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CLASSIFICATION

A genus-level phylogenetic linear sequence of monocots

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Abstract This paper provides an up-to-date linear sequence of monocot families and genera (excluding Orchidaceae and Poaceae) based on current phylogenetic evidence. The sequence is provided in a numbered list of each of the 1225 genera in 75 monocot families, together with a complementary alphabetical list. The sequence represents a standardized tool for the organisation of monocot herbarium collections.

Keywords Floras; generic arrangement; herbarium curation; linear sequence; monocot classification; monocotyledons

INTRODUCTION

Numerous flowering plant classification systems have provided linear taxonomic sequences based on phylogenetic data and the APG system (APG, 1998; APG II, 2003; APG III, 2009), as summarised in several recent publications (Haston & al., 2007, 2009; Christenhusz & al., 2011; Lewis & al., 2013; Wearn & al., 2013). Adopting a phylogeny-driven linear sequence in herbaria and books has been reported to be more advantageous than an alphabetical arrangement (Funk, 2003). However, the fitting of complex taxonomic relationships into a linear system, particularly those derived from phylogenetic trees, is challenging and inevitably involves a loss of information (Haston & al., 2007, 2009; Lewis & al., 2013; Wearn & al., 2013). The resulting linear sequence is dependent on the methodology used and needs to be understood in the context of a phylogenetic tree (Haston & al., 2009). In some cases, the choice of methodology has proved controversial. For example, the linear sequence proposed in Haston & al. (2007) was questioned by Hawthorne & Hughes (2008). Their main criticism was that Haston & al.'s (2007) sequence was "incompletely optimized for incompletely specified criteria". Hawthorne & Hughes's (2008) suggestion – if a standard sequence is to be adopted – was to conserve desirable existing morphology-based sequences without contradicting phylogenetic tree topology. But ultimately their optimal solution would involve the development of tree projection software to produce optimum projections. Unfortunately, Hawthorne & Hughes (2008) do not suggest a clear standardised methodology to generate a linear sequence and thus we have adopted a methodology similar to that of Haston & al. (2007).

Monocots (or monocotyledons) currently comprise 77 families, which together contain ca. 74,500 species in 2705 genera (Pridgeon & al., 1999, 2001, 2003, 2005, 2009, 2014; Clayton & al., 2006–; eMonocot, 2014). They represent 20% of flowering plants (eMonocot, 2014) and have great economic importance, accounting for 84% of the 10 major plant foods in global human consumption (FAO, 2010). Monocot phylogenetic relationships have been the focus of significant research in the last couple of decades, encouraged by six international conferences since 1993. The need for a new linear sequence for monocots arose in the context of the re-organisation of the Herbarium at the Royal Botanic Gardens, Kew. This offered the opportunity to update the physical arrangement of the monocot collection from a mix of classification systems based mainly on morphological evidence (i.e., Bentham & Hooker, 1862–1883; Moore, 1973; Dahlgren & al., 1985; Uhl & Dransfield, 1987) to a system that more accurately represents the phylogenetic relationships within and between the monocot families. This paper presents a phylogeny-driven linear generic structure for the monocots (excluding Orchidaceae and Poaceae) comprising all genera accepted up to August 2013. It is hoped that this list will be a useful tool for herbarium curators to re-arrange their monocot genera.

All accepted generic names and species numbers were taken from the "World checklist of selected plant families" (WCSP, 2014) and eMonocot (2014). The methodology used to obtain the linear sequence is similar to the one used in Haston & al. (2007) and Lewis & al. (2013). We used the most up-to-date phylogenies published at the time for each of the families (Table 1). Within each family, nodes were rotated such that clades with fewer genera were placed before clades with a greater number of genera. For sister clades that have an equal number of genera, the clade with fewer species was placed first. In many cases, intergeneric relationships of particular clades were unclear due to polytomies, paraphyly and polyphyly; genera in such clades were arranged by increasing number of species (except in the case of the palms (Arecaceae) where they were ordered alphabetically to be consistent with the widely used phylogenetic classification of Dransfield & al., 2008). At terminal nodes, genera with fewer species where placed before

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genera with a greater number of species. Sister genera with the same number of species were arranged alphabetically. As indicated in Haston & al. (2007), the placement of smaller clades/genera first prevents smaller genera in a clade being widely separated and minimises the number of nodes separating genera adjacent in the sequence. The position of unsampled genera was determined using relevant literature (Table 1) on the basis of morphological characters. These genera were placed either before their reported closest relative if they had fewer species, or after it if they had more.

We present here the linear sequence for 75 monocot families containing 1225 genera (Table 2). Orchidaceae and Poaceae are not included because linear sequences for these families are in preparation elsewhere. Table 3 is an alphabetical list of the monocot genera presented in Table 2. Note there is no family 41 in the sequence (Tables 2 and 3) – this is due to the sinking of previously recognised Ruppiaceae into Cymodoceaceae according to the latest Alismatid phylogeny (Les & Tippery, 2013). For practical reasons we recommend the use of both the familial and subfamilial classification on the cabinet labels for families that have been extensively re-circumscribed such as Xanthorrhoeaceae, Amaryllidaceae and Asparagaceae. Together with a cross-referenced index this will allow a speedier location of the desired taxon. Table 4 provides the subfamilies and the corresponding generic numbers allocated in the new monocot linear sequence. We have attempted to account for all validly published generic names, but acknowledge that some may have been overlooked. We welcome feedback regarding errors or omissions in order that the linear sequence can be improved in the future.

There are still areas of considerable uncertainty across the monocots due to both lack of resolution in some phylogenies and the large number of genera still remaining unsampled; thus we expect changes in the linear sequence will be needed as more phylogenetic data become available. Areas of controversy in most need of attention are: the interfamilial relationships of Dioscoreales; the intergeneric relationships of Amaryllidaceae, Asparageaceae, Bromeliaceae, Commelinaceae, Cyclanthaceae, Cyperaceae, Eriocaulaceae, Pontederiaceae, Potamogetonaceae, Iridaceae, Juncaceae, Zingiberaceae; the position of Corsiaceae and Dasypogonaceae; and the position and status of the genus *Maundia* F.Muell.

Table 1. List of publications used to obtain the linear sequence arranged by family.

Order	Family	Family seq. no.	Literature consulted
Acorales	Acoraceae	29	Chase & al., 2000b, 2006; Jansen & Bremer, 2004
Alismatales	Araceae	30	Mansion & al., 2008; Cusimano & al., 2010, 2011; Linz & al., 2010; Boyce & Croat, 2012; Gonçalves, 2012; Nauheimer & al., 2012; Nauheimer & Boyce, 2013; Yeng & al., 2013; Low & al., 2014
	Tofieldiaceae	31	Azuma & Tobe, 2011; Remizowa & al., 2011; Sokoloff & al., 2011
	Alismataceae	32	Les & al., 1997; Lehtonen & Myllys, 2008; Chen & al., 2012; Les & Tippery, 2013
	Butomaceae	33	Les & Tippery, 2013
	Hydrocharitaceae	34	Les & al., 1997, 2006; Les & Tippery, 2013
	Scheuchzeriaceae	35	Les & Tippery, 2013
	Aponogetonaceae	36	Les & Tippery, 2013
	Juncaginaceae	37	Iles & al., 2009; Mering & Kadereit, 2010; Les & Tippery, 2013
	Zosteraceae	38	Les & Tippery, 2013
	Potamogetonaceae	39	Tomlinson & Posluszny, 1976; Les & al., 1997; Lindqvist & al., 2006; Les & Tippery, 2013
	Posidoniaceae	40	Les & Tippery, 2013
	Cymodoceaceae	42	Les & Tippery, 2013
Petrosaviales	Petrosaviaceae	43	Chase & al., 2000b, 2006; Cameron & al., 2003; Jansen & Bremer, 2004
Dioscoreales	Nartheciaceae	44	Merckx & al., 2008b; Fuse & al., 2012
	Burmanniaceae	45	Merckx & al., 2006, 2008a, 2009; Yokoyama & al., 2008; Merckx, 2013
	Dioscoreaceae	46	Caddick & al., 2002a, b; Merckx & al., 2009; Merckx, 2013
Pandanales	Triuridaceae	47	Rudall & Bateman, 2006; Mennes & al., 2013; Merckx, 2013
	Velloziaceae	48	Mello-Silva, 2005; Mello-Silva & al., 2011
	Stemonaceae	49	Rudall & al., 2005; Mennes & al., 2013
	Cyclanthaceae	50	Hammel & Wilder, 1989; Eriksson, 1994; Mennes & al., 2013
	Pandanaceae	51	Callmander & al., 2003, 2012a, b; Buerki & al., 2012a
Liliales	Campynemataceae	52	Kim & al., 2013; Petersen & al., 2013
	Melanthiaceae	53	APG, 1998; Zomlefer & al., 2001, 2003, 2006; APG II, 2003; Farmer, 2006; APG III, 2009; Kim & al., 2013; Petersen & al., 2013; eMonocot, 2014
	Petermanniaceae	54	Kim & al., 2013; Petersen & al., 2013

Table 1. Continued.

Order	Family	Family seq. no.	Literature consulted
Liliales *(continued)*	Alstroemeriaceae	55	Sanso, 1996; Sanso & Xifreda, 1999, 2001; Aagesen & Sanso, 2003; Kim & al., 2013; Petersen & al., 2013
	Colchicaceae	56	Persson & al., 2011; Kim & al., 2013; Nguyen & al., 2013
	Philesiaceae	57	Kim & al., 2013
	Ripogonaceae	58	Kim & al., 2013; Petersen & al., 2013; Seberg & al., 2013
	Smilacaceae	59	Cameron & Fu, 2006; Li & al., 2011; Qi & al., 2012; Kim & al., 2013; Petersen & al., 2013
	Corsiaceae	60	Neyland & Hennigan, 2003; Davis & al., 2004; Chase & al., 2006; Fay & al., 2006a; Kim & al., 2013; Merckx, 2013
	Liliaceae	61	Clennet & al., 2012; Christenhusz & al., 2013; Kim & al., 2013; Petersen & al., 2013; Türktas & al., 2013
Asparagales	Boryaceae	63	Seberg & al., 2012
	Blandfordiaceae	64	Seberg & al., 2012; Chen & al., 2013
	Asteliaceae	65	Birch & al., 2012
	Lanariaceae	66	Seberg & al., 2012; Chen & al., 2013
	Hypoxidaceae	67	Kocyan & al., 2011; Liu & al., 2012
	Tecophilaeaceae	68	Buerki & al., 2013
	Doryanthaceae	69	Seberg & al., 2012; Chen & al., 2013
	Ixioliriaceae	70	Seberg & al., 2012; Chen & al., 2013
	Iridaceae	71	Goldblatt & Henrich, 1991; Goldblatt & al., 1998, 2008; Gil & al., 2008; Chauveau & al., 2012; Lovo & al., 2012; Forest & al., 2014;
	Xeronemataceae	72	Seberg & al., 2012; Chen & al., 2013
	Xanthorrhoeaceae	73	Chase & al., 2000a, 2009; Devey & al., 2006; Wurdack & Dorr, 2009; Boatwright & Manning, 2010; Klopper & al., 2010, 2013; Daru & al., 2013; Grace & al., 2013; Manning & al., 2014
	Amaryllidaceae	74	Meerow, 1987, 2010; Fay & Chase, 1996; Meerow & Snijman, 1998, 2001, 2006; Meerow & al., 1999, 2000a, b, 2006; Ravenna, 2000; Lledo & al., 2004; Meerow & Clayton, 2004; Fay & al., 2006b; Vosa, 2007; Bay-Smidt & al., 2010; Larsen & al., 2010; Li & al., 2010; Garcia & al., 2014; Jara-Arancio & al., 2014
	Asparagaceae	75	Cruden, 1987; Cruden & al., 1991; Chase & al., 1996, 2009; Tamura & al., 1997; Conran, 1998; Pfosser & Speta, 1999; Pires & al., 2001; Pires & Sytsma, 2002; Lopes & Andreata, 2003, 2006; Manning & al., 2004, 2009; Bogler & al., 2006; Smith & al., 2008; Fishbein & al., 2010; Kim & al., 2010; Martínez-Azorín & al., 2011, 2013; Buerki & al., 2012b; Chen & al., 2013; Lopes & al., 2013
Arecales	Arecaceae/Palmae	76	Dransfield & al., 2005, 2008; Baker & al., 2009; Bacon & Baker, 2011; Henderson & Bacon, 2011; Galeano & Bernal, 2013; Heatubun & al., 2014; Zona & Baker, 2014; Baker, 2015
Commelinales	Hanguanaceae	77	Saarela & al., 2008
	Commelinaceae	78	Conran, 1994; Faden, 1998; Evans & al., 2000, 2003; Hardy & Faden, 2004; Burns & al., 2011
	Philydraceae	79	Saarela & al., 2008
	Pontederiaceae	80	Graham & al., 1998; Ness & al., 2011
	Haemodoraceae	81	Hopper & al., 2009
Zingiberales	Strelitziaceae	82	Kress & Specht, 2006
	Lowiaceae	83	Kress & Specht, 2006
	Heliconiaceae	84	Kress & Specht, 2006; Barrett & al., 2014
	Musaceae	85	Kress & Specht, 2006
	Cannaceae	86	Kress & Specht, 2006; Barrett & al., 2014
	Marantaceae	87	Andersson, 1998; Prince & Kress, 2006; Suksathan & al., 2009; Borchsenius & al., 2012; Vieira & al., 2012; Saka & Lombardi, 2014
	Costaceae	88	Specht & Stevenson, 2006
	Zingiberaceae	89	Newman, 1995; Larsen & al., 1998; Larsen & Jenjittikul, 2001; Kress & al., 2002, 2005; Williams & al., 2003; Ngamriabsakul & al., 2004; Pedersen, 2004; Harris & al., 2006; Takano & Nagamasu, 2007; Leong-Škorničková & al., 2011; Sakai & al., 2013
unplaced	Dasypogonaceae	90	Rudall, 1994; Rudall & Chase, 1996; Chase & al., 2000b, 2006; Jansen & Bremer, 2004; Rudall & Conran, 2012

Table 1. Continued.

