

Supporting information to the paper

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Online Resource 4. Trait values of species found across all plots. Dashes indicate missing trait values, NAs represent traits which were not physiologically relevant for a given species

Species	Growth form	SDM (g)	Hmax (m)	SSD (g/cm ³)	SLA (cm ² /g)
<i>Acacia confusa</i>	tree	0.026	15	0.712908	79.11
<i>Acacia koa</i>	tree	0.061	43	0.7387	51.83967
<i>Adenanthera microsperma</i>	tree	0.0495	15	0.64	-
<i>Adenophorus tamariscinus</i> var. <i>tamariscinus</i>	fern	NA	0.2	NA	53.595213
<i>Adiantum hispidulum</i>	fern	NA	0.52	NA	87.173414
<i>Ageratina adenophora</i>	herb	0.000074	1.5	0.3276308	155.5
<i>Ageratina riparia</i>	herb	0.00007	0.8	0.401	220.118
<i>Ageratum conyzoides</i>	herb	0.00014	1.5	0.199	276.356
<i>Aleurites moluccanus</i>	tree	2.857	15.24	0.368508	111.11
<i>Alyxia stellata</i>	vine	0.5291	NA	0.59	125.307
<i>Andropogon virginicus</i>	grass/sedge	0.000292	0.4318	NA	184.72727
<i>Antidesma platyphyllum</i>	tree	0.0841	15	0.4215773	176.03542
<i>Ardisia crenata</i>	shrub	0.0361	1.5	0.5112917	108.62261
<i>Ardisia elliptica</i>	tree	0.04	4	0.62	56.85
<i>Arundina graminifolia</i>	herb	NA	2.5	0.31	124.66
<i>Asparagus densiflorus</i>	herb	0.048	0.6	0.4108827	NA
<i>Asplenium contiguum</i>	fern	NA	0.8	NA	152.78252
<i>Asplenium kaulfussii</i>	fern	NA	0.85	NA	-
<i>Asplenium macraei</i>	fern	NA	0.4	NA	-
<i>Asplenium nidus</i>	fern	NA	2	NA	122.86671
<i>Athyrium microphyllum</i>	fern	NA	0.9	NA	-
<i>Bidens pilosa</i>	herb	0.00036	1.8	0.4534326	170
<i>Bidens torta</i>	herb	0.0016	2.5	0.225957	214.36881
<i>Bischofia javanica</i>	tree	0.0106	18.7	0.59	98
<i>Blechnum appendiculatum</i>	fern	NA	0.6	NA	154.21556
<i>Broussonetia papyrifera</i>	shrub	0.0022	20	0.29	185.465
<i>Buddleja asiatica</i>	shrub/tree	0.00065	7	0.28	253.81
<i>Caesalpinia bonduc</i>	sprawling shrub	2.108	NA	0.3408521	192.56498
<i>Carex meyenii</i>	grass/sedge	0.0008	0.7	NA	105.571
<i>Carex wahuensis</i>	grass/sedge	0.00088	1	NA	123.24

