

## **TRY Data Integration Workflow (TRY version 5, 2019-08-15)**

Two basic decisions when designing the TRY database (1: data contribution without barriers, 2: data release ready-for-use by non-experts) caused the need for substantial data curation in the context of the TRY database. This is specifically relevant, as plant traits are characterized by high level of idiosyncrasy, as trait measurements are in most cases not sampled for systematic screening of biodiversity with common and well-standardized measurement protocols, but with respect to specific research questions, which often have specific requirements for trait measurements. The development of a systematic data-curation workflow was therefore an essential part of the first phase of the TRY initiative. The workflow was then gradually improved as standardized external data became available, i.e. trait definitions, taxonomic backbone and functional classification of plant species.

The TRY data curation workflow (or the integration of new datasets into the TRY database) consists of the key aspects: data complementation, consolidation, quality assurance and preparation for data releases. The guiding principle in this context is to preserve the original data and annotate them with complementing and consolidated information and data quality attributes. Changing the original data is the exception and in collaboration with dataset custodians.

All datasets and all additional information submitted to TRY are stored and archived on the file system of the Max-Planck-Institute for Biogeochemistry.

### *Data contribution:*

New datasets are in general contributed via the TRY website: <https://www.try-db.org/TryWeb/Submission.php>

In the context of data contribution we ask for two things:

- (1) To contribute as much additional information (auxiliary data, meta data) about plant growth and trait measurement conditions as the data contributor – the expert for the given dataset – assumes necessary to understand and correctly interpret the data. If the additional information is provided as text, the individual meta-data are extracted before they are entered into the database.
- (2) To contribute original, disaggregated trait records rather than aggregated averages. Disaggregated data provide a better representation of trait variation, i.e. intraspecific variation, compared to aggregated data. So far the size of in-situ measured trait datasets was not limiting and posterior aggregation, e.g. in the context of analyses, is possible, while disaggregation is not.

Data integration is organized in seven major steps:

### *1: Data complementation 1*

Before data are imported into the TRY database the dataset is checked for missing information, e.g. geographic references. If possible, this is added, i.e. from the publication related to the dataset. In this context structured meta-data are extracted from unstructured textual information.

### *2: Data consolidation*

Data consolidation is based on the following (sub)steps: structural data integration; semantic integration of taxonomy, trait names and names of metadata; standardization of well represented numerical traits and the most relevant meta data and categorical traits

### *2.1: Structural integration*

Data consolidation is based on several steps to fully integrate new datasets. In the context of dataset import into the TRY database all data are transformed to the entity-attribute-value (EAV) data model of the TRY database. All trait records and auxiliary data are stored in one long table with the three principal columns for entity, attribute and value. All trait measurements and all auxiliary data measured on the same entity (e.g. the traits leaf area, leaf dry mass and SLA and the auxiliary data for geo-reference, measurement date, etc. measured on the same leaf at the same date) are combined to an observation with unique identifier. This data model is consistent with two fundamental framework ontologies in trait based ecology: the EAV model is consistent with the entity-quality model (Mungal et al. 2010, Garnier et al. 2017), which defines the trait of an organism to be the ‘quality of an entity’. (2) The aggregation of different measurements on the same entity is consistent with the OBOE framework ontology (Madin et al. 2007), which conceptualizes an observation as combination of several measurements on the same entity.

### *2.2: Semantic integration: taxonomic names, names of traits and ancillary data*

#### *2.2.1: Plant taxonomy*

Plant taxonomy is consolidated using the Taxonomic Names Resolution Service (TNRS) developed by iPlant (<http://tnrs.iplantcollaborative.org/>, Boyle et al. 2013) against a species backbone with a taxonomic backbone based on the Plant List (<http://www.theplantlist.org>), Missouri Botanical Garden's Tropicos database (<http://www.tropicos.org>), the Global Compositae Checklist (<https://www.compositae.org/checklist>), the International Legume Database and Information Service (<http://www.ildis.org>), and USDA's Plants Database (<http://plants.usda.gov>). TNRS suggests accepted or at least known taxonomic names in case of misspellings and resolves synonyms.

Before submission of the species list at the TNRS website, taxonomic names are cleaned for letters not compatible with TNRS. For taxonomic names resolution we use the default settings at the TNRS website:

- Processing Mode: Perform Name Resolution
- Match Accuracy: Allow partial matches, selected minimum threshold: 0.05
- Sources: TPL, GCC, ILDIS, TROPICOS, USDA
- Family classification: TROPICOS

#### Selection process

- We receive “detailed” results.
- We select the ‘best estimates’ only: highest agreement of provided and suggested names.

- We accept suggested names, if only the species epithet is changed and the epithet agreement is >0.85.
- We do not accept suggested names, if the genus part of the name was changed.
- When the ‘accepted name’ is provided by TNRS, i.e. resolving synonyms, we accept it.
- Else, if a known name is provided, we accept it.
- If we do not accept suggested changes of the names, or no accepted or no known taxonomic names are provided by TNRS, we use the original name provided to TRY.

#### *2.2.2: Trait names*

Trait names and definitions are consolidated across all datasets, based on the TOP thesaurus of plant characteristics (Garnier et al., 2016) (<http://top-thesaurus.org>) or the plant trait handbook (Pérez-Harguindeguy et al., 2013), if possible.

#### *2.2.3: Names of Ancillary data*

The names of all ancillary data are consolidated across all datasets.

References for trait data contributions and primary references of trait data contributed by already integrated datasets are consolidated.

### *2.3: Standardization of trait and ancillary data*

#### *2.3.1: Trait data*

For numerical traits with more than 1000 records standardized units and values are added and trait values are recalculated if necessary.