Order	Family	Family seq. no.	Literature consulted
Poales	Typhaceae	91	Givnish & al., 2010
	Bromeliaceae	92	Smith & Till, 1998; Givnish & al., 2006, 2011; Horres & al., 2007; Schulte & al., 2009; Louzada & Versieux, 2010; Sass & Specht, 2010
	Rapateaceae	93	Givnish & al., 2004
	Xyridaceae	94	Kral, 1998; Campbell, 2012
	Eriocaulaceae	95	Gomes de Andrade & al., 2010, 2011; Echternacht & al., 2014
	Mayacaceae	96	Givnish & al., 2010
	Thurniaceae	97	Givnish & al., 2010
	Juncaceae	98	Záveská Drábková, 2010; Záveská Drábková & Kirschner, 2013
	Cyperaceae	99	Thomas & Davidse, 1989; Goetghebeur, 1998; Strong, 2003; Starr & al., 2004; Lee & Oh, 2007; Muasya & al., 2009; Muasya & De Lange, 2010; Yano & al., 2012; Gilmour & al., 2013; Bauters & al., 2014; Larridon & al., 2014; Shiels & al., 2014
	Anarthriaceae	100	Briggs & al., 2000, 2010, 2014
	Centrolepidaceae	101	Briggs & al., 2000, 2010, 2014
	Restionaceae	102	Linder & al., 1998; Briggs & al., 2000, 2010, 2014; Briggs & Linder, 2009; Linder, 2011; Briggs, 2014a, b
	Flagellariaceae	103	Givnish & al., 2010
	Joinvilleaceae	104	Givnish & al., 2010
	Ecdeiocoleaceae	105	Givnish & al., 2010

Table 2. Numbered linear sequence of monocot genera (excluding Orchidaceae and Poaceae) arranged by family. Family sequence number from Haston & al. (2009) and Wearn & al. (2013).

Acorales, 1 family		*Anadendrum* Schott	20	*Philodendron* Schott	44
29. Acoraceae, 1 genus		*Rhaphidophora* Hassk.	21	*Furtadoa* M.Hotta	45
Acorus L.	1	*Scindapsus* Schott	22	*Homalomena* Schott	46
Alismatales, 12 families		*Monstera* Adans.	23	*Aglaodorum* Schott	47
30. Araceae, 123 genera		*Amydrium* Schott	24	*Aglaonema* Schott	48
Gymnostachys R.Br.	1	*Epipremnum* Schott	25	*Nephthytis* Schott	49
Orontium L.	2	*Urospatha* Schott	26	*Pseudohydrosme* Engl.	50
Lysichiton Schott	3	*Dracontium* L.	27	*Anchomanes* Schott	51
Symplocarpus Salisb. ex W.P.C.Barton	4	*Dracontioides* Engl.	28	*Zantedeschia* Spreng.	52
Spirodela Schleid.	5	*Anaphyllopsis* A.Hay	29	*Lorenzia* E.G.Gonç.	53
Lemna L.	6	*Podolasia* N.E.Br.	30	*Bognera* Mayo & Nicolson	54
Landoltia Les & D.J.Crawford	7	*Lasia* Lour.	31	*Gearum* N.E.Br.	55
Wolffiella Hegelm.	8	*Cyrtosperma* Griff.	32	*Synandrospadix* Engl.	56
Wolffia Horkel ex Schleid	9	*Pycnospatha* Thorel ex Gagnep.	33	*Croatiella* E.G.Gonç.	57
Anthurium Schott	10	*Lasimorpha* Schott	34	*Spathicarpa* Hook.	58
Pothos L.	11	*Anaphyllum* Schott	35	*Taccarum* Brongn. ex Schott	59
Pedicellarum M.Hotta	12	*Stylochaeton* Lepr.	36	*Asterostigma* Fisch. & C.A.Mey.	60
Pothoidium Schott	13	*Zamioculcas* Schott	37	*Dieffenbachia* Schott	61
Stenospermation Schott	14	*Gonatopus* Engl.	38	*Mangonia* Schott	62
Heteropsis Kunth	15	*Callopsis* Engl.	39	*Incarum* E.G.Gonç.	63
Alloschemone Schott	16	*Anubias* Schott	40	*Spathantheum* Schott	64
Rhodospatha Poepp.	17	*Cercestis* Schott	41	*Gorgonidium* Schott	65
Holochlamys Engl.	18	*Culcasia* P.Beauv.	42	*Montrichardia* Crueg.	66
Spathiphyllum Schott	19	*Adelonema* Schott	43	*Philonotion* Schott	67

Table 2. Continued.

Lagenandra Dalzell	68
Cryptocoryne Fisch. ex Wydler	69
Apoballis Schott	70
Pichinia S.Y.Wong & P.C.Boyce	71
Piptospatha N.E.Br.	72
Schottariella P.C.Boyce & S.Y.Wong	73
Phymatarum M.Hotta	74
Schottarum P.C.Boyce & S.Y.Wong	75
Schismatoglottis Zoll. & Moritzi	76
Ooia S.Y.Wong & P.C.Boyce	77
Hottarum Bogner & Nicolson	78
Aridarum Ridl.	79
Bakoa P.C.Boyce & S.Y.Wong	80
Hestia S.Y.Wong & P.C.Boyce	81
Bucephalandra Schott	82
Calla L.	83
Amorphophallus Blume ex Decne.	84
Jasarum G.S.Bunting	85
Hapaline Schott	86
Caladium Vent.	87
Syngonium Schott	88
Filarum Nicolson	89
Ulearum Engl.	90
Chlorospatha Engl.	91
Xanthosoma Schott	92
Scaphispatha Brongn. ex Schott	93
Zomicarpella N.E.Br.	94
Zomicarpa Schott	95
Ambrosina Bassi	96
Arisarum Mart.	97
Typhonodorum Schott	98
Peltandra Raf.	99
Arophyton Jum.	100
Colletogyne Buchet	101
Carlephyton Jum.	102
Protarum Engl.	103
Pistia L.	104
Englerarum Nauheimer & P.C.Boyce	105
Ariopsis Nimmo	106
Colocasia Schott	107
Remusatia Schott	108
Steudnera K.Koch	109
Leucocasia Schott	110
Alocasia (Schott) G.Don	111
Pinellia Ten.	112
Arisaema Mart.	113
Theriophonum Blume	114
Lazarum A.Hay	115
Typhonium Schott	116
Sauromatum Schott	117
Eminium Schott	118
Helicodiceros Schott	119
Biarum Schott	120
Dracunculus Mill.	121
Gymnomesium Schott	122
Arum L.	123
31. Tofieldiaceae, 4 genera	
Pleea Michx.	1
Isidrogalvia Ruiz & Pav.	2
Triantha (Nutt.) Baker	3
Tofieldia Huds.	4
32. Alismataceae, 17 genera	
Luronium Raf.	1
Damasonium Mill.	2
Baldellia Parl.	3
Alisma L.	4
Burnatia Micheli	5
Limnocharis Humb. & Bonpl.	6
Butomopsis Kunth	7
Hydrocleys Rich.	8
Ranalisma Stapf	9
Caldesia Parl.	10
Helanthium (Benth. & Hook.f.) Engelm. ex J.G.Sm.	11
Albidella Pichon	12
Echinodorus Rich.	13
Sagittaria Rupp. ex L.	14
Astonia S.W.L.Jacobs	15
Limnophyton Miq.	16
Wiesneria Micheli	17
33. Butomaceae, 1 genus	
Butomus L.	1
34. Hydrocharitaceae, 17 genera	
Limnobium Rich.	1
Hydrocharis L.	2
Appertiella C.D.K.Cook & L.Triest	3
Lagarosiphon Harv.	4
Blyxa Noronha ex Thouars	5
Ottelia Pers.	6
Apalanthe Planch.	7
Egeria Planch.	8
Elodea Michx.	9
Stratiotes L.	10
Hydrilla Rich.	11
Nechamandra Planch.	12
Vallisneria P.Micheli ex L.	13
Najas L.	14
Halophila Thouars	15
Enhalus Rich.	16
Thalassia Banks & Sol. ex K.D. Koenig	17
35. Scheuchzeriaceae, 1 genus	
Scheuchzeria L.	1
36. Aponogetonaceae, 1 genus	
Aponogeton L.f.	1
37. Juncaginaceae, 4 genera	
Tetroncium Willd.	1
Cycnogeton Endl.	2
Triglochin Riv. ex L.	3
Maundia F.Muell.	4
38. Zosteraceae, 2 genera	
Phyllospadix Hook.	1
Zostera L.	2
39. Potamogetonaceae, 7 genera	
Althenia F.Petit	1
Lepilanea J.Drumm. ex Harv.	2
Pseudoalthenia	3
Zannichellia P.Micheli ex L.	4
Groenlandia J.Gay	5
Stuckenia Börner	6
Potamogeton L.	7
40. Posidoniaceae, 1 genus	
Posidonia K.D.Koenig	1
42. Cymodoceaceae, 6 genera	
Ruppia L.	1
Halodule Endl.	2
Thalassodendron Hartog	3
Cymodocea K.D.Koenig	4
Amphibolis C.Agardh	5
Syringodium Kütz.	6
Petrosaviales, 1 family	
43. Petrosaviaceae, 2 genera	
Japonolirion Nakai	1
Petrosavia Becc.	2
Dioscoreales, 3 families	
44. Nartheciaceae, 5 genera	
Metanarthecium Maxim.	1
Aletris L.	2
Lophiola Ker Gawl.	3
Nietneria Klotzsch ex Benth.	4
Narthecium Huds.	5

Table 2. Continued.

45. Burmanniaceae, 13 genera	
Marthella Urb.	1
Miersiella Urb.	2
Campylosiphon Benth.	3
Dictyostega Miers	4
Hexapterella Urb.	5
Gymnosiphon Blume	6
Apteria Nutt.	7
Burmannia L.	8
Oxygyne Schltr.	9
Afrothismia Schltr.	10
Thismia Griff.	11
Haplothismia Airy Shaw	12
Tiputinia P.E.Berry & C.L.Woodw.	13
46. Dioscoreaceae, 4 genera	
Stenomeris Planch.	1
Tacca J.R.Forst. & G.Forst.	2
Trichopus Gaertn.	3
Dioscorea Plum. ex L.	4
Pandanales, 5 families	
47. Triuridaceae, 9 genera	
Kihansia Cheek	1
Kupea Cheek & S.A.Williams	2
Peltophyllum Gardner	3
Triuridopsis H.Maas &Maas	4
Lacandonia E.Martínez & Ramos	5
Triuris Miers	6
Soridium Miers	7
Seychellaria Hemsl.	8
Sciaphila Blume	9
48. Velloziaceae, 5 genera	
Acanthochlamys P.C.Kao	1
Xerophyta Juss.	2
Barbacenia Vand.	3
Barbaceniopsis L.B.Sm.	4
Vellozia Vand.	5
49. Stemonaceae, 4 genera	
Pentastemona Steenis	1
Stemona Lour.	2
Stichoneuron Hook.f.	3
Croomia Torr.	4
50. Cyclanthaceae, 12 genera	
Cyclanthus Poit. ex A.Rich.	1
Schultesiophytum Harling	2
Dicranopygium Harling	3
Ludovia Brongn.	4
Sphaeradenia Harling	5
Stelestylis Drude	6
Chorigyne R.Erikss.	7
Thoracocarpus Harling	8
Asplundia Harling	9
Carludovica Ruiz & Pav.	10
Dianthoveus Hammel & G.J.Wilder	11
Evodianthus Oerst.	12
51. Pandanaceae, 5 genera	
Sararanga Hemsl.	1
Freycinetia Gaudich.	2
Martellidendron (Pic.Serm.) Callm. & Chassot	3
Benstonea Callm. & Buerki	4
Pandanus Parkinson	5
Liliales, 10 families	
52. Campynemataceae, 2 genera	
Campynema Labill.	1
Campynemanthe Baill.	2
53. Melanthiaceae, 16 genera	
Zigadenus Michx.	1
Schoenocaulon A.Gray	2
Amianthium A.Gray	3
Veratrum L.	4
Toxicoscordion Rydb.	5
Stenanthium (A.Gray) Kunth	6
Anticlea Kunth	7
Chamaelirium Willd.	8
Helonias L.	9
Ypsilandra Franch.	10
Chionographis Maxim.	11
Heloniopsis A.Gray	12
Xerophyllum Michx.	13
Pseudotrillium S.B.Farmer	14
Paris L.	15
Trillium L.	16
54. Petermanniaceae, 1 genus	
Petermannia F.Muell.	1
55. Alstroemeriaceae, 4 genera	
Drymophila R.Br.	1
Luzuriaga Ruiz & Pav.	2
Bomarea Mirb.	3
Alstroemeria L.	4
56. Colchicaceae, 16 genera	
Uvularia L.	1
Disporum Salisb. ex G.Don	2
Burchardia R.Br.	3
Kuntheria Conran & Clifford	4
Tripladenia D.Don	5
Schelhammera R.Br.	6
Camptorrhiza Hutch.	7
Iphigenia Kunth	8
Baeometra Salisb. ex Endl.	9
Wurmbea Thunb.	10
Gloriosa L.	11
Sandersonia Hook.	12
Ornithoglossum Salisb.	13
Hexacyrtis Dinter	14
Androcymbium Willd.	15
Colchicum L.	16
57. Philesiaceae, 2 genera	
Lapageria Ruiz & Pav.	1
Philesia Comm. ex Juss.	2
58. Rhipogonaceae, 1 genus	
Ripogonum J.R.Forst. & G.Forst.	1
59. Smilacaceae, 2 genera	
Heterosmilax Kunth	1
Smilax L.	2
60. Corsiaceae, 3 genera	
Arachnitis Phil.	1
Corsia Becc.	2
Corsiopsis D.X.Zhang, R.M.K.Saunders & C.M.Hu	3
61. Liliaceae, 16 genera	
Tricyrtis Wall.	1
Streptopus Michx.	2
Scoliopus Torr.	3
Prosartes D.Don	4
Calochortus Pursh	5
Medeola Gronov. ex L.	6
Clintonia Raf.	7
Gagea Salisb.	8
Tulipa L.	9
Amana Honda	10
Erythronium L.	11
Notholirion Wall. ex Boiss.	12
Cardiocrinum (Endl.) Lindl.	13
Fritillaria Tourn. ex L.	14
Nomocharis Franch.	15
Lilium Tourn. ex L.	16
Asparagales, 14 families	
62. Orchidaceae, not included	
63. Boryaceae, 2 genera	
Alania Endl.	1
Borya Labill.	2

Table 2. Continued.

