Supplementary Table 3 | List of 398 Leguminosae species present in 42 Neotropical chronosequences, their current⁴⁵ (and previous⁴⁶) subfamily classification, their potential to form symbioses with N-fixing bacteria, leaf type, and average (and standard deviation) leaflet length and width (cm).

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
Abarema adenophora	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	5.03 ± 1.45	3.44 ± 1.12
Abarema aggregatum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate		
Abarema barbouriana	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.93 ± 0.45	0.43 ± 0.19
Abarema cochleata	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	4.84 ± 1.26	2.44 ± 0.42
Abarema jupunba	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.54 ± 1.18	1.5 ± 0.7
Abarema macradenia	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.66 ± 0.77	1.14 ± 0.43
Abarema turbinata	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	9.8 ± 2.94	3.84 ± 1.2
Acacia pennatula	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.18 ± 0.04	0.06 ± 0.03
Acosmium cardenasii	Papilionoideae	Yes	pinnate	1.26 ± 0.41	0.41 ± 0.11
Acosmium lentiscifolium	Papilionoideae	Yes	pinnate	3.23 ± 1.75	1.16 ± 0.53
Albizia adinocephala	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	4.41 ± 1.52	1.44 ± 0.36
Albizia leucocalyx	Caesalpinioideae (Mimosoideae)	Yes	bipinnate		
Albizia niopoides	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.67 ± 0.31	0.13 ± 0.05
Albizia occidentalis	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.8 ± 0.39	3.23 ± 0.79
Albizia polycephala	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.63 ± 0.19	0.27 ± 0.09
Albizia tomentosa	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.14 ± 0.14	0.44 ± 0.05

Species	Subfamily	Potential		Leaflet	Leaflet
Species	Subtaining	to fix N2	Leaf type	length	width
Alexa grandiflora	Papilionoideae	No	pinnate	4.95 ± 2.28	2.99 ± 1.45
Amburana cearensis	Papilionoideae	No	pinnate	9.94 ± 5.47	4.02 ± 1.72
Anadenanthera	Caesalpinioideae	Yes	himimasta	0.40 ± 0.14	0.12 + 0.04
colubrina	(Mimosoideae)		bipinnate	0.48 ± 0.14	0.13 ± 0.04
Andira inermis	Papilionoideae	Yes	pinnate	7.23 ± 1.14	2.66 ± 0.63
Andira legalis	Papilionoideae	Yes	pinnate	10.95 ± 3.27	5.04 ± 1.93
Andira lewisii	Papilionoideae	Yes	pinnate		
Andira multistipula	Papilionoideae	Yes	pinnate	7.97 ± 3.15	2.73 ± 1.04
Andira parviflora	Papilionoideae	Yes	pinnate	3.9 ± 1.14	1.76 ± 0.34
Apoplanesia paniculata	Papilionoideae	No	pinnate	3.35 ± 1.11	1.29 ± 0.25
Apuleia leiocarpa	Dialioideae (Caesalpinioideae)	No	pinnate	3.39 ± 0.86	1.71 ± 0.33
Arapatiella psilophylla	Caesalpinioideae	No	pinnate	7.89 ± 1.44	3.51 ± 0.66
Ateleia cubensis	Papilionoideae	Yes	pinnate	3.22 ± 0.97	1.52 ± 0.27
Ateleia herbert-smithii	Papilionoideae	Yes	pinnate	6.98 ± 1.09	3.46 ± 0.45
Balizia elegans	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.45 ± 0.08	0.15 ± 0.03
Balizia leucocalix	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.57 ± 0.54	1.37 ± 0.37
Balizia pedicellaris	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.67 ± 0.13	0.21 ± 0.04
Batesia floribunda	Caesalpinioideae	No	pinnate	11.35 ± 2.51	4.87 ± 0.92
Bauhinia acreana	Cercidoideae (Caesalpinioideae)	No	unifoliolate	7.7 ± 1.13	6.02 ± 1.56
Bauhinia acuruana	Cercidoideae (Caesalpinioideae)	No	unifoliolate	6.21 ± 2.4	4.03 ± 1.12
Bauhinia brevipes	Cercidoideae (Caesalpinioideae)	No	unifoliolate	4.31 ± 0.95	2.32 ± 0.49
Bauhinia cheilantha	Cercidoideae (Caesalpinioideae)	No	unifoliolate	7.72 ± 1.78	7.6 ± 1.4
Bauhinia divaricata	Cercidoideae (Caesalpinioideae)	No	unifoliolate	5.87 ± 2.97	6.51 ± 1.54
Bauhinia guianensis	Cercidoideae (Caesalpinioideae)	No	bifoliolate	11.19 ± 3.93	3.79 ± 0.59

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
Bauhinia longicuspis	Cercidoideae (Caesalpinioideae)	No	unifoliolate	12.93 ± 1.74	6 ± 2.23
Bauhinia	Cercidoideae	N	.01.1	17 47 : 1 71	7.22 + 1.04
melastomatoides	(Caesalpinioideae)	No	unifoliolate	17.47 ± 1.71	7.33 ± 1.04
Bauhinia ovata	Cercidoideae (Caesalpinioideae)	No	unifoliolate	7.72 ± 0.9	4.83 ± 0.9
Bauhinia pauletia	Cercidoideae (Caesalpinioideae)	No	unifoliolate	4.04 ± 1.08	4.23 ± 1.46
Bauhinia rufa	Cercidoideae (Caesalpinioideae)	No	unifoliolate	8.42 ± 2.34	7.64 ± 1.81
Bauhinia ungulata	Cercidoideae (Caesalpinioideae)	No	unifoliolate	8.42 ± 4.32	6.17 ± 3.06
Bowdichia virgilioides	Papilionoideae	Yes	pinnate	3.36 ± 0.82	1.42 ± 0.56
Caesalpinia caladenia	Caesalpinioideae	No	bipinnate	1.67 ± 0.45	0.92 ± 0.26
Caesalpinia coriaria	Caesalpinioideae	No	bipinnate	0.45 ± 0.08	0.15 ± 0.02
Caesalpinia eriostachys	Caesalpinioideae	No	bipinnate	0.95 ± 0.21	0.45 ± 0.06
Caesalpinia exostemma	Caesalpinioideae	No	bipinnate	1.73 ± 0.44	0.86 ± 0.17
Caesalpinia ferrea	Caesalpinioideae	No	bipinnate	1.66 ± 0.51	0.89 ± 0.26
Caesalpinia floribunda	Caesalpinioideae	No	bipinnate	0.72 ± 0.13	0.4 ± 0.04
Caesalpinia gaumeri	Caesalpinioideae	No	bipinnate	1.68 ± 0.35	0.98 ± 0.22
Caesalpinia mollis	Caesalpinioideae	No	bipinnate	4.46 ± 1.32	1.89 ± 0.27
Caesalpinia platyloba	Caesalpinioideae	No	bipinnate	3.35 ± 1.06	1.55 ± 0.2
Caesalpinia pyramidalis	Caesalpinioideae	No	bipinnate	1.96 ± 0.36	1.22 ± 0.17
Caesalpinia sclerocarpa	Caesalpinioideae	No	bipinnate	1.61 ± 0.56	0.87 ± 0.32
Caesalpinia yucatanensis	Caesalpinioideae	No	bipinnate	3.08 ± 0.86	1.46 ± 0.44
Calliandra formosa	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.69 ± 0.23	0.31 ± 0.08
Calliandra grandiflora	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.39 ± 0.18	0.11 ± 0.04
Cassia fastuosa	Caesalpinioideae	No	pinnate	3.78 ± 0.8	1.01 ± 0.15
	Caesalpinioideae	No	pinnate	2.74 ± 0.5	0.86 ± 0.09
Cassia ferruginea	Caesaipinioideae	1.0	Pililace	2.71 = 0.5	0.00 0.07

