         91         91           1 </td <td></td>	
1270 M3411382 M1371113 M1471189 M1471239 M am_09-F2 pMetFam_08-F2.1 pMetFam_08-F2.1 p/	Type         20         21         20         20           100         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100         100         100         100           2000         100 <td>CUADUA         MATURAL         <th< td=""></th<></td>	CUADUA         MATURAL         MATURAL <th< td=""></th<>
M2071270 M3411382 M1371113 M1471189 M1477139 M F2 pMetFarr_08-F2 pMetFarr_08-F2.1 pMetFarr_08-F2.1 p	32         715         20         91         90         94           1<	
31183 M2071270 M3411382 M1371113 M147189 M147729 M Mam_08-F2 pMetFan_08-F2 pMetFan_08-F2.1 pMetFan_08-F2.1 p	230         790         200         901         900         900           100         0         0         0         0         900         900           100         0         0         0         0         900         900           100         0         0         0         0         900         900           100         0         0         0         0         900         900           100         0         0         0         0         900         900           100         0         0         0         0         900         900         900           100         0         0         0         0         0         900         900         900           100         0         0         0         0         900 </td <td>MUM         MULTICAL         MULTICAL</td>	MUM         MULTICAL
M163T103 M207T270 M341T302 M137T113 M147T109 M147T239 M 10-F1 pMefFam_00-F2 pMefFam_00-F2 pMefFam_00-F2.1 pMefFam_00-F2.1 p	2         23         103         23         104         23	Mutuality in the section of
44331486 M1631183 M2071270 M3411382 M1371113 M147189 M1471239 M Melf.am_09-f1 pMelf.am_08-f2 pMelf.am_09-f2 pMelf.am_09-f2.1 pMelf.am_08-f2.1 pl	No.         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< td=""><td>NUMU         NUMU         <th< td=""></th<></td></thcontr<></thcontrol<></thcontrol<>	NUMU         NUMU <th< td=""></th<>
395 M4331486 M1631183 M2071270 M3411382 M1371113 M1471189 M1471239 M m_00=fc pMeffam_08=f1 pMeffam_08=f2 pMeffam_08=f2 pMeffam_08=f21 pMeffam_08=f21 pMeffam_08=f21 p	21         23         23         24         23         24         23         24         26 <th26< th="">         26         26         26<!--</td--><td></td></th26<>	
M2611695 M4331466 M1631183 M2071270 M3411382 M1371113 M1471189 M447an_08-F21 p pMeffan_08-F pMeffan_08-F1 pMeffan_08-F2 pMeffan_08-F2 pMeffan_08-F2.1 pMeffan_08-F2.1 pMeffan_08-F2.1 pMeffan_08	71         72         73         73         74         70         71         70<	
uue VienD. DheffanOst: PoheffanOst: 2. PheffanOst: 2. PheffanOst: 2. PheffanOst: 2. PheffanOst VienD. PheffanOst: PheffanOst: 2. Pheffan	Antional         FI         TO         TO         TO         TO         TO         TO           Antional         0         0         0         0         0         0         0         0           Antional         0         0         0         0         0         0         0         0         0           Antional         0	Mathematical and sector with the sector

Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam08-F1 to F2.2)

10 <sup>-1</sup> The state	rancon K
No	No. 10
10.101	2-1-60 Terr
12 - 00 - 144 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	작전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
	Shi Lu Canada
273 273 492 2365 2365	
	n new Yangi
- 09-1-2-22 - 4-2-22	1412.22 400 400 877789 877780 877789 877780 87770 877780 877700 877700 877700
north and a second a	A DATE OF THE OTHER
C Trans June	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
e enc.cos	2020 2020 2020 2020 2020 2020 2020 202
1739 1431 1431 1431 1431 1431 1431 1431 14	
ರೆದ್ದ ಕಲ್ಲಿ ಕಲ್ಲಿ ಗೆ ಾ ಬ ಚಿರೆ⊳ಘಳನ⊿್ರಟಿಕೆಟಿಕೆನ್ನಲ್ಲಿ ಶಾರಿಗಲ್ಲಿ ಗಾ	200-201 100-20
100 - 100 - 12 - 100 - 12 - 11 - 12 - 1	22
	and a second
	42 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
the second and the second s	
	4 The second sec
- Services	
007-rue ja	e en
	3.4.1 4.5.2.1 5.5.2.1 5.5.5
	た。 10 10 10 10 10 10 10 10 10 10
100-11-10-11-11-11-11-11-11-11-11-11-11-	2000-01-02 1990-02 190
1012 1012	2344 2344 2344 2344 1948 1948 1948
and the second se	Se La La Meri
52 - 400 - 52 - 400 - 52 - 52 - 52 - 52 - 52 - 52 - 52 -	100 100 100 100 100 100 100 100 100 100
100 Control Contro	1400 COMPANY
422 (34-4)	Network
107-102.141	and the second se
4 4 4 5 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	не и стала и
and and a second s	of an USA
	2
E TERES	22 . 10101010101010101010101010101010101010
**************************************	Tomas Control           Control <t< td=""></t<>

## Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam08-F2.2a)

APPENDIX – CHAPTER 3 |

4 % = = = = = = = = = = = = = = = = = =	**************************************
3	2.3.1 2.3.1 2.2.2.1 2.2.2.1 2.2.2.1 2.2.2.1 2.2.2.1 2.2.2.1 2.2.2.2.
am_0	
er Mar	N NG
52 15 93 22 14 90 08 05 90 08 08 90 08 08 90 08 08 90 00 90 0000000000	
992 992	-80-2-0
Mer Fa	Next a
2 a #1000000000000000000000000000000000000	4X 4X 23
00-02 149 150 150 150 150 150 150 150 150 150 150	- 23
1 ad 5	11445
	an yang da
12.2.14 8.2.2.17 2.2.9.90 7.4.6900 7.4.6900 7.4.6900000000000000000000000000000000000	12,14 12,14 12,14 12,14 12,14 12,14 12,14 14,14,14 14,1414,14 14,14 14,14 14,14 14,14 14,14 14,1414,14 14,14 14,14 14,1414,14 14,14 14,14 14,1414,14 14,14 14,1414,14 14,14 14,1414,14 14,14 14,1414,14 14,14 14,1414,14 14,1414,14 14,1414,14 14,1414,14 14,1414,14 14,1414,
24 20	
Medfa	Mouff a
	Σ1 Ν
ngx 2°**	
for the second sec	er Ta
못했으므로 이 이 이 이 이 등 같 중 이 이 않 뿐 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	「2880000020F10K20560000000000000000000000000000000000
0.0-02 123-10 10 10 10 10 10 10 10 10 10 10 10 10 1	
of any	1 Testa
-E000000000000000000000000000000000000	
946000 94600 9400000000	P-C52 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T
14.14 سرامه ۴	1424
	PANAR Diffuse
22-20-05-05-05-05-05-05-05-05-05-05-05-05-05	
02.2.16	01.211
Pr August	Sign diamond
101-101-101-101-101-101-101-101-101-101	11216 1216 1216 1216 1216 1216 1216 121
1921 1971	000 000 000 000 000 000 000 000 000 00
MST9	Line Market
	* # C C C C C C C C C C C C C C C C C C
	0 1 6 0 1 6
Pleafs.	Autor a
a2 - 33 *** 32 ** 33 *** ≥ 33 ***	x x x
4-1-59-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-	are list
	2次のののののののののののののののののののののののののののののののののののの
2 852 8 9	28
eif am	aff an.
**************************************	
5256 5256 60 24 24	1.0-8
111120	
4 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	~ = = = = = = = = = = = = = = = = = = =
	T N N N N N N N N N N N N N N N N N N N
T042	0 1 1 1
Mar 11	Trown of the second sec
5 N 288 8 N 8 26668 N 258	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
- 251	197 - Den - Of
2 STM	T T C MARK
4 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	111 112 113 114 114 115 115 115 115 115 115
102 m. 00	6 404440.00004FW400
T-Seffe	2 TECHNIC
613 913 913 913 913 913 913 913 913 913 9	* " p 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
85 - 8 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9 - 9	19 <sup>1</sup> - 109-1
a the second sec	Assert a
2013 - 20	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
8년 이	60 此一一一的股份股份的股份股份有多少的比率的。
Net a	are Jref
2 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	ξί Νδ°0000000μ00000000000000000000000000000
2.1990 Aref and	10.001.01 August 10.00
光久 - 戸がってのこのでのでのでのでので発行の発行の型のでのでのでのでのでのでのでのでのでのでのでのであった。 - ジャーマーマーマーマーマーマージョン・ジャージョン・ション・ション・ション・ション・ション・ション・ション・ション・ション・シ	₹ <u>%</u>
2332 2332 2332 2332 2332 2332 2332 233	
ure 310	121151 111
10 どののののののののののに、10 に、10 のののののののので、10 のののののののののののののののののののののののののののののののののののの	N 「 こ い ち い い ご て 下 き お い ち ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ ひ
200	Control Contro
Morf a	and and and and and and and and
20 	£6 
55977777777777777777777777777777777777	55 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

#### Supplement Table 3b: Metabolite intensities - showing Season E as example (pMetFam08-G to G2.1b)

2. to		्र २ म ०००० ००० ००० ००० ००० ००० ००० ००० ०००
Fam_08-C	a and a state of the state of t	0-00-we
M653 to pMed		
378 am_08-G2	22 24 24 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	20-00-00 21-000
MBHT	**************************************	- 1999 - 2019 -
08-62.1	2 2000 2000 2000 2000 2000 2000 2000 2	2000 C C C C C C C C C C C C C C C C C C
M611T30 pMetFan		na Jana Ang
08-G2.1o	20000000000000000000000000000000000000	8 9 - 28000000000000000000000000000000000000
VI581T402 MetFam		and the second
8-G2 to	83 3759 17537 28008 2008 200000000	or State of the st
495T773 AefFam_0	222.323	
G2.10 pl	54 144111111111111111111111111111111111	
HT573 MFam_08-		- O- - Jose
M4: 52.10 pM		र है. - generation
T519 "am_08-0		
10 pMed	χ. • • • • • • • • • • • • • • • • • • •	
665 m_08-G2		20 20 20 20 20 20 20 20 20 20 20 20 20 2
M463T o pMetFa	80000000000000000000000000000000000000	
13 	2021 2021 2021 2021	ŝ
M461T57 pMetFan		na January
08-G2.1o	88 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	#12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
M449T432 pMetFam		- une presente
8-G2.1o		2
449T398 AetFam_0		
02 % p	* * * * * * * * * * * * * * * * * * *	1. 2.#***********************************
18T183 MF.am_08-		af an Loo
32.10 pM		2 x 2 9 N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Fam. 08-0	- <del>-</del> -	
2.10 pMet		
1338 am_08-G		20-00-00-00-00-00-00-00-00-00-00-00-00-0
to pMet	8.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	្នុង ភ្លេង ភ្លេង ភ្លេង ភ្លេង ភេទ ក្រុម ភេទ ភេទ ភេទ ភេទ ភេទ ភេទ ភេទ ភេទ ភេទ ភេទ
532 m_08-G2	2011년 1월 1911년 1911년 1월 1911년 1	1, 00 - 00 - 00 - 00 - 00 - 00 - 00 - 00
M339TE MetFa		
9-08-62.1	" 	2 2 - 20
M325T44 pMetFam		
08-G2.1o	g	- 21 - 21 - 64 - 42 - 21 - 64 - 44 - 44 - 44 - 44
1309T491 MetFam_(		
1-G2.10 p	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- 4 - 2012 - 4
2957553 "edf.am_06		and the state of the
G2 to pM	4.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1	τ. _μγοοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιο
K2T83 ff.am_08		Af the Con-
M26 PMet		<ul> <li>99553955955555555555555555555555555555</li></ul>
Feature 5MetFam_1		

## Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam08-G2.1c)

-03.3	17709 17700 17000 1700000000	2013 2013 2013 2014 2014 2014 2014 2014 2014 2014 2014
SHT245 AetFam_00		
0-03.3 M	<b>\$</b> 000000000000000000000000000000000000	141 - 142 -
569T184 MetFam 0		
2 2 C C C C C C C C C C C C C C C C C C	115.000	1412 1412 1412 1412 1412 1412 1412 1412
MetFam C		
v 0.03.0		
MetFam 0		
2 2 C C C C C	÷	1. A 1 (A
MetFam C		000-mag
V 0.03.0	331.46/1/ 321.46	2.20000 2.200000 2.200000 2.200000 2.200000 2.200000 2.200000000
MetFam C	a e e e agoagua	11日 11日 11日 11日 11日 11日 11日 11
X 0000		TT Trends
MatFam 0		1921 E
X 200-0		64.1.5. 1.1.5.5. 1.1.1.5
059T349 MetFam_0		BELIEV
X 2010	Yes	641.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
595T390 MetFam 0		
2 2 Z	2552 562 562 562 562 562 562 562	444 (1997) (1997
149T401_1		аба Сбор 1975 ж. Волийнанийна жий же ос оо тор ж. Ф. осоо с сейжусийнай 1976 ж. Волийнанийна жий же ос оо тор ж. Ф. осоо с сейжусийнай
M 200-0		141 2 12 12 12 12 12 12 12 12 12 12 12 12
697493 Mef am 00		
Mo Loo-		
163T397		1991年19月1日 1991年1日 1991年1日日日日日日日日日日日日日日日日日日日日日日日
M 100-0		
4577430 Aelf.am 0		46 mm. 0.00
Ma 1.00-0	8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
449T230		007-149-149
Σ 200-0		<ul> <li>Change and a second seco</li></ul>
3377451 MetFam 0		
2 00-00	\$	
M609T668 meilian		
45_1 n 00-G3		
M47774	~###WCIQ4000000000000000000000000000000000000	And a second
1247 am 08-01	10000 1000000	
M339	8°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	
57538 Fam 08-0	ā	1000 000000000000000000000000000000000
M32 PH03 pMe		Reference of the second
ICST419 NotFam OB	이 두 두 정부 정부	61000000000000000000000000000000000000
Ma ED-BC	220 120 120 120 120 120 120 120	25 60 9 9
M289T260		- Son and a second s
2 0 . 0	Additional and a second and a s	••• ••• ••• ••• ••• ••• ••• ••• ••• ••
Feature	\$6666666665555555555555555555555555555	

#### Supplement Table 3b: Metabolite intensities – showing Season E as example (pMetFam08-G3)

#### APPENDIX – CHAPTER 3

**Supplemental Table 4**: Recorded traits on plot and plant level, and feature diversity indices across four seasons and thirteen plant species. The plant species belong to the functional groups (FG) grass and herb and were collected in plots of the Trait-Based Experiment located in the Jena Experiment. Trait recorded on plot level included plant species richness (pRich) and plant species Shannon diversity (pShan) per plot and season. On the plant level we recorded height, developmental stage (BBCH scale), mechanical (mechD) and pathogen inflicted damage (pathD) for each replicate. For each sample, LC-MS feature richness (fRich), feature Shannon diversity (fShan) and feature Evenness (fEven) was measured and calculated. Data is shown for 504 validated samples.

