

A review of chromosome numbers in the Gesneriaceae.

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A REVIEW OF CHROMOSOME NUMBERS IN THE GESNERIACEAE

Laurence E. Skog*

Of the 135 known genera of the Gesneriaceae, 71 have had a count made of the chromosome complement of at least one species. A few genera are well known cytologically relative to the number of species, e.g., *Streptocarpus*, *Columnea*, *Sinningia*, etc. This knowledge reflects the fact that workers have specialized in certain genera and that the well-known genera have received particular attention due to their horticultural value. Other genera, e.g., *Cyrtandra* and *Besleria* in particular, have had little study relative to the numbers of known species. These two genera, each having hundreds of species, have had only a few counts made. They have little horticultural potential and thus are seldom grown in cultivation for counts to be made from living plants.

The earliest reported chromosome count in the Gesneriaceae was made in 1923 by Oehlkers who studied *Monophyllaea horsfieldii* R. Br. Most of the more recent counts were made during the decade of the 1960's by R. E. Lee, primarily working on the New World Gesneriaceae (Gesnerioideae), at Cornell University in Ithaca, NY, and by J. A. Ratter and his colleagues, primarily working on the Old World Gesneriaceae (Cyrtandroideae), at the Royal Botanic Garden, Edinburgh, UK. Each examined and reported on a broad range of genera. Several additional counts have been reported every year since (Skog 1982).

Although many additional species of Gesneriaceae are available in cultivation (mostly from wild origin), counting and the subsequent study of chromosomal morphology have been hampered by the small size of the chromosomes. Ratter (1975) reports the smallest (less than 1 μm) observed chromosomes in *Aeschynanthus* and *Cyrtandra*. The largest known are in a species of *Agalmyla* (over 3 μm in length).

The chromosome number ranges widely among the genera of the Gesneriaceae. Thirty different numbers are so far known. The most frequent count is $n = 9$, found in 13 genera. Two other peaks occur at $n = 13$ and $n = 16$, these numbers found in 11 genera each. The lowest count known is $n = 4$ found in *Chirita pumila* D. Don. This low count probably is another example of the trend toward reduced DNA in weedy, short-lived, herbaceous species (Bennett 1972). The highest known count is $n = 64$ for *Streptocarpus hildebrandtii* Vatke from Madagascar.

More than one haploid chromosome number can occur among the different species in a genus. Genera of the Cyrtandroideae appear to be less uniform in chromosome number and appear particularly prone to dysploidy. *Didymocarpus* has 11 different haploid counts known — 9, 11, 12, 14, 16, 18, 19, 22, 27, 28, and ± 45 . The closely related *Chirita* has 7 known haploid numbers — 4, 9, 10, 14, 16, 17, and 18. *Aeschynanthus*, *Boea* and *Streptocarpus* each have 5 different haploid counts. In the New World subfamily Gesnerioideae no genus has more than 3 different known haploid counts, e.g., *Achimenes*, *Gesneria*. The apparent uniformity of numbers in the Gesnerioideae has been a strong factor when combined with breeding data to unite genera, e.g., *Hypocyrtia* with *Nematanthus*, *Rechsteineria* with *Sinningia* (Moore 1973). In addition, the uniformity of differing basic numbers has been used as the determining factor in segregating species in a genus into one

* Department of Botany, NHB - 166, Smithsonian Institution, Washington, DC 20560

or more genera, e.g., *Moussonia* from *Kohleria* (Wiehler 1975b) and *Eucondia* from *Achimenes* (Wiehler 1976). In the latter case the difference in the basic chromosome number and the lack of fertile hybrids between the two genera (as measured by pollen fertility) outweighed the lack of any apparent decisive morphological differences in segregating the two genera. Little combining or segregating of genera based on chromosome counts or hybrid sterility has occurred in the Cyrtandroideae.