Species	Cl-f	Potential	I and to	Leaflet	Leaflet
Species	Subfamily	to fix N2	Leaf type	length	width
enostigma tocantinum	Caesalpinioideae	No	pinnate	9.55 ± 2.83	3.67 ± 0.76
Centrolobium	Papilionoideae	Yes	pinnate	5.53 ± 1.88	4.08 ± 2.36
icrochaete	Fapinonoideae	1 68	piiiiate	3.33 ± 1.00	4.06 ± 2.30
Centrolobium	Papilionoideae	Yes	pinnate	7.48 ± 1.91	4.38 ± 0.9
clerophyllum	1 apmonoideae	1 65	pililate	7.40 ± 1.91	4.36 ± 0.9
Centrolobium	Papilionoideae	Yes	pinnate	9.75 ± 2.28	5.21 ± 1.33
omentosum	1 apmonoideae	1 65	pililate	9.73 ± 2.28	3.21 ± 1.3
Ceratonia siliqua	Caesalpinioideae	No	pinnate	4.82 ± 0.81	3.17 ± 0.54
Chamaecrista	Caesalpinioideae	Yes	pinnate	5.76 ± 1.27	2.56 ± 0.6
<i>ipoucouita</i>	Caesaipinioideae	1 65	pililate	3.70 ± 1.27	2.30 ± 0.0
Chamaecrista bahiae	Caesalpinioideae	Yes	pinnate	7.63 ± 1.89	4.36 ± 0.8
Chamaecrista duartei	Caesalpinioideae	Yes	pinnate	9.94 ± 2.64	4.37 ± 0.8
Chamaecrista	Caesalpinioideae	Yes	pinnate	5.47 ± 1.28	2.77 ± 0.67
itenorum	Caesarpiniolucae	103	pimate	$J. \forall I \perp 1.20$	2.77 ± 0.07
Chamaecrista	Caesalpinioideae	Yes	pinnate	5.91 ± 2.23	2.46 ± 1
inguensis	Caesarpinioracae	103	pimate	J.71 ± 4.4J	210 ± 1
Chloroleucon dumosum	Caesalpinioideae	Yes	bipinnate	0.77 ± 0.19	0.26 ± 0.1
mor oreacon aumosum	(Mimosoideae)	1 68	o.p.i.ii.u.c	0.77 - 0.17	· · · · · · · · · · · · · · · · · · ·
Chloroleucon	Caesalpinioideae	Yes	bipinnate	0.22 ± 0.1	0.07 ± 0.02
oliolosum	(Mimosoideae)	103	orprimate	0.22 ± 0.1	0.07 ± 0.02
Chloroleucon	Caesalpinioideae	Yes	bipinnate	0.72 ± 0.26	0.29 ± 0.1
nangense	(Mimosoideae)	103	orprimate	0.72 ± 0.20	0.27 ± 0.10
Clathrotropis	Papilionoideae	Yes	pinnate	12.6 ± 4.63	5.14 ± 1.34
nacrocarpa	1 apinonoideae	103	primate	12.0 ± 7.0 <i>3</i>	J.17 4 1.J
Clitoria glaberrima	Papilionoideae	Yes	pinnate	10.06 ± 3.22	5.26 ± 1.55
Cojoba arborea	Caesalpinioideae	Yes	bipinnate	0.59 ± 0.18	0.13 ± 0.03
ojoon ui ooi cu	(Mimosoideae)	103	orprimate	0.57 - 0.10	0.15 4 0.0.
Copaifera langsdorffii	Detarioideae	No	pinnate	3.18 ± 1	1.65 ± 0.44
οραφεια ιαπχρασημι	(Caesalpinioideae)	110	pimate	J.10 ± 1	1.05 ± 0.44
Coursertia ferruginea	Papilionoideae	Yes	pinnate	3.25 ± 0.94	1.87 ± 0.28
Crotalaria maypurensis	Papilionoideae	Yes	pinnate	4.85 ± 1.33	1.54 ± 0.32
Crudia amazonica	Detarioideae (Caesalpinioideae)	No	pinnate	5.37 ± 1.47	1.64 ± 0.34
Dalbergia acuta	Papilionoideae	Yes	pinnate	1.81 ± 0.6	0.63 ± 0.13
- Dalbergia brownei	Papilionoideae	Yes	pinnate	3.99 ± 1.2	2.78 ± 1.18

Species	Subfamily	Potential	Leaf type	Leaflet	Leaflet
Species	Subtaining	to fix N2	Lear type	length	width
Dalbergia cearensis	Papilionoideae	Yes	pinnate	3.41 ± 0.99	1.77 ± 0.63
Dalbergia congestiflora	Papilionoideae	Yes	pinnate	2.97 ± 0.95	1.6 ± 0.54
Dalbergia glomerata	Papilionoideae	Yes	pinnate	4.32 ± 1.19	1.92 ± 0.44
Dalbergia monetaria	Papilionoideae	Yes	pinnate	8.05 ± 3.1	4.86 ± 1.19
Dalbergia retusa	Papilionoideae	Yes	pinnate	6.36 ± 2.1	3.11 ± 1.18
Dalbergia spruceana	Papilionoideae	Yes	pinnate	2.96 ± 0.88	1.26 ± 0.22
Dalbergia stevensonii	Papilionoideae	Yes	pinnate	6.46 ± 0.47	3.08 ± 0.21
Dialium guianense	Dialioideae (Caesalpinioideae)	No	pinnate	7.94 ± 3.08	3.45 ± 0.74
Diphysa americana	Papilionoideae	Yes	pinnate	2.49 ± 0.48	1.33 ± 0.19
Diphysa carthagenensis	Papilionoideae	Yes	pinnate	1.04 ± 0.3	0.51 ± 0.2
Diphysa robinioides	Papilionoideae	Yes	pinnate	2.19 ± 0.43	0.8 ± 0.11
Diphysa yucatanensis	Papilionoideae	Yes	pinnate	3.16 ± 0.84	1.74 ± 0.5
Diplotropis ferruginea	Papilionoideae	Yes	pinnate	5.35 ± 1.63	2.68 ± 0.34
Diplotropis incexis	Papilionoideae	Yes	pinnate	5.87 ± 1.3	2.79 ± 0.25
Diplotropis martiusii	Papilionoideae	Yes	pinnate	10.51 ± 3.01	4.34 ± 1.15
Diplotropis purpurea	Papilionoideae	Yes	pinnate	7.89 ± 2.31	4.49 ± 0.97
Diplotropis triloba	Papilionoideae	Yes	pinnate	8.02 ± 1.37	4.17 ± 0.82
Dipteryx odorata	Papilionoideae	No	pinnate	13.37 ± 2.89	5.68 ± 0.78
Dipteryx oleifera	Papilionoideae	No	pinnate		
Dipteryx panamensis	Papilionoideae	No	pinnate	11.47 ± 1.73	5.14 ± 0.58
Diptychandra aurantiaca	Caesalpinioideae	No	pinnate	4.16 ± 1.06	1.89 ± 0.39
Dussia macroprophyllata	Papilionoideae	Yes	pinnate	9.98 ± 2.63	5.93 ± 1.09
Enterolobium contortisiliquum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.62 ± 0.66	0.53 ± 0.21
Enterolobium	Caesalpinioideae				
cyclocarpum	(Mimosoideae)	Yes	bipinnate	0.93 ± 0.28	0.25 ± 0.05
Enterolobium	Caesalpinioideae				
schomburgkii	(Mimosoideae)	Yes	bipinnate	0.25 ± 0.08	0.05 ± 0.02
Erythrina berteroana	Papilionoideae	Yes	pinnate	8.06 ± 0.75	5.22 ± 1.13
Erythrina costaricensis	Papilionoideae	Yes	pinnate	9.02 ± 0.31	5.66 ± 0.84
Erythrina folkersii	Papilionoideae	Yes	pinnate	7.76 ± 2.32	6.84 ± 1.39
Erythrina standleyana	Papilionoideae	Yes	pinnate		

Species	Potential Leaflet Lea		Leaflet		
Species	Subfamily	to fix N2	Leaf type	length	width
Exostyles venusta	Papilionoideae	No	pinnate	2.95 ± 1.09	1.38 ± 0.29
Gliricidia maculata	Papilionoideae	Yes	pinnate		
Gliricidia sepium	Papilionoideae	Yes	pinnate	5.4 ± 1.38	2.79 ± 0.84
Goniorrhachis	Detarioideae	No	pinnate	4.13 ± 1.05	1.85 ± 0.23
marginata	(Caesalpinioideae)	NO	pinnate	4.13 ± 1.03	1.83 ± 0.23
Haematoxylum	Caesalpinioideae	No	ninnata	2.59 ± 3.61	0.72 ± 0.12
brasiletto	Caesarpinioideae	NO	pinnate	2.39 ± 3.01	0.72 ± 0.12
Haematoxylum	Cassalninisidasa	No	pinnate	1.67 ± 0.28	1.4 ± 0.16
campechianum	Caesalpinioideae	NO	pinnate	1.07 ± 0.28	1.4 ± 0.10
Harleyodendron	Danilianaidasa	No	unifoliolate	26.31 ± 5.4	7.51 ± 1.27
unifoliolatum	Papilionoideae	NO	uninonoiate	20.31 ± 3.4	7.31 ± 1.27
Havardia albicans	Caesalpinioideae	Yes	bipinnate	0.59 ± 0.12	0.15 ± 0.02
maraia dibicans	(Mimosoideae)	168	oipiiliate	0.39 ± 0.12	0.13 ± 0.02
Havardia	Caesalpinioideae	Yes	bipinnate	0.26 ± 0.08	0.07 ± 0.03
campylacantha	(Mimosoideae)	103	orprimate	0.20 ± 0.08	0.07 ± 0.03
Hymenaea courbaril	Detarioideae	No	pinnate	7.32 ± 1.19	3.14 ± 0.3
путенией соигойни	(Caesalpinioideae)	110	pinnate	7.52 ± 1.17	J.14 ± 0.5
Hymenaea parvifolia	Detarioideae	No	pinnate	6.97 ± 1.4	3.46 ± 0.8
11ymenaea parvijona	(Caesalpinioideae)	110	pinnate	0.77 ± 1.4	J.40 ± 0.0
Hymenolobium	Papilionoideae	Yes	pinnate	4.56 ± 1.42	1.99 ± 0.45
mesoamericanum	тартопогасас	103	primate	7.50 ± 1.72	1.77 = 0.43
Indigofera fruticosa	Papilionoideae	Yes	pinnate	2.12 ± 0.24	1.16 ± 0.22
Inga acrocephala	Caesalpinioideae	Yes	pinnate	10.52 ± 4	3.99 ± 1.16
mga aeroeephaia	(Mimosoideae)	1 05	pinnate	10.32 = 1	3.77 = 1.10
Inga acuminata	Caesalpinioideae	Yes	pinnate	9.07 ± 2.82	2.76 ± 0.88
mga acammata	(Mimosoideae)	105	piiiiace	7.07 - 2 .02	2.70 - 0.00
Inga aestuariorum	Caesalpinioideae	Yes	pinnate		
inga aestaariorum	(Mimosoideae)	105	piiiiace		
Inga alba	Caesalpinioideae	Yes	pinnate	5.92 ± 2.86	4.12 ± 3.32
mga alou	(Mimosoideae)	105	piiiiace	3.92 - 2.00	1.12 - 3.32
Inga auristellae	Caesalpinioideae	Yes	pinnate	5.66 ± 2.69	2.62 ± 0.81
inga am isicime	(Mimosoideae)	105	piiiiate	5.00 ± 2.07	2.02 ± 0.01
Inga bella	Caesalpinioideae	Yes	pinnate	15.53 ± 3.74	6.82 ± 1.55
IIIEU UEIIU	(Mimosoideae)	103	miniaic		