	Sample ID					plotleve	el trait			plantley	el trait		featu	ire dive	rsitv
sampleID	Species	2-letter code	FG	plot	Season	Season letter code	pRich (#) i	oShan (scale)	height (cm)	BBCH [scale]	mechD [%]	pathD [%]	fRich	fShan	fEven
2018 E ANTODO A018 a	Anthonanthum odoratum	AO	grass	A018	spring	E	20	2.25	52	85	0	20	568	3.44	0.54
2018 E ANTODO A018 b	Anthoxanthum odoratum	AO	grass	A018	spring	E	20	2.25	42	85	0	40	571	2.44	0.38
2018 E ANTODO A044 a	Anthoxanthum odoratum	AO	grass	A044	spring	E	17	1.88	66	80	0	15	533	1.17	0.19
2018 F ANTODO A044 b	Anthonanthum odoratum	AO	grass	A044	spring	F	17	1.88	60	75	0	1	595	2 24	0.35
2018 E ANTODO B060 a	Anthoxenthum adaretum	AO	grass	B060	spring	E	20	2.63	59	65	0	0	488	2.09	0.34
2018 F ANTODO 8060 b	Anthoranthum odoratum	40	grass	B060	spring	F	20	2.63	58	80	ő	15	442	5.14	0.84
2018 E ANTODO (115 a	Jothoraothum odoratum	40	grace	C115	spring	F	17	2.05	70	80	ő	20	549	0.52	0.08
2018 E ANTODO (115 h	Jothoratium odoratum	40	grace	C115	spring	F	17	2.44	56	80	ő	20	250	0.27	0.05
2018 E AVEPUB B073 a	Avenue nubeccenc	AP	grace	B073	spring	E	15	2.35	90	70	ő	5	383	3.76	0.63
2018 E AVERUB B073 b	Auenula pubercons	AP	grace	B073	coring	F	15	2.35	100	70	š	30	296	1.80	0.32
2018 E AVERUB B092 a	Avenue pubescens	AP	grace	B092	enring	F	22	2.55	200	50	0	30	500	5.31	0.92
2018 E AVERUB B092 h	Avenula pubescens	AP	grace	B092	spring	F	22	2.23	84	60	ő	20	538	2.19	0.35
2018_E_AVEPUB_C103_2	Avenus pubescens	AP	grass	C103	coring	F	16	1.02	104	40		10	506	5 30	0.95
2018_E_AVEPUB_C102_6	Avenua popescens	AP	grace	C102	coring	E	16	1.00	122	40		20	410	3.07	0.05
2018_E_AVEPUB_C105_D	Avenus pubescens	AP	grass	C110	coring	E	10	2.50	122	40	-	20	415	2.07 E 40	0.40
2018_E_AVEPUB_C110_A	Avenus pubescens	AP	grace	C110	coring	E	10	2.15	111	50	,	15	567	5.45	0.07
2018_E_AVEFOD_C110_D	Containe provescens	AF CL	barb	4012	spring	E	10	2.15	42	40		10	700	5.45 E 10	0.00
2018_E_CENUAC_A013_A	Centaureajacea	a	herb	A012	spring	E	19	2.14	45	40	2		606	5.10	0.70
2018_E_CENJAC_A015_D	Contouros issos	a	herb	A015	spring	с с	19	2.14	27	40	0		696	5.17	0.79
2018_E_CENJAC_A027_a	Contaures isses	u a	nerb	A027	spring	c r	14	1.68	50	40	0	20	505	5.00	0.78
2018_E_CENJAC_A027_D	Contaures isses	u a	herb	A027	spring	c c	14	1.00	50	40	0	20	594	4.80	0.76
2018_E_CENJAC_A030_a	Contauros issos	u a	nerb	A030	spring	E F	12	1.79	21	40	2	0	231	4.99	0.78
2018_E_CENJAC_A050_D	Centaurea javea	u a	nerb	A050	spring	c r	12	1.79	54	40	0	0	929	5.50	0.78
2018_E_CENJAC_B075_a	Centaurea jacea	u a	nerb	B075	spring	c r	15	2.55	15	40	5	0	815	5.48	0.82
2018_E_CENJAC_B073_D	C.ematrea jacea	u br	nerb	8073	spring	E r	15	2.35	26	40	0	2	602	4.94	0.77
2018_E_DACGL0_A005_a	Liacijiis glomerata	DG	grass	A005	spring	E	20	2.42	112	/5	0	25	415	1.75	0.29
2018_E_DACGLO_A005_D	Dactylis glomerata	DG	grass	A005	spring	E	20	2.42	101	75	5	15	453	1.81	0.50
2018_E_DACGLO_A018_a	L'actulis glomerata	DG	grass	A018	spring	E	20	2.25	98	/5	0	30	445	1.59	0.26
2018_E_DACGLO_A018_b	Dactulis glomerata	DG	grass	A018	spring	E	20	2.25	100	60	0	5	461	2.45	0.40
2018_E_DACGL0_0097_a	Dactylis glomerata	DG	grass	ω97	spring	E	13	1.91	82	/5	0	5	357	1.57	0.27
2018_E_DACGL0_0097_b	Dactylis glomerata	DG	grass	0097	spring	E	13	1.91	107	80	0	5	437	2.20	0.36
2018_E_DACGL0_C137_a	Elactyllis glomerata	DG	grass	C137	spring	E	20	2.02	96	40	0	10	431	1.60	0.26
2018_E_DACGL0_C137_b	Dactylis glomerata	DG	grass	C137	spring	E	20	2.02	121	40	0	15	485	5.21	0.84
2018_E_FESRUB_B064_a	Festuca rubra	FR	grass	B064	spring	E	15	1.99	55	55	0	5	424	0.54	0.09
2018_E_FESRUB_B064_b	Festuca rubra	FR	grass	B064	spring	E	15	1.99	58	55	0	5	465	0.31	0.05
2018_E_FESRUB_B067_a	Festuca rubra	FR	grass	B067	spring	E	13	1.83	60	55	0	5	353	0.29	0.05
2018_E_FESRUB_B067_b	Festuca rubra	FR	grass	B067	spring	E	13	1.83	72	55	0	5	365	0.43	0.07
2018_E_FESRUB_B073_a	Festuca rubra	FR	grass	B073	spring	E	15	2.35	88	55	0	10	291	0.59	0.10
2018_E_FESRUB_B073_b	Festuca rubra	FR	grass	B073	spring	E	15	2.35	99	60	2	5	283	0.79	0.14
2018_E_FESRUB_C114_a	Festuca rubra	FR	grass	C114	spring	E	11	1.40	64	65	0	2	404	0.24	0.04
2018_E_FESRUB_C114_b	Festuca rubra	FR	grass	C114	spring	E	11	1.40	65	80	0	5	384	0.24	0.04
2018_E_GERPRA_A018_a	Geranium pratense	GP	herb	A018	spring	E	20	2.25	23	45	5	8	463	5.16	0.84
2018_E_GERPRA_A018_b	Geranium pratense	GP	herb	A018	spring	E	20	2.25	39	40	10	10	503	5.19	0.83
2018_E_GERPRA_B081_a	Geranium pratense	GP	herb	B081	spring	E	11	1.69	70	60	5	15	472	5.10	0.83
2018_E_GERPRA_B081_b	Geranium pratense	GP	herb	B081	spring	E	11	1.69	62	60	8	15	522	5.23	0.83
2018_E_GERPRA_C109_a	Geranium pratense	GP	herb	C109	spring	E	10	1.73	38	80	2	20	504	5.12	0.82
2018_E_GERPRA_C109_b	Geranium pratense	GP	herb	C109	spring	E	10	1.73	35	80	2	20	545	5.36	0.85
2018_E_GERPRA_C121_a	Geranium pratense	GP	herb	C121	spring	E	19	1.71	44	65	5	5	479	5.05	0.82
2018_E_GERPRA_C121_b	Geranium pratense	GP	herb	C121	spring	E	19	1.71	49	70	0	0	484	5.15	0.83
2018_E_HOLLAN_A018_a	Holous lanatus	HL	grass	A018	spring	E	20	2.25	83	55	0	3	419	1.68	0.28
2018_E_HOLLAN_A018_b	Holous lanatus	HL	grass	A018	spring	E	20	2.25	79	75	0	7	464	1.83	0.30
2018_E_HOLLAN_A035_a	Holous lanatus	HL	grass	A035	spring	E	15	1.87	48	65	0	5	437	0.70	0.11
2018_E_HOLLAN_A035_b	Holcus lanatus	HL	grass	A035	spring	E	15	1.87	71	65	5	20	495	0.88	0.14
2018_E_HOLLAN_A040_a	Holcus lanatus	HL	grass	A040	spring	E	16	2.03	77	60	0	5	526	2.13	0.34
2018_E_HOLLAN_A040_b	Holcus lanatus	HL	grass	A040	spring	E	16	2.03	92	60	0	30	314	0.88	0.15
2018_E_HOLLAN_B080_a	Holous lanatus	HL	grass	B080	spring	E	18	2.18	81	60	0	10	433	0.89	0.15
2018_E_HOLLAN_B080_b	Holous lanatus	HL	grass	B080	spring	E	18	2.18	78	60	0	5	509	1.14	0.18

Sample ID					1	plot	level trait		1	plantlev	el trait		feat	ure dive	ersity
sampleID	Species	2-letter code	FG	plot	Season	Season letter co	ode pRich[#	] pShan[scale	] height[cm]	BBCH[scale]	mechD[%]	pathD[%]	fRich	fShan	fEven
2018_E_KNAARV_A010_a	Knoutie ervensie	KA	herb	A010	spring	E	1	8 1.7	7 92	85	0	5	821	5.63	0.84
2018_E_KNAARV_A010_b	Knoutio ervensir	KA	herb	A010	spring	E	1	8 1.7	7 77	85	3	10	695	5.41	0.83
2018_E_KNAARV_A020_a	Knoutie ervenzie	KA	herb	A020	spring	E	1	9 1.6	2 59	85	0	10	780	5.62	0.84
2018_E_KNAARV_A020_b	Knoutio orvansis	KA	herb	A020	spring	E	1	9 1.6	2 68	85	0	10	788	5.60	0.84
2018_E_KNAARV_A042_a	Knoutie erwarie	KA	herb	A042	spring	E	1	0 1.3	3 65	85	10	25	759	5.58	0.84
2018_E_KNAARV_A042_b	Knoutio ervensis	KA	herb	A042	spring	E	1	0 1.3	3 82	85	5	15	744	5.44	0.82
2018_E_KNAARV_B073_a	Knoutie ervensis	KA	herb	B073	spring	E	1	5 2.3	5 90	80	5	15	735	5.50	0.83
2018_E_KNAARV_B073_b	Knoutie ervenzie	KA	herb	B073	spring	E	1	5 2.3	5 77	75	0	5	781	5.51	0.83
2018_E_LEUVUL_A018_a	Loveanthemum vulgare	LV	herb	A018	spring	E	2	0 2.2	5 56	75	3	7	550	5.21	0.83
2018_E_LEUVUL_A018_6	Lovcanthomum vulgars	LV	herb	AU18	spring	E	2	U 2.2	5 55	60	U	5	507	5.19	0.83
2018_E_LEUVUL_BU48_a	Loveanthemum vulgare	LV	herb	B048	spring	E	1	7 1.5	U 58	70	U	20	568	5.20	0.82
2018_E_LEUVUL_B048_B	Loveanthomum vulgars	LV	herb	BU48	spring	E		7 L3 7 D0	U 70 7 70	70	5	15	643	5.43	0.84
2010_E_LEUVUL_DUS_a	Loveanthemum vulgare		nerb	DUS1	spring	E		r 2.0 7 2.0	7 70	60	0	10	505	5.20	0.03
2010_E_EEUVUL_B03_B	Loventhan with a second		herb	B031	spring	E		F 2.0	5 43	60	0	10	646	5.91	0.03
2010_C_EEOVOE_B013_a	Laurenti		horb	B073	spring	F		5 2.5	5 45	00	2	9	578	5.29	0.03
2018 E LEUVUL B085 -		LV LV	horb	B085	spring	E		9 17	3 10 8 60	60	0	5	691	5.52	0.03
2018 E LEUVUL B085 5	Loucasti amum undassa	LV LV	herb	B085	spring	F		9 17	8 62	60	0	5	584	5.20	0.82
2018 E LEUVUL B090 >	Loucanthomum undages	LV	herb	B090	spring	F		4 17	6 57	75	0	10	595	5.26	0.82
2018 F LEUVUL B090 b		LV LV	herb	B090	spring	F		4 17	6 67	75	ň	5	569	5 30	0.84
2018 E LEUVUL C135 a	Lowconthemum vulgare	LV	herb	C135	spring	E	1	4 16	1 64	60	ő	20	670	5.17	0.79
2018 E LEUVUL C135 b	Loucanthomum vulgare	LV	herb	C135	spring	E	1	4 1.6	1 49	60	ō	20	627	5.42	0.84
2018 E LEUVUL C136 a	Loveanthemum vulgare	LV	herb	C136	spring	E		3 1.7	2 70	75	2	10	669	5.39	0.83
2018 E LEUVUL C136 b	Loveanthomum vulgara	LV	herb	C136	spring	E		3 1.7	2 53	75	ō	15	608	5.25	0.82
2018_E_PHLPRA_A002_a	Phileum protester	PP	grass	A002	spring	E	2	4 2.1	0 53	60	0	0	525	0.64	0.10
2018_E_PHLPRA_A002_b	Fhioven protoner	PP	grass	A002	spring	E	2	4 2.1	0 59	60	0	5	593	0.80	0.13
2018_E_PHLPRA_A018_a	Fhisom protones	PP	grass	A018	spring	E	2	0 2.2	5 60	70	0	5	461	0.58	0.09
2018_E_PHLPRA_A018_b	Fillown protoner	PP	grass	A018	spring	E	2	0 2.2	5 52	55	2	10	444	0.72	0.12
2018_E_PHLPRA_A045_a	Fhioum protoneo	PP	grass	A045	spring	E	1	4 1.8	6 66	75	0	5	440	0.53	0.09
2018_E_PHLPRA_A045_b	Phileum protesses	PP	grass	A045	spring	E	1	4 1.8	6 67	75	0	0	495	0.87	0.14
2018_E_PHLPRA_A046_a	Fhieran protector	PP	grass	A046	spring	E	1	5 1.7	2 74	75	0	5	519	0.45	0.07
2018_E_PHLPRA_A046_b	Fhirom protoner	PP	grass	A046	spring	E	ୀ	5 1.7	2 59	75	0	5	447	1.02	0.17
2018_E_PHLPRA_B051_a	Fhierom protenses	PP	grass	B051	spring	E	1	7 2.0	7 77	60	0	2	547	1.12	0.18
2018_E_PHLPRA_B051_b	Fhioum protoneo	PP	grass	B051	spring	E	1	7 2.0	7 72	60	0	5	502	0.85	0.14
2018_E_PHLPRA_B059_a	Fillown protoner	PP	grass	B059	spring	E	1	9 2.5	51 45	60	0	0	605	0.20	0.03
2018_E_PHLPRA_B059_b	Fhirom protector	PP	grass	B059	spring	E	1	9 2.5	51 37	40	0	0	564	0.95	0.15
2018_E_PHLPRA_B073_a	Phinum protoner	PP	grass	B073	spring	E	1	5 2.3	5 57	50	0	5	462	1.24	0.20
2018_E_PHLPRA_B073_b	Fhisom protester	PP	grass	B073	spring	E	1	5 2.3	5 51	50	0	5	506	0.91	0.15
2018_E_PHLPRA_C133_a	Fhisum protones	PP	grass	C133	spring	E	1	8 2.5	0 52	60	0	0	508	0.60	0.10
2018_E_PHLPRA_C133_6	Fhisom protectors	PP	grass	C133	spring	E	1	8 2.5	0 45	60	0	0	537	0.60	0.09
2018_E_PLALAN_A009_a	Flonto qui lon cauloto	PL	herb	A009	spring	E	2	U 1.8	9 14	50	15	25	747	5.70	0.86
2018_E_PLALAN_A009_B	Flantaquianceulata	PL	herb	AUUS	spring	E	2	U 1.8	9 24	85	10	20	783	5.64	0.85
2018_E_PLALAN_AUTLa	Flantaquiancoulata	PL	herb	AUTI	spring	E		7 L: 7 10	)I 13 31 37	40	5	10	717	5.53	0.84
2010_E_PLALAN_AUT_B	Plantequian contato	PL	herb	A019	spring	E	2	r L: 0 22	DI 21 E 19	40	15	20	706	0.01	0.05
2010_E_PLALAN_A010_A	Plantaquiancoulato		herb	A010	spring	E	2	0 2.2	5 13 E 20	40	10		627	5.03	0.07
2018 E PLALAN_A010_0	Flantaquian consista	DI	herb	A043	spring	E		0 2.2 8 2*	3 30 3 31		10	10	669	5.49	0.02
2018 F PLALAN 4043 5	Flantaanlanconista	PI	herb	4043	spring	F		8 2	3 26	85	15	25	893	5 44	0.83
2018 F PLALAN B054 >	Flantaan lanconista	PI	herb	B054	spring	E		9 19	9 22	75	10	5	782	5.78	0.00
2018 F PLALAN 8054 h	Flanteeplanceplate	PL	herb	B054	spring	F		9 19	9 18	75	10	15	819	5.81	0.87
2018 E PLALAN 8057 a	Flantagolanceolata	PL	herb	B057	spring	Ē	2	0 2.4	0 32	80	5	15	670	5.52	0.85
2018 E PLALAN 8057 b	Flantaquilanceulata	PL	herb	B057	spring	E	2	0 2.4	0 20	55	5	10	669	5.39	0.83
2018_E_PLALAN_B073_a	Flontoquilanceulato	PL	herb	B073	spring	E	1	5 2.3	5 22	40	5	10	773	5.68	0.85
2018_E_PLALAN_B073_b	Flantaquiancoulata	PL	herb	B073	spring	E	1	5 2.3	5 16	40	3	10	772	5.60	0.84
2018_E_PLALAN_C115_a	Flantaquiancoulata	PL	herb	C115	spring	E	1	7 2.4	4 39	65	10	5	636	5.48	0.85
2018_E_PLALAN_C115_b	Flantaquiancoulata	PL	herb	C115	spring	E	1	7 2.4	4 17	55	5	15	747	5.53	0.84
2018_E_POAPRA_A026_a	Fooprotoni	PA	grass	A026	spring	E	2	0 2.0	0 51	60	0	5	368	0.24	0.04
2018_E_POAPRA_A026_b	Fooprotowie	PA	grass	A026	spring	E	2	0 2.0	0 54	55	0	5	344	0.31	0.05
2018_E_POAPRA_B073_a	Fooprotensis	PA	grass	B073	spring	E	1	5 2.3	5 64	60	0	0	332	0.34	0.06
2018_E_POAPRA_B073_b	Factoretown	PA	grass	B073	spring	E	1	5 2.3	5 62	60	0	20	190	0.47	0.09
2018_E_POAPRA_B075_a	Fooprotonris	PA	grass	B075	spring	E	1	3 1.6	68 68	80	0	15	242	0.92	0.17
2018_E_POAPRA_C131_a	Pooprotunis	PA	grass	C131	spring	E	1	7 1.8	6 67	60	0	0	364	0.39	0.07
2018_E_POAPRA_C131_b	Freprotowie	PA	grass	C131	spring	E	1	7 1.8	6 55	60	0	5	410	0.23	0.04
2018_E_RANACR_A003_a	Ronunculur ocrir	RA	herb	A003	spring	E	2	0 2.3	31 54	80	0	20	495	1.66	0.27
2018_E_RANACR_A003_b	Ronunculus ocris	RA	herb	A003	spring	E	2	0 2.3	31 71	80	0	20	398	0.99	0.17
ZU18_E_RANACR_A016_a	Ronunculur ocrir	HA	herb	A016	spring	E F	2	r 2.5	ษ 47 ว	80	1	30	408	1.03	0.17
2018_E_RANACR_A016_b	Ronunculur ocrir	HA	herb	A016	spring	E	2	/ 2.5	9 57	80	1	25	431	1.56	0.26
ZUI8_E_HANACR_A018_a	Ronunculur ocrir	HA	herb	AU18	spring	E F	2	U 2.2	চ 35 চ ৫০	80	30	2	514	1.32	0.21
2010_E_HANAUR_AU18_b	Ronunculur ocrir	HA DA	nerb	AU18	spring	E	2	0 2.2	5 62	80	0	30	488	1.32	0.21
2010_C_HANACH_BU/La	Konunculur ocrir	FIA DA	nerb	0071	spring	E		7 2.3	a (9	80	U	20	3/1	1.54	0.21
2010_L_MANACH_DUTLD	renunculur ocrir	nm -	riefD	DOLL	sping	L.		· Z.3	J 32	60	U U	25	401	1.00	0.20