64. Blandfordiaceae, 1 genus	
Blandfordia Sm.	1
65. Asteliaceae, 4 genera	
Neoastelia J.B.Williams	1
Milligania Hook.f.	2
Collospermum Skottsb.	3
Astelia Banks & Sol. ex R.Br.	4
66. Lanariaceae, 1 genus	
Lanaria Aiton	1
67. Hypoxidaceae, 10 genera	
Rhodohypoxis Nel	1
Hypoxis L.	2
Empodium Salisb.	3
Pauridia Harv.	4
Saniella Hilliard & B.L.Burtt	5
Spiloxene Salisb.	6
Sinocurculigo Z.J.Liu, L.J.Chen & K.Wei Liu	7
Hypoxidia F.Friedmann	8
Molineria Colla	9
Curculigo Gaertn.	10
68. Tecophilaeaceae, 9 genera	
Conanthera Ruiz & Pav.	1
Tecophilaea Bertero ex Colla	2
Zephyra D.Don	3
Odontostomum Torr.	4
Kabuyea Brummitt	5
Cyanastrum Oliv.	6
Walleria J.Kirk	7
Eremiolirion J.C.Manning & F.Forest	8
Cyanella Royen ex L.	9
69. Doryanthaceae, 1 genus	
Doryanthes Corrêa	1
70. Ixioliriaceae, 1 genus	
Ixiolirion Fisch. ex Herb.	1
71. Iridaceae, 69 genera	
Isophysis T.Moore	1
Patersonia R.Br.	2
Geosiris Baill.	3
Aristea Aiton	4
Nivenia Vent.	5
Witsenia Thunb.	6
Klattia Baker	7
Tritoniopsis L.Bolus	8
Melasphaerula Ker Gawl.	9
Gladiolus Tourn. ex L.	10
Micranthus (Pers.) Eckl.	11
Thereianthus G.J.Lewis	12
Pillansia L.Bolus	13
Watsonia Mill.	14
Lapeirousia Pourr.	15
Cyanixia Goldblatt & J.C.Manning	16
Savannosiphon Goldblatt & Marais	17
Zygotritonia Mildbr.	18
Xenoscapa (Goldblatt) Goldblatt & J.C.Manning	19
Freesia Eckl. ex Klatt	20
Devia Goldblatt & J.C.Manning	21
Crocosmia Planch.	22
Radinosiphon N.E.Br.	23
Romulea Maratti	24
Crocus L.	25
Syringodea Hook.f.	26
Hesperantha Ker Gawl.	27
Geissorhiza Ker Gawl.	28
Chasmanthe N.E.Br.	29
Babiana Ker Gawl.	30
Duthiastrum M.P.de Vos	31
Sparaxis Ker Gawl.	32
Dierama K.Koch.	33
Tritonia Ker Gawl.	34
Ixia L.	35
Diplarrena Labill.	36
Iris Tourn. ex L.	37
Dietes Salisb. ex Klatt.	38
Bobartia L.	39
Ferraria Burm. ex Mill.	40
Moraea Mill.	41
Orthrosanthus Sweet	42
Libertia Spreng.	43
Solenomelus Miers	44
Olsynium Raf.	45
Tapeinia Juss.	46
Sisyrinchium L.	47
Pseudiris Chukr & A.Gil	48
Pseudotrimezia R.C.Foster	49
Neomarica Sprague	50
Trimezia Salisb. ex Herb.	51
Larentia Klatt	52
Cipura Aubl.	53
Lethia Ravenna	54
Salpingostylis Small	55
Nemastylis Nutt.	56
Herbertia Sweet	57
Calydorea Herb.	58
Cypella Herb.	59
Alophia Herb.	60
Phalocallis Herb.	61
Eleutherine Herb.	62
Hesperoxiphion Baker	63
Gelasine Herb.	64
Mastigostyla I.M.Johnst.	65
Ennealophus N.E.Br.	66
Cobana Ravenna	67
Sessilanthera Molseed & Cruden	68
Tigridia Juss.	69
72. Xeronemataceae, 1 genus	
Xeronema Brongn. & Gris	1
73. Xanthorrhoeaceae, 38 genera	
Asphodeline Rchb.	1
Asphodelus L.	2
Bulbinella Kunth	3
Kniphofia Moench	4
Trachyandra Kunth	5
Eremurus M.Bieb.	6
Bulbine Wolf	7
Aloidendron (Berger) Klopper & Gideon F.Sm.	8
Kumara Medik	9
Haworthia Duval.	10
Aloiampelos Klopper & Gideon F.Sm.	11
Aloe L.	12
Haworthiopsis G.D.Rowley	13
Gasteria Duval	14
Astroloba Uitewaal	15
Aristaloe Boatwr. & J.C.Manning	16
Gonialoe (Baker) Boatwr. & J.C.Manning	17
Tulista Raf.	18
Xanthorrhoea Sm.	19
Simethis Kunth	20
Hemerocallis L.	21
Hodgsoniola F.Muell.	22
Tricoryne R.Br.	23
Corynotheca F.Muell. ex Benth.	24
Caesia R.Br.	25
Arnocrinum Endl. & Lehm.	26
Hensmania W.Fitzg.	27
Stawellia F.Muell.	28
Johnsonia R.Br.	29
Pasithea D.Don	30

Table 2. Continued.

Phormium J.R.Forst. & G.Forst.	31	*Acis* Salisb.	38	*Cordyline* Comm. ex R.Br.	9
Geitonoplesium A.Cunn. ex R.Br.	32	*Leucojum* L.	39	*Trichopetalum* Lindl.	10
Agrostocrinum F.Muell.	33	*Galanthus* L.	40	*Murchisonia* Brittan	11
Herpolirion Hook.f.	34	*Pancratium* Dill. ex L.	41	*Thysanotus* R.Br.	12
Stypandra R.Br.	35	*Sternbergia* Waldst. & Kit.	42	*Eustrephus* R.Br.	13
Thelionema R.J.F.Hend.	36	*Narcissus* L.	43	*Dichopogon* Kunth	14
Eccremis Willd. ex Schult. & Schult.f.	37	*Worsleya* (Traub) Traub	44	*Arthropodium* R.Br.	15
Dianella Lam. ex Juss.	38	*Cearanthes* Ravenna	45	*Hemiphylacus* S.Watson	16
74. Amaryllidaceae, 75 genera		*Griffinia* Ker Gawl.	46	*Asparagus* Tourn. ex L.	17
Agapanthus L'Hér.	1	*Traubia* Moldenke	47	*Eriospermum* Jacq.	18
Allium L.	2	*Phycella* Lindl.	48	*Disporopsis* Hance	19
Prototulbaghia Vosa	3	*Placea* Miers	49	*Maianthemum* F.H.Wigg.	20
Tulbaghia L.	4	*Eithea* Ravenna	50	*Heteropolygonatum* M.N.Tamura & Ogisu	21
Solaria Phil.	5	*Tocantinia* Ravenna	51		
Gilliesia Lindl.	6	*Sprekelia* Heist.	52	*Polygonatum* Mill.	22
Miersia Lindl.	7	*Rhodophiala* C.Presl.	53	*Theropogon* Maxim.	23
Nothoscordum Kunth	8	*Habranthus* Herb.	54	*Comospermum* Rauschert	24
Schickendantziella Speg.	9	*Zephyranthes* Herb.	55	*Dracaena* Vand. ex L.	25
Speea Loes.	10	*Hippeastrum* Herb.	56	*Danae* Medik	26
Tristagma Poepp.	11	*Pyrolirion* Herb.	57	*Semele* Kunth	27
Trichlora Baker	12	*Eustephia* Cav.	58	*Ruscus* L.	28
Leucocoryne Lindl.	13	*Chlidanthus* Herb.	59	*Peliosanthes* Andrews	29
Amaryllis L.	14	*Hieronymiella* Pax	60	*Liriope* Lour.	30
Boophone Herb.	15	*Pamianthe* Stapf	61	*Ophiopogon* Ker Gawl.	31
Ammocharis Herb.	16	*Paramongaia* Velarde	62	*Dasylirion* Zucc.	32
Crinum L.	17	*Clinanthus* Herb.	63	*Calibanus* Rose	33
Crossyne Salisb.	18	*Hymenocallis* Salisb.	64	*Beaucarnea* Lem.	34
Strumaria Jacq.	19	*Leptochiton* Sealy	65	*Nolina* Michx.	35
Nerine Herb.	20	*Ismene* Salisb. ex Herb.	66	*Speirantha* Baker	36
Hessea Herb.	21	*Rauhia* Traub	67	*Convallaria* L.	37
Namaquanula D.Müll.-Doblies & U.Müll.-Doblies	22	*Phaedranassa* Herb.	68	*Reineckea* Kunth	38
		Plagiolirion Baker	69	*Rohdea* Roth	39
Brunsvigia Heist.	23	*Caliphruria* Herb.	70	*Tupistra* Ker Gawl.	40
Cyrtanthus Aiton	24	*Eucharis* Planch. & Linden	71	*Aspidistra* Ker Gawl.	41
Calostemma R.Br.	25	*Mathieua* Klotzsch	72	*Aphyllanthes* L.	42
Proiphys Herb.	26	*Stenomesson* Herb.	73	*Anemarrhena* Bunge	43
Cryptostephanus Welw. ex Baker	27	*Urceolina* Rchb.	74	*Behnia* Didr.	44
Clivia Lindl.	28	*Eucrosia* Ker Gawl.	75	*Herreria* Ruiz & Pav.	45
Scadoxus Raf.	29	**75. Asparagaceae, 120 genera**		*Herreriopsis* H.Perrier	46
Haemanthus L.	30	*Sowerbaea* Sm.	1	*Clara* Kunth	47
Apodolirion Baker	31	*Laxmannia* R.Br.	2	*Anthericum* L.	48
Gethyllis L.	32	*Xerolirion* A.S.George	3	*Diamena* Ravenna	49
Ungernia Bunge	33	*Romnalda* P.F.Stevens	4	*Diora* Ravenna	50
Lycoris Herb.	34	*Chamaexeros* Benth.	5	*Paradisea* Mazzuc.	51
Hannonia Braun-Blanq. & Maire	35	*Acanthocarpus* Lehm.	6	*Trihesperus* Herb.	52
Lapiedra Lag.	36	*Lomandra* Labill.	7	*Duiranthera* Hemsl.	53
Vagaria Herb.	37	*Chamaescilla* F.Muell. ex Benth.	8	*Hagenbachia* Nees & Mart.	54

Table 2. Continued.

Chlorophytum Ker Gawl.	55	*Veltheimia* Gled.	102	*Hemithrinax* Hook.f.	24
Leucocrinum Nutt. ex A.Gray	56	*Lachenalia* J.Jacq. ex Murray	103	*Leucothrinax* C.Lewis & Zona	25
Echeandia Ortega	57	*Namophila* U.Müll.-Doblies & D.Müll.-Doblies	104	*Thrinax* L.f. ex Sw.	26
Hesperocallis A.Gray	58			*Chelyocarpus* Drammer	27
Hosta Tratt.	59	*Massonia* Thunb. ex Houtt.	105	*Cryosophila* Blume	28
Eremocrinum M.E.Jones	60	*Barnardia* Lindl.	106	*Itaya* H.E.Moore	29
Chlorogalum (Lindl.) Kunth	61	*Zagrosia* Speta	107	*Sabinaria* R.Bernal & Galeano	30
Schoenolirion Durand	62	*Alrawia* (Wendelbo) Perss. & Wendelbo	108	*Phoenix* L.	31
Hastingsia S.Watson	63	*Puschkinia* Adams	109	*Chamaerops* L.	32
Camassia Lindl.	64	*Brimeura* Salisb.	110	*Guihaia* J.Dransf., S.K.Lee & F.N.Wei	33
Hesperoyucca (Engelm.) Trel.	65	*Hyacinthus* Tourn. ex L.	111	*Trachycarpus* H.Wendl.	34
Hesperaloe Engelm.	66	*Pseudomuscari* Garbari & Greuter	112	*Rhapidophyllum* H.Wendl. & Drude	35
Yucca L.	67	*Fessia* Speta	113	*Maxburretia* Furtado	36
Beschorneria Kunth	68	*Hyacinthoides* Heist. ex Fabr.	114	*Rhapis* L.f. ex Aiton	37
Furcraea Vent.	69	*Leopoldia* Parl.	115	*Livistona* R.Br.	38
Polianthes L.	70	*Prospero* Salisb.	116	*Licuala* Wurmb.	39
Manfreda Salisb.	71	*Hyacinthella* Schur	117	*Lanonia* A.J.Hend. & C.D.Bacon	40
Agave L.	72	*Muscari* Mill.	118	*Johannesteijsmannia* H.E.Moore	41
Androstephium Torr.	73	*Bellevalia* Lapeyr.	119	*Pholidocarpus* Blume	42
Muilla S.Watson ex Benth.	74	*Scilla* L.	120	*Saribus* Blume	43
Bloomeria Kellogg	75	**Arecales, 1 family**		*Acoelorrhaphe* H.Wendl.	44
Triteleia Douglas ex Lindl.	76	**76. Arecaceae/Palmae, 183 genera**		*Serenoa* Hook.f.	45
Triteleiopsis Hoover	77	*Eugeissona* Griff.	1	*Brahea* Mart.	46
Dichelostemma Kunth	78	*Oncocalamus* (G.Mann & H.Wendl.) H.Wendl.	2	*Colpothrinax* Schaedtler	47
Brodiaea Sm.	79			*Copernicia* Mart. ex Endl.	48
Jaimehintonia B.L.Turner	80	*Eremospatha* (G.Mann & H.Wendl.) Schaedtler	3	*Pritchardia* Seem. & H.Wendl.	49
Petronymphe H.E.Moore	81			*Washingtonia* H.Wendl.	50
Bessera Schult.f.	82	*Laccosperma* Drude	4	*Chuniophoenix* Burret	51
Dandya H.E.Moore	83	*Raphia* P.Beauv.	5	*Kerriodoxa* J.Dransf.	52
Milla Cav.	84	*Lepidocaryum* Mart.	6	*Nannorrhops* H.Wendl.	53
Oziroe Raf.	85	*Mauritia* L.f.	7	*Tahina* J.Dransf. & Rakotoarin.	54
Albuca L.	86	*Mauritiella* Burret	8	*Caryota* L.	55
Ornithogalum L.	87	*Korthalsia* Blume	9	*Arenga* Labill. ex DC	56
Pseudogaltonia (Kunze) Engl.	88	*Eleiodoxa* (Becc.) Burret	10	*Wallichia* Roxb.	57
Dipcadi Medik	89	*Salacca* Reinw.	11	*Corypha* L.	58
Bowiea Harv. ex Hook.f.	90	*Metroxylon* Rottb.	12	*Bismarckia* Hildebr. & H.Wendl.	59
Sagittanthera	91	*Pigafetta* (Blume) Becc.	13	*Satranala* J.Dransf. & Beentje	60
Drimia Jacq.	92	*Plectocomia* Mart. & Blume	14	*Hyphaene* Gaertn.	61
Pseudoprospero Speta	93	*Myrialepis* Becc.	15	*Medemia* Württemb. ex H.Wendl.	62
Merwilla Speta	94	*Plectocomiopsis* Becc.	16	*Latania* Comm. ex Juss.	63
Schizocarphus van der Merwe	95	*Calamus* L.	17	*Lodoicea* Comm. ex DC.	64
Resnova van der Merwe	96	*Nypa* Steck	18	*Borassodendron* Becc.	65
Drimiopsis Lindl. & Paxton	97	*Sabal* Adans.	19	*Borassus* L.	66
Ledebouria Roth	98	*Schippia* Burret	20	*Pseudophoenix* H.Wendl. ex Sarg.	67
Eucomis L'Hé	99	*Trithrinax* Mart.	21	*Ceroxylon* Bonpl. ex DC.	68
Spetaea Wetschnig & Pfosser	100	*Zombia* L.H.Bailey	22	*Juania* Drude	69
Daubenya Lindl.	101	*Coccothrinax* Sarg.	23		

Table 2. Continued.