pecies	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
nga blanchetiana	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.57 ± 3.45	2.15 ± 0.69
nga brachyrhachis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	15.03 ± 4.4	6.79 ± 1.8
nga capitata	Caesalpinioideae (Mimosoideae)	Yes	pinnate	8.3 ± 3.78	3.38 ± 1.56
nga cayennensis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	8.09 ± 3.19	3.6 ± 1.27
nga chartacea	Caesalpinioideae (Mimosoideae)	Yes	pinnate	16.51 ± 3.65	7.45 ± 1.97
ga chocoensis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	15.77 ± 7.06	9.35 ± 3.45
nga chrysantha	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.08 ± 3.48	3.19 ± 1.04
ga cinnamomea	Caesalpinioideae (Mimosoideae)	Yes	pinnate	12.2 ± 3.27	5.02 ± 0.95
nga cocleensis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	11.54 ± 4.08	4.27 ± 1.13
ga coruscans	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.82 ± 4.5	4.29 ± 1.77
ga disticha	Caesalpinioideae (Mimosoideae)	Yes	pinnate	7.85 ± 2.68	2.87 ± 0.74
ga edulis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	8.89 ± 3.51	4.1 ± 1.85
ga filiformis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	17.57 ± 6.36	7.53 ± 1.78
ga flagelliformis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	11.28 ± 2.27	3.46 ± 0.77
ga goldmanii	Caesalpinioideae (Mimosoideae)	Yes	pinnate		
ga gracilifolia	Caesalpinioideae (Mimosoideae)	Yes	pinnate	2.81 ± 0.7	1.11 ± 0.29
ga grandiflora	Caesalpinioideae (Mimosoideae)	Yes	pinnate	13.92 ± 4.39	5.55 ± 1.73

Species	Subfamily	Potential	Leaf type	Leaflet	Leaflet
	-	to fix N ₂	J. 1. J. F. 1	length	width
Inga hayesii	Caesalpinioideae	Yes	pinnate	7.41 ± 1.9	3.56 ± 0.67
0 ,	(Mimosoideae)		1		
Inga heterophylla	Caesalpinioideae	Yes	pinnate	4.89 ± 1.19	1.72 ± 0.41
	(Mimosoideae)		r		
Inga ingoides	Caesalpinioideae	Yes	pinnate	9.32 ± 2.33	4.59 ± 1.2
0 0	(Mimosoideae)		1		
Inga jimenezii	Caesalpinioideae	Yes	pinnate	18.25 ± 5.89	8.09 ± 2.03
	(Mimosoideae)		r		
Inga jinicuil	Caesalpinioideae	Yes	pinnate	8.33 ± 3.2	3.4 ± 1.22
mga jimeun	(Mimosoideae)		F		
Inga lateriflora	Caesalpinioideae	Yes	pinnate	5.89 ± 1.42	2.33 ± 0.69
	(Mimosoideae)	F	0.00 = 1.12	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Inga latibracteata	Caesalpinioideae	Yes	pinnate	8.55 ± 3.93	4.33 ± 1.78
nga tamer accessa	(Mimosoideae)		r		
Inga laurina	Caesalpinioideae	Yes	pinnate	6.12 ± 3	2.76 ± 1.28
nga taarina	(Mimosoideae)	1 45	piiiiace		
Inga leiocalycina	Caesalpinioideae	Yes	pinnate	8.15 ± 3.8	3.38 ± 1.36
gu verseurjemu	(Mimosoideae)		F	0.10 5.0	2.20 1.20
Inga litoralis	Caesalpinioideae	Yes	pinnate	9.82 ± 3.03	4.17 ± 0.93
nga morams	(Mimosoideae)	100	piniate	7.02 ± 3.03	4.17 ± 0.73
Inga lomatophylla	Caesalpinioideae	Yes	pinnate	13.28 ± 4.06	6.92 ± 2.02
nga tomatopnytta	(Mimosoideae)	105	piniace	13.20 ± 4.00	0.72 = 2.02
Inga longiflora	Caesalpinioideae	Yes	pinnate	12.71 ± 4.43	4.07 ± 1.01
	(Mimosoideae)	1 60	P	12.710	, 1.01
Inga luschnathiana	Caesalpinioideae	Yes	pinnate	5.17 ± 2.08	5.47 ± 4.1
inga vasermamana	(Mimosoideae)	100	piniate	2.17 - 2.00	5.17 = 1.1
Inga macrophylla	Caesalpinioideae	Yes	pinnate	12.34 ± 3.13	6.38 ± 1.48
inga macrophytia	(Mimosoideae)	103	piiiiate	12.54 ± 5.15	0.30 ± 1.40
Inga marginata	Caesalpinioideae	Yes	pinnate	9.12 ± 3.25	2.96 ± 0.65
ngu marginuu	(Mimosoideae)	105	phinate	1.14 - 3.43	2.70 ± 0.03
Inga micheliana	Caesalpinioideae	Yes	pinnate	7.33 ± 2.98	3.03 ± 1.43
тда тиспенини	(Mimosoideae)	1 62	piiniate	1.33 4 2.70	J.UJ ± 1.43
Inga microcalyx	Caesalpinioideae	Yes	pinnate	9.76 ± 3.6	5.87 ± 1.92
нда тистосицух	(Mimosoideae)	1 68	piiniate	7.70 ± 3.0	$J.07 \pm 1.92$

Species	Subfamily	Potential	Leaf type	Leaflet	Leaflet
species	Subtaining	to fix N2	Lear type	length	width
Inga mucuna	Caesalpinioideae	Yes	pinnate	12.64 ± 2.17	6 ± 1.14
пди тисипи	(Mimosoideae)	103	piiiiate	12.04 ± 2.17	0 ± 1.14
Inga multijuga	Caesalpinioideae	Yes	pinnate	9.12 ± 4.88	3.52 ± 1.49
inga muuijuga	(Mimosoideae)	165	pililiate	9.12 ± 4.00	3.32 ± 1.49
Inga nobilis	Caesalpinioideae	Yes	pinnate	7.68 ± 2.34	2.94 ± 1.13
inga novilis	(Mimosoideae)	165	pililiate	7.08 ± 2.34	2.94 ± 1.13
Inga obidensis	Caesalpinioideae	Yes	pinnate	9.36 ± 2.54	4.16 ± 0.84
ingu ooiuensis	(Mimosoideae)	165	pililiate	9.30 ± 2.34	4.10 ± 0.64
Inga oerstediana	Caesalpinioideae	Yes	pinnate	9.23 ± 3.17	4.63 ± 2.39
	(Mimosoideae)	1 68	piiniate	7.43 ± 3.1 /	4.03 ± 2.39
Inga paraensis	Caesalpinioideae	Yes	pinnate	10.18 ± 3.2	4.99 ± 1.18
	(Mimosoideae)	1 68	piiniate	10.10 ± 3.2	4.77 ± 1.10
Inga pauciflora	Caesalpinioideae	Yes	pinnate	9.47 ± 3.85	4.33 ± 1.52
inga paucijiora	(Mimosoideae)		piiiiate	7.47 ± 3.63	4.33 ± 1.32
Inga pavoniana	Caesalpinioideae	Yes	pinnate	12.77 ± 4.68	6.25 ± 2.89
	(Mimosoideae)		piiiiate	12.77 ± 4.08	0.23 ± 2.69
laga noririfaya	Caesalpinioideae	Yes	pinnate	10.54 ± 3.95	4.58 ± 1.09
Inga pezizifera	(Mimosoideae)	165		10.54 = 5.75	4.50 ± 1.07
Inga pilosula	Caesalpinioideae	Yes	pinnate	10.2 ± 3.75	4.51 ± 1.37
inga piiosuia	(Mimosoideae)	165		10.2 ± 3.73	4.31 ± 1.37
Inga plajogyna	Caesalpinioideae	Yes	pinnate	15.81 ± 4.8	7.06 ± 2.06
Inga pleiogyna	(Mimosoideae)	165	pililiate	13.81 ± 4.8	7.00 ± 2.00
Inga nortoballansis	Caesalpinioideae	Yes	pinnate		
Inga portobellensis	(Mimosoideae)	1 62	piiniate		
Inga minetata	Caesalpinioideae	Yes	pinnate	10.84 ± 4.49	5.26 ± 2.26
Inga punctata	(Mimosoideae)	1 68	piiniate	10.04 ± 4.49	$J.20 \pm 2.20$
Inga mihiginasa	Caesalpinioideae	Yes	pinnate	9.36 ± 3.3	4.91 ± 1.84
Inga rubiginosa	(Mimosoideae)	1 68	piimate	7.30 ± 3.3	4.71 ± 1.84
Inga migiana	Caesalpinioideae	Vac	ninnota	15.63 ± 5.45	7.29 ± 2.4
Inga ruiziana	(Mimosoideae)	Yes	pinnate	13.03 ± 3.43	1.29 ± 2.4
Inga sanje di si J	Caesalpinioideae	Vac	ninnoto		
Inga sapindioides	(Mimosoideae)	Yes	pinnate		
Inga sertulifera	Caesalpinioideae	Yes		10.50 ± 2.67	4.62 + 1.01
		Yes	pinnate	10.58 ± 3.67	4.63 ± 1.91