As can be seen from the list of chromosome counts that follows, polyploidy seems to be an occasional occurrence, seemingly more common in the Cyrtandroideae than in the Gesnerioideae as pointed out by Ratter (1975). Ratter considered the ancestral basic number in the Cyrtandroideae to be 8 or 9 and that the diversification and speciation of genera such as *Cyrtandra*, *Saintpaulia*, and *Streptocarpus* has taken place at the tetraploid level. In the Gesnerioideae the most common basic number is $x = 9$ with $x = 13$ being next most common.

Polyploidy within one species very rarely extends beyond the tetraploid level, but 3 levels of ploidy are found in *Aeschynanthus ellipticus* Lauterb. & K. Schum. with $n = 16, 32,$ and 48 . *Haberlea rhodopensis* Friv. with $n = 19, 22,$ and 24 is one of the more striking examples of differing counts within a single species that appears in the list below.

The counts in the following list are either gametic (n) or somatic ($2n$) as given in the original publication. The names of the plants follow current usage.

Taxon	n	$2n$	Reference
ACHIMENES			
<i>antirrhina</i> (DC.) Morton	11		Cooke, in Lee 1962a
<i>baum.</i> var. <i>coerul.</i> Sean. (sic)	11		Eberle 1956
<i>candida</i> Lindl.	11		Lee & Grear 1963
<i>cettoa</i> H. E. Moore	11		Cooke, in Lee 1962a
<i>dulcis</i> Morton	11		Lee 1962b
<i>erecta</i> (Lam.) H. P. Fuchs	22		Davidse 1981
<i>erecta</i> (Lam.) H. P. Fuchs as <i>Achimenes coccinea</i> (Scop.) Pers.	22		Lee 1962b
<i>fimbriata</i> Rose ex Morton	11		Cooke, in Lee 1962a
<i>flava</i> Morton	11		Cooke, in Lee 1962a
<i>giesbrechtii?</i> (sic)	11		Eberle 1956
<i>glabrata</i> (Zucc.) Fritsch	11		Lee & Grear 1963
<i>grandiflora</i> (Schiede) DC.	11		Eberle 1956
<i>heterophylla</i> (Mart.) DC.	11		Lee 1962b; Lee & Grear 1963
<i>hirsuta</i> DC.	11		Eberle 1956
'Little Beauty'	11		Eberle 1956
<i>longiflora</i> DC.	11		Eberle 1956; Davidse 1981
<i>mexicana</i> (Seem.) Benth & Hook. f. ex Fritsch	11		Lee & Grear 1963
<i>mex.</i> var. <i>coerul.</i> Sean. (sic)	11		Eberle 1956
<i>misera</i> Lindl.	22		Lee 1966a
<i>obscura</i> Morton	11		Lee & Grear 1963
<i>patens</i> Benth.	11		Lee & Grear 1963
<i>pedunculata</i> Benth.		±34	Fussell 1958
<i>pedunculata</i> Benth.		34	Cooke & Lee 1966
<i>skinneri</i> Lindl.		±22, ±34	Fussell 1958