#### *2.3.2: Ancillary data*

Most relevant ancillary-data (geo-reference, measurement date, exposition, maturity, health) are standardized:

- geo-reference: decimal degree latitude and longitude, altitude in meters
- measurement date: ISO 8601 (YYYY-MM-DD)
- exposition: natural environment, glasshouse, climate chamber, etc.
- maturity: juvenile, mature
- health: stressed, healthy

### *3: Data complementation 2*

After the consolidation of data in the TRY database, additional trait values are derived from contributed trait data where possible, e.g. leaf nitrogen content per area can be calculated from leaf nitrogen content per leaf dry mass and leaf area per leaf dry mass if measured on the same entity; the categorical trait plant woodiness (woody, non-woody) can be logically derived from the trait ‘plant growth form’ (tree, shrub, herb).

### *4: Data quality assurance*

#### *4.1: Numerical trait values*

For numerical traits with >1000 trait records errors, outliers and duplicates of trait records are identified by consistency checks of consolidated trait values across all datasets (probabilistic approach).

##### *4.1.1 First check and correction of systematic errors*

After consolidation of trait names, plant taxonomy, units and values numerical trait records are identified as systematic potential errors, if most records for this trait of a dataset are out of range across all datasets. This is a strong indication for a unit mismatch, which is corrected, if possible.

##### *4.1.2 Second check and correction of systematic errors*

After this initial quality check data are transformed to approximate normal distributions and errors and outliers are identified as z-scores (the number of standard deviations a trait record is away from the group mean). A z-score >3(4) or <-3(4) indicates low (0.3%, 0.006%) probability to be a true representative of the respective normal distribution. Z-scores are calculated based on all data of a trait and after grouping the data of a trait at species, genus and family level and according to plant growth form. As the number of trait records per group is in many cases not sufficient to calculate a robust standard deviation for the group, we use the mean standard deviation across all groups of the respective level to calculate the z-scores (see Kattge 2011). The mean z-score of all records for a trait of a dataset is used to check again for potential systematic errors within datasets, which can then be corrected.

##### *4.1.3 Identification of individual outliers*

After correction of systematic errors, z-scores are recalculated and published (<https://www.try-db.org/TryWeb/Data.php#25>). The maximum absolute z-score is released with the trait data records to indicate outliers or potential errors in individual trait records.

##### *4.1.4: Identification of duplicates*

Duplicates are flagged, for same consolidated species, same consolidated trait and similar consolidated trait value, if neither geo-reference, measurement date, nor original publication indicate a difference.

#### *4.2: Identification of errors in georeferences*

Errors in geo-references are identified by comparison against a terrestrial land mask and flagged.

#### *5: Dataset Custodians feedback*

After a dataset has been integrated in the TRY database the dataset custodian is asked for feedback, i.e. if trait names are appropriate and values correct.

#### *6: Reformatting for output and string consistency check*

Finally data are cashed for data release and format consistency is checked in the cached data, errors in the output format (i.e. line breaks in database cells) are corrected before data are released from the database.

Data release format:

Datasets are released as machine-readable tab delimited text with ‘UTF-16 Latin1 swedish ci’ encoding (MySQL standard). The released datasets are organized according to the entity-attribute-value (EAV) model, where the original data (species name, trait or meta-data name, trait or metadata unit and value) are annotated and enriched by the Observation ID and consolidated information for plant taxonomy, names of traits and meta-data, consolidated units and trait values, indicators for outliers and duplicates, and the contribution reference.

*7: Additional information provided at the TRY File Archive (<https://www.try-db.org/TryWeb/Data.php>)*

- Climate, soil, biome information of TRY measurement sites
- Categorical traits relevant to determine PFTs
- Primary references

				cluster	weight<Links>		
					weight<Occurrences>		
						score<Avg. norm.	
						citations>	
20	agricultural landscapes		1.0466	0.2804	1		16
20	3 2017	4.6667	0.4021				
31	alien plants	0.1446	0.7392	4		18	19
3	2018 2	0.4975					
43	amazonian forest	-0.7128	-0.2469	2		23	26
3	2015 32	1.2514					
49	angiosperms	-0.5278	-0.4391	3		18	20
3	2017.6667	2.6667	0.6026				
59	arctic tundra	0.2383	-0.6535	6		24	30
4	2017 27.75	2.374					
90	beta diversity	0.7997	-0.4926	6		23	27
3	2017 6.3333	0.209					
95	biodiversity	0.413	0.4326	1		105	242
33	2016.4545	24.9091	0.9562				
100	biodiversity loss		0.8551	-0.1667	6		19
22	4 2016.5	30	0.7147				
106	biogeography	-0.2582	-0.6861	2		20	24
3	2016 47.3333	1.0191					
110	biomass	0.7601	-0.1592	6		26	4
2017.25	5 0.6747						
120	biotic interactions		0.2471	0.5907	1		20
23	3 2016.3333		71.3333	1.9227			
123	body-size	0.6544	0.075	3		14	15
4	2017.25 11.5	0.8566					
154	carbon	-0.0443	-0.7063	7		44	5
2016.6	44 1.3877						
158	carbon cycle	-0.6876	0.0948	5		82	159
21	2015.619 86.7619	1.1804					
182	classification	0.0563	0.783	1		18	22
3	2016.6667	16	1.0045				
183	climate change	-0.1001	-0.1345	2		156	427
57	2016.1053	35.8246	1.3146				
205	community	0.2466	0.0753	6		81	135
20	2016.2 17.4	0.7365					
207	community assembly		0.5173	0.0577	4		60
83	10 2015.9	37.8	0.8866				
210	community ecology		0.3382	0.5788	4		48
67	8 2014.875	65.5	1.5112				
218	comparative ecology		-0.3285	0.8881	4		29
33	3 2014	376.3333	2.3521				
219	competition	0.9513	-0.2967	8		34	42
5	2016.2 54	0.8049					
223	complementarity	0.9595	-0.075	1		21	22
3	2014.6667	49.6667	0.8327				
229	consequences	-0.1505	-0.6462	3		24	27
4	2017.5 10.75	0.455					
230	conservation	0.9477	0.6196	1		24	32
5	2016.6 5.6	0.6497					
237	convergence	0.6762	-0.3539	6		22	26
3	2017.6667	3.6667	0.2441				