Senset         2-interaction         2-interaction         Session         Session letter code         pin lig         pin lig <thp< th=""><th></th><th>Sample ID</th><th></th><th></th><th></th><th></th><th>plot level tr</th><th>ait</th><th></th><th></th><th>plantlev</th><th>el trait</th><th></th><th>featu</th><th>re dive</th><th>rsitv</th></thp<>		Sample ID					plot level tr	ait			plantlev	el trait		featu	re dive	rsitv
2011AUTOD_ADLModesAutor Schward         A         pras 2012_entry (10, 0, 00, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	sampleID	Species	2-letter code	FG	plot	Season	Season letter code	pRich [#]	pShan (scale)	height [cm]	BBCH [scale]	mechD [%]	pathD [%]	fRich	fShan :	fEven
2012         2013         2014 <th< td=""><td>2018_F_ANTODO_A018_b</td><td>Anthoxanthum odoratum</td><td>AO</td><td>grass</td><td>A018</td><td>early summer</td><td>F</td><td>12</td><td>2.09</td><td>- 5</td><td>60</td><td>0</td><td>5</td><td>541</td><td>4.63</td><td>0.74</td></th<>	2018_F_ANTODO_A018_b	Anthoxanthum odoratum	AO	grass	A018	early summer	F	12	2.09	- 5	60	0	5	541	4.63	0.74
20.11R1070_0.80.         Monumentaneouse         A0         prise B00 entry summer f         10         1.07         13         55         0.0<	2018_F_ANTOD0_A044_b	Anthoxanthum odoratum	AO	grass	A044	early summer	F	6	1.07	9	40	0	10	626	3.35	0.52
20.11AVICO.       100000000000000000000000	2018_F_ANTODO_B060_a	Anthoxanthum odoratum	AO	grass	B060	early summer	F	10	1.87	13	35	3	10	655	3.65	0.56
Dall J., MICOLO, Lis.         Advancementation         A         proof         Pion	2018_F_ANTODO_B060_b	Anthoxanthum odoratum	AO	grass	B060	early summer	F	10	1.87	11	35	10	20	636	2.85	0.44
2011ARTOOC12.       Amagaana       9135       125       entrophysics       11       1.95       9       65       5       0       14       143       0.03       57.0       0.00       3       57.0       0.00       3       57.0       0.00       3       57.0       0.00       3       57.0       0.00       51.0 <td< td=""><td>2018_F_ANTODO_C115_a</td><td>Anthoxanthum odoratum</td><td>AO</td><td>grass</td><td>C115</td><td>early summer</td><td>F</td><td>11</td><td>1.95</td><td>13</td><td>65</td><td>10</td><td>30</td><td>700</td><td>4.72</td><td>0.72</td></td<>	2018_F_ANTODO_C115_a	Anthoxanthum odoratum	AO	grass	C115	early summer	F	11	1.95	13	65	10	30	700	4.72	0.72
2011 J., KPUEU, BO3, J.         Amangkapterner         AP         grass B03 and yammer F         10         1.66         13         50         0         3         576         3.00         0.53         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         517.         0.00         0.00         517.         0.00         0.00         517.         0.00	2018_F_ANTOD0_C115_b	Anthoxanthum odoratum	AO	grass	C115	early summer	F	11	1.95	9	65	5	20	644	4.03	0.62
2011 J., FVPUP. E073.         Amangkaterner         AP         pross 5073.         soft yummer         F         10         1.6         15         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         51.0         0.10         51.0         0.10         51.0         0.10         51.0         0.10         51.0         0.10         51.0         0.10         0.10         51.0         0.10         0.10         0.10         51.0         0.10	2018_F_AVEPUB_B073_a	Avenula pubescens	AP	grass	B073	early summer	F	10	1.96	18	50	0	3	576	3.40	0.53
2011_APEURE_002_a         Ammaphasement         AP         grass B02 estry summer F         0         1.39         1.40         255         5.10         0.52         0.50 <td>2018_F_AVEPUB_B073_b</td> <td>Avenula pubescens</td> <td>AP</td> <td>grass</td> <td>B073</td> <td>early summer</td> <td>F</td> <td>10</td> <td>1.96</td> <td>16</td> <td>35</td> <td>0</td> <td>10</td> <td>518</td> <td>5.17</td> <td>0.83</td>	2018_F_AVEPUB_B073_b	Avenula pubescens	AP	grass	B073	early summer	F	10	1.96	16	35	0	10	518	5.17	0.83
20.11 J., VEVUE_002, b. Answerghetwoord       AP       grass 000 entry summer F       1.89       1.89       1.8       1.8       1.8       1.9       5.5       5.5       5.5       0.0       0.5       20.11 J., VEVUE_002, b. Answerghetwoord       AP       grass (10) entry summer F       7       1.31       1.3       35       5.5       5.5       0.5       0.0       0.5       2.5       0.5       0.0       0.5       2.5       0.5       0.0       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.5       0.0       0.6       0.5       0.6       0.5       0.6       0.5       0.6       0.5       0.6       0.5       0.6       0.5       0.6       0.6       0.5       0.6       0.6       0.5       0.6       0.6       0.6       0.5       0.6       0.6       0.6       0.6       0.6       0.5       0.6       0.	2018_F_AVEPUB_B092_a	Avenula pubescens	AP	grass	B092	early summer	F	8	1.39	19	35	5	10	535	5.16	0.82
2011 J., VIPUP. 003, a.         Amendpactorum         AP         gras: C03: exhivs, ummer F         7         1.31         13         35         5         5.5         0.83           2011 J., VIPUP. 010, a.         Amendpactorum         AP         gras: C10: exhivs, ummer F         1.4         2.24         20         35         5         5.5         0.83         2.01         J., VIPUP. 010, a.         Amendpactorum         AP         gras: C10: exhivs, ummer F         1.4         2.24         20         35         5         2.5         5.7         0.83         2.01         J., CIALLA, CAULA, J., CA	2018_F_AVEPUB_B092_b	Avenula pubescens	AP	grass	B092	early summer	F	8	1.39	18	35	5	5	543	5.39	0.86
2012 fVEFUE_003_b         Amendopatever         AP         gras C10 entry summer F         7         131         13         55         2         0         6         5         5         2         0         6         5         0         6         5         0         6         5         0         6         1         0         1         1         0         1         1         0         0         5         5         0         6         5         0         6         5         0	2018_F_AVEPUB_C103_a	Avenula pubescens	AP	grass	C103	early summer	F	7	1.31	17	65	10	10	592	5.50	0.86
2011 J., AVEUG. (110)       Avendophaneous AP       gns5 (110 ent/summer F       14       224       20       35       5       50 <td< td=""><td>2018_F_AVEPUB_C103_b</td><td>Avenula pubescens</td><td>AP</td><td>grass</td><td>C103</td><td>early summer</td><td>F</td><td>7</td><td>1.31</td><td>13</td><td>35</td><td>5</td><td>5</td><td>613</td><td>5.35</td><td>0.83</td></td<>	2018_F_AVEPUB_C103_b	Avenula pubescens	AP	grass	C103	early summer	F	7	1.31	13	35	5	5	613	5.35	0.83
2011_F_CHALG_03_s       Conversions       AP       grass CL10 entry summer F       14       224       15       35       2       252       5.71       0.83         2011_F_CHALG_03_s       Conversions       Conversions       Conversions       10       15.2       0.01	2018_F_AVEPUB_C110_a	Avenula pubescens	AP	grass	C110	early summer	F	14	2.24	20	35	5	25	589	5.49	0.86
2012 F_CHUA_GOL3_b         Constant without PF         7         1.23         40         00         0.51         5.02         0.73           2013 F_CHUA_GOL3_b         Constant without PF         7         1.10         23         55         5         0.0         0.5         5.0         0.0         0.5         0.0         0.75           2013 F_CHUA_GOL3_b         Constant without PF         7         1.10         23         55         5         0.0         0.5         0.0         0.0         0.0         5.0         0.0         5.0         0.0	2018_F_AVEPUB_C110_b	Avenula pubescens	AP	grass	C110	early summer	F	14	2.24	18	35	2	20	522	5.17	0.83
2015_F_CHUA_GOL2_b         Constant Works         C         heb         A03_exity summer F         7         1.23         38         40         0         5         64         45         07           2016_F_CHUA_GOL2_b         Constant Works         C         heb         A027_exity summer F         7         1.10         43         55         5         20         64         50         0.7           2016_F_CHUA_GOL2_b         Constant Works         C         heb         A03         exity summer F         6         1.34         25         5         0         65         0.0         6.9         0.0         2.0         2.0         2.0         0.0 <td>2018_F_CENJAC_A013_a</td> <td>Centaurea jacea</td> <td>CI</td> <td>herb</td> <td>A013</td> <td>early summer</td> <td>F</td> <td>7</td> <td>1.23</td> <td>40</td> <td>40</td> <td>0</td> <td>0</td> <td>615</td> <td>5.02</td> <td>0.78</td>	2018_F_CENJAC_A013_a	Centaurea jacea	CI	herb	A013	early summer	F	7	1.23	40	40	0	0	615	5.02	0.78
2018_F_CENUA_GAUZ_B         Conductors over Constant o	2018_F_CENJAC_A013_b	Centaurea jacea	CJ	herb	A013	early summer	F	7	1.23	38	40	0	5	648	4.97	0.77
2018_F_CENUA_602_b       Contenserviews       Cl       heth       h027       samp summer F       6       1.34       25       35       3       0       615       4.30       0.77         2018_F_CENUA_6030_b       Contenserviews       Cl       heth       h030       early summer F       6       1.34       25       35       5       40       645       5.0       0.00       4.90       7.72         2018_F_CENUA_6073_b       Contenserviews       Cl       heth       6073       early summer F       1.0       1.56       2.6       5       0       0       6.9       0.72       7.71 <t< td=""><td>2018_F_CENJAC_A027_a</td><td>Centaurea jacea</td><td>CJ</td><td>herb</td><td>A027</td><td>early summer</td><td>F</td><td>7</td><td>1.10</td><td>23</td><td>55</td><td>5</td><td>20</td><td>641</td><td>5.01</td><td>0.77</td></t<>	2018_F_CENJAC_A027_a	Centaurea jacea	CJ	herb	A027	early summer	F	7	1.10	23	55	5	20	641	5.01	0.77
2018_F_CENLAC_4030_s       Contenserviews       Cl       heth       0.030       any summer F       6       1.34       25       35       0       0.654       5.00       0.00       0.00       4.90       0.70         2018_F_CENLAC.0073_s       Contenserviews       Cl       heth       0.073       any summer F       10       1.96       13       35       0       0.600       4.90       0.70         2018_F_CENLAC.0073_s       Contenserviews       Cl       heth       0.073       any summer F       11       1.99       20       65       3       1.0       4.7       1.7       0.23         2018_F_DACGLO_A005_s       Conjegistements       DG       grass       A005       early summer F       12       2.09       20       65       3       1.0       4.7       1.7       0.23       2.5       1.0       4.7       1.7       0.0       2.0       65       3       1.0       4.7       1.8       0.31       5.1       1.0       4.7       1.0       2.0       2.5       1.0       4.7       1.8       0.31       5.0       1.0       4.7       1.0       2.0       2.5       1.0       3.0       5.0       1.0       3.0       5.0	2018_F_CENJAC_A027_b	Centaurea jacea	CI	herb	A027	early summer	F	7	1.10	41	35	5	20	640	5.02	0.78
2013_F_CENUAC_030_b       Centroscoperations       C       herb       A039 early summer F       10       1.96       1.3       35       0       0.64       5.0       0.0	2018_F_CENJAC_A030_a	Centaurea jacea	CI	herb	A030	early summer	F	6	1.34	25	35	3	0	615	4.93	0.77
2013 F_CENUAC 6073_b       Conversion       Conversion <thconversion< th="">       Conversion       Conv</thconversion<>	2018_F_CENJAC_A030_b	Centaurea jacea	CI	herb	A030	early summer	F	6	1.34	25	35	5	40	654	5.20	0.80
2013 F_CRUAC.0075_       Conductance Accession       CI       herb       B073 early summer F       10       1.96       26       65       3       10       47.17       0.23         2018 F_DACGLO.A005_       Deckyleglomenar       D6       grass A05 early summer F       11       1.99       22       65       3       10       47.17       0.23         2018 F_DACGLO.A005_       Deckyleglomenar       D6       grass A018 early summer F       12       2.09       20       65       3       10       47.19       0.33         2018 F_DACGLO.A013_D       Deckyleglomenar       D6       grass A018 early summer F       10       1.44       24       35       10       47.19       0.33         2018 F_DACGLO.007_D       Deckyleglomenar       D6       grass C07 early summer F       10       1.44       24       35       10       47.4       29       0.33         2018 F_DACGLO.037_D       Deckyleglomenar       D6       grass C07 early summer F       5       1.17       20       35       5       15       36.06       0.06       2018 F_ESRUB.BOALa       Accessionare       FR       grass E07 early summer F       9       0.77       16       65       15       36.05       0.05       0.06 <td< td=""><td>2018_F_CENJAC_B073_a</td><td>Centaurea jacea</td><td>CI</td><td>herb</td><td>B073</td><td>early summer</td><td>F</td><td>10</td><td>1.96</td><td>13</td><td>35</td><td>0</td><td>0</td><td>609</td><td>4.99</td><td>0.78</td></td<>	2018_F_CENJAC_B073_a	Centaurea jacea	CI	herb	B073	early summer	F	10	1.96	13	35	0	0	609	4.99	0.78
2018_F_DAC610_A005_b       Deckgebonnese       DG       grass A005 early summer F       11       199       20       65       3       10       447       170       0.23         2018_F_DAC610_A015_b       Deckgebonnese       DG       grass A018 early summer F       12       209       20       65       3       15       379       2018	2018_F_CENJAC_B073_b	Centaurea jacea	CI	herb	B073	early summer	F	10	1.96	26	65	0	5	680	5.12	0.79
2018_F_DACGLO_A005_b       Zucky Exponence       DG       grass A005 early summer F       11       199       22       65       3       15       409       170       0.28         2018_F_DACGLO_A018_b       Zucky Exponence       DG       grass A018 early summer F       12       2.09       20       65       3       5       10       447       455       0.0       427       428       0.33         2018_F_DACGLO_0079_b       Zucky Exponence       DG       grass< 037	2018_F_DACGL0_A005_a	Dactylis glomerata	DG	grass	A005	early summer	F	11	1.99	20	65	3	10	447	1.37	0.23
2018_F_DACSIO_ADIB_       Conditisy bornness       DG       grass ADIE early summer F       12       2.09       20       65       3       5       79       2.10       0.03         2018_F_DACSIO_0075_a       Conditsy bornness       DG       grass C017 early summer F       10       1.48       2.41       35       10       1.0       4.47       4.99       0.33         2018_F_DACSIO_0077_a       Conditsy bornness       DG       grass C017 early summer F       10       1.48       2.11       30       70       2       5       1.47       4.99       0.33         2018_F_DACSIO_0077_a       Conditsy bornness       DG       grass C137 early summer F       5       1.17       2.1       40       5       1.5       305       0.60       0.00       2018_F_ESENBED604.a       Festowendes       FR       grass D064 early summer F       9       0.77       16       65       5       1.5       305       0.00       2018_F_ESENBED606.ph       Festowendes       FR       grass D067 early summer F       9       1.65       1.8       35       3       2.0       3.0       0.00       2018_F_ESENBED607.ph       Festowendes       FR       grass D076 early summer F       9       1.65       1.8       3.5       3	2018_F_DACGL0_A005_b	Dactylis glomerata	DG	grass	A005	early summer	F	11	1.99	22	65	3	15	409	1.70	0.28
2018_F_DACGLO_A018_b       Zelegle glosmewar       DG       grass 001 early summer F       10       148       24       55       10       427       190       0.33         2018_F_DACGLO_0037_b       Zelegle glosmewar       DG       grass 007 early summer F       10       148       21       65       10       15       417       290       0.83         2018_F_DACGLO_0137_b       Zelegle glosmewar       DG       grass 017 early summer F       5       117       30       70       2       5       474       237       0.99         2018_F_DACGLO_137_b       Zelegle glosmewar       DG       grass 064 early summer F       9       0.77       20       35       5       15       355       0.60       20       22       35       0.60       20       215       55       0.60       2       25       30       0.60       2018_FESRUB_0667_b       Areavander       FR       grass 0667 early summer F       9       1.65       18       35       3       20       334       0.41       0.07       2018_FESRUB_067_b       Areavander       FR       grass 067 early summer F       10       1.96       23       70       0       2       23       0.00       2012_FESRUB_067_b       Areavander	2018_F_DACGL0_A018_a	Dactylis glomerata	DG	grass	A018	early summer	F	12	2.09	20	65	3	5	379	2.31	0.39
2018_F_DACGL_0079_b       Deckgle glommerse       DG       grass 007 early summer F       10       148       24       55       10       10       494       245       0.39         2018_F_DACGL_0079_b       Deckgle glommerse       DG       grass 017 early summer F       10       148       21       65       10       15       417       90       0.3         2018_F_DACGL_0173_b       Deckgle glommerse       DG       grass 012 early summer F       5       117       21       40       5       15       30.6       0.8       0.6       0.8       0.2       215       56.0       20       215       8.607       early summer F       9       1.65       18       35       3       20       34       0.41       0.07         2018_FESRUB_B073_b       Fereusariale       FR       grass 8073 early summer F       10       1.96       23       70       0       2       22       0.5       0.0       2012       FESRUB_B073_b	2018_F_DACGL0_A018_b	Dactylis glomerata	DG	grass	A018	early summer	F	12	2.09	32	35	5	10	427	1.98	0.33
2018_F_DACGLO_007.137.       Decodes_chormerano       DG       grass (137 early summer F       10       1.48       21       65       10       15       417       49       0.83         2018_F_DACGLO_(137.2)       Decodes_chormerano       DG       grass (137 early summer F       5       1.17       21       40       5       1.5       413       5.16       0.86         2018_F_LEXEND_BOGLA_A       Accelerator       FR       grass (036 early summer F       9       0.77       20       35       5       1.5       305       0.60       0.00         2018_F_LEXEND_BOGLA_A       Accelerator       FR       grass (036 early summer F       9       1.65       25       60       2       2.5       32       0.35       0.60         2018_F_LESEND_BOGT_A       Accelerator       FR       grass (037 early summer F       10       1.96       23       70       0       2.32       20.1       0.09         2018_F_LESEND_BOT3_A       Accelerator       FR       grass (037 early summer F       10       1.96       23       70       0       2.32       20.1       0.90         2018_F_LESEND_BOT3_A       Accelerator       FR       grass (114 early summer F       10       1.96       23	2018_F_DACGL0_C097_a	Dactylis glomerata	DG	grass	0097	early summer	F	10	1.48	24	35	10	10	494	2.45	0.39
2018_F_DACGLO_CI37_       Decoging pormentar       DG       grass       C37       early summer F       5       1.17       20       75       4.74       2.37       0.39         2018_F_DACGLO_CI37_D       Decoging pormentar       DG       grass       C37       early summer F       9       0.77       20       35       5       1.15       305       0.36       0.66         2018_F_LESRUB_BOG4_A       Festore andrav       FR       grass       DF       early summer F       9       0.77       16       65       5       1.5       305       0.66         2018_F_LESRUB_BOG7_A       Festore andrav       FR       grass       BO7       early summer F       9       1.65       18       35       3       20       34       0.41       0.07         2018_F_LESRUB_BOG7_A       Festore andrav       FR       grass       BO7       early summer F       10       1.96       23       70       0       2       28       0.51       0.09         2018_F_LESRUB_BO3_A       Festore andrav       FR       grass       C14       early summer F       10       1.96       23       70       0       2       28       0.5       0.09       2018       FERPRA_A018_D	2018_F_DACGL0_C097_b	Dactylis glomerata	DG	grass	0097	early summer	F	10	1.48	21	65	10	15	417	4.99	0.83
2018_F_ESRUB_064_a       backgits glownerse       DG       grass (L37 early summer F       5       1.17       21       40       5       L43       5.16       0.05         2018_F_ESRUB_064_a       beckgits glownerse       FR       grass B064 early summer F       9       0.77       16       65       5       15       30       0.06         2018_F_ESRUB_067_a       beckgits glownerse       FR       grass B064 early summer F       9       1.65       25       60       2       2.8       0.51       0.06         2018_F_ESRUB_B067_a       beckgits glownerse       FR       grass B07       early summer F       9       1.65       23       70       0       2       32       0.51       0.09         2018_F_ESRUB_B073_a       beckgits glownerse       FR       grass B073 early summer F       10       1.96       23       70       0       2       32       0.51       0.09         2018_F_ESRUB_C114_a       beckgits glownerse       FR       grass B073 early summer F       10       1.96       23       70       0       2       32       0.51       0.09       2014       bits glownerse       0.9       1.00       1.01       1.05       22       35       0       1.0 <td< td=""><td>2018_F_DACGL0_C137_a</td><td>Dactylis glomerata</td><td>DG</td><td>grass</td><td>C137</td><td>early summer</td><td>F</td><td>5</td><td>1.17</td><td>30</td><td>70</td><td>2</td><td>5</td><td>474</td><td>2.37</td><td>0.39</td></td<>	2018_F_DACGL0_C137_a	Dactylis glomerata	DG	grass	C137	early summer	F	5	1.17	30	70	2	5	474	2.37	0.39
2015_FESRUB_BO64_a       Festovarubre       FR       grass BO64 early summer F       9       0.77       20       35       5       15       305       0.60       0.06         2013_FESRUB_BO67_a       Festovarubre       FR       grass BO67 early summer F       9       0.165       25       60       2       25       382       0.35       0.60         2013_FESRUB_BO67_a       Festovarubre       FR       grass BO67 early summer F       9       1.65       18       35       3       20       334       0.41       0.07         2013_FESRUB_BO73_b       Festovarubre       FR       grass BO73 early summer F       10       1.96       23       70       0       2       328       0.51       0.09         2013_FESRUB_D174_a       Festovarubre       FR       grass B073 early summer F       10       1.96       25       35       1       10       311       0.55       0.09         2013_FESRUB_D114_b       Festovarubre       FR       grass B073 early summer F       12       2.09       23       35       0       10       5.5       10       15       5.6       0.82       0.82       0.82       0.82       0.82       0.82       0.82       0.82       0.82	2018_F_DACGL0_C137_b	Dactylis glomerata	DG	grass	C137	early summer	F	5	1.17	21	40	5	15	413	5.16	0.86
2012_FESRUE_B064_b       Federa nutre       FR       grass B064 early summer F       9       0.77       16       65       5       15       358       0.00       0.00         2013_FESRUE_B067_b       Federa nutre       FR       grass B067 early summer F       9       1.65       1.8       35       3       20       334       0.41       0.07         2013_FESRUE_B073_a       Federa nutre       FR       grass B067 early summer F       10       1.96       23       70       0       2       32       0.51       0.09         2013_FESRUE_B073_a       Federa nutre       FR       grass B073 early summer F       10       1.96       25       35       10       0.2       32       0.51       0.09         2013_FESRUE_G114_a       Federa nutre       FR       grass C114 early summer F       8       1.05       22       35       10       50       2.00       0.3       31       0.58       0.09         2013_F_ESRUE_G114_a       Federa nutre       FR       grass C114 early summer F       12       2.09       33       35       0       10       52       10       50       1.6       0.5       2.00       0.83       2.00       0.83       0.20       0.83	2018_F_FESRUB_B064_a	Festuca rubra	FR	grass	B064	early summer	F	9	0.77	20	35	5	15	305	0.36	0.06
2013FESRUB_BOG1_a       Fectorative       FR       grass BOG7 early summer F       9       1.65       25       60       2       2.8       322       0.45       0.06         2013FESRUB_BOG7_a       Fectorative       FR       grass BOG7 early summer F       10       1.96       23       70       0       2       328       0.51       0.09         2013_F_FESRUB_BOG7_a       Fectorative       FR       grass BOG7 early summer F       10       1.96       23       70       0       2       328       0.51       0.09         2013_F_FESRUB_C114_a       Fectorative       FR       grass BOG7 early summer F       10       1.96       25       35       1       10       331       0.55       0.09         2013_F_FESRUB_C114_a       Fectorative       FR       grass BOG7 early summer F       12       2.09       23       35       0       10       532       5.16       0.82         2013_F_GERPRA_A018_b       Greanism presence       GP       herb A018 early summer F       12       2.09       33       35       0       10       54       43       0.82       0.83       0.82       0.83       0.82       0.83       0.82       0.83       0.82       0.83       0.	2018_F_FESRUB_B064_b	Festuca rubra	FR	grass	B064	early summer	F	9	0.77	16	65	5	15	358	0.50	0.08
2015FESR0F_00_0       Federacular       FR       grass B0/0       early summer F       9       1.65       18       55       5       20       34       0.41       0.07         2015_FESR0E_B073_0       Federacular       FR       grass B0/3 early summer F       10       1.96       23       70       0       2       228       0.09         2015_FESR0E_0114_a       Federacular       FR       grass B0/3 early summer F       10       1.96       23       70       0       2       228       0.01       5       278       0.01       0.05       2015       FESR0E_0114_a       Federacular       FR       grass C114       early summer F       8       1.05       27       35       10       05       20       23       55       0       10       53       20       215       6.68       0.82       0.83       0.01       0.83       0.01       0.83       0.01       0.05       2015       50       5       0       10       53       0       10       53       0       10       1.64       34       35       0       10       0.44       43       55       15       50       5.28       0.85         2018_FESERPA_001_0       Greanism pre	2018_F_FESRUB_B067_a	Festuca rubra	FR	grass	B067	early summer	F	9	1.65	25	60	2	25	382	0.35	0.06
2015_FESR08_0013_a       Federaviates       FR       grass B0/3 early summer F       10       1.96       23       70       0       2.52       0.05       0.09         2013_FESR08_0075_       Fereinaviates       FR       grass B0/3 early summer F       10       1.96       25       35       1       10       31       0.05         2013_FESR08_0114_b       Fereinaviates       FR       grass C114 early summer F       8       1.05       22       35       10       30       361       0.58       0.02         2013_F_ESR08_0114_b       Fereinaviates       FR       grass C114 early summer F       12       2.09       23       35       0       10       52       35       0       361       0.82       0.83         2013_F_GERPRA_A018_a       Geraniam paramerse       GP       herb       A018 early summer F       12       2.09       30       35       20       408       4.93       0.82         2013_F_GERPRA_B001_a       Geraniam paramerse       GP       herb       B021 early summer F       10       1.64       34       35       0       2.0       408       4.93       0.82       2.08       2018_F_GERPRA_C003_a       Geraniam paramerse       GP       herb       B021 early s	2018_F_FESRUB_8067_D	Festucarubra	FR	grass	B067	early summer	•	9	1.65	18	35	3	20	334	0.41	0.07
2015FESRUB_CU14_s       Feature intervent       FR       grass GU14 early summer F       10       1.96       25       35       1       10       351       0.05       0.09         2015_FESRUB_CU14_s       Feature intervent       FR       grass CU14 early summer F       8       1.05       37       35       10       30       361       0.58       0.09         2015_FESRUB_CU14_b       Feature intervent       FR       grass CU14 early summer F       12       2.09       23       35       0       10       532       5.16       0.82         2015_FESRUB_CU14_b       Feature intervent       GP       hetb       A018 early summer F       12       2.09       30       35       0       10       532       5.16       0.82         2015_FESRUB_CU14_b       Greanium presence       GP       hetb       B001 early summer F       10       1.64       34       35       0       20       40       433       0.82         2015_FESRUPA_CU09_b       Greanium presence       GP       hetb       B001 early summer F       10       1.64       36       35       10       44       45       0.82       0.83         2015_FEGERPA_CU09_b       Greanium presence       GP       hetb	2018_F_FESRUB_B073_a	Festuca rubra	FR	grass	B073	early summer	F	10	1.96	23	70	0	2	328	0.51	0.09
2015_FESROP_L14_a       Federal and a       FR       grass CL14 early summer F       3       1.05       22       55       10       5       276       0.51       0.05         2015_FESROP_L14LA       Festora and a       France and a       grass CL14 early summer F       12       2.09       23       35       0       10       53       5.10       53       20       2.01       53       10       0.51       0.05       0.05         2015_FESROP_L14La       Festora and a       Grand magnetics       GP       herb       A018 <early f<="" summer="" td="">       12       2.09       23       35       0       10       53       5.0       8.0       0.80         2015_FESROPA_BOS1_a       Grand magnetics       GP       herb       B001<early f<="" summer="" td="">       10       1.64       36       35       5       15       506       5.28       0.85         2015_FESROPA_C003_a       Grand magnetics       GP       herb       B001<early f<="" summer="" td="">       11       1.91       37       35       3       1       428       5.09       0.84         2015_FESROPA_C021_a       Grand magnetics       GP       herb       C02       early summer F       9       1.33       33       55       3</early></early></early>	2018_F_FESRUB_8073_0	Festuca rubra	FR	grass	B073	early summer	r	10	1.96	25	35	1	10	331	0.55	0.09
2105CFRPRA_A010_s       Generalize predictioned       FR       glass CL14 early summer F       12       2.09       2.3       35       .00       36       0.10       5.0       0.80       0.10       5.0       0.10       5.0       0.10       5.0       0.10       5.0       0.10       5.0       0.10       5.0       0.10       5.0       0.00       0.00       2015_CERPRA_A010_s       Generalize prediction presence       6P       heth A018 early summer F       12       2.09       30       35       00       0.00       4.03       4.03       0.02       0.03       0.20       1.05       5.0       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02       0.03       0.02	2018_F_FESRUB_C114_a	Festuca lubra	FR	grass	C114	early summer	r	8	1.05	22	35	10		2/8	0.51	0.05
2105ceterPrA_2012_b       Genominiprovence       GP       herb       Aulo early summer F       12       2.09       23       55       0       10       52       5.18       0.82         2015_ceterPrA_2012_b       Genominiprovence       GP       herb       B081 early summer F       12       2.09       23       55       0       10       52       5.18       0.82         2015_ceterPrA_B081_a       Genominiprovence       GP       herb       B081 early summer F       10       1.64       34       35       0       20       408       4.93       0.82         2015_ceterPrA_B081_a       Genominiprovence       GP       herb       B081 early summer F       10       1.64       36       35       5       15       50       5.20       0.82         2015_ceterPrA_C002_b       Genominiprovence       GP       herb       C09 early summer F       11       1.91       34       35       10       43       5.24       0.82         2015_ceterPrA_C121_a       Genominiprovence       GP       herb       C12       early summer F       9       1.33       33       35       3       10       43       5.24       0.82         2015_ceterPrA_C121_a       Genominiprovence <td>2018_F_FESRUB_C114_D</td> <td>Festucatubra</td> <td>FR CD</td> <td>grass.</td> <td>4010</td> <td>early summer</td> <td>r r</td> <td>10</td> <td>1.05</td> <td>57</td> <td>20</td> <td>10</td> <td>50</td> <td>201</td> <td>0.58</td> <td>0.10</td>	2018_F_FESRUB_C114_D	Festucatubra	FR CD	grass.	4010	early summer	r r	10	1.05	57	20	10	50	201	0.58	0.10
2015CERPRA_BOOL_0       binamemprovenue       GP       herb Role early summer F       10       1.64       34       35       00       1.9       4.0       8.00       0.83         2015CERPRA_BOOL_0       binamemprovenue       GP       herb BOOL early summer F       10       1.64       36       35       5       1.5       506       5.20       0.83         2018CERPRA_COD_0       binamemprovenue       GP       herb BOOL early summer F       10       1.64       36       35       5       1.5       506       5.20       0.83         2018CERPRA_COD_0       binamemprovenue       GP       herb COD early summer F       11       1.91       37       35       3       1.4       4.20       0.00       0.84         2018CERPRA_COD_1       binamemprovenue       GP       herb COD early summer F       11       1.91       34       35       10       4.83       5.24       0.05         2018_CERPRA_COD_1       binamemprovenue       GP       herb CO21 early summer F       9       1.33       33       35       5       1.5       520       1.37       0.20         2018_CHOLAN_AOLS_A       Adversionatus       HL       grass <aols early="" f<="" summer="" td="">       12       2.09       12<td>2018_F_GERPRA_A018_a</td><td>Geranium pratense</td><td>GP</td><td>herb</td><td>A018</td><td>early summer</td><td>r</td><td>12</td><td>2.09</td><td>25</td><td>20</td><td>20</td><td>10</td><td>420</td><td>5.10</td><td>0.82</td></aols>	2018_F_GERPRA_A018_a	Geranium pratense	GP	herb	A018	early summer	r	12	2.09	25	20	20	10	420	5.10	0.82
2012_j=GERPRA_C001_a <i>Birendemplaneae</i> GP       herb 0001 early summer F       10       1.64       .64       .53       .6       20       4.05       4.05       6.05       4.05       4.05       6.05       20.05       .654       .154       .54       .55       0.05       20.05       20.05       .654       .154       .56       .052       0.052       20.05       .654       .15       50.6       .20       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .052       .032       .032       .016	2010_F_GERPRA_A010_D	Geranium pratense	GP	herb	A010	early summer	r F	10	2.09	30	20	20	20	420	1.02	0.65
2015	2010_F_GERPRA_DU01_d	Geranium pratense	GP	herb	D001	early summer	r c	10	1.64		20		20	408	4.95	0.82
2016_F_GERPRA_CLO2_b       Generation parameter       6P       herb       CLO3 early summer F       11       1.91       34       35       10       4.83       5.09       0.84         2016_F_GERPRA_CLO2_b       Generation parameter       6P       herb       CLO2 early summer F       11       1.91       34       35       10       483       5.24       0.85         2018_F_GERPRA_CLO2_b       Generation parameter       6P       herb       CLO2 early summer F       9       1.33       33       35       3       10       483       5.24       0.85         2018_F_GERPRA_CLO2_b       Generation parameter       6P       herb       CLO2 early summer F       9       1.33       27       60       0       34       452       0.80         2018_F_HOLLAN_A018_a       Abous fanatus       HL       grass       A018 early summer F       12       2.09       12       40       5       20       5.02       1.35       0.22         2018_F_HOLLAN_A018_a       Abous fanatus       HL       grass       A018 early summer F       10       1.61       19       40       0       30       502       2.85       0.41         2018_F_HOLLAN_A045_a       Abous fanatus       HL       grass<	2010_F_GERPRA_DUO1_D	Cieranium pratense	CD	harb	C100	early summer	r E	11	1.04		35	2	15	420	5.20 E.00	0.05
2012_j=QitrPA_CU21_a       Greaning parameter       6F       herb       Cl21 early summer F       9       1.33       33       55       3       10       4.9       4.52       0.80         2018_j=GERPA_CL21_a       Greaning parameter       6F       herb       Cl21 early summer F       9       1.33       35       3       10       4.93       4.52       0.08       0.83         2018_j=GERPA_CL21_b       Greaning parameter       6F       herb       Cl21 early summer F       9       1.33       27       60       0       3       462       5.08       0.83         2018_j=HOLLAN_A012_b       Abous fanatuse       HL       grass       A018 early summer F       12       2.09       9       35       5       15       52       1.37       0.22         2018_j=HOLLAN_A012_b       Abous fanatuse       HL       grass       A035 early summer F       10       1.61       19       40       0       30       502       2.58       0.41         2018_j=HOLLAN_A0402_b       Abous fanatuse       HL       grass       A035 early summer F       10       1.61       17       65       0       30       502       2.58       0.41       1.18         2018_j=HOLLAN_A040_b	2018_F_GERPRA_C109_d	Geranium pratense	GP	herb	C109	early summer	F	11	1.91	. 57	20	10	20	420	4.02	0.04
2016_f_CHCPR_CL2L_0       binametry summer F       1.33       33       53       34       40       403       5.4       0.85         2018_f_CERPRA_CL2L_0       binametry summer F       9       1.33       27       60       0       403       5.24       0.85         2018_f_CHPRA_CL2L_0       binametry summer F       12       2.09       9       35       5       15       5.22       1.37       0.22         2018_f_HOLLAN_A018_0       Helx       grass A018 early summer F       12       2.09       9       35       5       20       502       1.55       0.22         2018_f_HOLLAN_A035_b       Abous fanatus       HL       grass A035 early summer F       10       1.61       19       40       0       30       502       2.58       0.41         2018_f_HOLLAN_A035_b       Abous fanatus       HL       grass A035 early summer F       10       1.61       17       65       0       30       502       2.58       0.41         2018_f_HOLLAN_A035_b       Abous fanatus       HL       grass A040 early summer F       7       1.33       8       70       5       20       543       3.19       0.51         2018_f_HOLLAN_A040_a       Abous fanatus       HL </td <td>2010_F_GERPRA_C105_D</td> <td>Gerandon praterise</td> <td>CP</td> <td>horb</td> <td>(10)</td> <td>early summer</td> <td></td> <td></td> <td>1.51</td> <td></td> <td>35</td> <td>10</td> <td>20</td> <td>404</td> <td>4.52</td> <td>0.00</td>	2010_F_GERPRA_C105_D	Gerandon praterise	CP	horb	(10)	early summer			1.51		35	10	20	404	4.52	0.00
2015_F_HOLLAN_A015_a       Abous Janatus       HL       grass       A018 early summer F       12       2.09       9       35       5       15       52.2       1.37       0.22         2015_F_HOLLAN_A015_a       Abous Janatus       HL       grass       A018 early summer F       12       2.09       12       40       5       20       5.02       1.35       0.22         2015_F_HOLLAN_A015_a       Abous Janatus       HL       grass       A018 early summer F       10       1.61       19       40       0       30       50       2.28       0.41         2015_F_HOLLAN_A035_a       Abous Janatus       HL       grass       A035 early summer F       10       1.61       19       40       0       30       50       2.28       0.41         2015_F_HOLLAN_A035_b       Abous Janatus       HL       grass       A035 early summer F       10       1.61       17       65       0       50       2.54       3.19       0.51         2015_F_HOLLAN_A040_b       Abous Janatus       HL       grass       A040 early summer F       7       1.33       10       65       10       30       440       2.74       0.45         2018_F_HOLLAN_A040_b       Abous Janatus	2010_F_GERPRA_C121_d	Geranium pratense	GP	herb	(121	early summer	F	9	1.33	27	55		10	462	5.24	0.05
2016_F_HOLLAN_A016_b       Activestimations       HL       grass A016 early summer F       12       2.09       12       40       5       20       5.0       1.5       0.22       1.5       0.22         2016_F_HOLLAN_A016_b       Activestimatus       HL       grass A035 early summer F       12       2.09       12       40       5       0       0.0       2.05       0.412         2016_F_HOLLAN_A015_b       Activestimatus       HL       grass A035 early summer F       10       1.61       19       40       0       30       500       2.15       0.22         2016_F_HOLLAN_A0403_b       Activestimatus       HL       grass A035 early summer F       10       1.61       17       65       0       30       500       1.16       1.02       2.05       1.02       1.03       1.0       0.02       2.05       1.01       1.01       1.01       1.01       1.01       1.01       1.02       1.02       1.03       1.00       1.02       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.03       1.04       2.04       2.04       2.04       2.04       2.04       2.04 </td <td>2010_F_GERFRA_C121_D</td> <td>Cleranium praterise</td> <td>GF LLI</td> <td>arace</td> <td>1010</td> <td>early summer</td> <td>5</td> <td>12</td> <td>2.00</td> <td></td> <td>20</td> <td></td> <td>15</td> <td>402 E00</td> <td>1 27</td> <td>0.03</td>	2010_F_GERFRA_C121_D	Cleranium praterise	GF LLI	arace	1010	early summer	5	12	2.00		20		15	402 E00	1 27	0.03
2018_F_HOLLAN_A035_a       Ackews.Innumer       HL       grass       A035       extra structure       10       1.61       19       40       0       30       50.2       2.58       0.41         2018_F_HOLLAN_A035_a       Ackews.Innumer       HL       grass       A035       extra structure       10       1.61       19       40       0       30       50.2       2.58       0.41         2018_F_HOLLAN_A035_a       Ackews.Innumer       HL       grass       A035       extra structure       10       1.61       17       65       0       30       50.9       1.11       0.18         2018_F_HOLLAN_A040_a       Ackews.Innutus       HL       grass       A040       early summer F       7       1.33       8       70       5       20       54.3       3.19       0.51         2018_F_HOLLAN_A040_b       Ackews.Innutus       HL       grass       A040       early summer F       7       1.33       10       65       10       30       440       2.74       0.45         2018_F_HOLLAN_B000_b       Ackews.Innutus       HL       grass       B000       early summer F       8       1.07       14       35       0       15       574       2.37 <t< td=""><td>2018_F_HOLLAN_A018_B</td><td>Holous Innatus</td><td>HI</td><td>grass</td><td>A019</td><td>early summer</td><td>F</td><td>12</td><td>2.09</td><td>12</td><td>40</td><td>5</td><td>20</td><td>502</td><td>1.37</td><td>0.22</td></t<>	2018_F_HOLLAN_A018_B	Holous Innatus	HI	grass	A019	early summer	F	12	2.09	12	40	5	20	502	1.37	0.22
Loss function         Loss fun	2018 F HOLLAN 4035 >	Historie Ianatus	н	prass	4035	early summer	F	10	2.05	10	40	0	20	502	2.58	0.41
Lang_internet         Int         grass Advise Statute         Int         grass Advise Statute         Int         Sol         Sol </td <td>2018 E HOLLAN 4035 b</td> <td>- Antone Janatus</td> <td>HI</td> <td>grass</td> <td>4035</td> <td>early summer</td> <td>F</td> <td>10</td> <td>1.61</td> <td>19</td> <td>40</td> <td>0</td> <td>30</td> <td>502</td> <td>1 11</td> <td>0.12</td>	2018 E HOLLAN 4035 b	- Antone Janatus	HI	grass	4035	early summer	F	10	1.61	19	40	0	30	502	1 11	0.12
Zolls_F_HOLLAN_BORO_D         Advices families         HL         grass A040 early summer F         7         1.33         10         65         10         30         440         2.74         0.45           2018_F_HOLLAN_BORO_D         Advices families         HL         grass B080 early summer F         8         1.07         12         65         0         15         529         0.72         0.12           2018_F_HOLLAN_BORO_D         Advices families         HL         grass B080 early summer F         8         1.07         14         35         0         15         529         0.72         0.12	2018 F HOLLAN A040 3	Holous lanatus	н	prass	A040	early summer	F	7	1.01	. 1/	70	5	20	543	3 1 9	0.51
2018         F_HOLLAN_B000_a         Aboless families         HL         grass B000 early summer F         8         1.07         12         65         0         15         574         2.37         0.37           2018         F_HOLLAN_B000_b         Aboless families         HL         grass B000 early summer F         8         1.07         12         65         0         15         574         2.37         0.37           2018         F_HOLLAN_B000_b         Aboless families         BL         grass B000 early summer F         8         1.07         14         35         0         15         529         0.72         0.12	2018 F HOLLAN A040 h	Holous lanatus	HL	grass	A040	early summer	F	7	1 33	10	65	10	30	440	2.74	0.45
2015_FUCLAN_B000_b Adverse American HL grass B000 early summer F 8 1.07 14 35 0 15 529 0.72 0.12	2018 F HOLLAN B080 a	Holous lanatus	н	grass	B080	early summer	F	, 8	1.07	12	65	0	15	574	2.37	0.37
	2018_F_HOLLAN_B080_b	Holous lanatus	HL	grass	B080	early summer	F	8	1.07	14	35	0	15	529	0.72	0.12

