

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

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Alexa grandiflora</i>	Papilionoideae	No	pinnate	4.95 ± 2.28	2.99 ± 1.45
<i>Amburana cearensis</i>	Papilionoideae	No	pinnate	9.94 ± 5.47	4.02 ± 1.72
<i>Anadenanthera colubrina</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.48 ± 0.14	0.13 ± 0.04
<i>Andira inermis</i>	Papilionoideae	Yes	pinnate	7.23 ± 1.14	2.66 ± 0.63
<i>Andira legalis</i>	Papilionoideae	Yes	pinnate	10.95 ± 3.27	5.04 ± 1.93
<i>Andira lewisii</i>	Papilionoideae	Yes	pinnate		
<i>Andira multistipula</i>	Papilionoideae	Yes	pinnate	7.97 ± 3.15	2.73 ± 1.04
<i>Andira parviflora</i>	Papilionoideae	Yes	pinnate	3.9 ± 1.14	1.76 ± 0.34
<i>Apoplanesia paniculata</i>	Papilionoideae	No	pinnate	3.35 ± 1.11	1.29 ± 0.25
<i>Apuleia leiocarpa</i>	Dialioideae (Caesalpinioideae)	No	pinnate	3.39 ± 0.86	1.71 ± 0.33
<i>Arapatiella psilophylla</i>	Caesalpinioideae	No	pinnate	7.89 ± 1.44	3.51 ± 0.66
<i>Ateleia cubensis</i>	Papilionoideae	Yes	pinnate	3.22 ± 0.97	1.52 ± 0.27
<i>Ateleia herbert-smithii</i>	Papilionoideae	Yes	pinnate	6.98 ± 1.09	3.46 ± 0.45
<i>Balizia elegans</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.45 ± 0.08	0.15 ± 0.03
<i>Balizia leucocalix</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.57 ± 0.54	1.37 ± 0.37
<i>Balizia pedicellaris</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.67 ± 0.13	0.21 ± 0.04
<i>Batesia floribunda</i>	Caesalpinioideae	No	pinnate	11.35 ± 2.51	4.87 ± 0.92
<i>Bauhinia acreana</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	7.7 ± 1.13	6.02 ± 1.56
<i>Bauhinia acuruana</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	6.21 ± 2.4	4.03 ± 1.12
<i>Bauhinia brevipes</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	4.31 ± 0.95	2.32 ± 0.49
<i>Bauhinia cheilantha</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	7.72 ± 1.78	7.6 ± 1.4
<i>Bauhinia divaricata</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	5.87 ± 2.97	6.51 ± 1.54
<i>Bauhinia guianensis</i>	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
<i>Bauhinia longicuspis</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	12.93 ± 1.74	6 ± 2.23
<i>Bauhinia melastomatoides</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	17.47 ± 1.71	7.33 ± 1.04
<i>Bauhinia ovata</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	7.72 ± 0.9	4.83 ± 0.9
<i>Bauhinia pauletia</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	4.04 ± 1.08	4.23 ± 1.46
<i>Bauhinia rufa</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	8.42 ± 2.34	7.64 ± 1.81
<i>Bauhinia ungulata</i>	Cercidoideae (Caesalpinioideae)	No	unifoliolate	8.42 ± 4.32	6.17 ± 3.06
<i>Bowdichia virgilioides</i>	Papilionoideae	Yes	pinnate	3.36 ± 0.82	1.42 ± 0.56
<i>Caesalpinia caladenia</i>	Caesalpinioideae	No	bipinnate	1.67 ± 0.45	0.92 ± 0.26
<i>Caesalpinia coriaria</i>	Caesalpinioideae	No	bipinnate	0.45 ± 0.08	0.15 ± 0.02
<i>Caesalpinia eriostachys</i>	Caesalpinioideae	No	bipinnate	0.95 ± 0.21	0.45 ± 0.06
<i>Caesalpinia exostemma</i>	Caesalpinioideae	No	bipinnate	1.73 ± 0.44	0.86 ± 0.17
<i>Caesalpinia ferrea</i>	Caesalpinioideae	No	bipinnate	1.66 ± 0.51	0.89 ± 0.26
<i>Caesalpinia floribunda</i>	Caesalpinioideae	No	bipinnate	0.72 ± 0.13	0.4 ± 0.04
<i>Caesalpinia gaumeri</i>	Caesalpinioideae	No	bipinnate	1.68 ± 0.35	0.98 ± 0.22
<i>Caesalpinia mollis</i>	Caesalpinioideae	No	bipinnate	4.46 ± 1.32	1.89 ± 0.27
<i>Caesalpinia platyloba</i>	Caesalpinioideae	No	bipinnate	3.35 ± 1.06	1.55 ± 0.2
<i>Caesalpinia pyramidalis</i>	Caesalpinioideae	No	bipinnate	1.96 ± 0.36	1.22 ± 0.17
<i>Caesalpinia sclerocarpa</i>	Caesalpinioideae	No	bipinnate	1.61 ± 0.56	0.87 ± 0.32
<i>Caesalpinia yucatanensis</i>	Caesalpinioideae	No	bipinnate	3.08 ± 0.86	1.46 ± 0.44
<i>Calliandra formosa</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.69 ± 0.23	0.31 ± 0.08
<i>Calliandra grandiflora</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.39 ± 0.18	0.11 ± 0.04
<i>Cassia fastuosa</i>	Caesalpinioideae	No	pinnate	3.78 ± 0.8	1.01 ± 0.15
<i>Cassia ferruginea</i>	Caesalpinioideae	No	pinnate	2.74 ± 0.5	0.86 ± 0.09
<i>Cassia grandis</i>	Caesalpinioideae	No	pinnate	4.04 ± 1.47	1.39 ± 0.23