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3	2017.6667	3.6667	0.2441				

257	database	0.0861	0.4017	4	64	112	17
2015.8235		73.1176	0.715				
265	decomposition	-0.3754	-0.2536	7	64	94	
12	2015.1667	29.9167	0.6777				
273	demographic rates		0.2579	0.2758	1	24	
27	3	2015.3333	64.3333	1.223			
290	dispersal	-0.3033	0.1569	3	30	34	
5	2017.4 2	0.2335					
304	disturbance	0.5704	0.1807	4	55	78	
9	2017.4444	4.5556	0.6336				
306	divergence	0.6325	0.5781	4	21	25	
4	2018 7.75	0.5159					
308	diversity	0.4235	0.1645	1	104	240	
34	2016.5588	19.1765	0.7299				
317	drought	0.0711	-0.452	2	57	93	14
2017.2143		12.2143	1.2606				
327	dry-matter content		-0.1969	0.0789	6	27	
33	5	2016.6	88.8	1.9769			
334	dynamics	-0.029	-0.4646	2	30	33	5
2016.4	45		1.8775				
337	earth system model		-0.8277	-0.4804	2	38	
53	12	2015.25	43.3333	0.8807			
347	ecological restoration		0.9165	-0.5069	8	26	
35	4	2016.25	23.25	0.4316			
348	ecology	0.4444	-0.2688	3	80	153	22
2016.9545		10	0.8167				
350	economics spectrum		-0.0434	0.0086	5	69	
101	13	2014.6923		44.6923	0.9957		
357	ecosystem function		0.4423	-0.7675	6	19	
22	3	2015.6667		60.6667	1.5643		
361	ecosystem multifunctionality			0.3646	0.8022	1	
27	31 3	2017.6667		10.6667	1.621		
362	ecosystem processes		0.5032	0.4114	1	33	
35	4	2014.75	41.75	0.7059			
366	ecosystem services		0.9142	0.2594	1	39	
54	8	2015.875	36	1.0259			
368	ecosystems	0.3066	-0.3941	7	50	87	
11	2015.4545	37.8182	0.8226				
379	elevation	-0.6283	0.3062	3	17	20	
4	2017.75 7	1.5136					
385	environmental filtering		0.5234	-0.3534	8	43	
56	6	2016	36.5	0.9531			
386	environmental gradient		0.2297	0.8203	4	33	
35	3	2015.6667		341.3333	1.2081		
387	environmental gradients		-0.8278	-0.2589	2	20	
23	3	2016	10	0.3984			
393	environmental-change		0.7992	0.1414	1	15	
17	3	2016	69.6667	1.4474			
409	evolution	-0.229	-0.2236	3	54	84	
13	2016.3077	36.0769	1.005				
420	extinction	-0.3566	-0.076	3	29	31	
3	2015.6667	22.3333	0.4075				
454	flora	-0.0216	0.8625	4	18	23	4
2015.75	26	0.4386					

469	forest dynamics	-0.3974	-0.9281	7	17	20
3	2014	54.3333	1.6961			
476	forest succession		0.663	0.3333	1	19
24	3	2016	17	0.5483		
481	forests	0.0945	-0.055	1	71	109
2016	23.2	0.9227				15
483	framework	0.7912	0.331	1	25	29
4	2015.25	7.75	0.1495			
496	functional diversity		0.2323	-0.0025	4	104
192	24	2016.25	66.5	1.12		
497	functional ecology		0.4938	0.2785	1	22
34	5	2016.8	16.4	0.4751		
499	functional group	0.77	-0.7432	8	19	22
3	2017.6667	2	0.2546			
504	functional types	-0.2169	0.6653	5	40	45
6	2016.8333	33.6667	1.5646			
506	fundiveurope	0.5701	0.4743	1	33	49
5	2016.6	20.6	1.1081			
508	fungi	0.0555	0.6772	4	20	23
2016	62.3333	0.9126				3
519	general coefficient		1.0314	-0.7152	8	14
19	3	2016	28	0.5884		
540	global change		-0.6072	-0.0742	2	52
9	2015.8889	130.4444	1.1153			72
544	global patterns		-0.7067	-0.0133	3	47
10	2015.6	46.6	1.3869			78
550	gradients		-0.3024	-0.1605	3	38
6	2015.5	11	0.3513			46
553	grasslands		0.7363	-0.2637	6	31
5	2017.2	7.4	0.134			40
557	gross primary production		-1.0215	0.4952	5	12
20	4	2015.25	14	0.2528		
558	growth	0.0621	-0.3019	2	57	84
2016.5	14.25	0.9586				12
559	growth form		-0.1583	-0.5053	3	25
3	2016	13.6667	1.0073			29
561	growth-rate		-0.4176	0.7912	4	17
3	2016	37.3333	1.2993			19
565	habitat	0.9837	0.4237	1	22	22
2018.3333	1.6667	0.1109				3
577	hawaiian metrosideros-polymorpha		-0.8005	0.7553	5	
29	37	4	2015	407	4.3327	
618	imaging spectroscopy		-0.3305	1.1288	5	15
21	3	2017	33.6667	1.1074		
620	impact	0.2597	-0.2092	1	38	60
2017.125	22.625	1.0127				8
643	interannual variability		-1.1224	0.4318	5	18
21	3	2016.3333	16.6667	0.9196		
650	intraspecific variability	0.3237	0.3499	4		38
54	7	2016.4286	45.1429	1.6211		
661	invasive plant management	0.9965	-0.7585	8		14
19	3	2016	28	0.5884		
682	land-use	0.3462	0.6904	1	65	103
2015.9167	41.9167	0.927				12