Species	Subfamily	Potential	Leaf type	Leaflet	Leaflet
1		to fix N ₂	Dear type	length	width
Inga spectabilis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	11.68 ± 4.77	5.99 ± 2.9
Inga stipularis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	11.96 ± 2.58	5.32 ± 1.56
Inga tenuis	Caesalpinioideae (Mimosoideae)	Yes	pinnate	2.17 ± 0.63	0.9 ± 0.18
Inga thibaudiana	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.06 ± 2.86	4.48 ± 1.55
Inga tonduzii	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.54 ± 4.34	5.62 ± 1.92
Inga umbellifera	Caesalpinioideae (Mimosoideae)	Yes	pinnate	7.6 ± 2.57	2.3 ± 0.65
Inga venusta	Caesalpinioideae (Mimosoideae)	Yes	pinnate	11.65 ± 4.49	4.95 ± 2.65
Inga vera	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.36 ± 4.12	3.69 ± 1.62
Leptolobium panamense	Papilionoideae	Yes	pinnate	4.85 ± 1.5	2.1 ± 0.43
Leucaena lanceolata	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.72 ± 1.08	1.14 ± 0.4
Leucaena leucocephala	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.86 ± 0.2	0.19 ± 0.04
Lonchocarpus acuminatus	Papilionoideae	Yes	pinnate	5.74 ± 1.22	3 ± 0.75
Lonchocarpus campestris	Papilionoideae	Yes	pinnate	3.66 ± 1.58	1.56 ± 0.44
Lonchocarpus castilloi	Papilionoideae	Yes	pinnate	4.57 ± 1.13	1.21 ± 0.18
Lonchocarpus costaricensis	Papilionoideae	Yes	pinnate	8.56 ± 3.86	5.27 ± 2.14
Lonchocarpus felipei	Papilionoideae	Yes	pinnate	10.13 ± 4.51	5.9 ± 2.76
Lonchocarpus ferrugineus	Papilionoideae	Yes	pinnate	20.37 ± 4.4	8.84 ± 2.28
Lonchocarpus guatemalensis	Papilionoideae	Yes	pinnate	6.99 ± 2.55	3.15 ± 1.19

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
Lonchocarpus					
heptaphyllus	Papilionoideae	Yes	pinnate	9.68 ± 2.74	4.31 ± 1.46
Lonchocarpus					
hondurensis	Papilionoideae	Yes	pinnate	6.36 ± 2.29	2.91 ± 1.06
Lonchocarpus hughesii	Papilionoideae	Yes	pinnate	1.32 ± 0.25	0.58 ± 0.06
Lonchocarpus	D '1' '1	37	. ,	4.05 + 0.04	1.02 . 0.21
lanceolatus	Papilionoideae	Yes	pinnate	4.85 ± 0.84	1.92 ± 0.31
Lonchocarpus	D11114	3 7			
macrophyllus	Papilionoideae	Yes	pinnate		
Lonchocarpus	Danilianaidasa	Yes	pinnate	3.48 ± 1.69	1.65 ± 0.77
minimiflorus	Papilionoideae	1 68	piiniate	3.40 ± 1.09	1.03 ± 0.77
Lonchocarpus	Papilionoideae	Yes	pinnate		
montanus	Fapinonoideae	1 68	piiiiate		
Lonchocarpus mutans	Papilionoideae	Yes	pinnate	5.44 ± 0.87	2.44 ± 0.44
Lonchocarpus	Papilionoideae	Yes	pinnate	3.45 ± 1.51	1.68 ± 0.71
parviflorus	1 apmonoideae	103	piiiiate	J.43 ± 1.31	1.00 ± 0.71
Lonchocarpus	Papilionoideae	Yes	pinnate	5.74 ± 1.22	3 ± 0.75
peninsularis	1 apmonoidede	103	pinnate	3.74 = 1.22	3 ± 0.73
Lonchocarpus	Papilionoideae	Yes	pinnate	6.46 ± 4.2	4.49 ± 2.66
phaseolifolius	1 apmonoidede	103	pinnate	0.40 ± 4.2	7.77 = 2.00
Lonchocarpus rugosus	Papilionoideae	Yes	pinnate	4.14 ± 1.01	1.6 ± 0.23
Lonchocarpus	Papilionoideae	Yes	pinnate	7.21 ± 1.39	3.19 ± 0.71
salvadorensis	•	- 40	-	,	2.22 0.71
Lonchocarpus sericeus	Papilionoideae	Yes	pinnate	7.94 ± 2.75	3.95 ± 0.97
Lonchocarpus	Papilionoideae	Yes	pinnate		
forresiorum			-		
Lonchocarpus velutinus	Papilionoideae	Yes	pinnate	10.56 ± 4.32	4.32 ± 1.9
Lonchocarpus xuul	Papilionoideae	Yes	pinnate	4.99 ± 1.08	2.28 ± 0.4
Lonchocarpus	Papilionoideae	Yes	pinnate	4.15 ± 1.4	1.88 ± 0.46
rucatanensis	•		•		
Luetzelburgia andrade-	Papilionoideae	No	pinnate		
limae	_		•		
Lysiloma acapulcense	Caesalpinioideae	Yes	bipinnate	0.33 ± 0.09	0.09 ± 0.01
	(Mimosoideae)		-		

Species	Subfamily	Potential Leaf type		Leaflet	Leaflet
1	,	to fix N ₂	J P**	length	width
Lysiloma auritum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.2 ± 0.13	0.35 ± 0.69
Lysiloma divaricatum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.34 ± 0.21	0.13 ± 0.09
Lysiloma latisiliquum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.75 ± 2.57	1.03 ± 1.46
Lysiloma microphyllum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.3 ± 0.08	0.12 ± 0.03
Machaerium acutifolium	Papilionoideae	Yes	pinnate	5.93 ± 0.84	2.75 ± 0.31
Machaerium biovulatum	Papilionoideae	Yes	pinnate	4.02 ± 0.87	2.24 ± 0.35
Machaerium brasiliense	Papilionoideae	Yes	pinnate	4.43 ± 1.16	1.69 ± 0.26
Machaerium hirtum	Papilionoideae	Yes	pinnate	1.47 ± 0.28	0.37 ± 0.06
Aachaerium oehneanum	Papilionoideae	Yes	pinnate	7.26 ± 1.86	2.57 ± 0.3
Machaerium nyctitans	Papilionoideae	Yes	pinnate	2.18 ± 0.51	0.87 ± 0.31
Machaerium pittieri	Papilionoideae	Yes	pinnate		
Aachaerium cleroxylon	Papilionoideae	Yes	pinnate	1.62 ± 0.63	0.64 ± 0.19
Machaerium stipitatum	Papilionoideae	Yes	pinnate	3.03 ± 1.09	1.21 ± 0.56
Machaerium vestitum	Papilionoideae	Yes	pinnate	3.85 ± 0.77	1.6 ± 0.22
Machaerium villosum	Papilionoideae	Yes	pinnate	5.14 ± 1.26	2.14 ± 0.44
Macrolobium costaricense	Detarioideae (Caesalpinioideae)	No	pinnate		
Macrolobium latifolium	Detarioideae (Caesalpinioideae)	No	pinnate	9.42 ± 5.19	4 ± 2.26
Macrolobium limbatum	Detarioideae (Caesalpinioideae)	No	pinnate	14.01 ± 1.2	5.69 ± 0.52
Mariosousa centralis	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.25 ± 0.1	0.1 ± 0.03
Mariosousa usumacintensis	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.39 ± 0.11	0.12 ± 0.03