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Cenostigma tocanthum</i>	Caesalpinioideae	No	pinnate	9.55 ± 2.83	3.67 ± 0.76
<i>Centrolobium microchaete</i>	Papilionoideae	Yes	pinnate	5.53 ± 1.88	4.08 ± 2.36
<i>Centrolobium sclerophyllum</i>	Papilionoideae	Yes	pinnate	7.48 ± 1.91	4.38 ± 0.9
<i>Centrolobium tomentosum</i>	Papilionoideae	Yes	pinnate	9.75 ± 2.28	5.21 ± 1.33
<i>Ceratonia siliqua</i>	Caesalpinioideae	No	pinnate	4.82 ± 0.81	3.17 ± 0.54
<i>Chamaecrista apoucouita</i>	Caesalpinioideae	Yes	pinnate	5.76 ± 1.27	2.56 ± 0.6
<i>Chamaecrista bahiae</i>	Caesalpinioideae	Yes	pinnate	7.63 ± 1.89	4.36 ± 0.8
<i>Chamaecrista duartei</i>	Caesalpinioideae	Yes	pinnate	9.94 ± 2.64	4.37 ± 0.8
<i>Chamaecrista eitenorum</i>	Caesalpinioideae	Yes	pinnate	5.47 ± 1.28	2.77 ± 0.67
<i>Chamaecrista xinguensis</i>	Caesalpinioideae	Yes	pinnate	5.91 ± 2.23	2.46 ± 1
<i>Chloroleucon dumosum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.77 ± 0.19	0.26 ± 0.1
<i>Chloroleucon foliolosum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.22 ± 0.1	0.07 ± 0.02
<i>Chloroleucon mangense</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.72 ± 0.26	0.29 ± 0.18
<i>Clathrotropis macrocarpa</i>	Papilionoideae	Yes	pinnate	12.6 ± 4.63	5.14 ± 1.34
<i>Clitoria glaberrima</i>	Papilionoideae	Yes	pinnate	10.06 ± 3.22	5.26 ± 1.55
<i>Cajobea arborea</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.59 ± 0.18	0.13 ± 0.03
<i>Copaifera langsdorffii</i>	Detarioideae (Caesalpinioideae)	No	pinnate	3.18 ± 1	1.65 ± 0.44
<i>Coursertia ferruginea</i>	Papilionoideae	Yes	pinnate	3.25 ± 0.94	1.87 ± 0.28
<i>Crotalaria maypurensis</i>	Papilionoideae	Yes	pinnate	4.85 ± 1.33	1.54 ± 0.32
<i>Crudia amazonica</i>	Detarioideae (Caesalpinioideae)	No	pinnate	5.37 ± 1.47	1.64 ± 0.34
<i>Dalbergia acuta</i>	Papilionoideae	Yes	pinnate	1.81 ± 0.6	0.63 ± 0.15
<i>Dalbergia brownei</i>	Papilionoideae	Yes	pinnate	3.99 ± 1.2	2.78 ± 1.18