	Sample ID					plot leve	el trait	-	1.7	plantleve	l trait		feat	ure dive	arsity
sampleID	Species	2-letter code	FG	plot	Season	Season letter co	de pRich[#]	pShan [scale]	height [cm]	BBCH[scale]	mechD[%]	pathD[%]	fRich	fShan	fEven
2018_F_KNAARV_A010_a	Knoutio orvensis	KA	herb	A010	early summer	F	8	1.12	34	65	15	3	824	5.58	0.83
2018_F_KNAARV_A010_b	Knoutio ervenziz	KA	herb	A010	early summer	F	8	1.12	49	65	3	10	778	5.49	0.83
2018_F_KNAARV_A020_a	Knoutio ervensis	KA	herb	A020	early summer	F	10	1.29	39	35	5	0	709	5.51	0.84
2018_F_KNAARV_A020_B	Knoutio ervensis	KA	herb	A042	early summer	r c	U S	1.29	53	55	0	3	716	5.43	0.83
2010_F_KNAAHV_A042_a 2018 E KNAADV A042_b	Knowlie erwary	KA KA	herb	A042	early summer	F	0 a	0.77	34	30	2	20	655	5.30	0.02
2018 F KNAARV_R042_0	Knautia arvenzie	KA	herb	B073	early summer	F	10	196	28	35	0	0	737	5.57	0.02
2018 F KNAARV B073 b	Kneutie erwaeie	KA	herb	B073	early summer	F	10	1.96	33	35	10	15	692	5.38	0.82
2018_F_LEUVUL_A018_a	Loveenthemum vulgere	LV	herb	A018	early summer	F	12	2.09	12	40	0	15	688	5.20	0.80
2018_F_LEUVUL_A018_b	Loveanthonium vulgare	LV	herb	A018	early summer	F	12	2.09	5	70	5	15	625	5.38	0.84
2018_F_LEUVUL_B048_a	Loveanthemom vulgare	LV	herb	B048	early summer	F	8	1.33	10	35	0	2	553	5.28	0.84
2018_F_LEUVUL_B048_b	Lovcanthomom vulgara	LV	herb	B048	early summer	F	8	1.33	10	35	5	2	592	5.21	0.82
2018_F_LEUVUL_B051_a	Lovcanthemum vulgare	LV	herb	B051	early summer	F	6	1.47	7	35	0	2	592	5.16	0.81
2018_F_LEUVUL_B051_6	Lovcanthomom vulgare	LV	herb	B051	early summer	F	6	1.47	6	65	0	0	613	5.27	0.82
2018_F_LEUVUL_BU73_a	Loveanthemom vulgare	LV	herb	BU73	early summer	F F	10	1.96	4	35	0	2	564	5.17	0.82
2010_F_LEUVUL_BU73_D	Loventhemum vulgare	LV	herb	DUIS	early summer	F	10	1.30	7	25	2	3	502	5.27	0.03
2010_1_EE0V0E_0005_a	Lovenski mun uulem	LV	harb	B085	early summer	F	7	1.22	7	35	2	5	712	5.60	0.00
2018 F LEUVUL B090 a	Lowcanthomomoutleare	IV.	herb	B090	early summer	F	5	0.84	12	35	0	5	703	5.62	0.86
2018 F_LEUVUL_B090_b	Loucanthomum vulgara	LV	herb	B090	early summer	F	5	0.84	7	35	2	5	625	5.20	0.81
2018_F_LEUVUL_C135_a	Lovcanthomom vulgare	LV	herb	C135	early summer	F	7	1.17	11	35	0	0	617	5.18	0.81
2018_F_LEUVUL_C135_ь	Lovcanthomom vulgara	LV	herb	C135	early summer	F	7	1.17	7	35	0	0	560	5.17	0.82
2018_F_LEUVUL_C136_a	Lovcanthomom vulgara	LV	herb	C136	early summer	F	8	1.60	13	35	0	0	412	4.53	0.75
2018_F_LEUVUL_C136_Ь	Lovcanthomum vulgara	LV	herb	C136	early summer	F	8	1.60	8	70	0	0	615	5.36	0.84
2018_F_PHLPRA_A002_a	Fhirom protoner	PP	grass	A002	early summer	F	8	1.62	20	40	10	15	583	3.22	0.51
2018_F_PHLPRA_A002_6	Fhioum protoneo	PP	grass	A002	early summer	F	8	1.62	16	65	5	10	487	1.02	0.16
2018_F_PHLPRA_A018_a	Fhioum protoneo	PP	grass	A018	early summer	F F	12	2.09	10	55	2	10	486	2.39	0.39
2010_F_FILFRA_A010_0	FRANK FRANK		grass	0045	early summer	F	12	2.03	12	40	5	15	534	135	0.44
2018 F PHI PRA 4045 h	Philoum protoneo	PP	grass	A045	early summer	F	13	2.10	21	35	0	25	541	0.93	0.15
2018 F PHLPRA A046 a	Fhioun protoneo	PP	grass	A046	early summer	F	10	1.32	22	35	5	15	532	1.84	0.29
2018_F_PHLPRA_A046_b	Fhirum protester	PP	grass	A046	early summer	F	10	1.32	21	35	5	20	580	1.85	0.29
2018_F_PHLPRA_B051_a	Fhieran protenses	PP	grass	B051	early summer	F	6	1.47	16	65	0	5	481	1.85	0.30
2018_F_PHLPRA_B051_b	Fhieran protector	PP	grass	B051	early summer	F	6	1.47	22	65	0	15	462	2.90	0.47
2018_F_PHLPRA_B059_a	Fhioum protoners	PP	grass	B059	early summer	F	10	2.27	17	35	5	17	394	0.25	0.04
2018_F_PHLPRA_B059_b	Fhieven protenses	PP	grass	B059	early summer	F	10	2.27	15	35	2	15	405	0.18	0.03
2018_F_PHLPRA_B073_6	Filloum protoner	PP	grass	B073	early summer	F	10	1.96	18	35	2	20	569	1.37	0.22
2018_F_PHLPRA_0133_a	Philoum protones	PP	grass	C133	early summer	F	8	1.89	52	50	2	20	553	1.60	0.25
2010_F_PHLPHA_0133_0	Flandage lange and	PP	grass	A009	early summer	F	8	1.03	31	35	15	50	739	5.60	0.27
2018 F PLALAN_A009 b	Flantaaplancepiate	PL	herb	A009	early summer	F	8	168	31	65	20	5	849	5.88	0.03
2018_F_PLALAN_A011_a	Flantaquiancosiata	PL	herb	A011	early summer	F	9	1.29	28	55	5	10	808	5.53	0.83
2018_F_PLALAN_A011_b	Flantaquiancoulata	PL	herb	A011	early summer	F	9	1.29	31	55	10	10	642	5.26	0.81
2018_F_PLALAN_A018_a	Flantaquiancoulata	PL	herb	A018	early summer	F	12	2.09	25	35	10	10	709	5.54	0.84
2018_F_PLALAN_A018_b	Flantaquiancoulata	PL	herb	A018	early summer	F	12	2.09	18	65	20	10	668	5.41	0.83
2018_F_PLALAN_A043_a	Flanta qui lan cualata	PL	herb	A043	early summer	F	7	0.82	30	30	10	15	781	5.72	0.86
2018_F_PLALAN_A043_5	Flanta qui lan comiata	PL	herb	A043	early summer	F	7	0.82	23	40	15	20	748	5.60	0.85
2018_F_PLALAN_B054_a	Flanta qui lan comiata	PL	herb	BU54	early summer	F	5	1.01	23	25	20	20	734	5.57	0.84
2010_F_FLALAN_D034_D	Flantaqui lan es biata		horb	B057	early summer	F	9	1.01	29	35	20	20	688	5.47	0.04
2018 F PLALAN B057 b	Flantaapiancopiata	PL	herb	B057	early summer	F	9	1.83	29	35	15	15	787	5.63	0.84
2018_F_PLALAN_B073_a	Flantaquianconiata	PL	herb	B073	early summer	F	10	1.96	20	35	5	10	739	5.76	0.87
2018_F_PLALAN_B073_b	Flantaquilancoulata	PL	herb	B073	early summer	F	10	1.96	21	35	5	10	726	5.66	0.86
2018_F_PLALAN_C115_a	Flantaquilanceulata	PL	herb	C115	early summer	F	11	1.95	34	65	20	30	730	5.50	0.83
2018_F_PLALAN_C115_b	Flantaquiancoulata	PL	herb	C115	early summer	F	11	1.95	23	35	15	15	849	5.73	0.85
2018_F_POAPRA_A026_a	Fooprotessis	PA	grass	A026	early summer	F	9	1.05	17	65	0	20	375	0.29	0.05
2018_F_POAPRA_A026_b	Foogratissi	PA	grass	A026	early summer	F	9	1.05	20	50	3	5	388	0.19	0.03
2018_F_PUAPHA_BU73_a	Fooprotensis	PA	grass	BU73	early summer	F	10	1.96	19	35	0	2	502	0.57	0.09
2010_F_PUAPHA_6075_a 2018 F_DOADDA_8075_	Proprotection		grass	BOTE	early summer	F	b	1.50	19	40	5	20	274	4.69	0.05
2018 F POAPRA C131 -	Foossetsaria	PA	grass	C131	early summer	F	0 8	0.30	10	55	10	20	329	η.03 [] 51	0.04
2018 F POAPRA C131 h	Foossetuni	PA	grass	C131	early summer	F	6	0.43	26	40	10	30	366	0.51	0.09
2018_F_RANACR_A003 a	Ronun culur ocrir	BA	herb	A003	early summer	F	12	2.09	17	40	3	3	470	0.81	0.13
2018_F_RANACR_A003_b	Ronun culur ocrir	BA	herb	A003	early summer	F	12	2.09	22	40	2	2	466	1.00	0.16
2018_F_RANACR_A016_a	Ronunculur ocrir	BA	herb	A016	early summer	F	16	2.08	10	35	0	10	429	0.86	0.14
2018_F_RANACR_A016_b	Ronun culur ocris	RA	herb	A016	early summer	F	16	2.08	15	40	0	5	463	1.13	0.18
2018_F_RANACR_A018_a	Fonunculus ocsis	RA	herb	A018	early summer	F	12	2.09	12	65	3	0	523	0.94	0.15
2018_F_RANACR_A018_b	Ronun culur ocrir	RA	herb	A018	early summer	F	12	2.09	.8	35	2	0	426	1.51	0.25
2018_F_RANACR_B071_a	Ronunculur ocrir	RA	herb	8071	early summer	F	7	1.45	25	35	4	5	382	0.88	0.15
ZUIO_F_HAINAUR_BU/1_B	Fanoneulur aerir	нA	nerb	6071	early summer	L.	(	1.45	21	50	2	10	461	1.52	0.25