Oraniopsis (Becc.) J.Dransf., A.K.Irvine & N.W.Uhl	70
Ravenea H.Wendl. ex C.D.Bouché	71
Ammandra O.F.Cook	72
Aphandra Barford	73
Phytelephas Ruiz & Pav.	74
Iriartella H.Wendl.	75
Dictyocaryum H.Wendl.	76
Iriartea Ruiz & Pav.	77
Socratea H.Karst.	78
Wettinia Poepp. ex Endl.	79
Hyophorbe Gaertn.	80
Wendlandiella Dammer	81
Synechanthus H.Wendl.	82
Chamaedorea Willd.	83
Gaussia H.Wendl.	84
Pododoccus G.Mann & H.Wendl.	85
Orania Zipp.	86
Sclerosperma G.Mann & H.Wendl.	87
Roystonea O.F.Cook	88
Reinhardtia Liebm.	89
Beccariophoenix Jum. & H.Perrier	90
Jubaeopsis Becc.	91
Voanioala J.Dransf.	92
Allagoptera Nees	93
Attalea Kunth.	94
Butia (Becc.) Becc.	95
Cocos L.	96
Jubaea Kunth	97
Lytocaryum Toledo	98
Syagrus Mart.	99
Parajubaea Burret	100
Acrocomia Mart.	101
Astrocaryum G.Mey.	102
Aiphanes Willd.	103
Bactris Jacq. ex Scop.	104
Desmoncus Mart.	105
Barcella (Traill) Drude	106
Elaeis Jacq.	107
Manicaria Gaertn.	108
Hyospathe Mart.	109
Euterpe Mart.	110
Prestoea Hook.f.	111
Neonicholsonia Dammer	112
Oenocarpus Mart.	113
Welfia H.Wendl.	114
Pholidostachys H.Wendl. ex Hook.f	115
Calyptrogyne H.Wendl.	116
Calyptronoma Griseb.	117
Asterogyne H.Wendl. ex Hook.f.	118
Geonoma Willd.	119
Leopoldinia Mart.	120
Pelagodoxa Becc.	121
Sommieria Becc.	122
Actinorhytis H.Wendl. & Drude	123
Archontophoenix H.Wendl. & Drude	124
Actinokentia Dammer	125
Chambeyronia Vieill.	126
Kentiopsis Brongn.	127
Areca L.	128
Nenga H.Wendl. & Drude	129
Pinanga Blume	130
Basselinia Vieill.	131
Burretiokentia Pic.Serm.	132
Cyphophoenix H.Wendl. ex Hook.f.	133
Cyphosperma H.Wendl. ex Hook.f.	134
Lepidorrhachis (H.Wendl. & Drude) O.F.Cook	135
Physokentia Becc.	136
Carpoxylon H.Wendl. & Drude	137
Satakentia H.E.Moore	138
Neoveitchia Becc.	139
Cyphokentia Brongn.	140
Clinosperma Becc.	141
Dypsis Noronha ex Mart.	142
Lemurophoenix J.Dransf.	143
Marojejya Humbert	144
Masoala Jum.	145
Calyptrocalyx Blume	146
Linospadix H.Wendl.	147
Howea Becc.	148
Laccospadix H.Wendl. & Drude	149
Oncosperma Blume	150
Deckenia H.Wendl. ex Seem.	151
Acanthophoenix H.Wendl.	152
Tectiphiala H.E.Moore	153
Ptychosperma Labill.	154
Ponapea Becc.	155
Adonidia Becc.	156
Wallaceodoxa Heatubun & W.J.Baker	157
Jailoloa Heatubun & W.J.Baker	158
Manjekia W.J.Baker & Heatubun	159
Balaka Becc.	160
Veitchia H.Wendl.	161
Carpentaria Becc.	162
Wodyetia A.K.Irvine	163
Drymophloeus Zipp.	164
Normanbya F.Muell. ex Becc.	165
Brassiophoenix Burret	166
Ptychococcus Becc.	167
Rhopalostylis H.Wendl. & Drude	168
Hedyscepe H.Wendl. & Drude	169
Nephrosperma Balf.f.	170
Phoenicophorium H.Wendl.	171
Roscheria H.Wendl. ex Balf.f.	172
Verschaffeltia H.Wendl.	173
Bentinckia Berry ex Roxb.	174
Clinostigma H.Wendl.	175
Cyrtostachys Blume	176
Dictyosperma H.Wendl. & Drude	177
Dransfieldia W.J.Baker & Zona	178
Heterospathe Scheff.	179
Hydriastele H.Wendl. & Drude	180
Iguanura Blume	181
Loxococcus H.Wendl. & Drude	182
Rhopaloblaste Scheff.	183
Commelinales, 5 families	
77. Hanguanaceae, 1 genus	
Hanguana Blume	1
78. Commelinaceae, 41 genera	
Triceratella Brenan	1
Cartonema R.Br.	2
Palisota Rchb.	3
Anthericopsis Engl.	4
Murdannia Royle	5
Buforrestia C.B.Clarke	6
Stanfieldiella Brenan	7
Floscopa Lour.	8
Pseudoparis H.Perrier	9
Tricarpelema J.K.Morton	10
Dictyospermum Wight	11
Pollia Thunb	12
Tapheocarpa Conran	13
Rhopalephora Hassk.	14
Aneilema R.Br.	15
Polyspatha Benth.	16
Commelina L.	17
Aetheolirion Forman	18
Streptolirion Edgew.	19
Spatholirion Ridl.	20
Cochliostema Lem.	21

Table 2. Continued.

Plowmanianthus Faden & C.R.Hardy	22
Geogenanthus Ule	23
Siderasis Raf.	24
Dichorisandra J.C.Mikan	25
Coleotrype C.B.Clarke	26
Porandra D.Y.Hong	27
Amischotolype Hassk.	28
Belosynapsis Hassk.	29
Cyanotis D.Don	30
Sauvallea C.Wright	31
Gibasoides D.R.Hunt	32
Matudanthus D.R.Hunt	33
Tinantia Scheidw.	34
Weldenia Schult.f.	35
Thyrsanthemum Pichon	36
Callisia Loefl.	37
Tripogandra Raf.	38
Elasis D.R.Hunt	39
Gibasis Raf.	40
Tradescantia Ruppius ex L.	41
79. Philydraceae, 3 genera	
Philydrella Caruel	1
Philydrum Banks & Sol. ex Gaertn.	2
Helmholtzia F.Muell.	3
80. Pontederiaceae, 6 genera	
Hydrothrix Hook.f.	1
Scholleropsis H.Perrier	2
Eichhornia Kunth	3
Pontederia L.	4
Monochoria C.Presl.	5
Heteranthera Ruiz & Pav.	6
81. Haemodoraceae, 14 genera	
Tribonanthes Endl.	1
Macropidia J.Drumm. ex Harv.	2
Anigozanthos Labill.	3
Phlebocarya R.Br.	4
Blancoa Lindl.	5
Conostylis R.Br.	6
Dilatris P.J.Bergius	7
Lachnanthes Elliott	8
Haemodorum Sm.	9
Barberetta Harv.	10
Wachendorfia Burm.	11
Pyrrorhiza Maguire & Wurdack	12
Schiekia Meisn.	13
Xiphidium Aubl.	14
Zingiberales, 8 families	
82. Strelitziaceae, 3 genera	
Ravenala Scop.	1
Phenakospermum Endl.	2
Strelitzia Banks	3
83. Lowiaceae, 1 genus	
Orchidantha N.E.Br.	1
84. Heliconiaceae, 1 genus	
Heliconia L.	1
85. Musaceae, 3 genera	
Musa L.	1
Musella (Franch.) C.Y.Wu ex H.W.Li	2
Ensete Bruce ex Horan.	3
86. Cannaceae, 1 genus	
Canna L.	1
87. Marantaceae, 28 genera	
Sarcophrynium K.Schum.	1
Thaumatococcus Benth.	2
Megaphrynium Milne-Redh.	3
Trachyphrynium Benth.	4
Hypselodelphys (K.Schum.) Milne-Redh.	5
Haumania J.Léonard	6
Goeppertia Nees	7
Monotagma K.Schum.	8
Calathea G.Mey.	9
Pleiostachya K.Schum.	10
Ischnosiphon Körn.	11
Thalia L.	12
Donax Lour.	13
Schumannianthus Gagnep.	14
Phrynium Willd.	15
Marantochloa Brongn. ex Gris	16
Afrocalathea K.Schum.	17
Stachyphrynium K.Schum.	18
Monophyllanthe K.Schum.	19
Indianthus Suksathan & Borchs.	20
Halopegia K.Schum.	21
Myrosma L.f.	22
Hylaeanthe A.M.E.Jonker & Jonker	23
Maranta Plum. ex L.	24
Saranthe (Regel & Körn.) Eichler	25
Koernickanthe L.Andersson	26
Ctenanthe Eichler	27
Stromanthe Sond.	28
88. Costaceae, 7 genera	
Chamaecostus C.D.Specht & D.W.Stev.	1
Monocostus K.Schum.	2
Dimerocostus Kuntze	3
Costus L.	4
Paracostus C.D.Specht	5
Hellenia Retz.	6
Tapeinochilos Miq.	7
89. Zingiberaceae, 52 genera	
Aulotandra Gagnep.	1
Siphonochilus J.M.Wood & Franks	2
Tamijia S.Sakai & Nagam.	3
Siliquamomum J.M.Wood & Franks	4
Siamanthus K.Larsen & J.Mood	5
Burbidgea Hook.f.	6
Pleuranthodium (K.Schum.) R.M.Sm.	7
Riedelia Oliv.	8
Cyphostigma Benth.	9
Leptosolena C.Presl.	10
Vanoverberghia Merr.	11
Geocharis (K.Schum.) Ridl.	12
Elettaria Maton	13
Elettariopsis Baker	14
Geostachys (Baker) Ridl.	15
Plagiostachys Ridl.	16
Hornstedtia Retz.	17
Aframomum K.Schum.	18
Renealmia L.f.	19
Etlingera Giseke	20
Amomum Roxb.	21
Alpinia Roxb.	22
Globba L.	23
Gagnepainia K.Schum.	24
Hemiorchis Kurz	25
Caulokaempferia K.Larsen	26
Camptandra Ridl.	27
Hitchenia Wall.	28
Laosanthus K.Larsen & Jenjitt.	29
Smithatris W.J.Kress & K.Larsen	30
Stahlianthus Kuntze	31
Curcuma L.	32
Nanochilus K.Schum.	33
Stadiochilus R.M.Sm.	34
Larsenianthus W.J.Kress & Mood	35
Hedychium J.Koenig	36
Pommereschea Wittm.	37
Rhynchanthus Hook.f.	38
Cautleya (Royle ex Benth.) Hook.f.	39
Roscoea Sm.	40
Kedhalia C.K.Lim	41

Table 2. Continued.

Newmania N.S.Lý & Škorničk.	42
Haniffia Holttum	43
Parakaempferia A.S.Rao & D.M.Verma	44
Myxochlamys A.Takano & Nagam.	45
Cornukaempferia Mood & K.Larsen	46
Distichochlamys M.F.Newman	47
Haplochorema K.Schum.	48
Scaphochlamys Baker	49
Kaempferia L.	50
Boesenbergia Kuntze	51
Zingiber Mill.	52
Unplaced, 1 family	
90. Dasypogonaceae, 4 genera	
Baxteria R.Br. ex Hook.	1
Kingia R.Br.	2
Dasypogon R.Br.	3
Calectasia R.Br.	4
Poales, 16 families	
91. Typhaceae, 2 genera	
Sparganium L.	1
Typha L.	2
92. Bromeliaceae, 47 genera	
Ayensua L.B.Sm.	1
Brocchinia Schult. & Schult.f.	2
Connellia N.E.Br.	3
Lindmania Mez	4
Glomeropitcairnia Mez	5
Catopsis Griseb.	6
Vriesea Lindl.	7
Mezobromelia L.B.Sm.	8
Guzmania Ruiz & Pav.	9
Tillandsia L.	10
Hechtia Klotzsch	11
Cottendorfia Schult. & Schult.f.	12
Brewcaria L.B.Sm., Steyerm. & H.Rob.	13
Steyerbromelia L.B.Sm.	14
Navia Schult. & Schult.f.	15
Pitcairnia L'Hér.	16
Fosterella L.B.Sm.	17
Deuterocohnia Mez	18
Encholirium Mart. ex Schult. & Schult.f.	19
Dyckia Schult. & Schult.f.	20
Puya Molina	21
Fascicularia Mez	22
Ochagavia Phil.	23
Greigia Regel	24
Bromelia L.	25
Fernseea Baker	26
Neoglaziovia Mez	27
Ananas Mill.	28
Lapanthus Louzada & Versieux	29
Cryptanthus Otto & A.Dietr.	30
Orthophytum Beer	31
Acanthostachys Link, Klotzsch & Otto	32
Eduandrea Leme, W.Till, G.K.Br., J.R.Grant & Govaerts	33
Hohenbergiopsis L.B.Sm. & Read	34
Androlepis Brongn. ex Houllet	35
Disteganthus Lem.	36
Portea Brongn. ex K.Koch	37
Araeococcus Brongn.	38
Lymania Read	39
Ronnbergia E.Morren & André	40
Canistrum E.Morren	41
Quesnelia Gaudich.	42
Nidularium Lem.	43
Hohenbergia Schult. & Schult.f.	44
Billbergia Thunb.	45
Neoregelia L.B.Sm.	46
Aechmea Ruiz & Pav.	47
93. Rapateaceae, 17 genera	
Spathanthus Desv.	1
Duckea Maguire	2
Cephalostemon R.H.Schomb.	3
Rapatea Aubl.	4
Maschalocephalus Gilg & K.Schum.	5
Windsorina Gleason	6
Potarophytum Sandwith	7
Monotrema Körn.	8
Saxofridericia R.H.Schomb.	9
Kunhardtia Maguire	10
Guacamaya Maguire	11
Schoenocephalium Seub.	12
Marahuacaea Maguire	13
Phelpsiella Maguire	14
Epidryos Maguire	15
Amphiphyllum Gleason	16
Stegolepis Klotzsch ex Körn.	17
94. Xyridaceae, 5 genera	
Achlyphila Maguire & Wurdack	1
Xyris Gronov. ex L.	2
Abolboda Bonpl.	3
Aratitiyopea Steyerm. & P.E.Berry	4
Orectanthe Maguire	5
95. Eriocaulaceae, 10 genera	
Mesanthemum Körn.	1
Eriocaulon L.	2
Comanthera L.B.Sm.	3
Syngonanthus Ruhland	4
Leiothrix Ruhland	5
Rondonanthus Herzog	6
Tonina Aubl.	7
Lachnocaulon Kunth	8
Actinocephalus (Körn.) Sano	9
Paepalanthus Mart.	10
96. Mayacaceae, 1 genus	
Mayaca Aubl.	1
97. Thurniaceae, 2 genera	
Prionium E.Mey.	1
Thurnia Hook.f.	2
98. Juncaceae, 8 genera	
Oreojuncus Záv. Drábk. & Kirschner	1
Luzula DC.	2
Patosia Buchenau	3
Rostkovia Desv.	4
Distichia Nees & Meyen	5
Marsippospermum Desv.	6
Oxychloe Phil.	7
Juncus L.	8
99. Cyperaceae, 94 genera	
Capitularina J.Kern	1
Diplasia Pers.	2
Exocarya Benth.	3
Lepironia Pers.	4
Principina Uittien	5
Scirpodendron Zipp. ex Kurz	6
Chrysitrix L.	7
Chorizandra R.Br.	8
Paramapania Uittien	9
Hypolytrum Pers.	10
Mapania Aubl.	11
Afrotrilepis (Gilly) J.Raynal	12
Coleochloa Gilly	13
Trilepis Nees	14
Microdracoides Hua	15
Cladium P.Browne	16
Gymnoschoenus Nees	17
Koyamaea W.W.Thomas & G.Davidse	18
Cephalocarpus Nees	19
Everardia Ridl. ex Oliv.	20
Lagenocarpus Nees.	21

Table 2. Continued.