Taxon	<i>n</i>	<i>2n</i>	Reference
ACHIMENES (continued)			
<i>warszewicziana</i> (Regel) H. E. Moore (incorrectly identified as <i>Achimenes misera</i> Lindl.)	22		Fussell 1958
<i>woodii</i> Morton	11		Cooke 1962
AESCHYNANTHUS			
<i>albidus</i> (Bl.) Steud.		30	Milne 1975
<i>ellipticus</i> Lauterb. & K. Schum.		64	Ratter 1963
<i>ellipticus</i> Lauterb. & K. Schum.		96	Ratter & Prentice 1964
<i>ellipticus</i> Lauterb. & K. Schum.		32	Milne 1975
<i>fecundus</i> P. Woods	16		Ratter & Milne 1970; Ratter 1975
<i>guttatus</i> P. Woods		32	Milne 1975
<i>horsfieldii</i> R. Br.		32	Milne 1975
<i>hosseussii</i> Pellegrin		32	Ratter 1963
<i>javanicus</i> Hort. Rollisson ex Hook.	32		Eberle 1956
<i>lamponga</i> Miq.	32		Eberle 1956
<i>lineatus</i> Craib		30	Milne 1975
<i>lobbianus</i> Hort. Veitch ex Hook.	32		Eberle 1956
<i>longicalyx</i> Ridl.		32	Milne 1975
<i>longicaulis</i> R. Br. as <i>Aeschynanthus marmoratus</i> T. Moore		30	Rogers 1954; Ratter & Prentice 1964
<i>longicaulis</i> R. Br. as <i>Aeschynanthus marmoratus</i> T. Moore	14		Eberle 1956
<i>longiflorus</i> (Bl.) A. DC.		30	Fussell 1958; Ratter 1963
<i>myrmecophilus</i> P. Woods		64	Milne 1975
<i>nummularius</i> (Burk. & S. Moore) K. Schum.		64	Ratter 1963; Ratter & Milne 1970
<i>obconicus</i> C. B. Cl.	16		Ratter & Prentice 1967
<i>papuanus</i> (Schltr.) B. L. Burt		32	Milne 1975
<i>parasiticus</i> (Roxb.) Wallich	16		Malla et al. 1978
<i>parasiticus</i> (Roxb.) Wallich as <i>Aeschynanthus grandiflorus</i> (D. Don) K. Spreng.		30	Rogers, in Lee 1962a
<i>parasiticus</i> (Roxb.) Wallich as <i>Aeschynanthus grandiflorus</i> (D. Don.) K. Spreng.	16		Eberle 1956
<i>parviflorus</i> (D. Don) K. Spreng.		32	Ratter 1963
<i>parvifolius</i> R. Br.		64	Ratter & Milne 1970
<i>perakensis</i> Ridl.		30 (28 & 21)	Ratter & Prentice 1964
<i>praelongus</i> Kraenzl.	16		Ratter & Milne 1970
<i>pulcher</i> (Bl.) G. Don		60	Rogers 1954
<i>pulcher</i> (Bl.) G. Don		64	Ratter 1963
<i>pulcher</i> (Bl.) G. Don	32		Eberle 1956
<i>radicans</i> Jack	15	32	Ratter & Milne 1970
<i>sikkimensis</i> Stapf		32	Ratter 1963; Ratter & Milne 1970
<i>speciosus</i> Hook.	32		Eberle 1956
× <i>splendidus</i> T. Moore (incorrectly identified as <i>Aeschynanthus parasiticus</i> (Roxb.) Wallich)		32	Ratter 1963; Ratter & Prentice 1964; Ratter 1975
<i>tricolor</i> Hook.		32	Ratter & Milne 1970

Taxon	<i>n</i>	<i>2n</i>	Reference
AESCHYNANTHUS (<i>continued</i>)			
<i>tricolor</i> Hook.	16		Eberle 1956; Eberle 1957a
sp. (G-260, received as <i>Aeschynanthus micranthus</i> C. B. Cl.)	15		Lee 1962a
sp. (from New Guinea)		60	Borgmann 1964
AGALMYLA			
<i>borneensis</i> (Schltr.) B. L. Burt as <i>Dichrotrichum</i> sp. C4045	16		Ratter & Prentice 1967
<i>borneensis</i> (Schltr.) B. L. Burt as <i>Dichrotrichum</i> sp. C4045		32	Ratter & Prentice 1964
<i>parasitica</i> (Lam.) O. Kuntze	16		Fussell 1958
<i>parasitica</i> (Lam.) O. Kuntze		32	Ratter 1963
sp., as <i>Dichrotrichum</i> sp. 60-811 and <i>Dichrotrichum amabile</i> S. Moore		32	Ratter & Prentice 1964; Ratter 1975
ALLOPLECTUS			
<i>calochlamys</i> J. D. Sm.	9		Lee 1967
<i>cristatus</i> (L.) Mart.		18	Morley 1967
<i>cristatus</i> (L.) Mart. var. <i>brevicalyx</i> Morton	9		Wiehler 1972
<i>hispidus</i> (Kunth) Mart.	9		Wiehler 1972
<i>ichthyoderma</i> Hanst.	9		Davidse 1970
<i>tetragonus</i> (Hanst.) Hanst.	9		Davidse 1981; Wiehler 1972
<i>teuscheri</i> (Raym.) Wiehl.	9		Wiehler 1972
ANCYLOSTEMON			
<i>convexus</i> Craib	17	34	Ratter & Prentice 1964
BECCARINDA			
<i>cordifolia</i> (Anthony) B. L. Burt		20	Ratter & Prentice 1964
BELLONIA			
<i>spinosa</i> Sw.	13		Lee 1966b
BESLERIA			
<i>disgrega</i> Morton	16		Wiehler 1972
<i>lutea</i> L.	16		Lee 1966a
BOEA			
<i>hemsleyana</i> B. L. Burt as <i>Boea</i> sp. from Solomon Islands	16		Ratter & Milne 1970; Ratter 1975
<i>herbacea</i> C. B. Cl.		36	Ratter & Milne 1970
<i>hygroskopica</i> F. v. Muell.	8		Lee 1962a; Ratter 1963
<i>kerrii</i> Craib	17		Milne 1975
<i>lawesii</i> (F. v. Muell.) H. O. Forbes	8	16	Ratter & Prentice 1967
<i>magellanica</i> Lam.	8		Ratter & Milne 1970
<i>magellanica</i> Lam.		16	Ratter & Prentice 1964
<i>reticulata</i> Barnett	9		Milne 1975
<i>speluncarum</i> B. L. Burt as <i>Boea</i> sp. from Sarawak	16		Ratter & Prentice 1967; Ratter 1975
BRIGGSIA			
<i>aurantiaca</i> B. L. Burt		34	Ratter 1963
<i>musciicola</i> (Diels) Craib		68	Ratter & Prentice 1964