683	land-use change	0.3394	0.1788	1	33	45
6	2016.5 7.8333	0.54				
686	landscape	1.1802	-0.0226	8	17	20
3	2017 3.6667	0.2955				
693	large-scale	0.8073	0.5903	1	22	29
3	2017.3333	11	1.4002			
698	leaf -0.4564	-0.2288	2	33	37	5
2016.8	22.6 0.9961					
700	leaf dry mass	-0.9167	0.448	5	48	95
10	2014.7 173.1	2.1456				
703	leaf economics	0.0562	-0.6096	7	44	58
7	2016.8571	10.5714	0.5455			
704	leaf economics spectrum	-0.292	0.285	4	44	
60	8 2015.625 101.375	2.4654				
708	leaf nitrogen	-0.0198	-0.1897	3	26	29
4	2015.25 14.25	0.3689				
714	leaf size	-0.4214	0.116	2	59	87
13	2015.6154	23.7692	0.9504			
718	leaf traits	-0.5676	-0.1726	2	49	61
11	2016.5455	9.9091	0.7385			
720	leaf-area index	-0.564	1.0031	5	17	20
4	2015.5 23.25	0.5837				
722	leaf-litter	-0.278	-1.0462	7	19	22
3	2015.6667	53.3333	1.0824			
735	life-history	-0.1082	-0.2786	3	24	27
4	2017.25 10	0.4051				
736	life-history traits	0.4099	0.033	4	38	
50	6 2016.1667	12.3333	0.2967			
744	limiting similarity	0.6645	-0.7777	8	22	
25	3 2014 80.6667	1.0329				
747	litter -0.1539	-0.9848	7	22	26	3
2016.3333	26.3333 0.8449					
750	litter decomposition	-0.2196	-0.0218	7	71	
125	15 2015.8 117.8	1.7536				
767	macroecology	0.5624	-0.1724	3	16	18
3	2018 10 2.44					
774	management	0.9788	-0.1799	8	37	50
7	2015.5714	33.7143	0.5144			
775	mass -0.5368	-0.7099	3	17	22	3
2016	53.6667 1.59					
782	mechanisms	0.154	-0.7862	7	33	37
5	2016.6 35.2 0.5523					
790	meta-analysis	-0.0227	-0.816	7	33	47
8	2015.375 49.5 1.03					
804	missing data	0.1636	-0.3162	3	14	17
3	2016 19.6667 0.4986					
812	models -0.0521	0.334	3	63	97	13
2016.1538	23.5385 0.8703					
825	mountain -0.861	0.2345	3	21	24	3
2016.6667	26 2.261					
843	mycorrhiza	-0.1053	0.7835	4	11	11
3	2016.3333 37 0.8429					
882	nitrogen -0.3991	0.1906	2	71	120	14
2016.2857	33.8571 1.1888					

900	north	0.4356	-0.4247	3	16	23	3
2017.6667	8	1.322					
910	null models	0.8908	0.5159	4	25	27	
3	2017	5.6667	0.5294				
911	nutrient	0.2141	-0.9145	6	19	20	3
2017	31	2.2968					
939	patterns	0.1013	0.0624	4	87	161	21
2017	10.9048	1.0764					
943	performance	-0.6494	-0.5718	2	31	44	
7	2016.2857	19.5714	1.0337				
953	phenotypic plasticity	0.5692	-0.5188	6	12		
14	3	2017	9.6667	0.2502			
957	phosphorus	0.2723	-0.4851	6	43	60	
7	2017.2857	9.5714	0.535				
959	photosynthesis	-0.9703	-0.4196	2	27	38	
7	2016.2857	31	1.1836				
961	photosynthetic capacity	-0.9891	0.1708	5	49		
93	14	2014.7143	80.7857	1.5203			
969	phylogenetic diversity	0.6977	0.4593	1	36		
44	6	2017.3333	12.3333	1.4187			
977	phylogeny	0.309	-0.2915	6	16	17	
3	2017.6667	4.3333	0.7743				
989	plant	0.352	0.9486	4	21	26	4
2017	26.75	0.7022					
993	plant communities		0.611	0.7435	4	27	
31	3	2016	63.3333	0.7363			
1002	plant diversity	1.0176	0.044	1	29	35	
4	2015.5	15.75	0.2933				
1004	plant economics spectrum	0.0767	0.208	6	27		
35	4	2017	26	1.7307			
1010	plant functional type	-0.2564	0.3545	5	60		
88	10	2015.2	139.9	1.5687			
1012	plant height	-0.5949	0.0751	3	35	47	
5	2016	32.4	1.0389				
1019	plant respiration		-1.1179	-0.4887	2	9	
12	3	2015	27	0.5046			
1021	plant strategies	-0.2176	0.4809	5	28	31	
3	2015.6667	13	0.2526				
1022	plant traits	0.0287	0.0865	3	179	715	
101	2016.1188	35.9109	0.8637				
1024	plant-communities		0.1876	0.1852	3	41	
55	7	2018	5.5714	0.5791			
1030	plant-species richness	1.0107	-0.3692	6	17		
18	3	2016.6667	38.3333	0.7813			
1033	plants	-0.6652	-0.4759	2	35	47	7
2017.5714	22.4286	2.6766					
1074	productivity	0.4564	-0.5874	6	55	91	
12	2017.0833	7.9167	0.4168				
1086	quercus-ilex	-0.6123	0.7409	5	38	71	
7	2014.7143	214.2857	1.7416				
1091	rain-forest	-0.3443	0.4965	4	31	33	
5	2015.4	212.4	1.0722				
1096	random forests	0.0829	1.0422	5	14	18	
3	2018	2.3333	0.5804				