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

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<i>Exostyles venusta</i>	Papilionoideae	No	pinnate	2.95 ± 1.09	1.38 ± 0.29
<i>Gliricidia maculata</i>	Papilionoideae	Yes	pinnate		
<i>Gliricidia sepium</i>	Papilionoideae	Yes	pinnate	5.4 ± 1.38	2.79 ± 0.84
<i>Goniorrhachis marginata</i>	Detarioideae (Caesalpinioideae)	No	pinnate	4.13 ± 1.05	1.85 ± 0.23
<i>Haematoxylum brasiletto</i>	Caesalpinioideae	No	pinnate	2.59 ± 3.61	0.72 ± 0.12
<i>Haematoxylum campechianum</i>	Caesalpinioideae	No	pinnate	1.67 ± 0.28	1.4 ± 0.16
<i>Harleyodendron unifoliolatum</i>	Papilionoideae	No	unifoliolate	26.31 ± 5.4	7.51 ± 1.27
<i>Havardia albicans</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.59 ± 0.12	0.15 ± 0.02
<i>Havardia campylacantha</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.26 ± 0.08	0.07 ± 0.03
<i>Hymenaea courbaril</i>	Detarioideae (Caesalpinioideae)	No	pinnate	7.32 ± 1.19	3.14 ± 0.3
<i>Hymenaea parvifolia</i>	Detarioideae (Caesalpinioideae)	No	pinnate	6.97 ± 1.4	3.46 ± 0.8
<i>Hymenolobium mesoamericanum</i>	Papilionoideae	Yes	pinnate	4.56 ± 1.42	1.99 ± 0.45
<i>Indigofera fruticosa</i>	Papilionoideae	Yes	pinnate	2.12 ± 0.24	1.16 ± 0.22
<i>Inga acrocephala</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.52 ± 4	3.99 ± 1.16
<i>Inga acuminata</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.07 ± 2.82	2.76 ± 0.88
<i>Inga aestuariorum</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate		
<i>Inga alba</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	5.92 ± 2.86	4.12 ± 3.32
<i>Inga auristellae</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	5.66 ± 2.69	2.62 ± 0.81
<i>Inga bella</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	15.53 ± 3.74	6.82 ± 1.55

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

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<i>Inga hayesii</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	7.41 ± 1.9	3.56 ± 0.67
<i>Inga heterophylla</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	4.89 ± 1.19	1.72 ± 0.41
<i>Inga ingoides</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.32 ± 2.33	4.59 ± 1.2
<i>Inga jimenezii</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	18.25 ± 5.89	8.09 ± 2.03
<i>Inga jinicuil</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	8.33 ± 3.2	3.4 ± 1.22
<i>Inga lateriflora</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	5.89 ± 1.42	2.33 ± 0.69
<i>Inga latibracteata</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	8.55 ± 3.93	4.33 ± 1.78
<i>Inga laurina</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	6.12 ± 3	2.76 ± 1.28
<i>Inga leiocalycina</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	8.15 ± 3.8	3.38 ± 1.36
<i>Inga litoralis</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.82 ± 3.03	4.17 ± 0.93
<i>Inga lomatophylla</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	13.28 ± 4.06	6.92 ± 2.02
<i>Inga longiflora</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	12.71 ± 4.43	4.07 ± 1.01
<i>Inga luschnathiana</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	5.17 ± 2.08	5.47 ± 4.1
<i>Inga macrophylla</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	12.34 ± 3.13	6.38 ± 1.48
<i>Inga marginata</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.12 ± 3.25	2.96 ± 0.65
<i>Inga micheliana</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	7.33 ± 2.98	3.03 ± 1.43
<i>Inga microcalyx</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.76 ± 3.6	5.87 ± 1.92

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Inga mucuna</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	12.64 ± 2.17	6 ± 1.14
<i>Inga multijuga</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.12 ± 4.88	3.52 ± 1.49
<i>Inga nobilis</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	7.68 ± 2.34	2.94 ± 1.13
<i>Inga obidensis</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.36 ± 2.54	4.16 ± 0.84
<i>Inga oerstediana</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.23 ± 3.17	4.63 ± 2.39
<i>Inga paraensis</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.18 ± 3.2	4.99 ± 1.18
<i>Inga pauciflora</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.47 ± 3.85	4.33 ± 1.52
<i>Inga pavoniana</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	12.77 ± 4.68	6.25 ± 2.89
<i>Inga pezizifera</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.54 ± 3.95	4.58 ± 1.09
<i>Inga pilosula</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.2 ± 3.75	4.51 ± 1.37
<i>Inga pleiogyna</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	15.81 ± 4.8	7.06 ± 2.06
<i>Inga portobellensis</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate		
<i>Inga punctata</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.84 ± 4.49	5.26 ± 2.26
<i>Inga rubiginosa</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	9.36 ± 3.3	4.91 ± 1.84
<i>Inga ruiziana</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	15.63 ± 5.45	7.29 ± 2.4
<i>Inga sapindioides</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate		
<i>Inga sertulifera</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	10.58 ± 3.67	4.63 ± 1.91