Taxon	<i>n</i>	<i>2n</i>	Reference;
CAPANEA			
<i>grandiflora</i> (Kunth) Decne. ex Planch. as <i>Campanea oerstedtii</i> (Kl.) Oerst.	13		Davidse 1970
CHIRITA			
<i>anachoreta</i> Hance		18	Ratter 1963
<i>asperifolia</i> (Bl.) B. L. Burt	16	32	Ratter & Prentice 1967
<i>asperifolia</i> (Bl.) B. L. Burt as <i>Chirita blumei</i> C. B. Cl.	14		Lee 1962a; Ratter 1975
<i>bifolia</i> D. Don	14		Vasudevan 1976
<i>bimaculata</i> D. Wood	17		Milne 1975
<i>caerulea</i> R. Br.	9		Milne 1975
<i>caliginosa</i> C. B. Cl.	9		Ratter & Prentice 1967
<i>hamosa</i> R. Br.	17		Milne 1975
<i>involutrata</i> Craib	9		Milne 1975
<i>lavandulacea</i> Stapf		34	Rogers 1954; Ratter & Prentice 1964
<i>lavandulacea</i> Stapf	18		Sugiura 1938
<i>lavandulacea</i> Stapf as <i>Didymocarpus</i> "lavandulacea")	18		Sugiura 1940b
<i>macrophylla</i> Wall.	9	18	Ratter & Prentice 1967
<i>micromusa</i> B. L. Burt	17		Ratter & Milne 1970
<i>pumila</i> D. Don	4		Ratter 1963
<i>sericea</i> Ridley		18	Ratter 1963
<i>sinensis</i> Lindl.		36	Ratter & Prentice 1964
<i>speciosa</i> Kurz as <i>Chirita tralliana</i> Forrest & W. W. Sm.		18	Fussell 1958; Ratter 1963; Ratter 1975
<i>urticifolia</i> Buch.-Ham. ex D. Don		34	Ratter & Prentice 1964
<i>walkeri</i> Gardner	9		Milne 1975
<i>zeylanica</i> Hook.	10		Ratter & Prentice 1967
sp. from Thailand	9		Milne 1975
CHRYSOTHEMIS			
<i>friedrichsthaliana</i> (Hanst.) H. E. Moore	9		Lee 1966a
<i>pulchella</i> (Donn ex Sims) Decne.	9		Lee 1962a; Davidse 1971
CODONANTHE			
<i>calcarata</i> (Miq.) Hanst.	16		Wiehler 1975d
<i>caribaea</i> Urban as <i>Codonanthe triplinervia</i> Britt.	8		Lee 1966b; Wiehler 1975d
<i>corniculata</i> Wiehl. as <i>Codonanthe</i> sp. G-932	16		Wiehler 1975d; Wiehler 1977
<i>crassifolia</i> (Focke) Morton		32	Morley 1967
<i>crassifolia</i> (Focke) Morton	16		Wiehler 1975d
<i>devosiana</i> Lem.	8		Wiehler 1975d
<i>digna</i> Wiehl.	8		Oliver & Skog 1981
? <i>gracilis</i> (Mart.) Hanst.	8		Wiehler 1975d
<i>luteola</i> Wiehl.	8,16		Wiehler 1975d
<i>luteola</i> Wiehl.	16		Oliver & Skog 1981
<i>macradenia</i> J. D. Sm.	16		Lee & Grear 1963; Wiehler 1975d
<i>macradenia</i> J. D. Sm. (incorrectly identified as <i>Codonanthe crassifolia</i> G-70)	16		Fussell 1958
<i>picta</i> Lem.	16		Wiehler 1975d