1104	recruitment	0.5038	0.6083	1	23	26
3	2018	4.3333	0.2884			
1113	relative growth-rate		-0.8071	0.5378	5	44
67	8	2013.875	226.375	2.0688		
1114	relative importance		0.6737	0.1937	1	17
21	4	2016.5	13.75	0.5805		
1115	remote sensing	-0.5384	1.0897	5	18	24
4	2016.75	12	0.776			
1119	resilience	0.433	-0.1302	1	21	24
4	2017.5	5	0.5042			
1120	resistance	-0.8119	-0.6468	2	16	17
3	2018.3333		1.6667	1.3388		
1125	respiration	-1.1701	-0.3327	2	15	18
3	2015.3333		73.3333	1.4125		
1126	responses	0.1582	-0.5621	6	73	125
17	2017.7647		10.8235	1.3684		
1128	restoration	0.7668	-0.6525	8	32	40
5	2017.2	3.4	0.0988			
1149	rooting depth	-0.4598	-0.5411	2	12	12
3	2016.6667		6.6667	0.293		
1163	scale	1.117	0.1184	8	19	21
2017.3333		3	0.2911			
1168	scots pine	-0.3866	-0.7907	7	16	20
3	2017	6.3333	0.3613			
1174	seed dispersal	-0.4425	-0.3279	3	20	30
5	2017.6	3.4	0.7			
1177	seed mass	-0.547	-0.258	3	42	59
6	2015.1667		32.5	0.775		
1181	seed size	-0.4432	0.3757	4	37	48
6	2014.8333		110.1667	2.1815		
1198	services	0.7481	0.8993	1	20	28
2016.3333		11.3333	1.0513			
1204	shifts	-0.5206	0.4461	3	20	22
2017.6667		16	2.9477			
1210	size	-0.3403	-0.3999	3	21	27
2017	12.5	0.7182				
1219	soil	-0.0555	0.1315	4	39	49
2016.3333		37.8333	0.7506			
1231	soil organic-matter		-0.0359	-1.0917	7	20
23	3	2017	3.3333	0.1616		
1253	speciation	-0.8021	0.0033	3	19	22
3	2016.3333		20.3333	0.487		
1266	species richness	0.4932	-0.0565	1	87	146
20	2016.85	13.7	0.6573			
1267	species traits	0.7538	0.7759	4	17	19
3	2017.3333		6.3333	0.543		
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39	6	2016.3333		14.1667	0.5856	
1271	specific leaf area		-0.5032	-0.0408	3	62
92	10	2015.8	40.3	0.8521		
1288	stomatal conductance		-1.0025	-0.2365	2	30
45	7	2015.8571		30.4286	1.0524	
1290	strategies	-0.2458	-0.8599	7	20	22
3	2015.3333		29.3333	0.6242		

1294	sub-arctic flora	-0.8074	0.8626	5	17	27
3	2016.6667	66.3333	1.7091			
1296	succession	0.6905	-0.0807	1	22	23
3	2016.3333	54	0.594			
1325	temperature	-0.2991	-0.3234	2	30	35
6	2016.3333	33.6667	1.225			
1337	terrestrial biosphere	-1.0542	0.5846	5	25	
40	5 2014	233.4	1.1368			
1341	terrestrial ecosystems	-0.8321	-0.1334	2	38	
48	6 2014.8333	73.1667	1.3572			
1343	thermal-acclimation	-1.17	-0.4621	2	8	
11	3 2015	52.6667	0.9541			
1353	trade-offs	-0.5248	0.5533	4	41	49
6	2016.1667	23.8333	0.6959			
1369	trait variation	-0.7147	0.543	5	29	38
4	2015.75 20.5	0.406				
1372	trait-environment relationships	-0.9456	0.3298	5		
21	22 3 2016	145.3333	3.0847			
1376	tree	-0.0744	0.2126	1	30	5
2016.8	31 0.7562					
1379	tree growth	0.5764	-0.0399	1	17	19
3	2017.3333	14	1.4785			
1380	tree productivity	0.6076	0.3605	1	19	
24	3 2016	17	0.5483			
1389	tropical forest	-0.2438	-0.4399	2	33	37
6	2016.1667	33.3333	1.2598			
1391	tropical forests	-0.7577	-0.4104	2	21	23
5	2017.4 16.6	1.36				
1392	tropical rain-forest	-0.8968	0.6296	5	22	
27	4 2016.5	68	1.9802			
1419	urbanization	0.072	0.5687	3	18	22
3	2016.6667	4	0.0749			
1420	use efficiency	-0.9923	-0.5309	2	14	16
3	2016 45	0.8702				
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4	2017.5 6.75	1.0533				
1425	vascular plants	-0.1258	0.596	4	23	30
4	2015.5 35	1.4745				
1428	vegetation	0.0479	0.3049	7	81	174
24	2017.3333	11.25	1.0047			
1430	vegetation change	0.0285	-1.0134	7	23	
28	4 2017.25	3.25	1.146			
1432	vegetation dynamics	-0.1328	-0.3815	2	33	
37	7 2014.2857	51	0.7073			
1439	vegetation structure	0.3087	-0.0565	1	26	
35	5 2016.4	7.6	0.5665			
1445	vulnerability	-0.43	-0.6425	2	13	16
3	2018.3333	6.3333	1.5755			
1470	wide-range	-0.6737	0.6405	5	55	117
13	2014.4615	128.4615	1.1339			
1476	wood density	-0.3845	0.0432	2	38	47
7	2017 34.4286	1.7				
1485	woody-plants	-0.7019	0.244	5	49	87
11	2014.8182	64.0909	1.2692			