Bisboeckelera Kuntze	22
Diplacrum R.Br.	23
Becquerelia Brongn.	24
Scleria P.J.Bergius	25
Calyptrocarya Nees	26
Capeobolus Browning	27
Neesenbeckia Levyns	28
Ptilothrix K.L.Wilson	29
Reedia F.Muell.	30
Rhynchocladium T.Koyama	31
Trichoschoenus J.Raynal	32
Evandra R.Br.	33
Morelotia Gaudich.	34
Cyathocoma Nees	35
Trianoptiles Fenzl ex Endl.	36
Caustis R.Br.	37
Cyathochaeta Nees	38
Mesomelaena Nees	39
Tricostularia Nees	40
Oreobolus R.Br.	41
Epischoenus C.B.Clarke	42
Carpha Banks & Sol. ex R.Br.	43
Costularia C.B.Clarke	44
Gahnia J.R.Forst. & G.Forst.	45
Machaerina Vahl	46
Tetraria P.Beauv.	47
Lepidosperma Labill.	48
Schoenus L.	49
Pleurostachys Brongn.	50
Rhynchospora Vahl	51
Khaosokia D.A.Simpson, Chayam. & J.Parn.	52
Cymophyllus Mack. ex Britton & A.Br.	53
Calliscirpus C.N.Gilmour, J.R.Starr & Naczi	54
Schoenoxiphium Nees	55
Kobresia Willd.	56
Uncinia Pers.	57
Carex L.	58
Oreobolopsis T.Koyama & Guagl.	59
Trichophorum Pers.	60
Dulichium Pers.	61
Sumatroscirpus Oteng-Yeb.	62
Blysmus Panz. ex Schult.	63
Amphiscirpus Oteng-Yeb.	64
Neoscirpus Y.N.Lee & Y.C.Oh	65
Cypringlea M.T.Strong	66
Phylloscirpus C.B.Clarke	67
Zameioscirpus Dhooge & Goetgh.	68
Eriophorum L.	69
Scirpus Tourn. ex L.	70
Fuirena Rottb.	71
Eleocharis R.Br.	72
Nelmesia Van der Veken	73
Bolboschoenus (Asch.) Palla	74
Fimbristylis Vahl	75
Actinoschoenus Benth.	76
Arthrostylis R.Br.	77
Trachystylis S.T.Blake	78
Crosslandia W.Fitzg.	79
Nemum Desv. ex Ham.	80
Bulbostylis Kunth	81
Actinoscirpus (Ohwi) R.W.Haines & Lye	82
Schoenoplectus (Rchb.) Palla	83
Pseudoschoenus (C.B.Clarke) Oteng-Yeb.	84
Schoenoplectiella Lye	85
Karinia Reznicek & McVaugh	86
Scirpoides Ség.	87
Dracoscirpoides Muasya	88
Hellmuthia Steud.	89
Erioscirpus Palla	90
Isolepis R.Br.	91
Ficinia Schrad.	92
Androtrichum (Brongn.) Brongn.	93
Cyperus L.	94
100. Anarthriaceae, 3 genera	
Anarthria R.Br.	1
Hopkinsia W.Fitzg.	2
Lyginia R.Br.	3
101. Centrolepidaceae, 3 genera	
Gaimardia Gaudich.	1
Aphelia R.Br.	2
Centrolepis Labill.	3
102. Restionaceae, 42 genera	
Hydrophilus H.P.Linder	1
Mastersiella Gilg-Ben.	2
Nevillea Esterh. & H.P.Linder	3
Cannomois P.Beauv. ex Desv.	4
Hypodiscus Nees	5
Ceratocaryum Nees	6
Willdenowia Thunb.	7
Thamnochortus P.J.Bergius	8
Soroveta H.P.Linder & C.R.Hardy	9
Platycaulos H.P.Linder	10
Elegia L.	11
Anthochortus Endl.	12
Askidiosperma Steud.	13
Staberoha Kunth	14
Rhodocoma Nees	15
Restio Rottb.	16
Sporadanthus F.Muell. ex Buchanan	17
Calorophus Labill.	18
Lepyrodia R.Br.	19
Eurychorda B.G.Briggs & L.A.S.Johnson	20
Empodisma L.A.S.Johnson & D.F.Cutler	21
Taraxis B.G.Briggs & L.A.S.Johnson	22
Winifredia L.A.S.Johnson & B.G.Briggs	23
Alexgeorgea Carlquist	24
Hypolaena R.Br.	25
Chaetanthus R.Br.	26
Apodasmia B.G.Briggs & L.A.S.Johnson	27
Dapsilanthus B.G.Briggs & L.A.S.Johnson	28
Leptocarpus R.Br.	29
Loxocarya R.Br.	30
Platychorda B.G.Briggs & L.A.S.Johnson	31
Tremulina B.G.Briggs & L.A.S.Johnson	32
Chordifex B.G.Briggs & L.A.S.Johnson	33
Baloskion Raf.	34
Dielsia Gilg	35
Cytogonidium B.G.Briggs & L.A.S.Johnson	36
Melanostachya B.G.Briggs & L.A.S.Johnson	37
Tyrbastes B.G.Briggs & L.A.S.Johnson	38
Catacolea B.G.Briggs & L.A.S.Johnson	39
Lepidobolus Nees	40
Coleocarya S.T.Blake	41
Desmocladus Nees	42
103. Flagellariaceae, 1 genus	
Flagellaria L.	1
104. Joinvilleaceae, 1 genus	
Joinvillea Gaudich. ex Brongn. & Gris	1
105. Ecdeiocoleaceae, 2 genera	
Georgeantha B.G.Briggs & L.A.S.Johnson	1
Ecdeiocolea F.Muell.	2
106. Poaceae/Gramineae, not included	

Table 3. Alphabetical list of monocot genera (excluding Orchidaceae and Poaceae) arranged by family. Family sequence number from Haston & al. (2009) and Wearn & al. (2013).

Acorales, 1 family	
29. Acoraceae, 1 genus	
Acorus L.	1
Alismatales, 12 families	
30. Araceae, 123 genera	
Adelonema Schott	43
Aglaodorum Schott	47
Aglaonema Schott	48
Alloschemone Schott	16
Alocasia (Schott) G.Don	111
Ambrosina Bassi	96
Amorphophallus Blume ex Decne.	84
Amydrium Schott	24
Anadendrum Schott	20
Anaphyllopsis A.Hay	29
Anaphyllum Schott	35
Anchomanes Schott	51
Anthurium Schott	10
Anubias Schott	40
Apoballis Schott	70
Aridarum Ridl.	79
Ariopsis Nimmo	106
Arisaema Mart.	113
Arisarum Mart.	97
Arophyton Jum.	100
Arum L.	123
Asterostigma Fisch. & C.A.Mey.	60
Bakoa P.C.Boyce & S.Y.Wong	80
Biarum Schott	120
Bognera Mayo & Nicolson	54
Bucephalandra Schott	82
Caladium Vent.	87
Calla L.	83
Callopsis Engl.	39
Carlephyton Jum.	102
Cercestis Schott	41
Chlorospatha Engl.	91
Colletogyne Buchet	101
Colocasia Schott	107
Croatiella E.G.Gonç.	57
Cryptocoryne Fisch. ex Wydler	69
Culcasia P.Beauv.	42
Cyrtosperma Griff.	32
Dieffenbachia Schott	61
Dracontioides Engl.	28
Dracontium L.	27
Dracunculus Mill.	121
Eminium Schott	118
Englerarum Nauheimer & P.C.Boyce	105
Epipremnum Schott	25
Filarum Nicolson	89
Furtadoa M.Hotta	45
Gearum N.E.Br.	55
Gonatopus Engl.	38
Gorgonidium Schott	65
Gymnomesium Schott	122
Gymnostachys R.Br.	1
Hapaline Schott	86
Helicodiceros Schott	119
Hestia S.Y.Wong & P.C.Boyce	81
Heteropsis Kunth	15
Holochlamys Engl.	18
Homalomena Schott	46
Hottarum Bogner & Nicolson	78
Incarum E.G.Gonç.	63
Jasarum G.S.Bunting	85
Lagenandra Dalzell	68
Landoltia Les & D.J.Crawford	7
Lasia Lour.	31
Lasimorpha Schott	34
Lazarum A.Hay	115
Lemna L.	6
Leucocasia Schott	110
Lorenzia E.G.Gonç.	53
Lysichiton Schott	3
Mangonia Schott	62
Monstera Adans.	23
Montrichardia Crueg.	66
Nephthytis Schott	49
Ooia S.Y.Wong & P.C.Boyce	77
Orontium L.	2
Pedicellarum M.Hotta	12
Peltandra Raf.	99
Philodendron Schott	44
Philonotion Schott	67
Phymatarum M.Hotta	74
Pichinia S.Y.Wong & P.C.Boyce	71
Pinellia Ten.	112
Piptospatha N.E.Br.	72
Pistia L.	104
Podolasia N.E.Br.	30
Pothoidium Schott	13
Pothos L.	11
Protarum Engl.	103
Pseudohydrosme Engl.	50
Pycnospatha Thorel ex Gagnep.	33
Remusatia Schott	108
Rhaphidophora Hassk.	21
Rhodospatha Poepp.	17
Sauromatum Schott	117
Scaphispatha Brongn. ex Schott	93
Schismatoglottis Zoll. & Moritzi	76
Schottariella P.C.Boyce & S.Y.Wong	73
Schottarum P.C.Boyce & S.Y.Wong	75
Scindapsus Schott	22
Spathantheum Schott	64
Spathicarpa Hook.	58
Spathiphyllum Schott	19
Spirodela Schleid.	5
Stenospermation Schott	14
Steudnera K.Koch	109
Stylochaeton Lepr.	36
Symplocarpus Salisb. ex W.P.C .Barton	4
Synandrospadix Engl.	56
Syngonium Schott	88
Taccarum Brongn. ex Schott	59
Theriophonum Blume	114
Typhonium Schott	116
Typhonodorum Schott	98
Ulearum Engl.	90
Urospatha Schott	26
Wolffia Horkel ex Schleid	9
Wolffiella Hegelm.	8
Xanthosoma Schott	92
Zamioculcas Schott	37
Zantedeschia Spreng.	52
Zomicarpa Schott	95
Zomicarpella N.E.Br.	94
31. Tofieldiaceae, 4 genera	
Isidrogalvia Ruiz & Pav.	2
Pleea Michx.	1
Tofieldia Huds.	4
Triantha (Nutt.) Baker	3
32. Alismataceae, 17 genera	
Albidella Pichon	12
Alisma L.	4
Astonia S.W.L.Jacobs	15

Table 3. Continued.

Baldellia Parl.	3
Burnatia Micheli	5
Butomopsis Kunth	7
Caldesia Parl.	10
Damasonium Mill.	2
Echinodorus Rich.	13
Helanthium (Benth. & Hook.f.) Engelm. ex J.G.Sm.	11
Hydrocleys Rich.	8
Limnocharis Humb. & Bonpl.	6
Limnophyton Miq.	16
Luronium Raf.	1
Ranalisma Stapf	9
Sagittaria Rupp. ex L.	14
Wiesneria Micheli	17
33. Butomaceae, 1 genus	
Butomus L.	1
34. Hydrocharitaceae, 17 genera	
Apalanthe Planch.	7
Appertiella C.D.K.Cook & L.Triest	3
Blyxa Noronha ex Thouars	5
Egeria Planch.	8
Elodea Michx.	9
Enhalus Rich.	16
Halophila Thouars	15
Hydrilla Rich.	11
Hydrocharis L.	2
Lagarosiphon Harv.	4
Limnobium Rich.	1
Najas L.	14
Nechamandra Planch.	12
Ottelia Pers.	6
Stratiotes L.	10
Thalassia Banks & Sol. ex K.D.Koenig	17
Vallisneria P.Micheli ex L.	13
35. Scheuchzeriaceae, 1 genus	
Scheuchzeria L.	1
36. Aponogetonaceae, 1 genus	
Aponogeton L.f.	1
37. Juncaginaceae, 4 genera	
Cycnogeton Endl.	2
Maundia F.Muell.	4
Tetroncium Willd.	1
Triglochin Riv. ex L.	3
38. Zosteraceae, 2 genera	
Phyllospadix Hook.	1
Zostera L.	2
39. Potamogetonaceae, 7 genera	
Althenia F.Petit	1
Groenlandia J.Gay	5
Lepilanea J.Drumm. ex Harv.	2
Potamogeton L.	7
Pseudoalthenia	3
Stuckenia Börner	6
Zannichellia P.Micheli ex L.	4
40. Posidoniaceae, 1 genus	
Posidonia K.D.Koenig	1
42. Cymodoceaceae, 6 genera	
Amphibolis C.Agardh	5
Cymodocea K.D.Koenig	4
Halodule Endl.	2
Ruppia L.	1
Syringodium Kütz.	6
Thalassodendron Hartog	3
Petrosaviales, 1 family	
43. Petrosaviaceae, 2 genera	
Japonolirion Nakai	1
Petrosavia Becc.	2
Dioscoreales, 3 families	
44. Nartheciaceae, 5 genera	
Aletris L.	2
Lophiola Ker Gawl.	3
Metanarthecium Maxim.	1
Narthecium Huds.	5
Nietneria Klotzsch ex Benth.	4
45. Burmanniaceae, 13 genera	
Afrothismia Schltr.	10
Apteria Nutt.	7
Burmannia L.	8
Campylosiphon Benth.	3
Dictyostega Miers	4
Gymnosiphon Blume	6
Haplothismia Airy Shaw	12
Hexapterella Urb.	5
Marthella Urb.	1
Miersiella Urb.	2
Oxygyne Schltr.	9
Thismia Griff.	11
Tiputinia P.E.Berry & C.L.Woodw.	13
46. Dioscoreaceae, 4 genera	
Dioscorea Plum. ex L.	4
Stenomeris Planch.	1
Tacca J.R.Forst. & G.Forst.	2
Trichopus Gaertn.	3
Pandanales, 5 families	
47. Triuridaceae, 9 genera	
Kihansia Cheek	1
Kupea Cheek & S.A.Williams	2
Lacandonia E.Martínez & Ramos	5
Peltophyllum Gardner	3
Sciaphila Blume	9
Seychellaria Hemsl.	8
Soridium Miers	7
Triuridopsis H.Maas &Maas	4
Triuris Miers	6
48. Velloziaceae, 5 genera	
Acanthochlamys P.C.Kao	1
Barbacenia Vand.	3
Barbaceniopsis L.B.Sm.	4
Vellozia Vand.	5
Xerophyta Juss.	2
49. Stemonaceae, 4 genera	
Croomia Torr.	4
Pentastemona Steenis	1
Stemona Lour.	2
Stichoneuron Hook.f.	3
50. Cyclanthaceae, 12 genera	
Asplundia Harling	9
Carludovica Ruiz & Pav.	10
Chorigyne R.Erikss.	7
Cyclanthus Poit. ex A.Rich.	1
Dianthoveus Hammel & G.J.Wilder	11
Dicranopygium Harling	3
Evodianthus Oerst.	12
Ludovia Brongn.	4
Schultesiophytum Harling	2
Sphaeradenia Harling	5
Stelestylis Drude	6
Thoracocarpus Harling	8
51. Pandanaceae, 5 genera	
Benstonea Callm. & Buerki	4
Freycinetia Gaudich.	2
Martellidendron (Pic.Serm.) Callm. & Chassot	3
Pandanus Parkinson	5
Sararanga Hemsl.	1
Liliales, 10 families	
52. Campynemataceae, 2 genera	
Campynema Labill.	1
Campynemanthe Baill.	2