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
Marmaroxylon	Caesalpinioideae	N ₂	hinimata	1.04 ± 0.22	0.44 ± 0.09
racemosum	(Mimosoideae)	No	bipinnate	1.04 ± 0.22	0.44 ± 0.09
Mimosa acantholoba	Caesalpinioideae	Vaa	himimasta	0.56 ± 0.22	0.14 ± 0.00
var eurycarpa	(Mimosoideae)	Yes	bipinnate	0.36 ± 0.22	0.14 ± 0.09
Mimosa arenosa	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.38 ± 0.13	0.09 ± 0.03
Mimosa bahamensis	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.32 ± 0.09	0.21 ± 0.07
Mimosa tenuiflora	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.5 ± 0.16	0.12 ± 0.02
Moldenhauera blanchetiana	Caesalpinioideae	Yes	pinnate		
Myrospermum frutescens	Papilionoideae	No	pinnate		
Myroxylon peruiferum	Papilionoideae	No	pinnate	5.15 ± 0.98	2.45 ± 0.12
Ormosia amazonica	Papilionoideae	Yes	pinnate	15.47 ± 4.41	7.14 ± 1.59
Ormosia coccinea	Papilionoideae	Yes	pinnate	14.5 ± 4.43	7.35 ± 0.93
Ormosia discolor	Papilionoideae	Yes	pinnate	13.02 ± 3.65	5.12 ± 0.82
Ormosia flava	Papilionoideae	Yes	pinnate	11.01 ± 3.32	4.4 ± 1.48
Ormosia grossa	Papilionoideae	Yes	pinnate	12.48 ± 3.91	7.6 ± 1.72
Ormosia isthmensis	Papilionoideae	Yes	pinnate	10.92 ± 2.89	5.34 ± 0.45
Ormosia krugii	Papilionoideae	Yes	pinnate	15.03 ± 3.01	7.53 ± 1.29
Ormosia macrocalyx	Papilionoideae	Yes	pinnate	9.23 ± 2.2	4.47 ± 0.84
Ormosia macrophylla	Papilionoideae	Yes	pinnate	11.88 ± 2.73	6.54 ± 1.71
Ormosia nobilis	Papilionoideae	Yes	pinnate	16.91 ± 2.77	7.37 ± 0.74
Ormosia paraensis	Papilionoideae	Yes	pinnate	6.02 ± 0.99	3.28 ± 0.76
Ormosia subsimplex	Papilionoideae	Yes	pinnate	11.07 ± 2.77	4.29 ± 0.74
Ormosia velutina	Papilionoideae	Yes	pinnate	8 ± 2.24	4.79 ± 0.92
Parkia bahiae	Caesalpinioideae (Mimosoideae)	No	bipinnate	2.1 ± 0.32	0.49 ± 0.06
Parkia decussata	Caesalpinioideae (Mimosoideae)	No	bipinnate	2.82 ± 0.53	0.73 ± 0.15
Parkia multijuga	Caesalpinioideae (Mimosoideae)	No	bipinnate	0.87 ± 0.13	0.25 ± 0.04

C	Subfamily	Potential	I a - f 4	Leaflet	Leaflet
Species		to fix N2	Leaf type	length	width
Parkia nitida	Caesalpinioideae (Mimosoideae)	No	bipinnate	1.13 ± 0.42	0.31 ± 0.09
Parkia oppositifolia	Caesalpinioideae (Mimosoideae)	No	bipinnate	0.83 ± 0.29	0.3 ± 0.09
Parkia pendula	Caesalpinioideae (Mimosoideae)	No	bipinnate	0.33 ± 0.07	0.08 ± 0.02
Parkinsonia praecox	Caesalpinioideae	No	bipinnate	0.65 ± 0.16	0.25 ± 0.04
Peltogyne pauciflora	Detarioideae (Caesalpinioideae)	No	pinnate	5.64 ± 1.73	2.55 ± 0.75
Peltogyne purpurea	Detarioideae (Caesalpinioideae)	No	pinnate	5.59 ± 0.24	2.33 ± 0.27
Peltogyne venosa	Detarioideae (Caesalpinioideae)	No	pinnate	11.18 ± 1.57	4.43 ± 0.56
Peltophorum dubium	Caesalpinioideae	No	bipinnate	0.67 ± 0.16	0.24 ± 0.07
Pentaclethra macroloba	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.57 ± 0.2	0.22 ± 0.17
Piptadenia constricta	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.91 ± 0.3	0.49 ± 0.17
Piptadenia gonoacantha	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.59 ± 0.19	0.13 ± 0.03
Piptadenia moniliformis	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.21 ± 0.38	0.53 ± 0.13
Piptadenia obliqua	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.38 ± 0.37	0.87 ± 0.23
Piptadenia paniculata	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.95 ± 0.88	1.27 ± 0.35
Piptadenia stipulacea	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.54 ± 0.16	0.09 ± 0.02
Piptadenia viridiflora	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.5 ± 0.1	0.13 ± 0.03
Piscidia carthagenensis	Papilionoideae	Yes	pinnate	6.16 ± 1.29	3.59 ± 1.44
Piscidia piscipula	Papilionoideae	Yes	pinnate	7.6 ± 1.64	4.73 ± 1.46
Pithecellobium arboreum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.94 ± 0.31	0.45 ± 0.3