	Sample ID					plot level	trait			plantlev	el trait		featu	re dive	ersity
sampleID	Species	2-letter code	EG	nlot	Season	Season letter cor	le nRich [#]	nShan (scale)	height (cm)	BB(H (scale)	mechD [%]	nathD [%]	fRich	fShan	fEven
2018 G ANTODO A018 a	Anthoranthum odoratum	A0	grass	A018	late summer	G	15 proceeding	2 27	6	40	0	0 number	512	5 21	0.84
2018 G ANTODO A018 b	Anthoxanthum odoratum	AO	grass	A018	late summer	Ğ	15	2.27	10	40	ő	30	652	5.38	0.83
2018 G ANTODO A044 a	Anthorianthum odoratum	AO	grass	A044	late summer	G	9	1.48	7	65	10	30	697	5 51	0.84
2018 G ANTODO A044 b	Anthorianthum odoratum	AO	grass	A044	late summer	G	9	1.48		60	10	15	562	4 64	0.73
2018 G ANTODO B060 a	Anthoxanthum odoratum	AO	grass	B060	late summer	Ğ	15	2.03	14	30	5	30	667	4.75	0.73
2018 G ANTODO 8060 b	Anthorianthum odoratum	AO	grass	B060	late summer	G	15	2.03	9	40	5	30	682	5 38	0.82
2018 G ANTODO C115 a	Anthoranthum odoratum	AO	grass	C115	late summer	G	15	2.01	12	70	3	15	633	5 47	0.85
2018 G ANTODO CL15 b	Anthoxanthum odoratum	AO	grass	C115	late summer	G	15	2.01	6	70	50	20	731	5.52	0.84
2018 G AVEPUB B073 a	Avenula nuhescens	AP	grass	B073	late summer	G	10	2.03	11	70	3	10	580	5 32	0.84
2018 G AVEPUB 8073 b	Avenula nuhescens	AP	grass	B073	late summer	G	10	2.03	13	35	5	20	608	5 36	0.84
2018 G AVEPUB B092 a	Avenula nuhescens	AP	grass	B092	late summer	Ğ	15	1 39	11	40	0	25	583	5.42	0.85
2018 G AVEPUB B092 b	Avenula nuhescens	AP	grass	B092	late summer	G	15	1 39	17	40	3	20	482	5 25	0.85
2018 G AVEPUB C103 a	Avenula pubescens	AP	grass	C103	late summer	G	10	1.37	14	40	0	30	471	5.27	0.86
2018 G AVEPUB CL03 b	Avenula nubescens	AP	grass	C103	late summer	G	10	1.37	22	40	2	25	537	5.49	0.87
2018 G AVEPUB C110 a	Avenula nuhescens	AP	grass	C110	late summer	G	20	2.25	15	40	0	20	570	3.99	0.63
2018 G AVEPUB C110 b	Avenula nuhescens	AP	grass	C110	late summer	G	20	2.25	20	35	0	30	534	5 32	0.85
2018 G CENJAC A013 a	Centaurea jacea	CI CI	herb	A013	late summer	G	14	1.64	40	40	3	5	706	5.09	0.78
2018 G CENIAC A013 b	Centaurea jacea	ci .	herb	A013	late summer	G	14	1 64	32	25	2	5	698	5 15	0.79
2018 G CENJAC A027 a	Centaurea jacea	ü	herb	A027	late summer	G	16	1.99	30	75	0	15	717	5.14	0.78
2018 G CENJAC A027 b	Centaurea jacea	a	herb	A027	late summer	G	16	1.99	31	35	2	20	717	5.02	0.76
2018 G CENJAC A030 a	Centaurea jacea	ü	herb	A030	late summer	G	7	1.36	11	35	5	5	539	4.73	0.75
2018 G CENJAC A030 b	Centaurea jacea	ü	herb	A030	late summer	G	7	1.36	17	35	5	10	565	4.87	0.77
2018 G CENJAC B073 a	Centaurea jacea	a	herb	B073	late summer	G	10	2.03	20	40	0	2	634	4.93	0.76
2018 G CENJAC B073 b	Centaurea jacea	ü	herb	B073	late summer	G	10	2.03	21	70	3	5	621	4.86	0.76
2018 G DACGLO A005 a	Dactulis dicmerata	DG	grass	A005	late summer	G	13	2.02	40	70	5	30	510	2.13	0.34
2018 G DACGLO A005 b	Diactulis alcomerata	DG	grass	A005	late summer	G	13	2.02	22	65	5	20	393	4.97	0.83
2018 G DACGLO A018 a	Dactulis glomerata	DG	grass	A018	late summer	G	15	2.27	16	40	0	10	415	3.05	0.51
2018 G DACGLO A018 b	Dactulis dicmerata	DG	grass	A018	late summer	G	15	2.27	27	35	0	20	394	1.90	0.32
2018 G DACGLO 0097 a	Diactulis dicmerata	DG	grass	0097	late summer	G	18	1.54	24	40	0	15	388	5.12	0.86
2018 G DACGLO 0097 b	Dactulis dicmerata	DG	grass	0097	late summer	G	18	1.54	22	40	0	25	398	2.14	0.36
2018 G DACGLO C137 a	Dactulis dicmerata	DG	grass	C137	late summer	G	7	1.19	22	40	5	15	481	1.24	0.20
2018 G DACGLO C137 b	Diactulis dicmerata	DG	grass	C137	late summer	G	7	1.19	26	40	0	10	485	2.43	0.39
2018 G FESRUB B064 a	Festuca rubra	FR	grass	B064	late summer	G	15	0.93	21	40	5	15	367	1.08	0.18
2018 G FESRUB B064 b	Festuca rubra	FR	grass	B064	late summer	G	15	0.93	15	70	5	15	366	1.23	0.21
2018 G FESRUB B067 a	Festuca rubra	FR	grass	B067	late summer	G	12	1.69	24	40	10	30	400	0.42	0.07
2018 G FESRUB B067 b	Festuca rubra	FR	grass	B067	late summer	G	12	1.69	19	40	0	15	356	0.44	0.08
2018 G FESRUB B073 a	Festuca rubra	FR	grass	B073	late summer	G	10	2.03	18	65	3	5	362	0.25	0.04
2018_G_FESRUB_B073_b	Festuca rubra	FR	grass	B073	late summer	G	10	2.03	21	35	2	5	357	0.75	0.13
2018 G FESRUB CL14 a	Festuca rubra	FR	grass	C114	late summer	G	10	1.06	28	35	5	30	359	0.44	0.07
2018_G_FESRUB_C114_b	Festuca rubra	FR	grass	C114	late summer	G	10	1.06	26	75	5	30	331	0.28	0.05
2018_G_GERPRA_A018_a	Geranium pratense	GP	herb	A018	late summer	G	15	2.27	19	35	3	8	467	5.16	0.84
2018_G_GERPRA_A018_b	Geranium pratense	GP	herb	A018	late summer	G	15	2.27	31	40	5	20	455	4.97	0.81
2018_G_GERPRA_B081_a	Geranium pratense	GP	herb	B081	late summer	G	14	1.84	24	40	5	25	512	5.23	0.84
2018_G_GERPRA_B081_b	Geranium pratense	GP	herb	B081	late summer	G	14	1.84	25	60	10	30	537	5.13	0.82
2018_G_GERPRA_C109_a	Geranium pratense	GP	herb	C109	late summer	G	14	1.89	22	40	0	15	493	5.18	0.84
2018_G_GERPRA_C109_b	Geranium pratense	GP	herb	C109	late summer	G	14	1.89	24	40	0	20	501	5.15	0.83
2018_G_GERPRA_C121_a	Geranium pratense	GP	herb	C121	late summer	G	11	1.52	46	35	5	15	511	5.43	0.87
2018_G_GERPRA_C121_b	Geranium pratense	GP	herb	C121	late summer	G	11	1.52	38	65	0	15	541	5.45	0.87
2018_G_HOLLAN_A018 a	Holous lanatus	HL	grass	A018	late summer	G	15	2.27	13	40	0	15	513	2.87	0.46
2018_G_HOLLAN_A018_b	Holous lanatus	HL	grass	A018	late summer	G	15	2.27	7	40	0	5	480	2.34	0.38
2018_G_HOLLAN_A035_a	Holous lanatus	HL	grass	A035	late summer	G	14	1.96	12	35	2	15	601	4.32	0.68
2018_G_HOLLAN_A035_b	Holous lanatus	HL	grass	A035	late summer	G	14	1.96	11	75	2	15	470	3.17	0.51
2018_G_HOLLAN_A040_a	Holous lanatus	HL	grass	A040	late summer	G	20	2.64	13	75	0	10	448	1.23	0.20
2018_G_HOLLAN_A040_b	Holous lanatus	HL	grass	A040	late summer	G	20	2.64	12	75	5	15	441	2.07	0.34
2018_G_HOLLAN_B080_a	Holous lanatus	HL	grass	B080	late summer	G	13	1.21	9	60	10	35	471	2.95	0.48
2018_G_HOLLAN_B080_b	Holous Ianatus	HL	grass	B080	late summer	G	13	1.21	9	40	5	30	492	2.84	0.46
_															