Table 3. Continued.

53. Melanthiaceae, 16 genera	
Amianthium A.Gray	3
Anticlea Kunth	7
Chamaelirium Willd.	8
Chionographis Maxim.	11
Helonias L.	9
Heloniopsis A.Gray	12
Paris L.	15
Pseudotrillium S.B.Farmer	14
Schoenocaulon A.Gray	2
Stenanthium (A.Gray) Kunth	6
Toxicoscordion Rydb.	5
Trillium L.	16
Veratrum L.	4
Xerophyllum Michx.	13
Ypsilandra Franch.	10
Zigadenus Michx.	1
54. Petermanniaceae, 1 genus	
Petermannia F.Muell.	1
55. Alstroemeriaceae, 4 genera	
Alstroemeria L.	4
Bomarea Mirb.	3
Drymophila R.Br.	1
Luzuriaga Ruiz & Pav.	2
56. Colchicaceae, 16 genera	
Androcymbium Willd.	15
Baeometra Salisb. ex Endl.	9
Burchardia R.Br.	3
Camptorrhiza Hutch.	7
Colchicum L.	16
Disporum Salisb. ex G.Don	2
Gloriosa L.	11
Hexacyrtis Dinter	14
Iphigenia Kunth	8
Kuntheria Conran & Clifford	4
Ornithoglossum Salisb.	13
Sandersonia Hook.	12
Schelhammera R.Br.	6
Tripladenia D.Don	5
Uvularia L.	1
Wurmbea Thunb.	10
57. Philesiaceae, 2 genera	
Lapageria Ruiz & Pav.	1
Philesia Comm. ex Juss.	2
58. Rhipogonaceae, 1 genus	
Ripogonum J.R.Forst. & G.Forst.	1
59. Smilacaceae, 2 genera	
Heterosmilax Kunth	1
Smilax L.	2
60. Corsiaceae, 3 genera	
Arachnitis Phil.	1
Corsia Becc.	2
Corsiopsis D.X.Zhang, R.M.K.Saunders & C.M.Hu	3
61. Liliaceae, 16 genera	
Amana Honda	10
Calochortus Pursh	5
Cardiocrinum (Endl.) Lindl.	13
Clintonia Raf.	7
Erythronium L.	11
Fritillaria Tourn. ex L.	14
Gagea Salisb.	8
Lilium Tourn. ex L.	16
Medeola Gronov. ex L.	6
Nomocharis Franch.	15
Notholirion Wall. ex Boiss.	12
Prosartes D.Don	4
Scoliopus Torr.	3
Streptopus Michx.	2
Tricyrtis Wall.	1
Tulipa L.	9
Asparagales, 14 families	
62. Orchidaceae, not included	
63. Boryaceae, 2 genera	
Alania Endl.	1
Borya Labill.	2
64. Blandfordiaceae, 1 genus	
Blandfordia Sm.	1
65. Asteliaceae, 4 genera	
Astelia Banks & Sol. ex R.Br.	4
Collospermum Skottsb.	3
Milligania Hook.f.	2
Neoastelia J.B.Williams	1
66. Lanariaceae, 1 genus	
Lanaria Aiton	1
67. Hypoxidaceae, 10 genera	
Curculigo Gaertn.	10
Empodium Salisb.	3
Hypoxidia F.Friedmann	8
Hypoxis L.	2
Molineria Colla	9
Pauridia Harv.	4
Rhodohypoxis Nel	1
Saniella Hilliard & B.L.Burtt	5
Sinocurculigo Z.J.Liu, L.J.Chen & K.Wei Liu	7
Spiloxene Salisb.	6
68. Tecophilaeaceae, 9 genera	
Conanthera Ruiz & Pav.	1
Cyanastrum Oliv.	6
Cyanella Royen ex L.	9
Eremiolirion J.C.Manning & F.Forest	8
Kabuyea Brummitt	5
Odontostomum Torr.	4
Tecophilaea Bertero ex Colla	2
Walleria J.Kirk	7
Zephyra D.Don	3
69. Doryanthaceae, 1 genus	
Doryanthes Corrêa	1
70. Ixioliriaceae, 1 genus	
Ixiolirion Fisch. ex Herb.	1
71. Iridaceae, 69 genera	
Alophia Herb.	60
Aristea Aiton	4
Babiana Ker Gawl.	30
Bobartia L.	39
Calydorea Herb.	58
Chasmanthe N.E.Br.	29
Cipura Aubl.	53
Cobana Ravenna	67
Crocosmia Planch.	22
Crocus L.	25
Cyanixia Goldblatt & J.C.Manning	16
Cypella Herb.	59
Devia Goldblatt & J.C.Manning	21
Dierama K.Koch.	33
Dietes Salisb. ex Klatt.	38
Diplarrena Labill.	36
Duthiastrum M.P.de Vos	31
Eleutherine Herb.	62
Ennealophus N.E.Br.	66
Ferraria Burm. ex Mill.	40
Freesia Eckl. ex Klatt	20
Geissorhiza Ker Gawl.	28
Gelasine Herb.	64
Geosiris Baill.	3
Gladiolus Tourn. ex L.	10
Herbertia Sweet	57
Hesperantha Ker Gawl.	27
Hesperoxiphion Baker	63

Table 3. Continued.

Iris Tourn. ex L.	37	*Aloiampelos* Klopper & Gideon F.Sm.	11	*Caliphruria* Herb.	70
Isophysis T.Moore	1	*Aloidendron* (Berger) Klopper & Gideon F.Sm.	8	*Calostemma* R.Br.	25
Ixia L.	35			*Cearanthes* Ravenna	45
Klattia Baker	7	*Aristaloe* Boatwr. & J.C.Manning	16	*Chlidanthus* Herb.	59
Lapeirousia Pourr.	15	*Arnocrinum* Endl. & Lehm.	26	*Clinanthus* Herb.	63
Larentia Klatt	52	*Asphodeline* Rchb.	1	*Clivia* Lindl.	28
Lethia Ravenna	54	*Asphodelus* L.	2	*Crinum* L.	17
Libertia Spreng.	43	*Astroloba* Uitewaal	15	*Crossyne* Salisb.	18
Mastigostyla I.M.Johnst.	65	*Bulbine* Wolf	7	*Cryptostephanus* Welw. ex Baker	27
Melasphaerula Ker Gawl.	9	*Bulbinella* Kunth	3	*Cyrtanthus* Aiton	24
Micranthus (Pers.) Eckl.	11	*Caesia* R.Br.	25	*Eithea* Ravenna	50
Moraea Mill.	41	*Corynotheca* F.Muell. ex Benth.	24	*Eucharis* Planch. & Linden	71
Nemastylis Nutt.	56	*Dianella* Lam. ex Juss.	38	*Eucrosia* Ker Gawl.	75
Neomarica Sprague	50	*Eccremis* Willd. ex Schult. & Schult.f.	37	*Eustephia* Cav.	58
Nivenia Vent.	5	*Eremurus* M.Bieb.	6	*Galanthus* L.	40
Olsynium Raf.	45	*Gasteria* Duval	14	*Gethyllis* L.	32
Orthrosanthus Sweet	42	*Geitonoplesium* A.Cunn. ex R.Br.	32	*Gilliesia* Lindl.	6
Patersonia R.Br.	2	*Gonialoe* (Baker) Boatwr. & J.C.Manning	17	*Griffinia* Ker Gawl.	46
Phalocallis Herb.	61			*Habranthus* Herb.	54
Pillansia L.Bolus	13	*Haworthia* Duval.	10	*Haemanthus* L.	30
Pseudiris Chukr & A.Gil	48	*Haworthiopsis* G.D.Rowley	13	*Hannonia* Braun-Blanq. & Maire	35
Pseudotrimezia R.C.Foster	49	*Hemerocallis* L.	21	*Hessea* Herb.	21
Radinosiphon N.E.Br.	23	*Hensmania* W.Fitzg.	27	*Hieronymiella* Pax	60
Romulea Maratti	24	*Herpolirion* Hook.f.	34	*Hippeastrum* Herb.	56
Salpingostylis Small	55	*Hodgsoniola* F.Muell.	22	*Hymenocallis* Salisb.	64
Savannosiphon Goldblatt & Marais	17	*Johnsonia* R.Br.	29	*Ismene* Salisb. ex Herb.	66
Sessilanthera Molseed & Cruden	68	*Kniphofia* Moench	4	*Lapiedra* Lag.	36
Sisyrinchium L.	47	*Kumara* Medik	9	*Leptochiton* Sealy	65
Solenomelus Miers	44	*Pasithea* D.Don	30	*Leucocoryne* Lindl.	13
Sparaxis Ker Gawl.	32	*Phormium* J.R.Forst. & G.Forst.	31	*Leucojum* L.	39
Syringodea Hook.f.	26	*Simethis* Kunth	20	*Lycoris* Herb.	34
Tapeinia Juss.	46	*Stawellia* F.Muell.	28	*Mathieua* Klotzsch	72
Thereianthus G.J.Lewis	12	*Stypandra* R.Br.	35	*Miersia* Lindl.	7
Tigridia Juss.	69	*Thelionema* R.J.F.Hend.	36	*Namaquanula* D.Müll.-Doblies & U.Müll.-Doblies	22
Trimezia Salisb. ex Herb.	51	*Trachyandra* Kunth	5		
Tritonia Ker Gawl.	34	*Tricoryne* R.Br.	23	*Narcissus* L.	43
Tritoniopsis L.Bolus	8	*Tulista* Raf.	18	*Nerine* Herb.	20
Watsonia Mill.	14	*Xanthorrhoea* Sm.	19	*Nothoscordum* Kunth	8
Witsenia Thunb.	6	**74. Amaryllidaceae, 75 genera**		*Pamianthe* Stapf	61
Xenoscapa (Goldblatt) Goldblatt & J.C.Manning	19	*Acis* Salisb.	38	*Pancratium* Dill. ex L.	41
		Agapanthus L'Hér.	1	*Paramongaia* Velarde	62
Zygotritonia Mildbr.	18	*Allium* L.	2	*Phaedranassa* Herb.	68
72. Xeronemataceae, 1 genus		*Amaryllis* L.	14	*Phycella* Lindl.	48
Xeronema Brongn. & Gris	1	*Ammocharis* Herb.	16	*Placea* Miers	49
73. Xanthorrhoeaceae, 38 genera		*Apodolirion* Baker	31	*Plagiolirion* Baker	69
Agrostocrinum F.Muell.	33	*Boophone* Herb.	15	*Proiphys* Herb.	26
Aloe L.	12	*Brunsvigia* Heist.	23	*Prototulbaghia* Vosa	3

Table 3. Continued.