Taxon	<i>n</i>	<i>2n</i>	Reference
CODONANTHE (<i>continued</i>)			
<i>uleana</i> Fritsch	16		Wiehler 1975d
<i>uleana</i> Fritsch as <i>Codonanthe decurrens</i> I. M. Johnst.		32	Morley 1967
CODONANTHOPSIS			
<i>dissimulata</i> (H. E. Moore) Wiehl.	9		Wiehler 1978
COLUMNEA			
<i>affinis</i> Morton		18	Fussell 1958
<i>allenii</i> Morton		18	Fussell 1958; Morley 1967
<i>ambigua</i> (Urban) B. Morley as <i>Alloplectus ambiguus</i> Urban		36	Morley 1967
<i>ambigua</i> (Urban) B. Morley as <i>Alloplectus ambiguus</i> Urban	18		Lee 1964
<i>angustata</i> (Wiehl.) L. Skog as <i>Columnea</i> sp. from Costa Rica (G-361)	9		Sherk, in Lee 1962a
<i>anisophylla</i> DC. as <i>Columnea warscewicziana</i> (Kl. ex Oerst.) Hanst.	9		Sherk, in Lee 1962a
<i>argentea</i> Griseb.		18	Morley 1967
<i>arguta</i> Morton		18	Fussell 1958; Morley 1967
<i>asteroloma</i> (Wiehl.) L. Skog	9		Oliver & Skog 1981
<i>aureonitens</i> Hook.	9		Lee 1966a
<i>aureonitens</i> Hook.		18	Morley 1967
× <i>banksii</i> Lynch		18	Rogers 1954
<i>billbergiana</i> Beurl.	9		Oliver & Skog 1981
<i>billbergiana</i> Beurl. as <i>Columnea percrassa</i> Morton	9		Lee 1962a
<i>billbergiana</i> Beurl. as <i>Columnea percrassa</i> Morton		18	Morley 1967
<i>brevipila</i> Urban		18	Morley 1967
<i>brevipila</i> Urban	9		Lee 1964
<i>consanguinea</i> Hanst.		36	Morley 1967
<i>consanguinea</i> Hanst.	9		Sherk, in Lee 1962a
<i>crassifolia</i> Brong.		18	Fussell 1958; Morley 1967
<i>crassifolia</i> Brong. 'Stella Nova'		36	Morley 1967
<i>dissimilis</i> Morton as <i>Columnea translucens</i> Raymond	9		Lee 1966a
<i>domingensis</i> (Urban) B. Morley as <i>Alloplectus domingensis</i> Urban		18	Rogers 1954; Ratter 1963
× <i>euphora</i> H. E. Moore	9		Fussell 1958
× <i>euphora</i> H. E. Moore		18	Morley 1967
<i>fawcettii</i> (Urban) Morton	9		Lee 1964
<i>fawcettii</i> (Urban) Morton		18	Morley 1967
<i>flaccida</i> Seem.	9		Lee & Greer 1964
<i>glabra</i> Oerst.	9		Eberle 1956; Sherk, in Lee 1962a
<i>gloriosa</i> Sprague	9		Eberle 1956; Eberle 1957a
<i>gloriosa</i> Sprague		18	Rogers 1954; Morley 1967
<i>gloriosa</i> Sprague var. <i>purpurea</i> Hort. ex Chitt.	9		Morley 1967
<i>grisebachiana</i> O. Kuntze as <i>Alloplectus grisebachianus</i> (O. Kuntze) Urban		18	Morley 1967