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5	2015.2	28.4	0.5695				
1488	xylem	-0.6385	-0.6601	2	12	14	3
2018	39	3.2033					

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257	database	0.0861	0.4017	4	64	112	17
2015.8235		73.1176	0.715				
265	decomposition	-0.3754	-0.2536	7	64	94	
12	2015.1667	29.9167	0.6777				
273	demographic rates		0.2579	0.2758	1	24	
27	3	2015.3333	64.3333	1.223			
290	dispersal	-0.3033	0.1569	3	30	34	
5	2017.4 2	0.2335					
304	disturbance	0.5704	0.1807	4	55	78	
9	2017.4444	4.5556	0.6336				
306	divergence	0.6325	0.5781	4	21	25	
4	2018 7.75	0.5159					
308	diversity	0.4235	0.1645	1	104	240	
34	2016.5588	19.1765	0.7299				
317	drought	0.0711	-0.452	2	57	93	14
2017.2143		12.2143	1.2606				
327	dry-matter content		-0.1969	0.0789	6	27	
33	5	2016.6	88.8	1.9769			
334	dynamics	-0.029	-0.4646	2	30	33	5
2016.4	45		1.8775				
337	earth system model		-0.8277	-0.4804	2	38	
53	12	2015.25	43.3333	0.8807			
347	ecological restoration		0.9165	-0.5069	8	26	
35	4	2016.25	23.25	0.4316			
348	ecology	0.4444	-0.2688	3	80	153	22
2016.9545		10	0.8167				
350	economics spectrum		-0.0434	0.0086	5	69	
101	13	2014.6923		44.6923	0.9957		
357	ecosystem function		0.4423	-0.7675	6	19	
22	3	2015.6667		60.6667	1.5643		
361	ecosystem multifunctionality			0.3646	0.8022	1	
27	31 3	2017.6667		10.6667	1.621		
362	ecosystem processes		0.5032	0.4114	1	33	
35	4	2014.75	41.75	0.7059			
366	ecosystem services		0.9142	0.2594	1	39	
54	8	2015.875	36	1.0259			
368	ecosystems	0.3066	-0.3941	7	50	87	
11	2015.4545	37.8182	0.8226				
379	elevation	-0.6283	0.3062	3	17	20	
4	2017.75 7	1.5136					
385	environmental filtering		0.5234	-0.3534	8	43	
56	6	2016	36.5	0.9531			
386	environmental gradient		0.2297	0.8203	4	33	
35	3	2015.6667		341.3333	1.2081		
387	environmental gradients		-0.8278	-0.2589	2	20	
23	3	2016	10	0.3984			
393	environmental-change		0.7992	0.1414	1	15	
17	3	2016	69.6667	1.4474			
409	evolution	-0.229	-0.2236	3	54	84	
13	2016.3077	36.0769	1.005				
420	extinction	-0.3566	-0.076	3	29	31	
3	2015.6667	22.3333	0.4075				
454	flora	-0.0216	0.8625	4	18	23	4
2015.75	26	0.4386					

469	forest dynamics	-0.3974	-0.9281	7	17	20
3	2014	54.3333	1.6961			
476	forest succession		0.663	0.3333	1	19
24	3	2016	17	0.5483		
481	forests	0.0945	-0.055	1	71	109
2016	23.2	0.9227				15
483	framework	0.7912	0.331	1	25	29
4	2015.25	7.75	0.1495			
496	functional diversity		0.2323	-0.0025	4	104
192	24	2016.25	66.5	1.12		
497	functional ecology		0.4938	0.2785	1	22
34	5	2016.8	16.4	0.4751		
499	functional group	0.77	-0.7432	8	19	22
3	2017.6667	2	0.2546			
504	functional types	-0.2169	0.6653	5	40	45
6	2016.8333	33.6667	1.5646			
506	fundiveurope	0.5701	0.4743	1	33	49
5	2016.6	20.6	1.1081			
508	fungi	0.0555	0.6772	4	20	23
2016	62.3333	0.9126				3
519	general coefficient		1.0314	-0.7152	8	14
19	3	2016	28	0.5884		
540	global change		-0.6072	-0.0742	2	52
9	2015.8889	130.4444	1.1153			72
544	global patterns		-0.7067	-0.0133	3	47
10	2015.6	46.6	1.3869			78
550	gradients		-0.3024	-0.1605	3	38
6	2015.5	11	0.3513			46
553	grasslands		0.7363	-0.2637	6	31
5	2017.2	7.4	0.134			40
557	gross primary production		-1.0215	0.4952	5	12
20	4	2015.25	14	0.2528		
558	growth	0.0621	-0.3019	2	57	84
2016.5	14.25	0.9586				12
559	growth form		-0.1583	-0.5053	3	25
3	2016	13.6667	1.0073			29
561	growth-rate		-0.4176	0.7912	4	17
3	2016	37.3333	1.2993			19
565	habitat	0.9837	0.4237	1	22	22
2018.3333		1.6667	0.1109			3
577	hawaiian metrosideros-polymorpha		-0.8005	0.7553	5	
29	37	4	2015	407	4.3327	
618	imaging spectroscopy		-0.3305	1.1288	5	15
21	3	2017	33.6667	1.1074		
620	impact	0.2597	-0.2092	1	38	60
2017.125	22.625	1.0127				8
643	interannual variability		-1.1224	0.4318	5	18
21	3	2016.3333	16.6667	0.9196		
650	intraspecific variability	0.3237	0.3499	4		38
54	7	2016.4286	45.1429	1.6211		
661	invasive plant management	0.9965	-0.7585	8		14
19	3	2016	28	0.5884		
682	land-use	0.3462	0.6904	1	65	103
2015.9167		41.9167	0.927			12