	Sample ID						plot level trait			plant leve	trait	8	feat	ure dive	rsitu
sampleID	Species	2-letter code	FG	plot	Season	Seaso	on letter code pRich [#]	pShan [scale]	height [cm]	BBCH[scale]	mechD[%]	pathD[%]	fRich	fShan	fEven
2018_G_KNAARV_A010_a	Knoutie erwaarie	KA	herb	A010	late summer	G	10	1.74	36	65	10	15	876	5.74	0.85
2018_G_KNAARV_A010_b	Knoutic erwarir	KA	herb	A010	late summer	G	10	1.74	47	65	3	20	746	5.55	0.84
2018_G_KNAARV_A020_a	Knoutio erwaris	KA	herb	A020	late summer	G	9	1.40	36	35	5	20	798	5.54	0.83
2018_G_KNAARV_A020_b	Knoutio erwarir	KA	herb	A020	late summer	G	9	1.40	28	70	5	15	796	5.62	0.84
2018_G_KNAARV_A042_a	Knoutio ervensis	KA	herb	A042	late summer	6	9	0.98	44	70	5	20	800	5.67	0.85
2018_G_KINAARV_A042_D 2019_C_KINAARV_B072 -	Knoutio erwarir	KA KA	herb	AU42	late summer	6	3	0.38	34	35	2	20	703	5.72	0.65
2010_G_KNAARV_D013_a	Kaantia amusaia	KA .	horb	B073	late summer	G	10	2.03	43	40	5	10	812	5.59	0.04
2018 G LEUVII A018 a	Lowcanthomum vulgare	IV	herb	A018	late summer	G	15	2.03		35	0	2	503	4.94	0.00
2018 G LEUVUL A018 b	Lowconthomum vulgars	LV	herb	A018	late summer	G	15	2.27	7	70	Ő	10	656	5.61	0.87
2018_G_LEUVUL_B048_a	Love an the mum outgase	LV	herb	B048	late summer	G	15	1.68	17	60	0	0	616	5.39	0.84
2018_G_LEUVUL_B048_Ь	Loveonthomum vulgoro	LV	herb	B048	late summer	G	15	1.68	14	75	2	10	594	5.21	0.82
2018_G_LEUVUL_B051_a	Loveanthemum oulgars	LV	herb	B051	late summer	G	9	1.58	8	75	5	3	585	5.29	0.83
2018_G_LEUVUL_B051_b	Loveonthemum vulgors	LV	herb	B051	late summer	G	9	1.58	25	80	0	5	688	5.33	0.82
2018_G_LEUVUL_B073_a	Loveonthemum vulgore	LV	herb	B073	late summer	G	10	2.03	6	40	0	0	636	5.34	0.83
2018_G_LEUVUL_B073_b	Loveonthemum vulgors	LV	herb	B073	late summer	G	10	2.03	5	75	0	0	667	5.43	0.83
2018_G_LEUVUL_B085_a	Loveonthemum vulgore	LV	herb	B085	late summer	G	15	1.75	6	60	0	5	615	5.48	0.85
2018_G_LEUVUL_B085_6	Love an the mum oulgars	LV	herb	B085	late summer	G	15	1.75	8	40	2	10	624	5.43	0.84
2010_G_LEUVUL_B030_a	Loventhomum pulgars		herb	D030	late summer	6	12	1.00	24	40	0	0	501	5.37	0.03
2018 G LEUVUL C135 -	Loventhomum owears		herb	C135	late summer	G	2	1.00	7	40	0	0	610	5.31	0.04
2018 G LEUVUL C135 h	Leventhemum unions	LV LV	herb	C135	late summer	G	8	1.00	7	40	0	0	655	5.37	0.03
2018 G LEUVUL C136 a	Loucanthomum unioaro	LV LV	herb	C136	late summer	G	9	149	7	40	0	Ő	622	5 16	0.80
2018 G LEUVUL C136 b	Leventhemum vuleare	ī v	herb	C136	late summer	G	9	149	10	40	ñ	ň	593	5 14	0.80
2018_G_PHLPRA_A002_a	Philoumprotease	PP	grass	A002	late summer	G	12	1.96	35	40	5	10	482	2.47	0.40
2018_G_PHLPRA_A002_b	Phinum protenses	PP	grass	A002	late summer	G	12	1.96	38	40	5	20	494	1.70	0.27
2018_G_PHLPRA_A018_a	Philoum protones	PP	grass	A018	late summer	G	15	2.27	23	80	2	15	508	0.98	0.16
2018_G_PHLPRA_A018_b	Philoum protours	PP	grass	A018	late summer	G	15	2.27	19	35	0	2	325	1.60	0.28
2018_G_PHLPRA_A045_a	Fhirum protenses	PP	grass	A045	late summer	G	13	2.02	47	40	5	20	499	2.24	0.36
2018_G_PHLPRA_A045_b	Phievesprotence	PP	grass	A045	late summer	G	13	2.02	43	60	5	20	430	1.58	0.26
2018_G_PHLPRA_A046_a	Fhirumprotense	PP	grass	A046	late summer	G	11	1.44	19	60	0	15	503	1.98	0.32
2018_G_PHLPRA_A046_b	Fhioverprotours	PP	grass	A046	late summer	G	11	1.44	25	40	3	10	434	1.28	0.21
2018_G_PHLPRA_B051_a	Phinum protones	PP	grass	B051	late summer	6	9	1.58	53	80	0	10	492	5.35	0.86
2010_G_PHLPHA_DUS_D	Phicom protoneo	PP	grass	DUDI	late summer	C	J 12	1.00	24	40	5	10	246	0.20	0.20
2010_G_FILEFRA_0033_a 2018_G_DHI DDA_8059_b	Frieddin protonor	DD	grass	B059	late summer	G	12	2.23	24	40	5	10	433	0.00	0.00
2018 G PH PBA 8073 h	Flicompretence	PP	grass	B073	late summer	G	10	2.03	19	40	5	5	460	0.23	0.02
2018 G PHLPBA C133 a	Fhievenscotence	PP	grass	C133	late summer	G	12	2.29	44	40	5	15	471	1.01	0.16
2018 G PHLPRA C133 b	Phieverprotence	PP	grass	C133	late summer	G	12	2.29	42	40	10	50	438	3.45	0.57
2018_G_PLALAN_A009_a	Flantaquiancualata	PL	herb	A009	late summer	G	19	2.32	27	65	5	15	800	5.73	0.86
2018_G_PLALAN_A009_b	Flontoquioncuaioto	PL	herb	A009	late summer	G	19	2.32	22	65	5	20	855	5.89	0.87
2018_G_PLALAN_A011_a	Flantaquiancialata	PL	herb	A011	late summer	G	14	1.80	20	65	3	10	756	5.73	0.86
2018_G_PLALAN_A011_b	Flontoquioncoaloto	PL	herb	A011	late summer	G	14	1.80	29	40	3	5	690	5.60	0.86
2018_G_PLALAN_A018_a	Flontoquioncuaioto	PL	herb	A018	late summer	G	15	2.27	20	40	15	10	698	5.47	0.83
2018_G_PLALAN_A018_6	Flantaquianceulata	PL	herb	A018	late summer	G	15	2.27	30	65	10	10	711	5.55	0.85
2018_G_PLALAN_A043_a	Flantaquianceulata	PL	herb	AU43	late summer	6	14	1.68	25	35	5	20	702	5.59	0.85
2010_G_PLALAN_A043_D	Flantaquiancoulata	PL	herb	POE4	late summer	6	14	1.00	20	55	5	10	023	5.72	0.00
2010_0_PEALAN_0004_a	Flantaaniassalate	PL	herb	B054	late summer	G	11	1.73	22	10	5	15	752	5.54	0.02
2018 G PLALAN 8057 -	Flontooploncepioto	PL	herb	B057	late summer	6	10	186	26	40	10	20	798	5.86	0.88
2018_G_PLALAN_B057 b	Flantaquiancesiata	PL	herb	B057	late summer	G	10	1.86	24	40	10	15	783	5.77	0.87
2018_G_PLALAN_B073_a	Flantaquiancoulata	PL	herb	B073	late summer	G	10	2.03	23	40	10	5	805	5.80	0.87
2018_G_PLALAN_B073_b	Flantaquianceulata	PL	herb	B073	late summer	G	10	2.03	21	40	15	10	845	5.83	0.87
2018_G_PLALAN_C115_a	Flantaquiancialata	PL	herb	C115	late summer	G	15	2.01	24	70	15	30	745	5.63	0.85
2018_G_PLALAN_C115_Ь	Flantaquiancuaiata	PL	herb	C115	late summer	G	15	2.01	27	35	5	20	748	5.50	0.83
2018_G_POAPRA_A026_a	Fooprotensis	PA	grass	A026	late summer	G	14	1.29	23	70	5	30	352	0.34	0.06
2018_G_POAPRA_A026_b	Freprotensis	PA	grass	A026	late summer	G	14	1.29	19	40	5	25	400	0.31	0.05
2018_G_POAPRA_B073_a	Fooprotessis	PA	grass	B073	late summer	G	10	2.03	18	35	5	10	404	0.52	0.09
2018_G_POAPRA_8073_b	Fooprotensis	PA	grass	8073	late summer	G	10	2.03	17	35	3	5	353	0.69	0.12
2018_G_POAPRA_8075_a	Fooprotonrir	PA	grass	8075	late summer	G	7	1.58	27	35	0	15	369	0.35	0.06
2018_G_PUAPRA_BU75_b	Paoprotoneir	PA DA	grass	BU/5	late summer	6	7	1.58	16	50	0	10	434	0.34	0.05
2010_0_PUAPRA_UI31_a 2018_C_DCADDA_C121_L	r sepretaarir	PA DA	grass	C131	late summer	6	11	1.10	20	55	5	20	396	0.92	0.07
2010_0_FUMFIM_UI3LD	Para anti-	PA	grass	4003	late summer	6	20	2.34	16	40	5	20	478	1.00	0.11
2018 G BANACE A003 h	Ranunculur acris	BA	herb	A003	late summer	G	20	2.34	14	70	3	10	471	0.90	0.15
2018 G RANACE A016 a	Fonunculur ocrir	BA	herb	A016	late summer	G	18	2.54	14	35	3	15	465	1.32	0.21
2018_G_RANACR_A016_b	Renunculur ocrir	RA	herb	A016	late summer	G	18	2.54	10	40	Ő	15	511	0.93	0.15
2018_G_RANACR_A018_a	Ronun culur ocris	BA	herb	A018	late summer	G	15	2.27	11	65	0	20	467	0.97	0.16
2018_G_RANACR_B071_a	Ronunculur ocris	BA	herb	B071	late summer	G	17	2.38	19	40	2	40	501	0.87	0.14
2018_G_RANACR_B071_b	Ronunculur ocris	RA	herb	B071	late summer	G	17	2.38	15	75	2	25	493	0.84	0.14