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Species	Growth form	SDM (g)	Hmax (m)	SSD (g/cm ³)	SLA (cm ² /g)
<i>Casuarina equisetifolia</i>	tree	0.003	35	0.75768	NA
<i>Cenchrus ciliaris</i>	grass/sedge	0.0012	0.9144	NA	118.34
<i>Centella asiatica</i>	herb	0.001501	0.2	NA	186.99
<i>Chamaecrista nictitans</i>	herb	0.00443	2	0.325037	108.61986
<i>Charpentiera obovata</i>	tree	0.00085	6	0.48	-
<i>Christella dentata</i>	fern	NA	1	NA	252.45576
<i>Christella parasitica</i>	fern	NA	0.9	NA	221.48217
<i>Chrysopogon aciculatus</i>	grass/sedge	0.00012	0.25	NA	167.33641
<i>Cibotium chamissoi</i>	fern	NA	7.0104	NA	182.8
<i>Cinnamomum burmannii</i>	tree	0.02936	20	0.43	89.05
<i>Citharexylum spinosum</i>	tree	0.13563	11.8872	0.7	99.028153
<i>Clidemia hirta</i>	shrub	0.00003	3	0.5943214	246.333
<i>Coccinia grandis</i>	vine	0.01246	NA	0.1238358	412.46472
<i>Cocculus orbiculatus</i>	vine	0.06597	NA	0.4954155	202.54334
<i>Coffea arabica</i>	tree	0.1323	4	0.6000554	178.77449
<i>Colubrina oppositifolia</i>	tree	0.038	13	0.7	NA
<i>Coprosma foliosa</i>	shrub	0.03258	8	0.5884041	153.89327
<i>Cordyline fruticosa</i>	shrub	0.00815	3.048	0.3266947	165.1586
<i>Crotalaria pallida</i>	herb	0.00969	2	0.3626614	95.333717
<i>Cuphea carthagenensis</i>	herb	0.0007	0.05	-	-
<i>Cuscuta sandwicensis</i>	vine	0.0009733	NA	0.752	NA
<i>Cyperus hypochlorus</i>	grass/sedge	0.0003	1.3	NA	105.152
<i>Cyperus meyenianus</i>	grass/sedge	0.002	0.5	NA	205.2387
<i>Cyperus sp.</i>	grass/sedge	0.0002	0.97	NA	103.367
<i>Cyrtomium falcatum</i>	fern	NA	0.6	NA	-
<i>Deparia petersenii</i>	fern	NA	0.6	NA	278.10276
<i>Desmodium incanum</i>	herb	0.0074	3.048	1.067	270.43942
<i>Dianella sandwicensis</i>	herb	0.0093	2	NA	63.301392
<i>Dicranopteris linearis</i>	fern	NA	NA	NA	112
<i>Diellia falcata</i>	fern	NA	0.95	NA	NA
<i>Diospyros hillebrandii</i>	tree	0.2032	10	0.626	89.66
<i>Diospyros sandwicensis</i>	tree	0.19	15	0.713	16.398
<i>Diplazium sandwicianum</i>	fern	NA	1.5	NA	227
<i>Diplopterygium pinnatum</i>	fern	NA	NA	NA	62.951381
<i>Dodonaea viscosa</i>	shrub	0.0059	5	0.84	93.197
<i>Doodia kunthiana</i>	fern	NA	0.65	NA	130.61436
<i>Dracaena halaapepe</i>	tree	0.30004	10	0.3548027	64.419528
<i>Dryopteris fusco-atra</i>	fern	NA	0.8	NA	-

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<i>Dryopteris glabra</i>	fern	NA	1	NA	-
<i>Dryopteris sandwicensis</i>	fern	NA	1.25	NA	-
<i>Elaeocarpus bifidus</i>	tree	0.95	10	0.48	101.94
<i>Elaphoglossum aemulum</i>	fern	NA	0.45	NA	61.539143
<i>Elaphoglossum alatum</i>	fern	NA	0.6	NA	95
<i>Emilia sonchifolia</i>	herb	0.0001571	1	0.2351619	238.139
<i>Epidendrum x obrieniatum</i>	herb	NA	1.3	NA	76.302648
<i>Erigeron bonariensis</i>	herb	0.000002	1.5	0.3077823	187.94499
<i>Erythrina sandwicensis</i>	tree	0.54304	9.144	0.19	148.528
<i>Euphorbia multiformis</i>	shrub	0.00096	3	0.4729664	145.94565
<i>Falcataria moluccana</i>	tree	0.022	40	0.28413	108.6
<i>Ficus microcarpa</i>	tree	0.00034	20	0.52	67.3
<i>Fraxinus uhdei</i>	tree	0.02749	28	0.52	66.38
<i>Freycinetia arborea</i>	climber	NA	NA	0.2303147	74.532518
<i>Gahnia beecheyi</i>	grass/sedge	0.0058	1.2	NA	60.355689
<i>Grevillea robusta</i>	tree	0.00649	30.48	0.538	98
<i>Heterotis rotundifolia</i>	herb	0.00032	0.2	0.63	165.59
<i>Hibiscus arnottianus</i>	tree	0.0159272	10	0.4262	231.37
<i>Hibiscus tiliaceus</i>	tree	0.0156	5	0.43	100.736
<i>Hymenophyllum lanceolatum</i>	fern	NA	0.16	NA	102.38821
<i>Hyptis pectinata</i>	herb	0.00006	2.5	-	-
<i>Ilex anomala</i>	tree	0.00832	12	0.48	143.50702
<i>Kadua acuminata</i>	shrub	8.1667E-05	4	-	152.91
<i>Kadua affinis</i>	shrub	0.016	5	0.4185777	132.3933
<i>Korthalsella taenioides f. taenioides</i>	Parasitic epiphyte	0.00068	NA	0.4207642	NA
<i>Lantana camara</i>	shrub	0.009	4	0.6936	190.198
<i>Lepisorus thunbergianus</i>	fern	NA	0.35	NA	103.70773
<i>Leptecophylla tameiameia</i>	shrub	0.00534	5	0.74	155.84335
<i>Leucaena leucocephala</i>	tree	0.0339	10.0584	0.7	133.73
<i>Lindsaea ensifolia</i>	fern	NA	0.17	NA	100.63014
<i>Lycopodium venustulum</i>	fern ally	NA	NA	-	NA
<i>Macadamia integrifolia</i>	tree	4.27665	18	0.58	84.407117
<i>Machaerina angustifolia</i>	grass/sedge	0.0002	1.3	NA	82.236923
<i>Machaerina mariscoides</i>	grass/sedge	0.0022	0.9	NA	63.006116
<i>Mangifera indica</i>	tree	4.5	30	0.543291	83.133
<i>Megathyrsus maximus</i>	grass/sedge	0.000759	3	NA	128.38482
<i>Melaleuca quinquenervia</i>	tree	0.0003125	30	0.6145734	78.792622