683	land-use change	0.3394	0.1788	1	33	45
6	2016.5 7.8333	0.54				
686	landscape	1.1802	-0.0226	8	17	20
3	2017 3.6667	0.2955				
693	large-scale	0.8073	0.5903	1	22	29
3	2017.3333	11	1.4002			
698	leaf -0.4564	-0.2288	2	33	37	5
2016.8	22.6 0.9961					
700	leaf dry mass	-0.9167	0.448	5	48	95
10	2014.7 173.1	2.1456				
703	leaf economics	0.0562	-0.6096	7	44	58
7	2016.8571	10.5714	0.5455			
704	leaf economics spectrum	-0.292	0.285	4	44	
60	8 2015.625 101.375	2.4654				
708	leaf nitrogen	-0.0198	-0.1897	3	26	29
4	2015.25 14.25	0.3689				
714	leaf size	-0.4214	0.116	2	59	87
13	2015.6154	23.7692	0.9504			
718	leaf traits	-0.5676	-0.1726	2	49	61
11	2016.5455	9.9091	0.7385			
720	leaf-area index	-0.564	1.0031	5	17	20
4	2015.5 23.25	0.5837				
722	leaf-litter	-0.278	-1.0462	7	19	22
3	2015.6667	53.3333	1.0824			
735	life-history	-0.1082	-0.2786	3	24	27
4	2017.25 10	0.4051				
736	life-history traits	0.4099	0.033	4	38	
50	6 2016.1667	12.3333	0.2967			
744	limiting similarity	0.6645	-0.7777	8	22	
25	3 2014 80.6667	1.0329				
747	litter -0.1539	-0.9848	7	22	26	3
2016.3333	26.3333 0.8449					
750	litter decomposition	-0.2196	-0.0218	7	71	
125	15 2015.8 117.8	1.7536				
767	macroecology	0.5624	-0.1724	3	16	18
3	2018 10 2.44					
774	management	0.9788	-0.1799	8	37	50
7	2015.5714	33.7143	0.5144			
775	mass -0.5368	-0.7099	3	17	22	3
2016	53.6667 1.59					
782	mechanisms	0.154	-0.7862	7	33	37
5	2016.6 35.2 0.5523					
790	meta-analysis	-0.0227	-0.816	7	33	47
8	2015.375 49.5 1.03					
804	missing data	0.1636	-0.3162	3	14	17
3	2016 19.6667 0.4986					
812	models -0.0521	0.334	3	63	97	13
2016.1538	23.5385 0.8703					
825	mountain -0.861	0.2345	3	21	24	3
2016.6667	26 2.261					
843	mycorrhiza	-0.1053	0.7835	4	11	11
3	2016.3333 37 0.8429					
882	nitrogen -0.3991	0.1906	2	71	120	14
2016.2857	33.8571 1.1888					

900	north	0.4356	-0.4247	3	16	23	3
2017.6667	8	1.322					
910	null models	0.8908	0.5159	4	25	27	
3	2017	5.6667	0.5294				
911	nutrient	0.2141	-0.9145	6	19	20	3
2017	31	2.2968					
939	patterns	0.1013	0.0624	4	87	161	21
2017	10.9048	1.0764					
943	performance	-0.6494	-0.5718	2	31	44	
7	2016.2857	19.5714	1.0337				
953	phenotypic plasticity	0.5692	-0.5188	6	12		
14	3	2017	9.6667	0.2502			
957	phosphorus	0.2723	-0.4851	6	43	60	
7	2017.2857	9.5714	0.535				
959	photosynthesis	-0.9703	-0.4196	2	27	38	
7	2016.2857	31	1.1836				
961	photosynthetic capacity	-0.9891	0.1708	5	49		
93	14	2014.7143	80.7857	1.5203			
969	phylogenetic diversity	0.6977	0.4593	1	36		
44	6	2017.3333	12.3333	1.4187			
977	phylogeny	0.309	-0.2915	6	16	17	
3	2017.6667	4.3333	0.7743				
989	plant	0.352	0.9486	4	21	26	4
2017	26.75	0.7022					
993	plant communities		0.611	0.7435	4	27	
31	3	2016	63.3333	0.7363			
1002	plant diversity	1.0176	0.044	1	29	35	
4	2015.5	15.75	0.2933				
1004	plant economics	spectrum	0.0767	0.208	6	27	
35	4	2017	26	1.7307			
1010	plant functional type		-0.2564	0.3545	5	60	
88	10	2015.2	139.9	1.5687			
1012	plant height		-0.5949	0.0751	3	35	47
5	2016	32.4	1.0389				
1019	plant respiration		-1.1179	-0.4887	2	9	
12	3	2015	27	0.5046			
1021	plant strategies	-0.2176	0.4809	5	28	31	
3	2015.6667	13	0.2526				
1022	plant traits	0.0287	0.0865	3	179	715	
101	2016.1188	35.9109	0.8637				
1024	plant-communities		0.1876	0.1852	3	41	
55	7	2018	5.5714	0.5791			
1030	plant-species richness		1.0107	-0.3692	6	17	
18	3	2016.6667	38.3333	0.7813			
1033	plants	-0.6652	-0.4759	2	35	47	7
2017.5714	22.4286	2.6766					
1074	productivity	0.4564	-0.5874	6	55	91	
12	2017.0833	7.9167	0.4168				
1086	quercus-ilex	-0.6123	0.7409	5	38	71	
7	2014.7143	214.2857	1.7416				
1091	rain-forest	-0.3443	0.4965	4	31	33	
5	2015.4	212.4	1.0722				
1096	random forests	0.0829	1.0422	5	14	18	
3	2018	2.3333	0.5804				