to fix N2 length width Caesalpinioideae (Mimosoideae) Yes bipinnate 3.14 ± 0.82 1.5 ± 0.31 Caesalpinioideae (Mimosoideae) Yes bipinnate 2.68 ± 0.78 1.28 ± 0.33 Caesalpinioideae (Mimosoideae) Yes bipinnate 2.68 ± 0.78 1.28 ± 0.33 Caesalpinioideae Yes bipinnate 6.97 ± 2.41 3.44 ± 1.43 Caesalpinioideae Yes bipinnate 4.7 ± 0.85 1.55 ± 0.35 Caesalpinioideae Yes bipinnate 6.97 ± 2.41 3.44 ± 1.43 Caesalpinioideae Yes bipinnate 7.5 ± 0.35 Caesalpinioideae Yes bipinnate 7.5 ± 0.35 Caesalpinioideae Yes pinnate 7.5 ± 0.42 Ca	Species	Subfamily	Potential	I acf true	Leaflet	Leaflet	
pinnatum (Mimosoideae) Caesalpinioideae (Mimosoideae) (Ves pinnate (Mimosoideae) (Mimosoideae) (Mimosoideae) (Ves pinnate (Mimosoideae) (Mimosoideae) (Mimosoideae) (Mimosoideae) (Ves pinnate (Mimosoideae) (Mimosoideae) (Mimosoideae) (Mimosoideae) (Mimosoideae) (Ves pinnate (Mimosoideae) (Mimosoideae) (Mimosoideae) (Mimosoideae) (Mimosoideae) (Mimosoideae) (Ves pinnate (Mimosoideae) (Mimosoide	Species		to fix N2	ьеат туре	length	width	
Caesalpinioideae (Mimosoideae) Pathecellobium dulce (Mimosoideae) Caesalpinioideae Caes	Pithecellobium	Caesalpinioideae	Vac	hininnata	2 14 ± 0 92	15 ± 0.21	
pithecellobium dulce (Mimosoideae) Yes bipinnate 2.68 ± 0.78 1.28 ± 0.33 1.29 ± 0.34 $1.29 \pm $	pipinnatum	(Mimosoideae)	ies	oipiiliate	5.14 ± 0.82	1.3 ± 0.31	
(Mimosoideae) Pithecellobium Caesalpinioideae (Mimosoideae) Papilionoideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.08 Pithecellobium Caesalpinioideae Yes pinnate 0.94 ± 0.11 0.41 ± 0.08 Pithecellobium Caesalpinioideae Yes pinnate 0.97 ± 0.42 0.39 ± 0.11 Pithecellobium Caesalpinioideae No pinnate 0.97 ± 2.24 0.99 0.07 ± 0.01 Pithecellobium Caesalpinioideae Yes pinnate 0.97 ± 2.25 0.99 0.07 ± 0.01	Dith and labiner dulas	Caesalpinioideae	Vac	hininnata	2 60 + 0 70	1 20 + 0 22	
pymenaeifolium (Mimosoideae) Pithecellobium (Caesalpinioideae) Pithecellobium (Mimosoideae)	r ипесеновит ашсе	(Mimosoideae)	res	bipinnate	2.08 ± 0.78	1.28 ± 0.33	
Mitheeellohium Caesalpinioideae Yes bipinnate 4.7 ± 0.85 1.55 ± 0.35 Mathymenia reticulata Caesalpinioideae Yes bipinnate Mitheeellohium Caesalpinioideae Yes bipinnate 0.94 ± 0.11 0.41 ± 0.06 Mathymenia reticulata Papilionoideae Yes pinnate 15.34 ± 3.23 15.67 ± 4.88 Matymiscium blanchetii Papilionoideae Yes pinnate 10.76 ± 3.02 4.75 ± 1.08 Matymiscium curuense Papilionoideae Yes pinnate 10.76 ± 3.02 4.75 ± 1.08 Matymiscium Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Matymiscium Papilionoideae Yes pinnate 8.09 ± 2.24 6.88 ± 2.86 Matymiscium Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Matymiscium Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Matymisciu	Pithecellobium	Caesalpinioideae	Vaa	hinimata	6.07 + 2.41	2 44 + 1 42	
three olatum (Mimosoideae) Caesalpinioideae (Mimosoideae) C	hymenaeifolium	(Mimosoideae)	Y es	bipinnate	6.97 ± 2.41	3.44 ± 1.43	
Caesalpinioideae (Mimosoideae) Plathymenia reticulata (Mimosoideae) Plathymenia reticulata (Mimosoideae) Platycyamus regnellii Papilionoideae Yes pinnate 15.34 \pm 3.23 15.67 \pm 4.88 Platymiscium blanchetii Papilionoideae Yes pinnate 10.76 \pm 3.02 4.75 \pm 1.08 Platymiscium curuense Papilionoideae Yes pinnate 10.76 \pm 3.02 4.75 \pm 1.08 Platymiscium Papilionoideae Yes pinnate 6.29 \pm 1.45 2.68 \pm 0.67 Platymiscium Papilionoideae Yes pinnate Papilionoideae Yes pinnate Papilionoideae Yes pinnate Papilionoideae Yes pinnate 8.09 \pm 2.24 6.88 \pm 2.86 Platymiscium Papilionoideae Yes pinnate 6.53 \pm 1.97 3.55 \pm 0.83 Platymiscium Papilionoideae Yes pinnate 10.01 \pm 3.58 4.67 \pm 1.33 Platymiscium Papilionoideae Yes pinnate 6.06 \pm 2.05 2.7 \pm 0.9 Platymiscium Papilionoideae Yes pinnate 7.02 \pm 0.9 Papilionoideae Yes Papilionoideae	Pithecellobium	Caesalpinioideae	W	1	47 + 0.95	1.55 + 0.25	
Mathymenia reticulata (Mimosoideae) Yes bipinnate 0.94 ± 0.11 0.41 ± 0.06 (Mimosoideae) Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 (Mimosoideae) Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 (Mimosoideae) Yes pinnate 0.94 ± 0.11 0.41 ± 0.06 (Mimosoideae) Yes pinnate 0.94 ± 0.12 0.47 ± 0.08 Papilionoideae Yes pinnate 0.94 ± 0.12 0.47 ± 0.08 Papilionoideae Yes pinnate 0.94 ± 0.12 0.47 ± 0.08 Papilionoideae Yes pinnate 0.94 ± 0.12 0.47 ± 0.08 Papilionoideae Yes pinnate 0.94 ± 0.12 0.47 ± 0.08 Papilionoideae Yes pinnate 0.94 ± 0.12 $0.94 $	lanceolatum	(Mimosoideae)	res	oipinnate	4. / ± 0.83	1.33 ± 0.33	
(Mimosoideae) Platycyamus regnellii Papilionoideae Yes pinnate 15.34 \pm 3.23 15.67 \pm 4.88 Platymiscium blanchetii Papilionoideae Yes pinnate 10.76 \pm 3.02 4.75 \pm 1.08 Platymiscium curuense Papilionoideae Yes pinnate 10.76 \pm 3.02 4.75 \pm 1.08 Platymiscium Papilionoideae Yes pinnate 6.29 \pm 1.45 2.68 \pm 0.67 Platymiscium Papilionoideae Yes pinnate Papilionoideae Yes pinnate Papilionoideae Yes pinnate 8.09 \pm 2.24 6.88 \pm 2.86 Platymiscium Papilionoideae Yes pinnate 8.09 \pm 2.24 6.88 \pm 2.86 Platymiscium Papilionoideae Yes pinnate 10.01 \pm 3.55 \pm 0.83 Platymiscium Papilionoideae Yes pinnate 10.01 \pm 3.58 4.67 \pm 1.33 Platymiscium Papilionoideae Yes pinnate 6.06 \pm 2.05 2.7 \pm 0.9 Platymiscium Papilionoideae Yes pinnate 3.27 \pm 0.93 1.56 \pm 0.36 Platymiscium Papilionoideae Yes pinnate 2.89 \pm 0.49 1.14 \pm 0.2 Poccilanthe effusa Papilionoideae Yes pinnate 1.5 \pm 0.42 0.39 \pm 0.10 Poincianella pluviosa Caesalpinioideae No pinnate 2.04 \pm 0.52 1.51 \pm 0.3 Poincianella pluviosa Caesalpinioideae No pinnate 9.72 \pm 2.25 4.74 \pm 1.19 Poscilanticaleae (Caesalpinioideae) Provincia copaifera (Caesalpinioideae) Provincia copaifera (Caesalpinioideae) Provincia Caesalpinioideae Yes Pinnate Provincia Caesalpinioideae No Poincianella Pluviosa Caesalpinioi	D1 41	Caesalpinioideae	Vaa	hinimata	0.04 + 0.11	0.41 + 0.06	
Papilionoideae Yes pinnate $10.76 \pm 3.02 + 4.75 \pm 1.08$ $10.76 \pm 3.02 + 4.76 \pm 3.02$ 10.76 ± 3.02	riainymenia reiicuiaia	(Mimosoideae)	res	oipinnate	0.94 ± 0.11	0.41 ± 0.00	
Papilionoideae Yes pinnate 10.76 ± 3.02 4.75 ± 1.08 Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Papilionoideae Yes pinnate Papilionoideae Yes pinnate 8.09 ± 2.24 6.88 ± 2.86 Papilionoideae Yes pinnate 8.09 ± 2.24 6.88 ± 2.86 Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Papilionoideae Yes pinnate 6.65 ± 1.97 3.55 ± 0.83 Papilionoideae Yes pinnate 6.64 ± 0.05 2.7 ± 0.9 Papilionoideae Yes pinnate 6.06 ± 2.05 2.7 ± 0.9 Papilionoideae Yes Pinnate 6.06 ± 2.05 2.7 ± 0.9 Papilionoideae Yes Papilionoideae	Platycyamus regnellii	Papilionoideae	Yes	pinnate	15.34 ± 3.23	15.67 ± 4.88	
Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 2	Platymiscium blanchetii	Papilionoideae	Yes	pinnate			
Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Papilionoideae Yes pinnate 6.29 ± 1.45 2.68 ± 0.67 Papilionoideae Yes pinnate 6.29 ± 1.45 6.88 ± 0.67 Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Papilionoideae Yes pinnate 6.06 ± 2.05 2.7 ± 0.9 Papilionoideae Yes pinnate $6.06 $	Platymiscium curuense	Papilionoideae	Yes	pinnate	10.76 ± 3.02	4.75 ± 1.08	
Papilionoideae Yes pinnate P	Platymiscium	Donilianaidaea	Vac	ninnoto	6 20 + 1 45	2 60 + 0 67	
Papilionoideae Yes pinnate P	dimorphandrum	Papinonoideae	ies	pinnate	0.29 ± 1.43	2.08 ± 0.07	
Papilionoideae Yes pinnate 8.09 ± 2.24 6.88 ± 2.86 arviflorum Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Papilionoideae Yes pinnate 10.01 ± 3.58 1.56 ± 0.36 Papilionoideae Yes pinnate 10.01 ± 3.58 1.56 ± 0.36 Papilionoideae Yes pinnate 10.01 ± 3.58 1.56 ± 0.36 Papilionoideae Yes pinnate 1.5 ± 0.49 1.14 ± 0.2 Papilionoideae Yes pinnate 1.5 ± 0.49 1.14 ± 0.2 Papilionoideae Yes pinnate 1.5 ± 0.42 1.51 ± 0.36 Papilionoideae No pinnate No pinnate 1.5 ± 0.42 1.51 ± 0.36 Papilionoideae No pinnate No pinnate N	Platymiscium	Danilianaidaga	Vac	ninnoto			
Papilionoideae Yes pinnate 8.09 ± 2.24 6.88 ± 2.86 Parviflorum Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Papilionoideae Yes pinnate 6.06 ± 2.05 2.7 ± 0.9 Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Papilionoideae Yes pinnate 2.89 ± 0.49 1.14 ± 0.2 Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Papilionoideae Yes pinnate 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 Papilionoideae Yes pinnate 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 Papilionoideae Yes pinnate 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 Papilionoideae Yes pinnate 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 8.85 ± 1.9 Papilionoideae Yes pinnate 8.85 ± 1.9 $8.85 \pm$	asiocarpum	Fapinonoideae	1 68	res primate			
Papilionoideae Yes pinnate 6.53 ± 1.97 3.55 ± 0.83 Platymiscium Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Platymiscium Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 Platymiscium Ulei Papilionoideae Yes pinnate 6.06 ± 2.05 2.7 ± 0.9 Platymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Platymiscium Papilionoideae Yes pinnate 2.89 ± 0.49 1.14 ± 0.2 Poecilanthe effusa Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Poeppigia procera Papilionoideae No pinnate 1.5 ± 0.42 0.39 ± 0.1 Poincianella pluviosa Caesalpinioideae No bipinnate 2.04 ± 0.52 1.51 ± 0.3 Potarioideae (Caesalpinioideae) No pinnate 2.04 ± 0.52 1.51 ± 0.3 Potarioideae (Caesalpinioideae) No pinnate 2.04 ± 0.52 4.74 ± 1.19 Poseudopiptadenia Caesalpinioideae	Platymiscium	Danilianaidaga	Vac	ninnoto	2 00 ± 2 24	6 00 ± 2 06	
Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 2.7 ± 0.9 $2.7 \pm 0.$	parviflorum	i apinonoideae	apmonoideae Tes piiniai		6.09 ± 2.24	0.88 ± 2.80	
Papilionoideae Yes pinnate 10.01 ± 3.58 4.67 ± 1.33 20.01 ± 3.58 $20.01 \pm $	Platymiscium pinnatum	Papilionoideae	Yes	pinnate	6.53 ± 1.97	3.55 ± 0.83	
Platymiscium ulei Papilionoideae Yes pinnate 6.06 ± 2.05 2.7 ± 0.9 Platymiscium Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Platypodium elegans Papilionoideae Yes pinnate 2.89 ± 0.49 1.14 ± 0.2 Poecilanthe effusa Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Poeppigia procera Dialioideae No pinnate 1.5 ± 0.42 0.39 ± 0.1 Poincianella pluviosa Caesalpinioideae No bipinnate 2.04 ± 0.52 1.51 ± 0.3 Potarioideae No pinnate 2.04 ± 0.52 1.51 ± 0.3 Potarioideae No pinnate 2.04 ± 0.52 1.51 ± 0.3 Poeseudopiptadenia Caesalpinioideae No pinnate 2.04 ± 0.52 1.51 ± 0.3 Poeseudopiptadenia Caesalpinioideae No pinnate 2.04 ± 0.52 1.51 ± 0.3 Poeseudopiptadenia Caesalpinioideae No pinnate 2.04 ± 0.52 1.51 ± 0.3 Poeseudopiptadenia Caesalpinioideae	Platymiscium	Danilianaideae	Vac	ninnota	10.01 ± 2.58	1 67 ± 1 22	
Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Papilionoideae Yes pinnate 2.89 ± 0.49 1.14 ± 0.2 Poecilanthe effusa Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Poeppigia procera Dialioideae (Caesalpinioideae) Poincianella pluviosa Caesalpinioideae Prioria copaifera Caesalpinioideae (Caesalpinioideae) Caesalpinioideae No pinnate 2.04 ± 0.52 1.51 ± 0.3 Prioria copaifera Caesalpinioideae No pinnate 9.72 ± 2.25 4.74 ± 1.19 Pseudopiptadenia Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	speciosum	i apinonoideae	1 65	piiiiate	10.01 ± 3.36	4.07 ± 1.33	
Papilionoideae Yes pinnate 3.27 ± 0.93 1.56 ± 0.36 Platypodium elegans Papilionoideae Yes pinnate 2.89 ± 0.49 1.14 ± 0.2 Poecilanthe effusa Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Poeppigia procera Caesalpinioideae No pinnate 1.5 ± 0.42 0.39 ± 0.1 Poincianella pluviosa Caesalpinioideae No bipinnate 2.04 ± 0.52 1.51 ± 0.3 Prioria copaifera No pinnate 9.72 ± 2.25 4.74 ± 1.19 Pseudopiptadenia Caesalpinioideae Yes pinnate 9.72 ± 2.25 4.74 ± 1.19 Pseudopiptadenia Caesalpinioideae Yes pinnate 9.72 ± 2.25 4.74 ± 1.19	Platymiscium ulei	Papilionoideae	Yes	pinnate	6.06 ± 2.05	2.7 ± 0.9	
Platypodium elegans Papilionoideae Yes pinnate 2.89 ± 0.49 1.14 ± 0.2 Poecilanthe effusa Papilionoideae Yes pinnate 8.85 ± 1.9 3.2 ± 0.49 Poeppigia procera Dialioideae (Caesalpinioideae) No pinnate 1.5 ± 0.42 0.39 ± 0.1 Poincianella pluviosa Caesalpinioideae No bipinnate 2.04 ± 0.52 1.51 ± 0.3 Potarioideae (Caesalpinioideae) No pinnate 9.72 ± 2.25 4.74 ± 1.19 Pseudopiptadenia Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	Platymiscium	Panilionoidese	Vac	ninnata	3.27 ± 0.02	1 56 + 0 36	
Poecilanthe effusaPapilionoideaeYespinnate 8.85 ± 1.9 3.2 ± 0.49 Poeppigia proceraDialioideae (Caesalpinioideae)Nopinnate 1.5 ± 0.42 0.39 ± 0.1 Poincianella pluviosaCaesalpinioideaeNobipinnate 2.04 ± 0.52 1.51 ± 0.3 Prioria copaiferaDetarioideae (Caesalpinioideae)Nopinnate 9.72 ± 2.25 4.74 ± 1.19 PseudopiptadeniaCaesalpinioideaeYesbipinnate 0.25 ± 0.09 0.07 ± 0.01	yucatanum	i apinonoideae	1 65	piiiiate	3.27 ± 0.93	1.30 ± 0.30	
Dialioideae No pinnate 1.5 ± 0.42 0.39 ± 0.1 Poeppigia procera (Caesalpinioideae) No bipinnate 2.04 ± 0.52 1.51 ± 0.3 Detarioideae No pinnate 9.72 ± 2.25 4.74 ± 1.19 Preseudopiptadenia Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	Platypodium elegans	Papilionoideae	Yes	pinnate	2.89 ± 0.49	1.14 ± 0.2	
Poeppigia procera (Caesalpinioideae) No pinnate 1.5 ± 0.42 0.39 ± 0.1 Poincianella pluviosa Caesalpinioideae No bipinnate 2.04 ± 0.52 1.51 ± 0.3 Petarioideae (Caesalpinioideae) No pinnate 9.72 ± 2.25 4.74 ± 1.19 Pseudopiptadenia Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	Poecilanthe effusa	Papilionoideae	Yes	pinnate	8.85 ± 1.9	3.2 ± 0.49	
(Caesalpinioideae) Poincianella pluviosa Caesalpinioideae Prioria copaifera Detarioideae (Caesalpinioideae) Preseudopiptadenia Caesalpinioideae Yes Dipinnate 0.25 ± 0.09 0.07 ± 0.01	Poennigia nyocaya	Dialioideae	No	ninnata	1.5 ± 0.40	0.30 ± 0.1	
Prioria copaifera Detarioideae No pinnate 9.72 ± 2.25 4.74 ± 1.19 Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	ι σερριχια ριστεια	(Caesalpinioideae)	110	pimate	1.3 ± 0.42	0.39 ± 0.1	
Prioria copaifera No pinnate 9.72 ± 2.25 4.74 ± 1.19 Pseudopiptadenia Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	Poincianella pluviosa	Caesalpinioideae	No	bipinnate	2.04 ± 0.52	1.51 ± 0.3	
(Caesalpinioideae) Seudopiptadenia Caesalpinioideae Yes bipinnate 0.25 ± 0.09 0.07 ± 0.01	Prioria congifora	Detarioideae	No	ninnata	9 72 + 2 25	4 74 + 1 10	
Yes bipinnate $0.25 \pm 0.09 + 0.07 \pm 0.01$	гиони сорицени	(Caesalpinioideae)	110	pimate	9.14 - 4.43	ਜ./ਜ ⊥ 1.19	
ontorta (Mimosoideae)	Pseudopiptadenia	Caesalpinioideae	Vec	hininnate	0.25 ± 0.00	0.07 ± 0.01	
	contorta	(Mimosoideae)	1 05	orprimate	0.23 ± 0.09	0.07 ± 0.01	