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<i>Melicope cornuta</i> var. <i>decurrens</i>	shrub	0.01	7	0.4546	71.429
<i>Melicope oahuensis</i>	shrub	0.01	7	0.5523573	78.909411
<i>Melinis minutiflora</i>	grass/sedge	0.00011	1	NA	256
<i>Metrosideros polymorpha</i>	tree	0.000012	30	0.7614	63.095734
<i>Metrosideros tremuloides</i>	tree	3.5922E-05	30	0.72	111.23
<i>Microlepia strigosa</i>	fern	NA	1	NA	205.6585
<i>Mirabilis jalapa</i>	herb	0.0571	1.5	0.0904803	308.58421
<i>Morinda citrifolia</i>	tree	0.015	6.096	0.56	166.67
<i>Myrsine lessertiana</i>	tree	0.067	8	0.53	64.565423
<i>Nephrolepis brownii</i>	fern	NA	1	NA	124.59061
<i>Nephrolepis exaltata</i>	fern	NA	1	NA	97.578676
<i>Nestegis sandwicensis</i>	tree	0.511	25	0.6924844	122.38151
<i>Neurolaena lobata</i>	shrub	0.001	4	0.329	260.74
<i>Odontosoria chinensis</i>	fern	NA	0.8	NA	123.31003
<i>Ophioglossum pendulum</i> subsp. <i>Falcatum</i>	fern	NA	0.4	NA	170.37
<i>Oplismenus hirtellus</i>	grass/sedge	0.00128	0.25	NA	203.4
<i>Osteomeles anthyllidifolia</i>	sprawling shrub	0.13321	3.6576	0.659	65.485
<i>Oxalis corniculata</i> var. <i>debilis</i>	herb	0.00001	0.2	1.3189286	524.95504
<i>Pandanus tectorius</i>	tree	0.61	10	0.3309	40
<i>Paspalum conjugatum</i>	grass/sedge	0.00055	0.6	NA	194.6425
<i>Paspalum scrobiculatum</i>	grass/sedge	0.0019	1.2	NA	168.2869
<i>Paspalum urvillei</i>	grass/sedge	0.0004	2.5	NA	166.60485
<i>Passiflora edulis</i>	vine	0.01546	NA	0.2636113	255.29084
<i>Passiflora suberosa</i>	vine	0.003	NA	0.935	244.534
<i>Peperomia membranacea</i>	herb	0.000055	0.8	0.1153269	275.74353
<i>Peperomia tetraphylla</i>	succulent	0.0001111	0.4	0.069	261.74303
<i>Phlebodium aureum</i>	fern	NA	1	NA	111.73
<i>Phlegmarius phyllanthus</i>	fern ally	NA	0.35	0.2823273	NA
<i>Phymatosorus grossus</i>	fern	NA	0.75	NA	96.825759
<i>Pipturus albidus</i>	tree	0.00002	6	0.3	78.082299
<i>Pisonia brunoniana</i>	tree	0.3767	6	0.3014	70.9
<i>Pittosporum glabrum</i>	tree	0.03125	8	0.57	-
<i>Pityrogramma calomelanos</i> var. <i>austroamericana</i>	fern	NA	0.9	NA	52.25884
<i>Planchonella sandwicensis</i>	tree	1.606	24.384	0.5145418	113.76585