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

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Lonchocarpus heptaphyllus</i>	Papilionoideae	Yes	pinnate	9.68 ± 2.74	4.31 ± 1.46
<i>Lonchocarpus hondurensis</i>	Papilionoideae	Yes	pinnate	6.36 ± 2.29	2.91 ± 1.06
<i>Lonchocarpus hughesii</i>	Papilionoideae	Yes	pinnate	1.32 ± 0.25	0.58 ± 0.06
<i>Lonchocarpus lanceolatus</i>	Papilionoideae	Yes	pinnate	4.85 ± 0.84	1.92 ± 0.31
<i>Lonchocarpus macrophyllus</i>	Papilionoideae	Yes	pinnate		
<i>Lonchocarpus minimiflorus</i>	Papilionoideae	Yes	pinnate	3.48 ± 1.69	1.65 ± 0.77
<i>Lonchocarpus montanus</i>	Papilionoideae	Yes	pinnate		
<i>Lonchocarpus mutans</i>	Papilionoideae	Yes	pinnate	5.44 ± 0.87	2.44 ± 0.44
<i>Lonchocarpus parviflorus</i>	Papilionoideae	Yes	pinnate	3.45 ± 1.51	1.68 ± 0.71
<i>Lonchocarpus peninsularis</i>	Papilionoideae	Yes	pinnate	5.74 ± 1.22	3 ± 0.75
<i>Lonchocarpus phaseolifolius</i>	Papilionoideae	Yes	pinnate	6.46 ± 4.2	4.49 ± 2.66
<i>Lonchocarpus rugosus</i>	Papilionoideae	Yes	pinnate	4.14 ± 1.01	1.6 ± 0.23
<i>Lonchocarpus salvadorensis</i>	Papilionoideae	Yes	pinnate	7.21 ± 1.39	3.19 ± 0.71
<i>Lonchocarpus sericeus</i>	Papilionoideae	Yes	pinnate	7.94 ± 2.75	3.95 ± 0.97
<i>Lonchocarpus torresiorum</i>	Papilionoideae	Yes	pinnate		
<i>Lonchocarpus velutinus</i>	Papilionoideae	Yes	pinnate	10.56 ± 4.32	4.32 ± 1.9
<i>Lonchocarpus xuul</i>	Papilionoideae	Yes	pinnate	4.99 ± 1.08	2.28 ± 0.4
<i>Lonchocarpus yucatanensis</i>	Papilionoideae	Yes	pinnate	4.15 ± 1.4	1.88 ± 0.46
<i>Luetzelburgia andrade-limae</i>	Papilionoideae	No	pinnate		
<i>Lysiloma acapulcense</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.33 ± 0.09	0.09 ± 0.01

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Lysiloma auritum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.2 ± 0.13	0.35 ± 0.69
<i>Lysiloma divaricatum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.34 ± 0.21	0.13 ± 0.09
<i>Lysiloma latisiliquum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.75 ± 2.57	1.03 ± 1.46
<i>Lysiloma microphyllum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.3 ± 0.08	0.12 ± 0.03
<i>Machaerium acutifolium</i>	Papilionoideae	Yes	pinnate	5.93 ± 0.84	2.75 ± 0.31
<i>Machaerium biovulatum</i>	Papilionoideae	Yes	pinnate	4.02 ± 0.87	2.24 ± 0.35
<i>Machaerium brasiliense</i>	Papilionoideae	Yes	pinnate	4.43 ± 1.16	1.69 ± 0.26
<i>Machaerium hirtum</i>	Papilionoideae	Yes	pinnate	1.47 ± 0.28	0.37 ± 0.06
<i>Machaerium hoehneanum</i>	Papilionoideae	Yes	pinnate	7.26 ± 1.86	2.57 ± 0.3
<i>Machaerium nyctitans</i>	Papilionoideae	Yes	pinnate	2.18 ± 0.51	0.87 ± 0.31
<i>Machaerium pittieri</i>	Papilionoideae	Yes	pinnate		
<i>Machaerium scleroxylon</i>	Papilionoideae	Yes	pinnate	1.62 ± 0.63	0.64 ± 0.19
<i>Machaerium stipitatum</i>	Papilionoideae	Yes	pinnate	3.03 ± 1.09	1.21 ± 0.56
<i>Machaerium vestitum</i>	Papilionoideae	Yes	pinnate	3.85 ± 0.77	1.6 ± 0.22
<i>Machaerium villosum</i>	Papilionoideae	Yes	pinnate	5.14 ± 1.26	2.14 ± 0.44
<i>Macrolobium costaricense</i>	Detarioideae (Caesalpinioideae)	No	pinnate		
<i>Macrolobium latifolium</i>	Detarioideae (Caesalpinioideae)	No	pinnate	9.42 ± 5.19	4 ± 2.26
<i>Macrolobium limbatum</i>	Detarioideae (Caesalpinioideae)	No	pinnate	14.01 ± 1.2	5.69 ± 0.52
<i>Mariosousa centralis</i>	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.25 ± 0.1	0.1 ± 0.03
<i>Mariosousa usumacintensis</i>	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
<i>Marmaroxylon racemosum</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	1.04 ± 0.22	0.44 ± 0.09
<i>Mimosa acantholoba var eurycarpa</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.56 ± 0.22	0.14 ± 0.09
<i>Mimosa arenosa</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.38 ± 0.13	0.09 ± 0.03
<i>Mimosa bahamensis</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.32 ± 0.09	0.21 ± 0.07
<i>Mimosa tenuiflora</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.5 ± 0.16	0.12 ± 0.02
<i>Moldenhauera blanchetiana</i>	Caesalpinioideae	Yes	pinnate		
<i>Myrospermum frutescens</i>	Papilionoideae	No	pinnate		
<i>Myroxylon peruiferum</i>	Papilionoideae	No	pinnate	5.15 ± 0.98	2.45 ± 0.12
<i>Ormosia amazonica</i>	Papilionoideae	Yes	pinnate	15.47 ± 4.41	7.14 ± 1.59
<i>Ormosia coccinea</i>	Papilionoideae	Yes	pinnate	14.5 ± 4.43	7.35 ± 0.93
<i>Ormosia discolor</i>	Papilionoideae	Yes	pinnate	13.02 ± 3.65	5.12 ± 0.82
<i>Ormosia flava</i>	Papilionoideae	Yes	pinnate	11.01 ± 3.32	4.4 ± 1.48
<i>Ormosia grossa</i>	Papilionoideae	Yes	pinnate	12.48 ± 3.91	7.6 ± 1.72
<i>Ormosia isthmensis</i>	Papilionoideae	Yes	pinnate	10.92 ± 2.89	5.34 ± 0.45
<i>Ormosia krugii</i>	Papilionoideae	Yes	pinnate	15.03 ± 3.01	7.53 ± 1.29
<i>Ormosia macrocalyx</i>	Papilionoideae	Yes	pinnate	9.23 ± 2.2	4.47 ± 0.84
<i>Ormosia macrophylla</i>	Papilionoideae	Yes	pinnate	11.88 ± 2.73	6.54 ± 1.71
<i>Ormosia nobilis</i>	Papilionoideae	Yes	pinnate	16.91 ± 2.77	7.37 ± 0.74
<i>Ormosia paraensis</i>	Papilionoideae	Yes	pinnate	6.02 ± 0.99	3.28 ± 0.76
<i>Ormosia subsimplex</i>	Papilionoideae	Yes	pinnate	11.07 ± 2.77	4.29 ± 0.74
<i>Ormosia velutina</i>	Papilionoideae	Yes	pinnate	8 ± 2.24	4.79 ± 0.92
<i>Parkia bahiae</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	2.1 ± 0.32	0.49 ± 0.06
<i>Parkia decussata</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	2.82 ± 0.53	0.73 ± 0.15
<i>Parkia multijuga</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	0.87 ± 0.13	0.25 ± 0.04