Pyrolirion Herb.	57	*Chamaexeros* Benth.	5	*Leucocrinum* Nutt. ex A.Gray	56
Rauhia Traub	67	*Chlorogalum* (Lindl.) Kunth	61	*Liriope* Lour.	30
Rhodophiala C.Presl.	53	*Chlorophytum* Ker Gawl.	55	*Lomandra* Labill.	7
Scadoxus Raf.	29	*Clara* Kunth	47	*Maianthemum* F.H.Wigg.	20
Schickendantziella Speg.	9	*Comospermum* Rauschert	24	*Manfreda* Salisb.	71
Solaria Phil.	5	*Convallaria* L.	37	*Massonia* Thunb. ex Houtt.	105
Speea Loes.	10	*Cordyline* Comm. ex R.Br.	9	*Merwilla* Speta	94
Sprekelia Heist.	52	*Danae* Medik	26	*Milla* Cav.	84
Stenomesson Herb.	73	*Dandya* H.E.Moore	83	*Muilla* S.Watson ex Benth.	74
Sternbergia Waldst. & Kit.	42	*Dasylirion* Zucc.	32	*Murchisonia* Brittan	11
Strumaria Jacq.	19	*Daubenya* Lindl.	101	*Muscari* Mill.	118
Tocantinia Ravenna	51	*Diamena* Ravenna	49	*Namophila* U.Müll.-Doblies & D.Müll.-Doblies	104
Traubia Moldenke	47	*Dichelostemma* Kunth	78		
Trichlora Baker	12	*Dichopogon* Kunth	14	*Nolina* Michx.	35
Tristagma Poepp.	11	*Diora* Ravenna	50	*Ophiopogon* Ker Gawl.	31
Tulbaghia L.	4	*Dipcadi* Medik	89	*Ornithogalum* L.	87
Ungernia Bunge	33	*Disporopsis* Hance	19	*Oziroe* Raf.	85
Urceolina Rchb.	74	*Dracaena* Vand. ex L.	25	*Paradisea* Mazzuc.	51
Vagaria Herb.	37	*Drimia* Jacq.	92	*Peliosanthes* Andrews	29
Worsleya (Traub) Traub	44	*Drimiopsis* Lindl. & Paxton	97	*Petronymphe* H.E.Moore	81
Zephyranthes Herb.	55	*Duiranthera* Hemsl.	53	*Polianthes* L.	70
75. Asparagaceae, 120 genera		*Echeandia* Ortega	57	*Polygonatum* Mill.	22
Acanthocarpus Lehm.	6	*Eremocrinum* M.E.Jones	60	*Prospero* Salisb.	116
Agave L.	72	*Eriospermum* Jacq.	18	*Pseudogaltonia* (Kunze) Engl.	88
Albuca L.	86	*Eucomis* L'Hé	99	*Pseudomuscari* Garbari & Greuter	112
Alrawia (Wendelbo) Perss. & Wendelbo	108	*Eustrephus* R.Br.	13	*Pseudoprospero* Speta	93
		Fessia Speta	113	*Puschkinia* Adams	109
Androstephium Torr.	73	*Furcraea* Vent.	69	*Reineckea* Kunth	38
Anemarrhena Bunge	43	*Hagenbachia* Nees & Mart.	54	*Resnova* van der Merwe	96
Anthericum L.	48	*Hastingsia* S.Watson	63	*Rohdea* Roth	39
Aphyllanthes L.	42	*Hemiphylacus* S.Watson	16	*Romnalda* P.F.Stevens	4
Arthropodium R.Br.	15	*Herreria* Ruiz & Pav.	45	*Ruscus* L.	28
Asparagus Tourn. ex L.	17	*Herreriopsis* H.Perrier	46	*Sagittanthera*	91
Aspidistra Ker Gawl.	41	*Hesperaloe* Engelm.	66	*Schizocarphus* van der Merwe	95
Barnardia Lindl.	106	*Hesperocallis* A.Gray	58	*Schoenolirion* Durand	62
Beaucarnea Lem.	34	*Hesperoyucca* (Engelm.) Trel.	65	*Scilla* L.	120
Behnia Didr.	44	*Heteropolygonatum* M.N.Tamura & Ogisu	21	*Semele* Kunth	27
Bellevalia Lapeyr.	119			*Sowerbaea* Sm.	1
Beschorneria Kunth	68	*Hosta* Tratt.	59	*Speirantha* Baker	36
Bessera Schult.f.	82	*Hyacinthella* Schur	117	*Spetaea* Wetschnig & Pfosser	100
Bloomeria Kellogg	75	*Hyacinthoides* Heist. ex Fabr.	114	*Theropogon* Maxim.	23
Bowiea Harv. ex Hook.f.	90	*Hyacinthus* Tourn. ex L.	111	*Thysanotus* R.Br.	12
Brimeura Salisb.	110	*Jaimehintonia* B.L.Turner	80	*Trichopetalum* Lindl.	10
Brodiaea Sm.	79	*Lachenalia* J.Jacq. ex Murray	103	*Trihesperus* Herb.	52
Calibanus Rose	33	*Laxmannia* R.Br.	2	*Triteleia* Douglas ex Lindl.	76
Camassia Lindl.	64	*Ledebouria* Roth	98	*Triteleiopsis* Hoover	77
Chamaescilla F.Muell. ex Benth.	8	*Leopoldia* Parl.	115	*Tupistra* Ker Gawl.	40

Table 3. Continued.

Veltheimia Gled.	102
Xerolirion A.S.George	3
Yucca L.	67
Zagrosia Speta	107
Arecales, 1 family	
76. Arecaceae/Palmae, 183 genera	
Acanthophoenix H.Wendl.	152
Acoelorrhaphe H.Wendl.	44
Acrocomia Mart.	101
Actinokentia Dammer	125
Actinorhytis H.Wendl. & Drude	123
Adonidia Becc.	156
Aiphanes Willd.	103
Allagoptera Nees	93
Ammandra O.F.Cook	72
Aphandra Barford	73
Archontophoenix H.Wendl. & Drude	124
Areca L.	128
Arenga Labill. ex DC	56
Asterogyne H.Wendl. ex Hook.f.	118
Astrocaryum G.Mey.	102
Attalea Kunth.	94
Bactris Jacq. ex Scop.	104
Balaka Becc.	160
Barcella (Traill) Drude	106
Basselinia Vieill.	131
Beccariophoenix Jum. & H.Perrier	90
Bentinckia Berry ex Roxb.	174
Bismarckia Hildebr. & H.Wendl.	59
Borassodendron Becc.	65
Borassus L.	66
Brahea Mart.	46
Brassiophoenix Burret	166
Burretiokentia Pic.Serm.	132
Butia (Becc.) Becc.	95
Calamus L.	17
Calyptrocalyx Blume	146
Calyptrogyne H.Wendl.	116
Calyptronoma Griseb.	117
Carpentaria Becc.	162
Carpoxylon H.Wendl. & Drude	137
Caryota L.	55
Ceroxylon Bonpl. ex DC.	68
Chamaedorea Willd.	83
Chamaerops L.	32
Chambeyronia Vieill.	126
Chelyocarpus Drammer	27
Chuniophoenix Burret	51
Clinosperma Becc.	141
Clinostigma H.Wendl.	175
Coccothrinax Sarg.	23
Cocos L.	96
Colpothrinax Schaedtler	47
Copernicia Mart. ex Endl.	48
Corypha L.	58
Cryosophila Blume	28
Cyphokentia Brongn.	140
Cyphophoenix H.Wendl. ex Hook.f.	133
Cyphosperma H.Wendl. ex Hook.f.	134
Cyrtostachys Blume	176
Deckenia H.Wendl. ex Seem.	151
Desmoncus Mart.	105
Dictyocaryum H.Wendl.	76
Dictyosperma H.Wendl. & Drude	177
Dransfieldia W.J.Baker & Zona	178
Drymophloeus Zipp.	164
Dypsis Noronha ex Mart.	142
Elaeis Jacq.	107
Eleiodoxa (Becc.) Burret	10
Eremospatha (G.Mann & H.Wendl.) Schaedtler	3
Eugeissona Griff.	1
Euterpe Mart.	110
Gaussia H.Wendl.	84
Geonoma Willd.	119
Guihaia J.Dransf., S.K.Lee & F.N.Wei	33
Hedyscepe H.Wendl. & Drude	169
Hemithrinax Hook.f.	24
Heterospathe Scheff.	179
Howea Becc.	148
Hydriastele H.Wendl. & Drude	180
Hyophorbe Gaertn.	80
Hyospathe Mart.	109
Hyphaene Gaertn.	61
Iguanura Blume	181
Iriartea Ruiz & Pav.	77
Iriartella H.Wendl.	75
Itaya H.E.Moore	29
Jailoloa Heatubun & W.J.Baker	158
Johannesteijsmannia H.E.Moore	41
Juania Drude	69
Jubaea Kunth	97
Jubaeopsis Becc.	91
Kentiopsis Brongn.	127
Kerriodoxa J.Dransf.	52
Korthalsia Blume	9
Laccospadix H.Wendl. & Drude	149
Laccosperma Drude	4
Lanonia A.J.Hend. & C.D.Bacon	40
Latania Comm. ex Juss.	63
Lemurophoenix J.Dransf.	143
Leopoldinia Mart.	120
Lepidocaryum Mart.	6
Lepidorrhachis (H.Wendl. & Drude) O.F.Cook	135
Leucothrinax C.Lewis & Zona	25
Licuala Wurmb.	39
Linospadix H.Wendl.	147
Livistona R.Br.	38
Lodoicea Comm. ex DC.	64
Loxococcus H.Wendl. & Drude	182
Lytocaryum Toledo	98
Manicaria Gaertn.	108
Manjekia W.J.Baker & Heatubun	159
Marojejya Humbert	144
Masoala Jum.	145
Mauritia L.f.	7
Mauritiella Burret	8
Maxburretia Furtado	36
Medemia Württemb. ex H.Wendl.	62
Metroxylon Rottb.	12
Myrialepis Becc.	15
Nannorrhops H.Wendl.	53
Nenga H.Wendl. & Drude	129
Neonicholsonia Dammer	112
Neoveitchia Becc.	139
Nephrosperma Balf.f.	170
Normanbya F.Muell. ex Becc.	165
Nypa Steck	18
Oenocarpus Mart.	113
Oncocalamus (G.Mann & H.Wendl.) H.Wendl.	2
Oncosperma Blume	150
Orania Zipp.	86
Oraniopsis (Becc.) J.Dransf., A.K.Irvine & N.W.Uhl	70
Parajubaea Burret	100
Pelagodoxa Becc.	121
Phoenicophorium H.Wendl.	171
Phoenix L.	31
Pholidocarpus Blume	42

Table 3. Continued.

Pholidostachys H.Wendl. ex Hook.f	115	*Welfia* H.Wendl.	114	*Triceratella* Brenan	1
Physokentia Becc.	136	*Wendlandiella* Dammer	81	*Tripogandra* Raf.	38
Phytelephas Ruiz & Pav.	74	*Wettinia* Poepp. ex Endl.	79	*Weldenia* Schult.f.	35
Pigafetta (Blume) Becc.	13	*Wodyetia* A.K.Irvine	163	**79. Philydraceae, 3 genera**	
Pinanga Blume	130	*Zombia* L.H.Bailey	22	*Helmholtzia* F.Muell.	3
Plectocomia Mart. & Blume	14	**Commelinales, 5 families**		*Philydrella* Caruel	1
Plectocomiopsis Becc.	16	**77. Hanguanaceae, 1 genus**		*Philydrum* Banks & Sol. ex Gaertn.	2
Podococcus G.Mann & H.Wendl.	85	*Hanguana* Blume	1	**80. Pontederiaceae, 6 genera**	
Ponapea Becc.	155	**78. Commelinaceae, 41 genera**		*Eichhornia* Kunth	3
Prestoea Hook.f.	111	*Aetheolirion* Forman	18	*Heteranthera* Ruiz & Pav.	6
Pritchardia Seem. & H.Wendl.	49	*Amischotolype* Hassk.	28	*Hydrothrix* Hook.f.	1
Pseudophoenix H.Wendl. ex Sarg.	67	*Aneilema* R.Br.	15	*Monochoria* C.Presl.	5
Ptychococcus Becc.	167	*Anthericopsis* Engl.	4	*Pontederia* L.	4
Ptychosperma Labill.	154	*Belosynapsis* Hassk.	29	*Scholleropsis* H.Perrier	2
Raphia P.Beauv.	5	*Buforrestia* C.B.Clarke	6	**81. Haemodoraceae, 14 genera**	
Ravenea H.Wendl. ex C.D.Bouché	71	*Callisia* Loefl.	37	*Anigozanthos* Labill.	3
Reinhardtia Liebm.	89	*Cartonema* R.Br.	2	*Barberetta* Harv.	10
Rhapidophyllum H.Wendl. & Drude	35	*Cochliostema* Lem.	21	*Blancoa* Lindl.	5
Rhapis L.f. ex Aiton	37	*Coleotrype* C.B.Clarke	26	*Conostylis* R.Br.	6
Rhopaloblaste Scheff.	183	*Commelina* L.	17	*Dilatris* P.J.Bergius	7
Rhopalostylis H.Wendl. & Drude	168	*Cyanotis* D.Don	30	*Haemodorum* Sm.	9
Roscheria H.Wendl. ex Balf.f.	172	*Dichorisandra* J.C.Mikan	25	*Lachnanthes* Elliott	8
Roystonea O.F.Cook	88	*Dictyospermum* Wight	11	*Macropidia* J.Drumm. ex Harv.	2
Sabal Adans.	19	*Elasis* D.R.Hunt	39	*Phlebocarya* R.Br.	4
Sabinaria R.Bernal & Galeano	30	*Floscopa* Lour.	8	*Pyrrorhiza* Maguire & Wurdack	12
Salacca Reinw.	11	*Geogenanthus* Ule	23	*Schiekia* Meisn.	13
Saribus Blume	43	*Gibasis* Raf.	40	*Tribonanthes* Endl.	1
Satakentia H.E.Moore	138	*Gibasoides* D.R.Hunt	32	*Wachendorfia* Burm.	11
Satranala J.Dransf. & Beentje	60	*Matudanthus* D.R.Hunt	33	*Xiphidium* Aubl.	14
Schippia Burret	20	*Murdannia* Royle	5	**Zingiberales, 8 families**	
Sclerosperma G.Mann & H.Wendl.	87	*Palisota* Rchb.	3	**82. Strelitziaceae, 3 genera**	
Serenoa Hook.f.	45	*Plowmanianthus* Faden & C.R.Hardy	22	*Phenakospermum* Endl.	2
Socratea H.Karst.	78	*Pollia* Thunb	12	*Ravenala* Scop.	1
Sommieria Becc.	122	*Polyspatha* Benth.	16	*Strelitzia* Banks	3
Syagrus Mart.	99	*Porandra* D.Y.Hong	27	**83. Lowiaceae, 1 genus**	
Synechanthus H.Wendl.	82	*Pseudoparis* H.Perrier	9	*Orchidantha* N.E.Br.	1
Tahina J.Dransf. & Rakotoarin.	54	*Rhopalephora* Hassk.	14	**84. Heliconiaceae, 1 genus**	
Tectiphiala H.E.Moore	153	*Sauvallea* C.Wright	31	*Heliconia* L.	1
Thrinax L.f. ex Sw.	26	*Siderasis* Raf.	24	**85. Musaceae, 3 genera**	
Trachycarpus H.Wendl.	34	*Spatholirion* Ridl.	20	*Ensete* Bruce ex Horan.	3
Trithrinax Mart.	21	*Stanfieldiella* Brenan	7	*Musa* L.	1
Veitchia H.Wendl.	161	*Streptolirion* Edgew.	19	*Musella* (Franch.) C.Y.Wu ex H.W.Li	2
Verschaffeltia H.Wendl.	173	*Tapheocarpa* Conran	13	**86. Cannaceae, 1 genus**	
Voanioala J.Dransf.	92	*Thyrsanthemum* Pichon	36	*Canna* L.	1
Wallaceodoxa Heatubun & W.J.Baker	157	*Tinantia* Scheidw.	34	**87. Marantaceae, 28 genera**	
Wallichia Roxb.	57	*Tradescantia* Ruppius ex L.	41	*Afrocalathea* K.Schum.	17
Washingtonia H.Wendl.	50	*Tricarpelema* J.K.Morton	10	*Calathea* G.Mey.	9

Table 3. Continued.