1104	recruitment	0.5038	0.6083	1	23	26
3	2018	4.3333	0.2884			
1113	relative growth-rate		-0.8071	0.5378	5	44
67	8	2013.875	226.375	2.0688		
1114	relative importance		0.6737	0.1937	1	17
21	4	2016.5	13.75	0.5805		
1115	remote sensing	-0.5384	1.0897	5	18	24
4	2016.75	12	0.776			
1119	resilience	0.433	-0.1302	1	21	24
4	2017.5	5	0.5042			
1120	resistance	-0.8119	-0.6468	2	16	17
3	2018.3333		1.6667	1.3388		
1125	respiration	-1.1701	-0.3327	2	15	18
3	2015.3333		73.3333	1.4125		
1126	responses	0.1582	-0.5621	6	73	125
17	2017.7647		10.8235	1.3684		
1128	restoration	0.7668	-0.6525	8	32	40
5	2017.2	3.4	0.0988			
1149	rooting depth	-0.4598	-0.5411	2	12	12
3	2016.6667		6.6667	0.293		
1163	scale	1.117	0.1184	8	19	21
2017.3333		3	0.2911			
1168	scots pine	-0.3866	-0.7907	7	16	20
3	2017	6.3333	0.3613			
1174	seed dispersal	-0.4425	-0.3279	3	20	30
5	2017.6	3.4	0.7			
1177	seed mass	-0.547	-0.258	3	42	59
6	2015.1667		32.5	0.775		
1181	seed size	-0.4432	0.3757	4	37	48
6	2014.8333		110.1667	2.1815		
1198	services	0.7481	0.8993	1	20	28
2016.3333		11.3333	1.0513			
1204	shifts	-0.5206	0.4461	3	20	22
2017.6667		16	2.9477			
1210	size	-0.3403	-0.3999	3	21	27
2017	12.5	0.7182				
1219	soil	-0.0555	0.1315	4	39	49
2016.3333		37.8333	0.7506			
1231	soil organic-matter		-0.0359	-1.0917	7	20
23	3	2017	3.3333	0.1616		
1253	speciation	-0.8021	0.0033	3	19	22
3	2016.3333		20.3333	0.487		
1266	species richness	0.4932	-0.0565	1	87	146
20	2016.85	13.7	0.6573			
1267	species traits	0.7538	0.7759	4	17	19
3	2017.3333		6.3333	0.543		
1268	species-diversity		0.1646	-0.1632	8	33
39	6	2016.3333		14.1667	0.5856	
1271	specific leaf area		-0.5032	-0.0408	3	62
92	10	2015.8	40.3	0.8521		
1288	stomatal conductance		-1.0025	-0.2365	2	30
45	7	2015.8571		30.4286	1.0524	
1290	strategies	-0.2458	-0.8599	7	20	22
3	2015.3333		29.3333	0.6242		

1294	sub-arctic flora	-0.8074	0.8626	5	17	27
3	2016.6667	66.3333	1.7091			
1296	succession	0.6905	-0.0807	1	22	23
3	2016.3333	54	0.594			
1325	temperature	-0.2991	-0.3234	2	30	35
6	2016.3333	33.6667	1.225			
1337	terrestrial biosphere	-1.0542	0.5846	5	25	
40	5 2014	233.4	1.1368			
1341	terrestrial ecosystems	-0.8321	-0.1334	2	38	
48	6 2014.8333	73.1667	1.3572			
1343	thermal-acclimation	-1.17	-0.4621	2	8	
11	3 2015	52.6667	0.9541			
1353	trade-offs	-0.5248	0.5533	4	41	49
6	2016.1667	23.8333	0.6959			
1369	trait variation	-0.7147	0.543	5	29	38
4	2015.75 20.5	0.406				
1372	trait-environment relationships	-0.9456	0.3298	5		
21	22 3 2016	145.3333	3.0847			
1376	tree	-0.0744	0.2126	1	30	5
2016.8	31 0.7562					
1379	tree growth	0.5764	-0.0399	1	17	19
3	2017.3333	14	1.4785			
1380	tree productivity	0.6076	0.3605	1	19	
24	3 2016	17	0.5483			
1389	tropical forest	-0.2438	-0.4399	2	33	37
6	2016.1667	33.3333	1.2598			
1391	tropical forests	-0.7577	-0.4104	2	21	23
5	2017.4 16.6	1.36				
1392	tropical rain-forest	-0.8968	0.6296	5	22	
27	4 2016.5	68	1.9802			
1419	urbanization	0.072	0.5687	3	18	22
3	2016.6667	4	0.0749			
1420	use efficiency	-0.9923	-0.5309	2	14	16
3	2016 45	0.8702				
1423	variability	0.2809	-0.7683	6	21	29
4	2017.5 6.75	1.0533				
1425	vascular plants	-0.1258	0.596	4	23	30
4	2015.5 35	1.4745				
1428	vegetation	0.0479	0.3049	7	81	174
24	2017.3333	11.25	1.0047			
1430	vegetation change	0.0285	-1.0134	7	23	
28	4 2017.25	3.25	1.146			
1432	vegetation dynamics	-0.1328	-0.3815	2	33	
37	7 2014.2857	51	0.7073			
1439	vegetation structure	0.3087	-0.0565	1	26	
35	5 2016.4	7.6	0.5665			
1445	vulnerability	-0.43	-0.6425	2	13	16
3	2018.3333	6.3333	1.5755			
1470	wide-range	-0.6737	0.6405	5	55	117
13	2014.4615	128.4615	1.1339			
1476	wood density	-0.3845	0.0432	2	38	47
7	2017 34.4286	1.7				
1485	woody-plants	-0.7019	0.244	5	49	87
11	2014.8182	64.0909	1.2692			

1487	worldwide		-0.1673	-0.7731	7	30	40
5	2015.2	28.4	0.5695				
1488	xylem	-0.6385	-0.6601	2	12	14	3
2018	39	3.2033					