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Parkia nitida</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	1.13 ± 0.42	0.31 ± 0.09
<i>Parkia oppositifolia</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	0.83 ± 0.29	0.3 ± 0.09
<i>Parkia pendula</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate	0.33 ± 0.07	0.08 ± 0.02
<i>Parkinsonia praecox</i>	Caesalpinioideae	No	bipinnate	0.65 ± 0.16	0.25 ± 0.04
<i>Peltogyne pauciflora</i>	Detarioideae (Caesalpinioideae)	No	pinnate	5.64 ± 1.73	2.55 ± 0.75
<i>Peltogyne purpurea</i>	Detarioideae (Caesalpinioideae)	No	pinnate	5.59 ± 0.24	2.33 ± 0.27
<i>Peltogyne venosa</i>	Detarioideae (Caesalpinioideae)	No	pinnate	11.18 ± 1.57	4.43 ± 0.56
<i>Peltophorum dubium</i>	Caesalpinioideae	No	bipinnate	0.67 ± 0.16	0.24 ± 0.07
<i>Pentaclethra macroloba</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.57 ± 0.2	0.22 ± 0.17
<i>Piptadenia constricta</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.91 ± 0.3	0.49 ± 0.17
<i>Piptadenia gonoacantha</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.59 ± 0.19	0.13 ± 0.03
<i>Piptadenia moniliformis</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.21 ± 0.38	0.53 ± 0.13
<i>Piptadenia obliqua</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.38 ± 0.37	0.87 ± 0.23
<i>Piptadenia paniculata</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.95 ± 0.88	1.27 ± 0.35
<i>Piptadenia stipulacea</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.54 ± 0.16	0.09 ± 0.02
<i>Piptadenia viridiflora</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.5 ± 0.1	0.13 ± 0.03
<i>Piscidia carthagenensis</i>	Papilionoideae	Yes	pinnate	6.16 ± 1.29	3.59 ± 1.44
<i>Piscidia piscipula</i>	Papilionoideae	Yes	pinnate	7.6 ± 1.64	4.73 ± 1.46
<i>Pithecellobium arboreum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.94 ± 0.31	0.45 ± 0.3