Smaaias	Cubfamily	Potential	I C	Leaflet	Leaflet
Species	Subfamily	to fix N2	Leaf type	length	width
Pseudosamanea	Caesalpinioideae	Yes	hininnata	2.91 ± 1	1.53 ± 0.51
uachapele	(Mimosoideae)	ies	bipinnate	2.91 ± 1	1.33 ± 0.31
Pterocarpus	Danilianaidasa	Yes	ninnoto	5.7 ± 2.17	2.86 ± 1.18
capulcensis	Papilionoideae	1 es	pinnate	3.7 ± 2.17	2.80 ± 1.18
Pterocarpus hayesii	Papilionoideae	Yes	pinnate	11.12 ± 2.94	4.18 ± 0.49
Pterocarpus	Danilianaidasa	Vac	ninnoto		
nichelianus	Papilionoideae	Yes	pinnate		
terocarpus officinalis	Papilionoideae	Yes	pinnate	8.9 ± 1.41	4.54 ± 0.4
eterocarpus	Papilionoideae	Yes	pinnate	8.53 ± 0.81	3.27 ± 0.03
rbiculatus	- up		F		,
Pterocarpus rohrii	Papilionoideae	Yes	pinnate	9.61 ± 1.71	4.17 ± 0.79
terocarpus violaceus	Papilionoideae	Yes	pinnate	6.15 ± 1.74	2.96 ± 0.47
terocarpus zehntneri	Papilionoideae	Yes	pinnate		
terodon abruptus	Papilionoideae	No	pinnate	1.54 ± 0.3	1.07 ± 0.17
terogyne nitens	Caesalpinioideae	No	pinnate	4.87 ± 1.01	2.06 ± 0.41
amanea saman	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	3.42 ± 1.5	1.65 ± 0.54
chizolobium nazonicum	Caesalpinioideae	No	bipinnate	3.35 ± 1.35	2.26 ± 0.87
chizolobium parahyba	Caesalpinioideae	No	bipinnate	2.96 ± 0.43	0.78 ± 0.1
clerolobium ostaricense	Caesalpinioideae	Yes	pinnate	12.69 ± 2.29	5.53 ± 0.88
clerolobium ensiflorum	Caesalpinioideae	Yes	pinnate	8.54 ± 2.25	5.1 ± 1.17
clerolobium aniculatum	Caesalpinioideae	Yes	pinnate	10.27 ± 1.96	3.94 ± 0.92
clerolobium paraense	Caesalpinioideae	Yes	pinnate	12.27 ± 2.9	4.04 ± 0.81
enegalia gaumeri	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.9 ± 0.21	0.33 ± 0.06
enegalia langsdorffii	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.99 ± 1.18	0.84 ± 1.76
enegalia loretensis	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.62 ± 0.14	0.14 ± 0.04