	Sample ID					plot level trait			plant level trait		<b>—</b>	featu	re dive	rsitv
sampleID	Species	2-letter code	FG	plot	Season	Season letter code pRich (#)	pShan (scale)	height (cm)	BBCH (scale) mechE	[%] pathD [9	61 fF	Rich f	Shan	fEven
2018 H ANTODO A018 b	Anthonanthum odoratum	AO	grass	A018	autumn	Н 18	2.39	7	30	2	10	447	2.90	0.48
2018 H ANTODO A044 a	Anthoxanthum odoratum	AO	grass	A044	autumn	Н 15	2.16	8	40	5	2	573	5.19	0.82
2018 H ANTODO A044 b	Anthoxanthum odoratum	AO	grass	A044	autumn	н 15	2.16	11	40	2	5	588	5.16	0.81
2018_H_ANTODO_B060_a	Anthoxanthum odoratum	AO	grass	B060	autumn	н 10	1.90	12	40	5	5	547	3.74	0.59
2018_H_ANTODO_B060_b	Anthoxanthum odoratum	AO	grass	B060	autumn	н 10	1.90	11	30	5	5	542	4.65	0.74
2018_H_ANTOD0_C115_a	Anthoxanthum odoratum	AO	grass	C115	autumn	Н 13	2.22	9	40	5	5	607	5.31	0.83
2018_H_ANTODO_C115_b	Anthoxanthum odoratum	AO	grass	C115	autumn	н 13	2.22	9	40	2	2	487	3.90	0.63
2018_H_AVEPUB_B073_a	Avenula pubescens	AP	grass	B073	autumn	Н 12	2.08	18	40	3	8	517	5.18	0.83
2018_H_AVEPUB_B073_b	Avenula pubescens	AP	grass	B073	autumn	Н 12	2.08	9	40	3	8	467	5.06	0.82
2018_H_AVEPUB_B092_a	Avenula pubescens	AP	grass	B092	autumn	Н 13	1.46	12	40	3	5	560	5.26	0.83
2018_H_AVEPUB_B092_b	Avenula pubescens	AP	grass	B092	autumn	Н 13	1.46	11	40	5	10	585	5.42	0.85
2018_H_AVEPUB_C103_a	Avenula pubescens	AP	grass	C103	autumn	н 12	1.89	14	40	5	10	543	5.43	0.86
2018_H_AVEPUB_C103_b	Avenula pubescens	AP	grass	C103	autumn	Н 12	1.89	14	40	2	5	594	5.47	0.86
2018_H_AVEPUB_C110_a	Avenula pubescens	AP	grass	C110	autumn	н 16	2.27	14	40	5	10	534	5.21	0.83
2018_H_AVEPUB_C110_b	Avenula pubescens	AP	grass	C110	autumn	H 16	2.27	15	40	2	10	592	5.48	0.86
2018_H_CENJAC_A013_a	Centaurea jacea	C	herb	A013	autumn	Н 20	2.31	31	40	2	2	642	5.11	0.79
2018_H_CENJAC_A013_b	Centaurea jacea	C	herb	A013	autumn	Н 20	2.31	20	30	5	2	561	4.94	0.78
2018_H_CENJAC_A027_a	Centaurea jacea	C	herb	A027	autumn	H 16	2.25	30	30	2	2	684	5.01	0.77
2018_H_CENJAC_A027_b	Centaurea jacea	C	herb	A027	autumn	H 16	2.25	33	40	2	2	622	5.01	0.78
2018_H_CENJAC_A030_a	Centaurea jacea	C	herb	A030	autumn	H S	1.47	12	40	5	5	604	4.94	0.77
2018_H_CENJAC_A030_b	Centaurea jacea	C	herb	A030	autumn	H S	1.47	19	40	5	15	567	5.01	0.79
2018_H_CENJAC_B073_a	Centaurea jacea	C	herb	B073	autumn	Н 12	2.08	8	30	5	5	565	5.02	0.79
2018 H CENJAC B073 b	Centaurea jacea	CJ	herb	B073	autumn	н 12	2.08	15	60	2	5	563	4.78	0.75
2018_H_DACGL0_A005_a	Dactylis glomerata	DG	grass	A005	autumn	H 17	2.26	25	30	5	10	336	1.90	0.33
2018_H_DACGL0_A005_b	Dactylis glomerata	DG	grass	A005	autumn	Н 17	2.26	25	70	5	15	376	1.63	0.27
2018 H DACGLO A018 a	Dactulis glomerata	DG	grass	A018	autumn	H 18	2.39	17	40	3	10	368	2.12	0.36
2018_H_DACGL0_A018_b	Diactylis glomerata	DG	grass	A018	autumn	Н 18	2.39	21	30	2	10	379	5.08	0.86
2018_H_DACGL0_C097_a	Dactylis glomerata	DG	grass	0097	autumn	Н 17	2.10	22	40	5	15	349	4.74	0.81
2018 H DACGLO C097 b	Dactulis glomerata	DG	grass	0097	autumn	н 17	2.10	24	40	5	5	414	1.49	0.25
2018 H DACGLO C137 a	Dactulis glomerata	DG	grass	C137	autumn	н 11	1.74	17	40	5	10	473	2.31	0.38
2018 H DACGLO C137 b	Dactulis glomerata	DG	grass	C137	autumn	н 11	1.74	21	40	5	3	432	4.74	0.78
2018_H_FESRUB_B064_a	Festuca rubra	FR	grass	B064	autumn	н 13	1.67	12	30	10	0	330	0.99	0.17
2018_H_FESRUB_B064_b	Festuca rubra	FR	grass	B064	autumn	Н 13	1.67	12	40	2	5	282	0.79	0.14
2018 H FESRUB B067 a	Festuca rubra	FR	grass	B067	autumn	н 15	1.93	10	40	5	5	379	0.33	0.05
2018 H FESRUB B067 b	Festuca rubra	FR	grass	B067	autumn	н 15	1.93	13	30	5	10	252	0.49	0.09
2018_H_FESRUB_B073_a	Festuca rubra	FR	grass	B073	autumn	Н 12	2.08	4	60	5	5	319	0.56	0.10
2018_H_FESRUB_B073_b	Festuca rubra	FR	grass	B073	autumn	Н 12	2.08	21	30	2	10	331	0.71	0.12
2018_H_FESRUB_C114_a	Festuca rubra	FR	grass	C114	autumn	н 11	1.18	11	40	3	5	366	0.46	0.08
2018_H_FESRUB_C114_b	Festuca rubra	FR	grass	C114	autumn	н 11	1.18	14	40	5	5	316	0.37	0.06
2018_H_GERPRA_A018_a	Geranium pratense	GP	herb	A018	autumn	H 18	2.39	8	40	2	5	438	4.99	0.82
2018_H_GERPRA_A018_b	Geranium pratense	GP	herb	A018	autumn	H 18	2.39	15	40	3	5	450	5.01	0.82
2018_H_GERPRA_B081_a	Geranium pratense	GP	herb	B081	autumn	H 16	2.35	13	40	5	15	506	5.27	0.85
2018_H_GERPRA_B081_b	Geranium pratense	GP	herb	B081	autumn	H 16	2.35	12	40	10	5	500	5.03	0.81
2018 H GERPRA C109 a	Geranium pratense	GP	herb	C109	autumn	н 13	1.98	15	40	2	10	457	4.94	0.81
2018 H GERPRA C109 b	Geranium pratense	GP	herb	C109	autumn	н 13	1.98	14	40	5	20	441	5.09	0.84
2018_H_GERPRA_C121_a	Geranium pratense	GP	herb	C121	autumn	Н 12	2.05	12	40	2	15	465	5.19	0.85
2018 H GERPRA C121 b	Geranium pratense	GP	herb	C121	autumn	н 12	2.05	12	40	2	10	517	5.22	0.84
2018_H_HOLLAN_A018 a	Holcus lanatus	HL	grass	A018	autumn	Н 18	2.39	12	40	5	15	423	1.56	0.26
2018_H_HOLLAN_A018 b	Holcus lanatus	HL	grass	A018	autumn	Н 18	2.39	13	40	5	15	421	1.89	0.31
2018 H HOLLAN A035 a	Holcus Ianatus	HL	grass	A035	autumn	Н 18	2.54	12	40	3	5	433	2.43	0.40
2018_H_HOLLAN_A035 b	Holcus Ianatus	HL	grass	A035	autumn	Н 18	2.54	11	60	5	15	453	1.13	0.19
2018_H_HOLLAN_A040 a	Holcus Ianatus	HL	grass	A040	autumn	Н 17	2.52	12	70	2	5	381	1.94	0.33
2018_H_HOLLAN A040 b	Holcus Ianatus	HL	grass	A040	autumn	Н 17	2.52	10	40	5	20	408	2.32	0.39
2018_H_HOLLAN_B080 a	Holcus lanatus	HL	grass	B080	autumn	Н 13	1.88	7	40	0	5	335	1.66	0.29
2018_H_HOLLAN_B080_b	Holous lanatus	HL	grass	B080	autumn	Н 13	1.88	12	40	2	5	405	2.85	0.47

	Sample ID					plot leve	el trait		2	plantlev	el trait		feat	ure dive	ersity
sampleID	Species	2-letter code	FG	plot	Season	Season letter code	pRich[#]	pShan[scale]	height [cm]	BBCH[scale]	mechD[%]	pathD[%]	fRich	fShan	fEven
2018_H_KNAARV_A010_a	Knoutio erwarir	KA	herb	A010	autumn	н	11	1.97	22	40	5	10	650	5.32	0.82
2018_H_KNAARV_A010_b	Knoutio erwarir	KA	herb	A010	autumn	н	11	1.97	27	50	5	5	556	5.11	0.81
2018_H_KNAARV_A020_a	Knoutie erwarie	KA	herb	A020	autumn	н	11	1.62	44	40	5	15	638	5.33	0.82
2018_H_KNAARV_A020_b	Knoutio erwarir	KA	herb	A020	autumn	н	11	1.62	26	50	10	10	592	5.19	0.81
2018_H_KNAARV_A042_a	Knoutio erwarir	KA	herb	A042	autumn	н	12	1.50	24	40	5	10	587	5.20	0.82
2018_H_KNAARV_A042_b	Knoutio erwarir	KA	herb	A042	autumn	н	12	1.50	23	30	10	20	653	5.33	0.82
2018_H_KNAARV_B073_a	Knoutie erwaarie	KA	herb	B073	autumn	н	12	2.08	28	40	5	10	622	5.25	0.82
2018_H_KNAARV_B073_b	Knoutio ervensis	KA	herb	B073	autumn	н	12	2.08	8	30	5	20	705	5.44	0.83
2018_H_LEUVUL_A018_a	Loveanthemom vulgars	LV	herb	A018	autumn	н	18	2.39	5	30	0	2	469	5.01	0.82
2018_H_LEUVUL_A018_Ь	Loveanthomom vulgars	LV	herb	A018	autumn	H	18	2.39	4	40	3	5	540	5.22	0.83
2018_H_LEUVUL_B048_a	Lovconthemum vulgare	LV	herb	B048	autumn	н	20	2.18	6	40	2	3	550	5.34	0.85
2018_H_LEUVUL_B048_6	Loveanthemom vulgare	LV	herb	B048	autumn	н	20	2.18	11	40	U	3	421	4.92	0.81
2018_H_LEUVUL_BUS_a	Loveanthemom vulgare	LV	herb	B051	autumn	н	17	2.20	10	80	5	U	564	5.37	0.85
2018_H_LEUVUL_BUS_B	Loveanthomom vulgara	LV	herb	B051	autumn	8	10	2.20	-	30	0	0	538	5.37	0.85
2010_H_LEUVUL_BU73_a	Loveanthomom vulgars		nerb	B073	autumn		12	2.00	5	30	3	3	545	5.33	0.05
2010_H_LEUVUL_DU/3_D	Loveanthemum vulgare		herb	DUIS	autumn		20	2.00	5	40	2	5 10	500	5.37	0.04
2010_1_LECVOL_D003_4	Lovenski municipar		horb	B085	autumn	L'	20	2.30	7	40	2	2	450	5.10	0.04
2018 H LEUVUL B090 -	Live an the main water	LV LV	harb	B090	autumo	H	12	159	7	40	0	3	610	5.47	0.05
2018 H LEUVUL B090 h	Loucanthomum undance	LV LV	herb	B090	autumn	н	12	159	10	40	ő	0	529	5 18	0.00
2018 H LEUVUL C135 >		LV LV	herb	C135	autumo	н	12	172	6	40	2	5	571	5.23	0.00
2018 H LEUVUL C135 h	Loucanthomum unioaro	LV LV	herb	C135	autumn	н	12	172	7	40	2	10	500	5.06	0.81
2018 H LEUVUL C136 a	Loventhemum vulgare	LV	herb	C136	autumn	Н	11	1.61	6	40	2	5	470	5.03	0.82
2018 H LEUVUL C136 b	Loveanthemum vulgare	LV	herb	C136	autumn	н	11	1.61	9	40	5	15	579	5.11	0.80
2018 H PHLPRA A002 a	Fhioun protones	PP	arass	A002	autumn	н	14	1.76	13	40	5	20	512	5.21	0.84
2018_H_PHLPRA_A002_6	Fhirumprotener	PP	grass	A002	autumn	н	14	1.76	12	40	5	20	414	2.15	0.36
2018_H_PHLPRA_A018_a	Fhioum protones	PP	grass	A018	autumn	н	18	2.39	13	40	5	5	403	4.85	0.81
2018_H_PHLPRA_A018_b	Fhieran protector	PP	grass	A018	autumn	н	18	2.39	8	40	3	5	331	2.22	0.38
2018_H_PHLPRA_A045_a	Fhioum protoner	PP	grass	A045	autumn	н	17	1.94	14	30	10	20	528	2.92	0.47
2018_H_PHLPRA_A045_b	Fhioum protoneo	PP	grass	A045	autumn	н	17	1.94	13	40	2	5	321	2.30	0.40
2018_H_PHLPRA_A046_a	Fhierm protesses	PP	grass	A046	autumn	н	18	1.85	16	40	0	2	454	1.97	0.32
2018_H_PHLPRA_A046_b	Fhioun protones	PP	grass	A046	autumn	н	18	1.85	13	40	5	10	429	2.68	0.44
2018_H_PHLPRA_B051_a	Fhieven protoner	PP	grass	B051	autumn	н	17	2.20	14	30	0	2	444	3.01	0.49
2018_H_PHLPRA_B051_b	Fhioum protoneo	PP	grass	B051	autumn	н	17	2.20	36	40	5	20	409	3.23	0.54
2018_H_PHLPRA_B059_a	Fillown protoner	PP	grass	B059	autumn	н	12	1.45	19	40	5	10	276	0.63	0.11
2018_H_PHLPRA_B059_b	Fhirum protector	PP	grass	B059	autumn	н	12	1.45	18	40	3	10	304	0.44	0.08
2018_H_PHLPRA_B073_a	Fhieven protenses	PP	grass	B073	autumn	н	12	2.08	10	40	3	3	482	0.38	0.06
2018_H_PHLPRA_B073_b	Fhioum protoneo	PP	grass	B073	autumn	H	12	2.08	15	35	5	5	353	0.47	0.08
2018_H_PHLPRA_C133_a	Fillown protoner	PP	grass	C133	autumn	н	14	2.02	12	40	2	15	243	0.91	0.17
2018_H_PHLPRA_C133_b	Fhioun protoneo	PP	grass	C133	autumn	н	14	2.02	18	40	3	10	417	1.47	0.24
2018_H_PLALAN_A009_a	Flantaquianceulata	PL	herb	A009	autumn	н	19	2.44	3	75	10	5	575	5.20	0.82
2018_H_PLALAN_A009_B	Flantaquiancoulata	PL	herb	A009	autumn	H	19	2.44	5	40	30	5	595	5.47	0.84
2010_F_PLALAN_AUT_a	Flantaquianceulata	PL	nerb	A011	autumn		13	2.13	14	40	15	10	103	5.53	0.04
2010_H_PLALAN_AUT_B	Flantaquian cruiata	PL	herb	A019	autumn		13	2.13	9	40	CI 0	0	621	5.10	0.00
2010_1_PEAEAN_A010_8	Flantaquianeraliata	PL	horb	A010	autumn	L'	10	2.33	3	50	5	10	635	5.49	0.05
2010_1 _ PLALAN_A010_D	Flantaan lancaniata	PL	herb	A043	autumn	н	15	2.33	12	30	15	10	806	5.53	0.03
2018 H PLALAN 4043 5	Flantaanlanconista	PL	herb	4043	autumn	н	15	2.13	12	40	10	10	685	5.20	0.00
2018 H PLALAN B054 a	Flantaaplancoplata	PL	herb	B054	autumn	н	14	2.06	7	40	15	20	603	5.08	0.79
2018 H PLALAN B054 h	Flantaapiancopiata	PL	herb	B054	autumn	H	14	2.06	8	40	15	10	697	5.17	0.79
2018_H_PLALAN_B057_a	Flantaquianconiata	PL	herb	B057	autumn	н	14	2.31	11	40	20	10	756	5.44	0.82
2018_H_PLALAN_B057_b	Flontoquioncopioto	PL	herb	B057	autumn	н	14	2.31	10	40	25	5	755	5.52	0.83
2018_H_PLALAN_B073_a	Flantaquianconiata	PL	herb	B073	autumn	н	12	2.08	6	30	20	10	855	5.81	0.86
2018_H_PLALAN_B073_b	Flantaquianceulata	PL	herb	B073	autumn	н	12	2.08	9	40	15	10	828	5.67	0.84
2018_H_PLALAN_C115_a	Flantaquianconiata	PL	herb	C115	autumn	н	13	2.22	9	40	15	10	746	5.63	0.85
2018_H_PLALAN_C115_b	Flantaquiancevalata	PL	herb	C115	autumn	н	13	2.22	12	40	20	5	665	5.22	0.80
2018_H_POAPRA_A026_a	Fooprotoni	PA	grass	A026	autumn	н	18	1.71	21	50	3	5	331	0.64	0.11
2018_H_POAPRA_A026_b	Foogrationi	PA	grass	A026	autumn	н	18	1.71	14	30	3	3	342	0.80	0.14
2018_H_POAPRA_B073_a	Fooprotossis	PA	grass	B073	autumn	н	12	2.08	21	40	0	5	356	0.75	0.13
2018_H_POAPRA_B073_b	Fooprotossis	PA	grass	B073	autumn	н	12	2.08	16	40	0	0	373	0.33	0.06
2018_H_POAPRA_B075_a	Fooprotoni	PA	grass	B075	autumn	н	11	1.90	15	40	5	10	446	0.42	0.07
2018_H_POAPRA_B075_b	Foogrationis	PA	grass	B075	autumn	н	11	1.90	13	40	10	5	380	0.94	0.16
2018_H_POAPRA_C131_a	Foogratissi	PA	grass	C131	autumn	н	13	1.04	15	40	5	2	349	0.72	0.12
2018_H_POAPRA_C131_b	Foogratissi	PA	grass	C131	autumn	Н	13	1.04	15	40	15	5	398	1.04	0.17
2018_H_RANACR_A003_a	Ronunculur ocrir	RA	herb	A003	autumn	н	13	1.70	14	40	3	10	428	0.99	0.16
2018_H_RANACR_A003_b	Ronun culur ocrir	RA	herb	A003	autumn	Н	13	1.70	16	30	3	10	465	1.06	0.17
2018_H_RANACR_A016_a	Ronunculur ocrir	RA	herb	A016	autumn	н	15	2.18	12	30	3	30	412	1.20	0.20
2018_H_RANACR_A016_b	Ronun culur ocrir	RA	herb	A016	autumn	н	15	2.18	9	40	3	35	418	1.40	0.23
2018_H_RANACR_A018_a	Rononculur ocrir	HA	herb	A018	autumn	н	18	2.39	12	60	10	10	453	1.07	0.18
ZUIS_H_HANACR_A018_5	Ronunculur ocrir	HA	herb	AU18	autumn	п	18	2.39	8	30	3	3	434	0.84	0.14
2010_H_RANAUR_BU/1_a	Ronunculur ocrir	HA DA	nerb	BU/1	autumn		14	2.20	12	30	5	20	539	0.80	0.13
ZUIU_F_HANAUH_DU/LD	Nonunevity cerir	DM	nerb	DUT	autumn	T1	14	2.20	10		10	20	- 40Z	0.03	0.11

#### APPENDIX – CHAPTER 3

**Supplement Table 5**: Linear models were calculated for all 504 samples across thirteen species (all samples) and species specific for all species separately. We calculated the models using the prediction variables (preV): plant species richness (pRich) and plant species Shannon (pShan) and the response variables (resV): LC-MS feature richness (fRich), LC-MS feature Shannon (fShan) and LC-MS feature Evenness (fEven). We use the model intercept and coefficient (coef) to show the direction of the model that indicates the relationship. To compare the models' predictive power, we calculated the coefficient of determination (R<sup>2</sup>), root means square error (RMSE), and confidence intervals upper bound (Cl\_ub) and lower bound (Cl\_lb) and included the p-value as reference.