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Pithecellobium bipinnatum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	3.14 ± 0.82	1.5 ± 0.31
<i>Pithecellobium dulce</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.68 ± 0.78	1.28 ± 0.33
<i>Pithecellobium hymenaeifolium</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	6.97 ± 2.41	3.44 ± 1.43
<i>Pithecellobium lanceolatum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	4.7 ± 0.85	1.55 ± 0.35
<i>Plathymenia reticulata</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.94 ± 0.11	0.41 ± 0.06
<i>Platycyamus regnellii</i>	Papilionoideae	Yes	pinnate	15.34 ± 3.23	15.67 ± 4.88
<i>Platymiscium blanchetii</i>	Papilionoideae	Yes	pinnate		
<i>Platymiscium curuense</i>	Papilionoideae	Yes	pinnate	10.76 ± 3.02	4.75 ± 1.08
<i>Platymiscium dimorphandrum</i>	Papilionoideae	Yes	pinnate	6.29 ± 1.45	2.68 ± 0.67
<i>Platymiscium lasiocarpum</i>	Papilionoideae	Yes	pinnate		
<i>Platymiscium parviflorum</i>	Papilionoideae	Yes	pinnate	8.09 ± 2.24	6.88 ± 2.86
<i>Platymiscium pinnatum</i>	Papilionoideae	Yes	pinnate	6.53 ± 1.97	3.55 ± 0.83
<i>Platymiscium speciosum</i>	Papilionoideae	Yes	pinnate	10.01 ± 3.58	4.67 ± 1.33
<i>Platymiscium ulei</i>	Papilionoideae	Yes	pinnate	6.06 ± 2.05	2.7 ± 0.9
<i>Platymiscium yucatanum</i>	Papilionoideae	Yes	pinnate	3.27 ± 0.93	1.56 ± 0.36
<i>Platypodium elegans</i>	Papilionoideae	Yes	pinnate	2.89 ± 0.49	1.14 ± 0.2
<i>Poecilanthe effusa</i>	Papilionoideae	Yes	pinnate	8.85 ± 1.9	3.2 ± 0.49
<i>Poeppigia procera</i>	Dialioideae (Caesalpinioideae)	No	pinnate	1.5 ± 0.42	0.39 ± 0.1
<i>Poincianella pluviosa</i>	Caesalpinioideae	No	bipinnate	2.04 ± 0.52	1.51 ± 0.3
<i>Prioria copaifera</i>	Detarioideae (Caesalpinioideae)	No	pinnate	9.72 ± 2.25	4.74 ± 1.19
<i>Pseudopiptadenia contorta</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.25 ± 0.09	0.07 ± 0.01

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Pseudosamanea guachapele</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.91 ± 1	1.53 ± 0.51
<i>Pterocarpus acapulcensis</i>	Papilionoideae	Yes	pinnate	5.7 ± 2.17	2.86 ± 1.18
<i>Pterocarpus hayesii</i>	Papilionoideae	Yes	pinnate	11.12 ± 2.94	4.18 ± 0.49
<i>Pterocarpus michelianus</i>	Papilionoideae	Yes	pinnate		
<i>Pterocarpus officinalis</i>	Papilionoideae	Yes	pinnate	8.9 ± 1.41	4.54 ± 0.4
<i>Pterocarpus orbiculatus</i>	Papilionoideae	Yes	pinnate	8.53 ± 0.81	3.27 ± 0.03
<i>Pterocarpus rohrii</i>	Papilionoideae	Yes	pinnate	9.61 ± 1.71	4.17 ± 0.79
<i>Pterocarpus violaceus</i>	Papilionoideae	Yes	pinnate	6.15 ± 1.74	2.96 ± 0.47
<i>Pterocarpus zehntneri</i>	Papilionoideae	Yes	pinnate		
<i>Pterodon abruptus</i>	Papilionoideae	No	pinnate	1.54 ± 0.3	1.07 ± 0.17
<i>Pterogyne nitens</i>	Caesalpinioideae	No	pinnate	4.87 ± 1.01	2.06 ± 0.41
<i>Samanea saman</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	3.42 ± 1.5	1.65 ± 0.54
<i>Schizolobium amazonicum</i>	Caesalpinioideae	No	bipinnate	3.35 ± 1.35	2.26 ± 0.87
<i>Schizolobium parahyba</i>	Caesalpinioideae	No	bipinnate	2.96 ± 0.43	0.78 ± 0.1
<i>Sclerolobium costaricense</i>	Caesalpinioideae	Yes	pinnate	12.69 ± 2.29	5.53 ± 0.88
<i>Sclerolobium densiflorum</i>	Caesalpinioideae	Yes	pinnate	8.54 ± 2.25	5.1 ± 1.17
<i>Sclerolobium paniculatum</i>	Caesalpinioideae	Yes	pinnate	10.27 ± 1.96	3.94 ± 0.92
<i>Sclerolobium paraense</i>	Caesalpinioideae	Yes	pinnate	12.27 ± 2.9	4.04 ± 0.81
<i>Senegalia gaumeri</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.9 ± 0.21	0.33 ± 0.06
<i>Senegalia langsdorffii</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.99 ± 1.18	0.84 ± 1.76
<i>Senegalia loretensis</i>	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.62 ± 0.14	0.14 ± 0.04