C	Subfamily	Potential		Leaflet	Leaflet
Species		to fix N2	Leaf type	length	width
Senegalia martii	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.34 ± 0.07	0.09 ± 0.02
Senegalia piauhiensis	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.88 ± 0.16	0.26 ± 0.08
Senegalia picachensis	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.8 ± 0.14	0.25 ± 0.08
Senegalia polyphylla	Caesalpinioideae (Mimosoideae)	No	bipinnate		
Senna acuruensis	Caesalpinioideae	No	pinnate	1.36 ± 0.2	0.65 ± 0.07
Senna atomaria	Caesalpinioideae	No	pinnate	3.73 ± 1.81	2.38 ± 1.19
Senna bacillaris	Caesalpinioideae	No	pinnate	10.5 ± 3.16	4.6 ± 0.87
Senna fruticosa	Caesalpinioideae	No	pinnate	7.89 ± 2.1	3.87 ± 1.51
Senna hayesiana	Caesalpinioideae	No	pinnate	9.08 ± 2.93	4.08 ± 0.97
Senna multijuga	Caesalpinioideae	No	pinnate	2.14 ± 0.75	0.6 ± 0.22
Senna papillosa	Caesalpinioideae	No	pinnate	14.65 ± 2.75	6.13 ± 0.83
Senna racemosa	Caesalpinioideae	No	pinnate	7.89 ± 2.1	3.87 ± 1.51
Senna spectabilis	Caesalpinioideae	No	pinnate	5.04 ± 1.09	1.83 ± 0.29
Senna sylvestris	Caesalpinioideae	No	pinnate	6.96 ± 1.73	2.47 ± 0.48
Senna undulata	Caesalpinioideae	No	pinnate	6.11 ± 1.79	3.01 ± 0.77
Senna velutina	Caesalpinioideae	No	pinnate	5.13 ± 1.6	2.1 ± 0.65
Senna villosa	Caesalpinioideae	No	pinnate	3.97 ± 0.89	1.66 ± 0.34
Stryphnodendron parbatimam	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.6 ± 0.17	1.4 ± 0.1
Stryphnodendron guianense	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.85 ± 0.27	0.37 ± 0.11
Stryphnodendron microstachyum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.18 ± 0.61	1.03 ± 0.25
Stryphnodendron occhionianum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate		
Stryphnodendron pulcherrimum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.6 ± 0.17	0.21 ± 0.07
Stryphnodendron purpureum	Caesalpinioideae (Mimosoideae)	Yes	bipinnate		
Swartzia apetala	Papilionoideae	Yes	pinnate	6.34 ± 1.16	2.94 ± 0.46

Species	Subfamily	Potential	Looftens	Leaflet	Leaflet
Species	Subfamily	to fix N2	Leaf type	length	width
Swartzia apetala var	Papilionoideae	Yes	pinnate	7.06 ± 2.23	3.4 ± 1.11
apetala	1 apinonoideae	165	pililiate	7.00 ± 2.23	J.4 ± 1.11
Swartzia arborescens	Papilionoideae	Yes	pinnate	3.89 ± 1.71	2.12 ± 0.55
Swartzia brachyrachis	Papilionoideae	Yes	pinnate	5.6 ± 1.88	2.68 ± 0.66
Swartzia cubensis	Papilionoideae	Yes	pinnate	6.45 ± 1.4	2.13 ± 0.18
Swartzia cuspidata	Papilionoideae	Yes	pinnate	7.91 ± 1.44	3.55 ± 0.85
Swartzia flaemingii	Papilionoideae	Yes	pinnate	3.65 ± 1.32	1.39 ± 0.64
Swartzia laurifolia	Papilionoideae	Yes	pinnate	17.87 ± 5.79	6.69 ± 2.61
Swartzia laxiflora	Papilionoideae	Yes	pinnate	7.12 ± 2.05	2.41 ± 0.63
Swartzia macrostachya	Papilionoideae	Yes	pinnate	5.2 ± 1.97	2.83 ± 1.01
Swartzia multijuga	Papilionoideae	Yes	pinnate	7.73 ± 2.23	3.12 ± 0.42
Swartzia myrtifolia	Papilionoideae	Yes	pinnate	3.76 ± 1.07	1.53 ± 0.44
Swartzia nicaraguensis	Papilionoideae	Yes	pinnate	7.9 ± 1.7	3.63 ± 0.67
Swartzia ochnacea	Papilionoideae	Yes	unifoliolate	14.37 ± 8.32	5.48 ± 2.64
Swartzia panamensis	Papilionoideae	Yes	pinnate	9.74 ± 3.37	3.24 ± 0.63
Swartzia polyphylla	Papilionoideae	Yes	pinnate	10.52 ± 4.36	3.83 ± 1.61
Swartzia reticulata	Papilionoideae	Yes	pinnate	16.01 ± 3.89	8.47 ± 1.44
Swartzia schomburgkii	Papilionoideae	Yes	pinnate	12.33 ± 2.36	5.24 ± 0.91
Swartzia simplex	Papilionoideae	Yes	unifoliolate		
Swartzia simplex var	D 31 11	***	.0.1: 1	0.41 - 0.51	4.14 . 1.05
continentalis	Papilionoideae	Yes	unifoliolate	9.41 ± 2.71	4.14 ± 1.25
Swartzia simplex var	D 31 11	***	.0.1: 1	5.5 . 1.05	2.55 . 2.2
grandiflora	Papilionoideae	Yes	unifoliolate	5.5 ± 1.87	2.75 ± 0.8
Swartzia tessmannii	Papilionoideae	Yes	pinnate	7.75 ± 2.67	4.03 ± 0.67
Sweetia fruticosa	Papilionoideae	No	pinnate	2.57 ± 0.76	1.27 ± 0.2
Tabaroa caatingicola	Papilionoideae	Yes	pinnate	3.94 ± 0.79	2.21 ± 0.27
Tachigali cenepensis	Caesalpinioideae	Yes	pinnate	18.63 ± 6.15	9.03 ± 1.3
Tachigali chrysaloides	Caesalpinioideae	Yes	pinnate	11.12 ± 3.7	4.32 ± 1.31
Tachigali macbridei	Caesalpinioideae	Yes	pinnate	10.5 ± 3.68	3.87 ± 1.14
Tachigali				0.64.004	
myrmecophila	Caesalpinioideae	Yes	pinnate	9.64 ± 3.01	3.8 ± 1.17
Tachigali paniculata	Caesalpinioideae	Yes	pinnate	7.93 ± 1.88	3.63 ± 1.22
Tachigali polyphylla	Caesalpinioideae	Yes	pinnate	6.34 ± 3.36	2.03 ± 1.2
Tachigali vasquezii	Caesalpinioideae	Yes	pinnate		
Tachigali versicolor	Caesalpinioideae	Yes	pinnate	15.4 ± 4.9	5.07 ± 1.11
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Con a si con	C-1. C 1	Potential	Leaf type	Leaflet	Leaflet	
Species	Subfamily	to fix N ₂		length	width	
Vachellia allenii	Caesalpinioideae	Yes	bipinnate	0.7 ± 0.07	0.18 ± 0.03	
,	(Mimosoideae)	1 45	отришие	0.7	0.10 - 0.00	
Vachellia campechiana	Caesalpinioideae	Yes	bipinnate	0.11 ± 0.01	0.04 ± 0.01	
,	(Mimosoideae)		· F			
Vachellia collinsii	Caesalpinioideae	Yes	bipinnate	0.69 ± 0.15	0.16 ± 0.02	
, acricina comisii	(Mimosoideae)	105	отришае	0.07 = 0.10	0.10 - 0.0 <u>2</u>	
Vachellia cornigera	Caesalpinioideae	Yes	bipinnate	0.62 ± 0.12	0.17 ± 0.04	
, weneut comiger a	(Mimosoideae)	1 45	отришие	0.02 0.12		
	Caesalpinioideae			0.3 ± 0.05		
Vachellia farnesiana	(Mimosoideae)	Yes	bipinnate		0.08 ± 0.02	
	,					
Vachellia macracantha	Caesalpinioideae	Yes	bipinnate	0.22 ± 0.06	0.06 ± 0.01	
, acricina macracanina	(Mimosoideae)	T CO OTPINION		0.22 - 0.00	0.00 - 0.01	
Vatairea erythrocarpa	Papilionoideae	No	pinnate	10.13 ± 3.21	4.69 ± 1.63	
Vatairea lundellii	Papilionoideae	No	pinnate	5.56 ± 1.88	2.29 ± 0.58	
Vataireopsis glaziovii	Papilionoideae	No	pinnate			
Vataireopsis iglesiasii	Papilionoideae	No	pinnate	7.12 ± 8.5	6.67 ± 7.42	
Zapoteca formosa	Caesalpinioideae	Yes	bipinnate	1.81 ± 1.15	0.98 ± 0.6	
Zapoteca jormosa	(Mimosoideae)	103	огринасс	1.01 = 1.13	0.50 = 0.0	
Zollernia latifolia	Papilionoideae	No	unifoliolate	9.47 ± 2.47	9.36 ± 2.11	
Zollernia paraensis	Papilionoideae	No	unifoliolate	10.2 ± 2.08	3.69 ± 0.68	
Zygia cognata	Caesalpinioideae	Yes	pinnate	7.71 ± 3.08	2.78 ± 1.16	
Lygia cognaia	(Mimosoideae)	1 05	piiiiate	7.71 ± 3.00	2.70 ± 1.10	
Zygia gigantifoliola	Caesalpinioideae	Yes	pinnate	17.03 ± 6.02	5.57 ± 2.4	
Lygia giganiijoiioia	(Mimosoideae)	1 55	ришас	17.03 ± 0.02	J.J ± 2.4	
Zygia racemosa	Caesalpinioideae	Yes	bipinnate	0.74 ± 0.06	0.24 ± 0.02	
Lygiu rucemosu	(Mimosoideae)	1 05	orphinace	0.77 ± 0.00	0.27 ± 0.02	