Taxon	<i>n</i>	<i>2n</i>	Reference
COLUMNEA (continued)			
<i>harrisii</i> (Urban) Britt. ex Morton		18	Morley 1967
<i>hirsuta</i> Sw.		18	Morley 1967
<i>hirsutissima</i> Morton	9		Lee 1967
<i>hirta</i> Kl. & Hanst.		18	Morton 1963; Morley 1967
<i>hirta</i> Kl. & Hanst.	9		Eberle 1956; Eberle 1957a
<i>hirta</i> var. <i>mortonii</i> (Raymond) B. Morley as <i>Columnnea mortonii</i> Raymond	9		Lee 1962a
<i>hispida</i> Sw.	9		Lee 1966a
<i>hispida</i> Sw.		18	Morley 1967
<i>illepida</i> H. E. Moore	9		Sherk, in Moore 1960
<i>jamaicensis</i> Urban		18	Morley 1967
<i>jamaicensis</i> Urban	9		Lee 1967
" <i>kewensis</i> Hort."	9		Eberle 1956
' <i>Kewensis</i> Variegata'		18	Morley 1967
<i>kucyniakii</i> Raymond	9		Lee 1964
<i>kucyniakii</i> Raymond as <i>Columnnea</i> sp. G-526	9		Lee 1962b
<i>lepidocaula</i> Hanst.		18	Rogers, in Lee 1962a; Morley 1967
<i>linearis</i> Oerst.		18	Fussell 1958; Davidse 1981
<i>magnifica</i> Kl. ex Oerst.	9		Lee 1966a
<i>microphylla</i> Kl. & Hanst.		18	Morley 1967
<i>microphylla</i> Kl. & Hanst.	9		Eberle 1956
<i>minor</i> (Hook.) Hanst.	9		Lee 1962a
<i>minor</i> (Hook.) Hanst. as <i>Columnnea teuscheri</i> (Morton) H. E. Moore	9		Lee 1962a
<i>moorei</i> Morton	9		Sherk, in Moore 1960
<i>moorei</i> Morton as <i>Columnnea</i> sp. II		18	Fussell, in Lee 1962a
<i>nicaraguensis</i> Oerst.	9		Sherk, in Lee 1962a
<i>oerstediana</i> Kl. ex Oerst.		18	Fussell 1958; Morley 1967
<i>pectinata</i> Morton	9		Lee 1967
<i>pichinchensis</i> Hanst.		18	Morley 1967
<i>picta</i> Karst. ? (sic)		36	Morley 1967
<i>pilosissima</i> Standl.		36	Morton 1963
<i>pilosissima</i> Standl.		18	Fussell 1958
<i>proctorii</i> Stearn		18	Morley, in Stearn 1969
<i>purpurata</i> Hanst.		18	Morley 1967
<i>querceti</i> Oerst.	9		Sherk, in Lee 1962a; Davidse 1970
<i>rubricaulis</i> Standl.	9		Lee 1967
<i>rutilans</i> Sw.	9		Morley 1972
<i>rutilans</i> Sw.		18	Morley 1967; Morley 1971
<i>sanguinea</i> (Pers.) Hanst.	18	36	Fussell 1958
<i>sanguinolenta</i> (Kl. ex Oerst.) Hanst.	9		Sherk, in Lee 1962a
<i>scandens</i> L.	9		Lee 1966b
<i>scandens</i> var. <i>fendleri</i> (Sprague) B. Morley as <i>Columnnea fendleri</i> Sprague		18	Morley 1967
<i>scandens</i> L. ? (sic)		18	Morley 1967
<i>schiedeana</i> Schlecht.		18	Rogers 1954; Morley 1967
<i>schiedeana</i> Schlecht.	9		Eberle 1956; Eberle 1957a
<i>subcordata</i> Morton	9		Lee 1967
<i>tulae</i> Urban 'Flava'		18	Fussell 1958; Morley 1967
<i>urbanii</i> Stearn		18	Morley 1967; Morley 1971