Ctenanthe Eichler	27
Donax Lour.	13
Goeppertia Nees	7
Halopegia K.Schum.	21
Haumania J.Léonard	6
Hylaeanthe A.M.E.Jonker & Jonker	23
Hypselodelphys (K.Schum.) Milne-Redh.	5
Indianthus Suksathan & Borchs.	20
Ischnosiphon Körn.	11
Koernickanthe L.Andersson	26
Maranta Plum. ex L.	24
Marantochloa Brongn. ex Gris	16
Megaphrynium Milne-Redh.	3
Monophyllanthe K.Schum.	19
Monotagma K.Schum.	8
Myrosma L.f.	22
Phrynium Willd.	15
Pleiostachya K.Schum.	10
Saranthe (Regel & Körn.) Eichler	25
Sarcophrynium K.Schum.	1
Schumannianthus Gagnep.	14
Stachyphrynium K.Schum.	18
Stromanthe Sond.	28
Thalia L.	12
Thaumatococcus Benth.	2
Trachyphrynium Benth.	4
88. Costaceae, 7 genera	
Chamaecostus C.D.Specht & D.W.Stev.	1
Costus L.	4
Dimerocostus Kuntze	3
Hellenia Retz.	6
Monocostus K.Schum.	2
Paracostus C.D.Specht	5
Tapeinochilos Miq.	7
89. Zingiberaceae, 52 genera	
Aframomum K.Schum.	18
Alpinia Roxb.	22
Amomum Roxb.	21
Aulotandra Gagnep.	1
Boesenbergia Kuntze	51
Burbidgea Hook.f.	6
Camptandra Ridl.	27
Caulokaempferia K.Larsen	26
Cautleya (Royle ex Benth.) Hook.f.	39
Cornukaempferia Mood & K.Larsen	46
Curcuma L.	32
Cyphostigma Benth.	9
Distichochlamys M.F.Newman	47
Elettaria Maton	13
Elettariopsis Baker	14
Etlingera Giseke	20
Gagnepainia K.Schum.	24
Geocharis (K.Schum.) Ridl.	12
Geostachys (Baker) Ridl.	15
Globba L.	23
Haniffia Holttum	43
Haplochorema K.Schum.	48
Hedychium J.Koenig	36
Hemiorchis Kurz	25
Hitchenia Wall.	28
Hornstedtia Retz.	17
Kaempferia L.	50
Kedhalia C.K.Lim	41
Laosanthus K.Larsen & Jenjitt.	29
Larsenianthus W.J.Kress & Mood	35
Leptosolena C.Presl.	10
Myxochlamys A.Takano & Nagam.	45
Nanochilus K.Schum.	33
Newmania N.S.Lý & Škorničk.	42
Parakaempferia A.S.Rao & D.M.Verma	44
Plagiostachys Ridl.	16
Pleuranthodium (K.Schum.) R.M.Sm.	7
Pommereschea Wittm.	37
Renealmia L.f.	19
Rhynchanthus Hook.f.	38
Riedelia Oliv.	8
Roscoea Sm.	40
Scaphochlamys Baker	49
Siamanthus K.Larsen & J.Mood	5
Siliquamomum J.M.Wood & Franks	4
Siphonochilus J.M.Wood & Franks	2
Smithatris W.J.Kress & K.Larsen	30
Stadiochilus R.M.Sm.	34
Stahlianthus Kuntze	31
Tamijia S.Sakai & Nagam.	3
Vanoverberghia Merr.	11
Zingiber Mill.	52
Unplaced, 1 family	
90. Dasypogonaceae, 4 genera	
Baxteria R.Br. ex Hook.	1
Calectasia R.Br.	4
Dasypogon R.Br.	3
Kingia R.Br.	2
Poales, 16 families	
91. Typhaceae, 2 genera	
Sparganium L.	1
Typha L.	2
92. Bromeliaceae, 47 genera	
Acanthostachys Link, Klotzsch & Otto	32
Aechmea Ruiz & Pav.	47
Ananas Mill.	28
Androlepis Brongn. ex Houllet	35
Araeococcus Brongn.	38
Ayensua L.B.Sm.	1
Billbergia Thunb.	45
Brewcaria L.B.Sm., Steyerm. & H.Rob.	13
Brocchinia Schult. & Schult.f.	2
Bromelia L.	25
Canistrum E.Morren	41
Catopsis Griseb.	6
Connellia N.E.Br.	3
Cottendorfia Schult. & Schult.f.	12
Cryptanthus Otto & A.Dietr.	30
Deuterocohnia Mez	18
Disteganthus Lem.	36
Dyckia Schult. & Schult.f.	20
Eduandrea Leme, W.Till, G.K.Br., J.R.Grant & Govaerts	33
Encholirium Mart. ex Schult. & Schult.f.	19
Fascicularia Mez	22
Fernseea Baker	26
Fosterella L.B.Sm.	17
Glomeropitcairnia Mez	5
Greigia Regel	24
Guzmania Ruiz & Pav.	9
Hechtia Klotzsch	11
Hohenbergia Schult. & Schult.f.	44
Hohenbergiopsis L.B.Sm. & Read	34
Lapanthus Louzada & Versieux	29
Lindmania Mez	4
Lymania Read	39
Mezobromelia L.B.Sm.	8
Navia Schult. & Schult.f.	15
Neoglaziovia Mez	27
Neoregelia L.B.Sm.	46
Nidularium Lem.	43
Ochagavia Phil.	23
Orthophytum Beer	31
Pitcairnia L'Hér.	16

Table 3. Continued.

Portea Brongn. ex K.Koch	37
Puya Molina	21
Quesnelia Gaudich.	42
Ronnbergia E.Morren & André	40
Steyerbromelia L.B.Sm.	14
Tillandsia L.	10
Vriesea Lindl.	7
93. Rapateaceae, 17 genera	
Amphiphyllum Gleason	16
Cephalostemon R.H.Schomb.	3
Duckea Maguire	2
Epidryos Maguire	15
Guacamaya Maguire	11
Kunhardtia Maguire	10
Marahuacaea Maguire	13
Maschalocephalus Gilg & K.Schum.	5
Monotrema Körn.	8
Phelpsiella Maguire	14
Potarophytum Sandwith	7
Rapatea Aubl.	4
Saxofridericia R.H.Schomb.	9
Schoenocephalium Seub.	12
Spathanthus Desv.	1
Stegolepis Klotzsch ex Körn.	17
Windsorina Gleason	6
94. Xyridaceae, 5 genera	
Abolboda Bonpl.	3
Achlyphila Maguire & Wurdack	1
Aratitiyopea Steyerm. & P.E.Berry	4
Orectanthe Maguire	5
Xyris Gronov. ex L.	2
95. Eriocaulaceae, 10 genera	
Actinocephalus (Körn.) Sano	9
Comanthera L.B.Sm.	3
Eriocaulon L.	2
Lachnocaulon Kunth	8
Leiothrix Ruhland	5
Mesanthemum Körn.	1
Paepalanthus Mart.	10
Rondonanthus Herzog	6
Syngonanthus Ruhland	4
Tonina Aubl.	7
96. Mayacaceae, 1 genus	
Mayaca Aubl.	1
97. Thurniaceae, 2 genera	
Prionium E.Mey.	1
Thurnia Hook.f.	2
98. Juncaceae, 8 genera	
Distichia Nees & Meyen	5
Juncus L.	8
Luzula DC.	2
Marsippospermum Desv.	6
Oreojuncus Záv. Drábk. & Kirschner	1
Oxychloe Phil.	7
Patosia Buchenau	3
Rostkovia Desv.	4
99. Cyperaceae, 94 genera	
Actinoschoenus Benth.	76
Actinoscirpus (Ohwi) R.W.Haines & Lye	82
Afrotrilepis (Gilly) J.Raynal	12
Amphiscirpus Oteng-Yeb.	64
Androtrichum (Brongn.) Brongn.	93
Arthrostylis R.Br.	77
Becquerelia Brongn.	24
Bisboeckelera Kuntze	22
Blysmus Panz. ex Schult.	63
Bolboschoenus (Asch.) Palla	74
Bulbostylis Kunth	81
Calliscirpus C.N.Gilmour, J.R.Starr & Naczi	54
Calyptrocarya Nees	26
Capeobolus Browning	27
Capitularina J.Kern	1
Carex L.	58
Carpha Banks & Sol. ex R.Br.	43
Caustis R.Br.	37
Cephalocarpus Nees	19
Chorizandra R.Br.	8
Chrysitrix L.	7
Cladium P.Browne	16
Coleochloa Gilly	13
Costularia C.B.Clarke	44
Crosslandia W.Fitzg.	79
Cyathochaeta Nees	38
Cyathocoma Nees	35
Cymophyllus Mack. ex Britton & A.Br.	53
Cyperus L.	94
Cypringlea M.T.Strong	66
Diplacrum R.Br.	23
Diplasia Pers.	2
Dracoscirpoides Muasya	88
Dulichium Pers.	61
Eleocharis R.Br.	72
Epischoenus C.B.Clarke	42
Eriophorum L.	69
Erioscirpus Palla	90
Evandra R.Br.	33
Everardia Ridl. ex Oliv.	20
Exocarya Benth.	3
Ficinia Schrad.	92
Fimbristylis Vahl	75
Fuirena Rottb.	71
Gahnia J.R.Forst. & G.Forst.	45
Gymnoschoenus Nees	17
Hellmuthia Steud.	89
Hypolytrum Pers.	10
Isolepis R.Br.	91
Karinia Reznicek & McVaugh	86
Khaosokia D.A.Simpson, Chayam. & J.Parn.	52
Kobresia Willd.	56
Koyamaea W.W.Thomas & G.Davidse	18
Lagenocarpus Nees.	21
Lepidosperma Labill.	48
Lepironia Pers.	4
Machaerina Vahl	46
Mapania Aubl.	11
Mesomelaena Nees	39
Microdracoides Hua	15
Morelotia Gaudich.	34
Neesenbeckia Levyns	28
Nelmesia Van der Veken	73
Nemum Desv. ex Ham.	80
Neoscirpus Y.N.Lee & Y.C.Oh	65
Oreobolopsis T.Koyama & Guagl.	59
Oreobolus R.Br.	41
Paramapania Uittien	9
Phylloscirpus C.B.Clarke	67
Pleurostachys Brongn.	50
Principina Uittien	5
Pseudoschoenus (C.B.Clarke) Oteng-Yeb.	84
Ptilothrix K.L.Wilson	29
Reedia F.Muell.	30
Rhynchocladium T.Koyama	31
Rhynchospora Vahl	51
Schoenoplectiella Lye	85
Schoenoplectus (Rchb.) Palla	83
Schoenoxiphium Nees	55
Schoenus L.	49
Scirpodendron Zipp. ex Kurz	6

Table 3. Continued.

Scirpoides Ség.	87	*Baloskion* Raf.	34	*Melanostachya* B.G.Briggs & L.A.S.Johnson	37
Scirpus Tourn. ex L.	70	*Calorophus* Labill.	18	*Nevillea* Esterh. & H.P.Linder	3
Scleria P.J.Bergius	25	*Cannomois* P.Beauv. ex Desv.	4	*Platycaulos* H.P.Linder	10
Sumatroscirpus Oteng-Yeb.	62	*Catacolea* B.G.Briggs & L.A.S.Johnson	39	*Platychorda* B.G.Briggs & L.A.S.Johnson	31
Tetraria P.Beauv.	47	*Ceratocaryum* Nees	6	*Restio* Rottb.	16
Trachystylis S.T.Blake	78	*Chaetanthus* R.Br.	26	*Rhodocoma* Nees	15
Trianoptiles Fenzl ex Endl.	36	*Chordifex* B.G.Briggs & L.A.S.Johnson	33	*Soroveta* H.P.Linder & C.R.Hardy	9
Trichophorum Pers.	60	*Coleocarya* S.T.Blake	41	*Sporadanthus* F.Muell. ex Buchanan	17
Trichoschoenus J.Raynal	32	*Cytogonidium* B.G.Briggs & L.A.S.Johnson	36	*Staberoha* Kunth	14
Tricostularia Nees	40	*Dapsilanthus* B.G.Briggs & L.A.S.Johnson	28	*Taraxis* B.G.Briggs & L.A.S.Johnson	22
Trilepis Nees	14	*Desmocladus* Nees	42	*Thamnochortus* P.J.Bergius	8
Uncinia Pers.	57	*Dielsia* Gilg	35	*Tremulina* B.G.Briggs & L.A.S.Johnson	32
Zameioscirpus Dhooge & Goetgh.	68	*Elegia* L.	11	*Tyrbastes* B.G.Briggs & L.A.S.Johnson	38
100. Anarthriaceae, 3 genera		*Empodisma* L.A.S.Johnson & D.F.Cutler	21	*Willdenowia* Thunb.	7
Anarthria R.Br.	1	*Eurychorda* B.G.Briggs & L.A.S. Johnson	20	*Winifredia* L.A.S.Johnson & B.G.Briggs	23
Hopkinsia W.Fitzg.	2	*Hydrophilus* H.P.Linder	1	**103. Flagellariaceae, 1 genus**	
Lyginia R.Br.	3	*Hypodiscus* Nees	5	*Flagellaria* L.	1
101. Centrolepidaceae, 3 genera		*Hypolaena* R.Br.	25	**104. Joinvilleaceae, 1 genus**	
Aphelia R.Br.	2	*Lepidobolus* Nees	40	*Joinvillea* Gaudich. ex Brongn. & Gris	1
Centrolepis Labill.	3	*Leptocarpus* R.Br.	29	**105. Ecdeiocoleaceae, 2 genera**	
Gaimardia Gaudich.	1	*Lepyrodia* R.Br.	19	*Ecdeiocolea* F.Muell.	2
102. Restionaceae, 42 genera		*Loxocarya* R.Br.	30	*Georgeantha* B.G.Briggs & L.A.S.Johnson	1
Alexgeorgea Carlquist	24	*Mastersiella* Gilg-Ben.	2	**106. Poaceae/Gramineae, not included**	
Anthochortus Endl.	12				
Apodasmia B.G.Briggs & L.A.S.Johnson	27				
Askidiosperma Steud.	13				

Table 4. List of the subfamilial classification of the Xanthorrhoeaceae, Amaryllidaceae and Asparagaceae with corresponding generic numbers according to the new monocot linear sequence.

Family	Sequence number family[a]	Subfamily	Genus number range
Xanthorrhoeaceae	73	Asphodeloideae	1–18
		Xanthorrhoeoideae	19
		Hemerocallidoideae	20–38
Amaryllidaceae	74	Agaphanthoideae	1
		Allioideae	2–13
		Amaryllidoideae	14–75
Asparagaceae	75	Lomandroideae	1–15
		Asparagoideae	16–17
		Nolinoideae	18–41
		Aphyllanthoideae	42
		Agavoideae	43–72
		Brodiaeoideae	73–84
		Scilloideae	85–120

a Haston & al., 2009; Wearn & al., 2013

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