		prediction variable (preV)		plar	nt spe	cies richr	iess (pRi	ch)			plant	speci	ies Shanr	non (pSha	an)	
resV	species	2-letter code	intercept	coef	R²	RMSE	сі_іь	Cl_ub	p value	intercept	coef	R²	RMSE	CI_Ib	Cl_ub	p value
fRich	all samples	all	581.60	-3.18	0.28	135.90	522.45	555.59	0.03	573.56	-18.44	0.25	136.33	522.50	555.54	0.21
fRich	An tho xan thum odoratum	AO	727.25	-10.65	0.37	83.06	529.41	624.04	0.03	885.90	-150.10	0.41	79.89	533.41	620.03	0.00
fRich	Aven ula pubescens	AP	574.02	-3.08	0.45	62.51	498.25	565.44	0.30	627.18	-50.23	0.51	60.01	498.46	565.23	0.13
fRich	Centaurea jacea	C	586.92	4.78	0.57	65.53	606.34	683.35	0.15	577.00	37.80	0.55	68.06	605.51	684.18	0.30
fRich	Dac tylis glomerata	DG	466.63	-3.08	0.41	41.66	401.29	444.52	0.08	511.45	-45.93	0.52	42.29	402.14	443.67	0.02
fRich	Festuca rubra	FR	327.30	1.72	0.46	41.93	324.86	370.08	0.63	355.02	-4.73	0.51	40.49	324.82	370.12	0.79
fRich	Geranium pratense	GP	498.27	-1.09	0.49	34.57	465.76	501.37	0.58	533.20	-25.90	0.54	33.25	466.09	501.04	0.23
fRich	Holcuslanatus	HL	568.08	-7.02	0.64	56.34	437.06	493.75	0.01	576.10	-55.62	0.51	57.21	436.81	494.00	0.02
fRich	Knautia arvensis	KA	711.68	1.47	0.48	80.65	689.73	766.65	0.73	754.21	-16.31	0.56	81.60	688.92	767.46	0.63
fRich	Leucanthemum vulgare	LV	652.27	-5.05	0.22	60.62	567.18	608.92	0.01	684.86	-55.27	0.25	60.30	567.43	608.67	0.00
fRich	Phle um pratense	PP	457.73	0.59	0.19	79.31	438.69	492.99	0.82	465.46	0.19	0.16	79.01	438.51	493.16	1.00
fRich	Plantago lanceolata	PL	809.54	-5.09	0.23	62.16	716.24	759.95	0.01	819.50	-41.30	0.26	64.16	716.38	759.81	0.05
fRich	Poapratensis	PA	385.63	-2.09	0.65	45.03	330.60	390.27	0.43	366.43	-3.79	0.49	46.30	330.36	390.50	0.86
fRich	Ran une ulus aeris	RA	461.83	0.16	0.50	37.05	443.12	485.84	0.93	387.73	34.92	0.52	36.75	443.86	485.11	0.20
f≲han	all samples	all	4.16366	-0.05	0.28	2.05	3.29	3.78	0.04	4.16	-0.33	0.27	2.06	3.29	3.78	0.13
f5han	An tho xan thum odoratum	AO	5.74	-0.13	0.53	1.44	3.13	4.68	0.09	5.72	-0.88	0.54	1.52	3.13	4.69	0.32
f5han	Aven ula pubescens	AP	5.86	-0.07	0.43	0.88	4.42	5.37	0.10	6.79	-1.00	0.59	0.80	4.43	5.37	0.04
f5han	Cen taurea jacea	C	4.90	0.01	0.69	0.12	4.95	5.10	0.11	4.88	0.08	0.64	0.13	4.95	5.10	0.23
f5han	Dac tylis glomerata	DG	2.97	-0.02	0.56	1.32	2.04	3.43	0.76	4.15	-0.73	0.68	1.29	2.06	3.41	0.26
fShan	Festuca rubra	FR	0.00	0.04	0.74	0.23	0.40	0.63	0.02	0.54	-0.01	0.58	0.23	0.39	0.64	0.88
f5han	Geranium pratense	GP	5.25	-0.01	0.48	0.13	5.08	5.21	0.26	5.45	-0.16	0.53	0.12	5.08	5.20	0.04
f5han	Holc us lan at us	HL	2.82	-0.06	0.42	0.76	1.55	2.40	0.16	2.75	-0.39	0.48	0.78	1.54	2.40	0.25
fShan	Knautia arvensis	KA	5.43	0.00	0.50	0.16	5.39	5.55	0.64	5.54	-0.04	0.55	0.16	5.39	5.55	0.54
f5han	Le uc an the m um vulgare	LV	5.26	0.00	0.26	0.16	5.21	5.33	0.90	5.32	-0.03	0.17	0.16	5.21	5.33	0.59
f5han	Phle um pratense	PP	2.05	-0.03	0.20	1.11	1.16	1.99	0.38	3.17	-0.80	0.22	1.10	1.17	1.98	0.10
f5han	Plantago lanceolata	PL	5.70	-0.01	0.25	0.18	5.50	5.63	0.08	5.76	-0.10	0.22	0.18	5.50	5.63	0.10
f5han	Poapratensis	PA	1.24	-0.05	0.79	0.54	0.24	1.04	0.17	0.75	-0.07	0.51	0.47	0.23	1.05	0.81
fShan	Ran une ulus acris	RA	0.90	0.01	0.56	0.28	0.99	1.25	0.23	0.96	0.07	0.43	0.29	0.98	1.26	0.69
fEven	allsamples	all	0.65	-0.01	0.25	0.32	0.52	0.59	0.05	0.64	-0.05	0.25	0.32	0.52	0.59	0.16
fEven	An tho xan thum odoratum	A0	0.88	-0.02	0.55	0.22	0.49	0.73	0.11	0.86	-0.12	0.56	0.24	0.49	0.73	0.39
fEven	Aven ula pubescens	AP	0.92	-0.01	0.58	0.13	0.71	0.85	0.10	1.06	-0.15	0.62	0.12	0.71	0.85	0.04
fEven	Cen taurea jacea	C	0.77	0.00	0.46	0.01	0.77	0.78	0.24	0.77	0.01	0.55	0.01	0.77	0.78	0.35
fEven	Dac tylis glomerata	DG	0.49	0.00	0.56	0.22	0.34	0.57	0.80	0.67	-0.11	0.68	0.22	0.34	0.57	0.29
fEven	Festuca rubra	FR	0.00	0.01	0.75	0.04	0.07	0.11	0.02	0.09	0.00	0.59	0.04	0.07	0.11	0.94
fEven	Geranium pratense	GP	0.85	0.00	0.53	0.01	0.82	0.84	0.22	0.87	-0.02	0.68	0.01	0.82	0.84	0.05
fEven	Holc us lan at us	HL	0.45	-0.01	0.41	0.12	0.25	0.39	0.18	0.44	-0.06	0.48	0.13	0.25	0.39	0.29
fEven	Knautia arvensis	KA	0.83	0.00	0.42	0.01	0.83	0.84	0.58	0.84	0.00	0.48	0.01	0.83	0.84	0.50
fEven	Le uc an them um vulgare	LV	0.81	0.00	0.28	0.02	0.82	0.83	0.02	0.81	0.01	0.31	0.02	0.82	0.83	0.16
fEven	Phle um pratense	PP	0.33	-0.01	0.20	0.18	0.19	0.32	0.42	0.50	-0.12	0.21	0.18	0.19	0.32	0.11
fEven	Plantago lanceolata	PL	0.85	0.00	0.30	0.02	0.84	0.85	0.35	0.86	-0.01	0.21	0.02	0.84	0.85	0.26
fEven	Poa pratensis	PA	0.22	-0.01	0.78	0.10	0.04	0.18	0.17	0.13	-0.01	0.50	0.08	0.04	0.18	0.82
fEven	Ran une ulus aeris	RA	0.15	0.00	0.56	0.05	0.16	0.20	0.24	0.16	0.01	0.41	0.05	0.16	0.20	0.74

**Supplement Table 6: R session info.** The list of R packages, including their versions, used for data analysis and plot creation.

Burstean		D. analyzes		D. washing a		P	
K package Version		краскаде	version	к раскаде	version	R package	Version
abind	1.4-5	factoextra	1.0.7	Tabeling	0.4.2	R.methods55	1.8.1
AnnotationDbi	1.56.2	FactoMineR	2.4	lattice	0.20-45	R.00	1.24.0
aroma.light	3.24.0	fansi	0.5.0	l atti ceExtra	0.6-29	R. utils	2.11.0
assertthat	0.2.1	farver	2.1.0	lava	1.6.10	R6	2.5.1
backports	1.4.1	fastmap	1.1.0	leaps	3.1	rappdirs	0.3.3
BatchCorrMetabolomics	0.1.14	filelock	1.0.2	lifecycle	1.0.1	RColorBrewer	1.1-2
Biobase	2.54.0	flashClust	1.01-2	limma	3.50.0	Rcpp	1.0.7
BiocFileCache	2.2.0	flexmix	2.3-17	listenv	0.8.0	RCurl	1.98-1.5
BiocGenerics	0.40.0	forcats	0.5.1	ImerTest	3.1-3	readr	211
BioclO	140	foreach	151	locfit	15-94	readxl	131
BiocManager	1 30 16	Formula	1.2-4	lubridate	180	recipes	0117
Riedbardlel	1 20 2	for	224	na paritte	2.0.1	reapes	2.4.2
biografianen	1.20.5	ipc.	2.2-5	magnitu	2.0.1	Telliotes	2.4.2
Diomakt	2.50.1	TS	1.5.2	markdown	11	reprex	2.0.1
Biostrings	2.62.0	future	1.23.0	MASS	7.3-54	reshape2	1.4.4
bit	4.0.4	future.apply	1.8.1	Matrix	1.3-4	restfulr	0.0.13
bit64	4.0.5	generics	0.1.1	MatrixGenerics	1.6.0	rjson	0.2.20
bitops	1.0-7	GenomeInfoDb	1.30.0	matrixStats	0.61.0	rlang	0.4.12
blob	1.2.2	GenomeInfoDbData	1.2.7	mclust	5.4.9	robustbase	0.93-9
broom	0.7.11	GenomicAlignments	1.30.0	memoise	2.0.1	ROCR	1.0-11
cachem	1.0.6	GenomicFeatures	1.46.3	mgcv	1.8-38	rpart	4.1-15
callr	370	GenomicRanges	1.46.1	Mumetrics	111	rproiroot	2.0.2
Cat	3.0-12	ggplot2	335	ModelMetrics	1222	Bsamtools	2 10 0
carData	3.0-5	ggpubr	0.4.0	modelr	018	PSOLite	229
carot	60.00	stand	0.9.1	modelteelc	0.2.22	retativ	0.7.0
carec	0.0-50	ggiepei	0.5.1	modertoors	0.2-23	istatix	0.7.0
centranger	1.1.0	ggsignit	0.6.3	munsen	0.5.0	rstudioapi	0.13
ChemometricsWithR	0.2.0	ggtext	0.1.1	nime	3.1-153	rtracklayer	1.54.0
class	7.3-19	globals	0.14.0	nnet	7.3-16	RUVSeq	1.28.0
cli	3.1.0	glue	1.6.0	parallel	4.1.2	rvest	1.0.2
cluster	2.1.2	gower	0.2.2	parallelly	1.30.0	S4Vectors	0.32.3
codetools	0.2-18	grid	4.1.2	permute	0.9-5	sandwich	3.0-1
colorspace	2.0-2	gridExtra	2.3	pillar	1.6.4	scales	1.1.1
compiler	4.1.2	gridtext	0.1.4	pkgbuild	1.3.1	scatterplot3d	0.3-41
cowplot	1.1.1	gtable	0.3.0	pkgconfig	2.0.3	scoringRules	1.0.1
cravon	1.4.2	haven	2.4.3	pls	2.8-0	ShortRead	1.52.0
creh	1.0-4	hms	111	plvr	186	splines	412
curl	432	htmltools	052	pog	0.1-7	ctate4	412
data table	114.2	htmlwidgete	1.5.2	probelue	0.17	Statist	0.0.016
uata table	1.14.2	han wragets	1.1.4	praberus	2.3-2	stations	0.0.916
DBI	1.1.2	nttr	1.4.2	prettyunits	1.1.1	stringi	1.7.6
dbplyr	2.1.1	hwriter	1.3.2	pROC	1.18.0	stringr	1.4.0
DelayedArray	0.20.0	ipred	0.9-12	processx	3.5.2	SummarizedExperiment	1.24.0
DEoptimR	1.0-10	IRanges	2.28.0	prodlim	2019.11.13	survival	3.2-13
digest	0.6.29	iterators	1.0.13	progress	1.2.2	tibble	3.1.6
diptest	0.76-0	jpeg	0.1-9	proxy	0.4-26	ti dyr	1.1.4
doParallel	1.0.16	jsonlite	1.7.2	ps	1.6.0	tidyselect	1.1.1
dplyr	1.0.7	KEGGREST	1.34.0	purrr	0.3.4	tidyverse	1.3.1
DT	0.2	kernlab	0.9-29			timeDate	3043.102
e1071	1 7-9	knitr	1 37			tools	412
EDASea	2 28 0	kohonen	3.0.10			tzdb	0.2.0
odgoB	2.20.0	Kononen	5.0.10				122
eugen	5.50.0					uus	1.2.2
empsis	0.5.2					vcurs	0.5.8
						vegan	2.5-7
						vroom	1.5.7
						withr	2.4.3
						xfun	0.29
						XML	3.99-0.8
						xm12	1.3.3
						XVector	0.34.0
						vaml	2.2.1
						zlibbioc	1 40 0
						700	1 9.0
						D	uncion 4.1.2 (2021-11-01)
						<u>n</u>	(CISION 4.1.2 (2021-11-01)

**Supplement Figure 1: Schematic overview of plots in the Trait-Based Experiment (TBE) in the Jena Experiment.** In this study, we used the two plant species pools Pool1 (orange) and Pool2 (green) each containing four selected grass and four selected herb species. In the TBE, plots with different initial diversity levels (DL) were arranged randomly across three blocks: Block A, Block B and Block C, which are located next to each other along the river Saale, where each plot measured 3.5 m by 3.5 m. Due to an overlap in the species pools Pool1 and Pool2, three target species were collected from both pools. Which target species were collected from which plots can be found in tables 1a and 1b of the main manuscript. In the TBE A009, A016, A020, A027, A040, A043, B048, B059, B060, B064, B085, C097, C110, C121, C131, and C133 were designed as DL 1, being initially planted with only the target species; A002, A011, A013, A026, A042, A044, A046, B054, B071, B080, B081, B090, B092, C114, C135, C137 were designed as DL 2 with the target species and one additional plant species randomly assigned from the species pool; A003, A005, A010, A030, A035, A045, B051, B057, B067, B075, C103, C109, C115, and C136 were designed as DL4 with the target species and three additional species; A018 and B073 were designed as DL8 with all target species from the species pool.



# **CURRICULUM VITAE**

#### **Career**

Doctoral researcher: Biology and Bioinformatics since 2017

 Martin-Luther-University Halle-Wittenberg (in collaboration with the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig and Leibniz Institute of Plant Biochemistry (IPB)
 Master of Science: Biology – 2016
 University Hamburg (in cooperation with Universidade de Federal de Pernambuco – INNOVATE)
 Bachelor of Science: Biology – University Hamburg 2012

#### **Certification**

MicroMaster in Bioinformatics, online at University of Maryland Global Campus and University System of Maryland (in collaboration with edX) 2020

Data Science Professional Certificate, online at HarvardX (in collaboration with edX) 2021

#### **Publications**

Ferlian, O., ..., Marr, S., ..., Eisenhauer, N. (2020). Soil chemistry turned upside down: a meta-analysis of invasive earthworm effects on soil chemical properties. Ecology, 101(3), e02936.

- Marr, S., et al. (2021). LC-MS based plant metabolic profiles of thirteen grassland species grown in diverse neighbourhoods. Scientific Data
- Jurburg, SD, ..., Marr,S., ..., Heintz-Buschart, A. (2022). The community ecology perspective of omics data. Microbiome, 10(1), 1-13.
- Walker, TWN, ..., Marr, S., ..., Salguero-Gómez, R. (2022). Functional Traits 2.0: The power of the metabolome for ecology. Journal of Ecology, 110 (1), 4-20

## **ACKNOWLEDGEMENTS**

First and foremost, I would like to express my sincere gratitude to German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – DFG–FZT 118, 202548816 – iDiv-Flexpool, Martin Luther University Halle-Wittenberg (MLU) and Leibniz Institute of Plant Biochemistry (IPB) for funding and supporting the research. I am particularly grateful to the initiators of the project, Dierk Scheel, Steffen Neumann, and Helge Bruelheide, who acquired the funds and provided facilities and infrastructure. In addition, I would like to thank the defence committee as well as all members of the PhD advisory committee, including Nicole M. van Dam and Nico Eisenhauer. Also, special thanks to yDiv, for endless moral support, guidance and inspiration.

I also want to thank the gardeners and lab teams of the MLU and IPB, especially SD, and SK, for all their guidance, feedback and outstanding support. Many thanks to the gardeners of the Jena Experiment (DFG, FOR 456/1451) and numerous student helpers for maintaining the experimental side and plots. Special thanks also to MF, who went above and beyond to ensure a smooth sampling collection even in heavy thunderstorms. I am grateful to everyone I've collaborated with externally, such as the Brunius lab at Epihubben, Uppsala Universitet, Roessner lab at the University of Melbourne and TreeDì jointly funded by the DFG (GRK2324) and the University of Chinese Academy of Sciences (UCAS). I would also like to highlight the Biometris team at Wageningen University & Research, especially Jos A. Hageman and Ron Wehrens, for their remarkable support, mentoring and encouragement, which far exceeded all my expectations.

Finally, an immense thank you to CU and SS for their outstanding support, valuable discussions, feedback and unlimited bioinformatics superpowers and to UH, who has been and always will be mentioned – after all, you are the master of the library! The most special thanks to team Ilmenau for being a constant source of encouragement, and unconditional support, especially to PsR and his terrace and SAS for her unbreakable friendship. Special thanks also to MetraLabs, who provided me not only with funds and an office to finish the writing but also with secret knowledge about autonomous robots.

# **EIDESSTATTLICHE ERKLÄRUNG**

Hiermit erkläre ich, Susanne Marr, an Eides statt, dass ich die vorliegende Dissertationsschrift mit dem Titel:

"A Study in Green: Investigating Secondary Metabolite Profiles in Thirteen Grassland Plant Species"

wie eingereicht an der Martin-Luther-Universität Halle-Wittenberg, selbstständig und ohne fremde Hilfe verfasst und alle Quellen und Hilfsmittel für wörtlich und inhaltlich entnommene Stellen als solche kenntlich gemacht habe. Die jeweiligen Beiträge der anderen Autoren zu den Manuskripten der jeweiligen Kapitel ist am Anfang derselbigen für jedes Kapitel einzeln aufgeschlüsselt und am Ende jedes Kapitel einzeln genannt. Die vorliegende Dissertation wurde bis zu diesem Zeitpunkt an keiner Hochschule, auch nicht an der Naturwissenschaftlichen Fakultät I – Biowissenschaften der Martin-Luther-Universität Halle-Wittenberg, zum Zwecke der Promotion eingereicht oder vorgelegt. Eine Bewerbung um den Doktorgrad erfolgte bisher nicht.

Susanne Marr