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Senegalia martii</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.34 ± 0.07	0.09 ± 0.02
<i>Senegalia piauhiensis</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.88 ± 0.16	0.26 ± 0.08
<i>Senegalia picachensis</i>	Caesalpinioideae (Mimosoideae)	unknown	bipinnate	0.8 ± 0.14	0.25 ± 0.08
<i>Senegalia polyphylla</i>	Caesalpinioideae (Mimosoideae)	No	bipinnate		
<i>Senna acuruensis</i>	Caesalpinioideae	No	pinnate	1.36 ± 0.2	0.65 ± 0.07
<i>Senna atomaria</i>	Caesalpinioideae	No	pinnate	3.73 ± 1.81	2.38 ± 1.19
<i>Senna bacillaris</i>	Caesalpinioideae	No	pinnate	10.5 ± 3.16	4.6 ± 0.87
<i>Senna fruticosa</i>	Caesalpinioideae	No	pinnate	7.89 ± 2.1	3.87 ± 1.51
<i>Senna hayesiana</i>	Caesalpinioideae	No	pinnate	9.08 ± 2.93	4.08 ± 0.97
<i>Senna multijuga</i>	Caesalpinioideae	No	pinnate	2.14 ± 0.75	0.6 ± 0.22
<i>Senna papillosa</i>	Caesalpinioideae	No	pinnate	14.65 ± 2.75	6.13 ± 0.83
<i>Senna racemosa</i>	Caesalpinioideae	No	pinnate	7.89 ± 2.1	3.87 ± 1.51
<i>Senna spectabilis</i>	Caesalpinioideae	No	pinnate	5.04 ± 1.09	1.83 ± 0.29
<i>Senna sylvestris</i>	Caesalpinioideae	No	pinnate	6.96 ± 1.73	2.47 ± 0.48
<i>Senna undulata</i>	Caesalpinioideae	No	pinnate	6.11 ± 1.79	3.01 ± 0.77
<i>Senna velutina</i>	Caesalpinioideae	No	pinnate	5.13 ± 1.6	2.1 ± 0.65
<i>Senna villosa</i>	Caesalpinioideae	No	pinnate	3.97 ± 0.89	1.66 ± 0.34
<i>Stryphnodendron barbatimam</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.6 ± 0.17	1.4 ± 0.1
<i>Stryphnodendron guianense</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.85 ± 0.27	0.37 ± 0.11
<i>Stryphnodendron microstachyum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	2.18 ± 0.61	1.03 ± 0.25
<i>Stryphnodendron occhionianum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate		
<i>Stryphnodendron pulcherrimum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.6 ± 0.17	0.21 ± 0.07
<i>Stryphnodendron purpureum</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate		
<i>Swartzia apetala</i>	Papilionoideae	Yes	pinnate	6.34 ± 1.16	2.94 ± 0.46