Taxon	<i>n</i>	<i>2n</i>	Reference
COLUMNEA (continued)			
<i>verecunda</i> Morton	9		Sherk, in Lee 1962a
<i>verecunda</i> Morton		18	Rogers, in Lee 1962a
× <i>vedariensis</i> Hort. Vilm.ex Mottet		18	Morley 1967
× <i>vilmoriana</i> Meunniss.		18	Morley 1967
"wilsonii Wiehler"		18	Morley 1972
× <i>woodii</i> H. E. Moore		18	Morley 1967
<i>zebrina</i> Raymond	9		Lee 1967
CONANDRON			
<i>ramondioides</i> Sieb. & Zucc.	16	32	Ratter & Prentice 1964
CORYTOPLECTUS			
<i>capitatus</i> (Hook.) Wiehl.	9		Eberle 1956
as <i>Alloplectus capitatus</i> Hook.			
<i>congestus</i> (Lind. ex Hanst.) Wiehl.	9		Davidse 1981
<i>congestus</i> (Lind. ex Hanst.) Wiehl.	9		Wiehler 1972
as <i>Alloplectus zamorensis</i> Linden & Andre			
<i>congestus</i> (Lind. ex Hanst.) Wiehl	9		Lee 1962b
as <i>Alloplectus</i> sp. G-244			
<i>schlimii</i> (Planch. & Lind.) Wiehl.	9		Lee 1962b
as <i>Alloplectus schlimii</i> Planch. & Lind.			
<i>speciosus</i> (Poepp.) Wiehl.	9		Lee 1962a
as <i>Alloplectus speciosus</i> Poepp.			
<i>speciosus</i> (Poepp.) Wiehl.	9		Eberle 1956; Eberle 1957a
as <i>Alloplectus vittatus</i> Lind. & Andre			
CYRTANDRA			
nr. <i>axillaris</i> C. B. Cl.		34	Ratter & Prentice 1964
<i>cordifolia</i> Gaud.	17	34	Storey, in St. John 1966
<i>ferruginosa</i> St. John & Storey		34	Storey, in St. John 1966
<i>garnotiana</i> Gaud.		34	Storey, in St. John 1966
<i>grandiflora</i> Gaud.	17	34	Storey, in St. John 1966
<i>latebrosa</i> Hilleb.		34	Storey, in St. John 1966
<i>mooreaensis</i> Gillett	17	34	Ratter & Prentice 1967;
as <i>Cyrtandra</i> nr. <i>biflora</i> J. R. & G. Forster			Ratter 1975
aff. <i>multibracteata</i> C. B. Cl.	17		Milne 1975
<i>oblongifolia</i> (Bl.) C. B. Cl.	17		Ratter & Prentice 1967
<i>oblongifolia</i> (Bl.) C. B. Cl.		34	Ratter & Prentice 1964
<i>paludosa</i> Gaud.	17		Ratter & Prentice 1967
<i>paludosa</i> Gaud.		34	Storey, in St. John 1966
<i>pendula</i> Bl.		34	Ratter & Prentice 1964
		(35 & 36)	
<i>propinqua</i> C. N. Forbes		34	Storey, in St. John 1966
<i>radiciflora</i> C. B. Cl.		34	Ratter & Prentice 1967
<i>sandei</i> DeVries		34	Milne 1975
<i>sandwicensis</i> (Lev.) St. John & Storey	17	34	Storey, in St. John 1966
<i>sororia</i> Schltr.	17		Milne 1975
<i>splendens</i> C. B. Cl.		34	Ratter & Prentice
		(21, ±24)	
nr. <i>splendens</i> C. B. Cl.		34	Ratter & Prentice 1964
		(27, 36)	
<i>stupantha</i> St. John & Storey	17	34	Storey, in St. John 1966
<i>stupantha</i> St. John & Storey	17		Carr 1978
spp. from New Guinea		32	Borgmann 1964