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Species	Growth form	seed mass (g)	max height (m)	SSD (g/cm ³)	SLA (cm ² /g)
<i>Polyscias oahuensis</i>	tree	-	10	0.41	-
<i>Polyscias sandwicensis</i>	tree	0.00301	30	0.41	221.20985
<i>Polystachya concreta</i>	herb	5.64E-07	0.04	NA	-
<i>Psidium cattleianum</i>	tree	0.0923	8	1.12	79.153
<i>Psidium guajava</i>	tree	0.01262	7.62	0.67	106.764
<i>Psilotum complanatum</i>	fern ally	NA	0.65	0.3512774	NA
<i>Psilotum nudum</i>	fern ally	NA	0.6	0.2865777	NA
<i>Psychotria hathewayi</i>	shrub	0.0313	8	0.5245205	110.6563
<i>Psychotria hexandra</i>	tree	0.00977	6	0.52	-
<i>Psychotria kaduana</i>	tree	0.05328	8	0.5509481	101.03399
<i>Psychotria mariniana</i>	tree	0.0975	20	0.4399203	80.906248
<i>Psydrax odorata</i>	tree	0.0551	15	0.86961	54.328334
<i>Pteridium aquilinum</i> var. <i>decompositum</i>	fern	NA	2	NA	167.0856
<i>Pterolepis glomerata</i>	herb	0.00004	0.5	0.0568556	653.37726
<i>Rhyncospora caduca</i>	grass/sedge	0.0004489	1.2	NA	189.73
<i>Rivina humilis</i>	shrub	0.0038	1.2	0.386	441.958
<i>Rubus argutus</i>	shrub	0.002779	3	0.479	187.4
<i>Rubus rosifolius</i>	shrub	0.0006	1	0.1830482	164.32828
<i>Sacciolepis indica</i>	grass/sedge	0.00032	0.5	NA	81.35
<i>Santalum freycinetianum</i>	tree	0.02777	13	0.7594	82.3
<i>Sapindus oahuensis</i>	tree	0.803	15	0.566	105.71511
<i>Scaevola gaudichaudiana</i>	shrub	0.01569	3	0.333	130.15508
<i>scaevola mollis</i>	shrub	0.024	2.5	0.500	106.04
<i>Schefflera actinophylla</i>	tree	0.006719	15	0.41328	48.72
<i>Schinus terebinthifolius</i>	tree	0.0181	13	0.411	78.431
<i>Setaria palmifolia</i>	grass/sedge	0.0006	2	NA	230.68434
<i>Setaria parviflora</i>	grass/sedge	0.00044	1.2	NA	343.41332
<i>Sida fallax</i>	herb	0.002233	3	0.483	168.336
<i>Smilax melastomifolia</i>	vine	0.0536432	NA	0.3887888	136.97538
<i>Spathodea campanulata</i>	tree	0.00515	25	0.31	354.8
<i>Spathoglottis plicata</i>	herb	NA	1.5	NA	154.18049
<i>Stachytarpheta cayennensis</i>	herb	0.00099	2	0.3509181	202.47173
<i>Streblus pendulinus</i>	tree	0.015175	8	0.7114	-
<i>Syzygium cumini</i>	tree	0.1132	18.288	0.65436	70.035014
<i>Toona ciliata</i>	tree	0.00567	30	0.43	128.0407
<i>Trichomanes cyrtotheca</i>	fern	NA	0.37	NA	168.25273
<i>Trichomanes davalloides</i>	fern	NA	0.45	NA	-

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<i>Triumfetta semitriloba</i>	shrub	0.0383	2	-	-
<i>Viola chamissoniana</i>	shrub	0.00174	0.9	NA	NA
<i>Waltheria indica</i>	herb	0.00169	1.3	0.4951833	132.77551
<i>Wikstroemia oahuensis</i>	shrub	0.0238363	6	0.441	94.45
<i>Xylosma hawaiiensis</i>	tree	0.045073	9	0.593	90.5
<i>Youngia japonica</i>	herb	0.0001037	0.9	NA	367.55065
<i>Zingiber zerumet</i>	herb	-	2	NA	353.00282