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Swartzia apetala</i> var <i>apetala</i>	Papilionoideae	Yes	pinnate	7.06 ± 2.23	3.4 ± 1.11
<i>Swartzia arborescens</i>	Papilionoideae	Yes	pinnate	3.89 ± 1.71	2.12 ± 0.55
<i>Swartzia brachyrachis</i>	Papilionoideae	Yes	pinnate	5.6 ± 1.88	2.68 ± 0.66
<i>Swartzia cubensis</i>	Papilionoideae	Yes	pinnate	6.45 ± 1.4	2.13 ± 0.18
<i>Swartzia cuspidata</i>	Papilionoideae	Yes	pinnate	7.91 ± 1.44	3.55 ± 0.85
<i>Swartzia flaemingii</i>	Papilionoideae	Yes	pinnate	3.65 ± 1.32	1.39 ± 0.64
<i>Swartzia laurifolia</i>	Papilionoideae	Yes	pinnate	17.87 ± 5.79	6.69 ± 2.61
<i>Swartzia laxiflora</i>	Papilionoideae	Yes	pinnate	7.12 ± 2.05	2.41 ± 0.63
<i>Swartzia macrostachya</i>	Papilionoideae	Yes	pinnate	5.2 ± 1.97	2.83 ± 1.01
<i>Swartzia multijuga</i>	Papilionoideae	Yes	pinnate	7.73 ± 2.23	3.12 ± 0.42
<i>Swartzia myrtifolia</i>	Papilionoideae	Yes	pinnate	3.76 ± 1.07	1.53 ± 0.44
<i>Swartzia nicaraguensis</i>	Papilionoideae	Yes	pinnate	7.9 ± 1.7	3.63 ± 0.67
<i>Swartzia ochracea</i>	Papilionoideae	Yes	unifoliolate	14.37 ± 8.32	5.48 ± 2.64
<i>Swartzia panamensis</i>	Papilionoideae	Yes	pinnate	9.74 ± 3.37	3.24 ± 0.63
<i>Swartzia polyphylla</i>	Papilionoideae	Yes	pinnate	10.52 ± 4.36	3.83 ± 1.61
<i>Swartzia reticulata</i>	Papilionoideae	Yes	pinnate	16.01 ± 3.89	8.47 ± 1.44
<i>Swartzia schomburgkii</i>	Papilionoideae	Yes	pinnate	12.33 ± 2.36	5.24 ± 0.91
<i>Swartzia simplex</i>	Papilionoideae	Yes	unifoliolate		
<i>Swartzia simplex</i> var <i>continentalis</i>	Papilionoideae	Yes	unifoliolate	9.41 ± 2.71	4.14 ± 1.25
<i>Swartzia simplex</i> var <i>grandiflora</i>	Papilionoideae	Yes	unifoliolate	5.5 ± 1.87	2.75 ± 0.8
<i>Swartzia tessmannii</i>	Papilionoideae	Yes	pinnate	7.75 ± 2.67	4.03 ± 0.67
<i>Sweetia fruticosa</i>	Papilionoideae	No	pinnate	2.57 ± 0.76	1.27 ± 0.2
<i>Tabaroa caatingicola</i>	Papilionoideae	Yes	pinnate	3.94 ± 0.79	2.21 ± 0.27
<i>Tachigali cenepensis</i>	Caesalpinioideae	Yes	pinnate	18.63 ± 6.15	9.03 ± 1.3
<i>Tachigali chrysaloides</i>	Caesalpinioideae	Yes	pinnate	11.12 ± 3.7	4.32 ± 1.31
<i>Tachigali macbridei</i>	Caesalpinioideae	Yes	pinnate	10.5 ± 3.68	3.87 ± 1.14
<i>Tachigali</i> <i>myrmecophila</i>	Caesalpinioideae	Yes	pinnate	9.64 ± 3.01	3.8 ± 1.17
<i>Tachigali paniculata</i>	Caesalpinioideae	Yes	pinnate	7.93 ± 1.88	3.63 ± 1.22
<i>Tachigali polyphylla</i>	Caesalpinioideae	Yes	pinnate	6.34 ± 3.36	2.03 ± 1.2
<i>Tachigali vasquezii</i>	Caesalpinioideae	Yes	pinnate		
<i>Tachigali versicolor</i>	Caesalpinioideae	Yes	pinnate	15.4 ± 4.9	5.07 ± 1.11

Species	Subfamily	Potential to fix N ₂	Leaf type	Leaflet length	Leaflet width
<i>Vachellia allenii</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.7 ± 0.07	0.18 ± 0.03
<i>Vachellia campechiana</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.11 ± 0.01	0.04 ± 0.01
<i>Vachellia collinsii</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.69 ± 0.15	0.16 ± 0.02
<i>Vachellia cornigera</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.62 ± 0.12	0.17 ± 0.04
<i>Vachellia farnesiana</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.3 ± 0.05	0.08 ± 0.02
<i>Vachellia macracantha</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.22 ± 0.06	0.06 ± 0.01
<i>Vatairea erythrocarpa</i>	Papilionoideae	No	pinnate	10.13 ± 3.21	4.69 ± 1.63
<i>Vatairea lundellii</i>	Papilionoideae	No	pinnate	5.56 ± 1.88	2.29 ± 0.58
<i>Vataireopsis glaziovii</i>	Papilionoideae	No	pinnate		
<i>Vataireopsis iglesiasii</i>	Papilionoideae	No	pinnate	7.12 ± 8.5	6.67 ± 7.42
<i>Zapoteca formosa</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	1.81 ± 1.15	0.98 ± 0.6
<i>Zollernia latifolia</i>	Papilionoideae	No	unifoliolate	9.47 ± 2.47	9.36 ± 2.11
<i>Zollernia paraensis</i>	Papilionoideae	No	unifoliolate	10.2 ± 2.08	3.69 ± 0.68
<i>Zygia cognata</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	7.71 ± 3.08	2.78 ± 1.16
<i>Zygia gigantifoliola</i>	Caesalpinioideae (Mimosoideae)	Yes	pinnate	17.03 ± 6.02	5.57 ± 2.4
<i>Zygia racemosa</i>	Caesalpinioideae (Mimosoideae)	Yes	bipinnate	0.74 ± 0.06	0.24 ± 0.02