Taxon	<i>n</i>	<i>2n</i>	Reference
CYRTANDRA (<i>continued</i>)			
sp. from New Guinea C4376	17		Ratter & Prentice 1967
sp. from Solomon Is. C3782		34	Ratter 1963
DIASTEMA			
<i>maculatum</i> Benth.	13		Lee & Greer 1963
<i>quinquevulnerum</i> Planch. & Lind.	13		Lee 1966a
<i>racemiferum</i> Benth.	13		Lee 1966b
as <i>Diastema rupestre</i> T. S. Brandeg.			
<i>vexans</i> H. E. Moore		26	Fussell 1958; Wiehler 1975b
DICHILOBOEA			
<i>speciosa</i> (Ridl.) Stapf	18		Ratter & Prentice 1967
DIDISSANDRA			
<i>lanuginosa</i> C. B. Cl.	10		Mehra & Vasudevan 1972
DIDYMOCARPUS			
<i>alternans</i> Ridl.	18		Ratter & Milne 1970
<i>biserratus</i> Barnett	28		Milne 1975
aff. <i>bombycinus</i> Ridl.		18	Ratter & Milne 1970
<i>citrinus</i> Ridl.	11		Ratter & Milne 1970
<i>corchorifolius</i> R. Br.	22		Ratter & Milne 1970
<i>flavescens</i> Ridl.	9		Ratter & Milne 1970
<i>floccosus</i> Thwaites	16		Milne 1975
<i>innominatus</i> B. L. Burtt	16	32	Ratter & Prentice 1967
<i>malayanus</i> Hook. f.	9		Ratter & Milne 1970
<i>pedicellatus</i> R. Br.	18		Mehra & Vasudevan 1972
<i>pedicellatus</i> R. Br.		24	Malla et al. 1974
<i>praeteritus</i> B. L. Burtt & Davidson	12		Ratter & Prentice 1964
<i>pumilus</i> Ridl.	19		Ratter & Milne 1970
<i>purpureus</i> Ridl.	16		Ratter & Prentice 1967
<i>reticulosus</i> C. B. Cl.	9		Ratter & Milne 1970
<i>rodergi</i> var. <i>siamensis</i> W. W. Smith	14		Ratter & Milne 1970
<i>siamensis</i> Barnett		54	Ratter & Prentice 1964
<i>tomentosus</i> Wight	27		Thathachar 1942
<i>tomentosus</i> Wight	±45	±90	Ratter & Prentice 1967
sp. from Thailand C4304		28	Ratter & Prentice 1967
DRYMONIA			
<i>alloplectoides</i> Hanst.	9		Lee 1962a; Wiehler 1972
as <i>Drymonia</i> sp. G-365			
<i>coccinea</i> (Aubl.) Wiehl.		18	Gadella & Kliphuis 1964
as <i>Alloplectus coccineus</i>			
var. <i>fusco-maculatus</i> Leeuw.			
<i>macrantha</i> (J. D. Sm.) D. Gibs.	9		Wiehler 1972
<i>macrantha</i> (J. D. Sm.) D. Gibs.	9		Lee 1962a
as <i>Drymonia</i> sp. G-196			
<i>macrophylla</i> (Oerst.) H. E. Moore		18	Rogers, in Lee 1962a
<i>mollis</i> Oerst.		18	Ratter 1963
<i>parviflora</i> Hanst.	9		Lee 1966b
<i>serrulata</i> (Jacq.) Mart.		18	Ratter 1963
<i>serrulata</i> (Jacq.) Mart.	9		Lee 1964; Wiehler 1972
as <i>Drymonia</i> sp. G-747			
<i>stenophylla</i> (J. D. Sm.) H. E. Moore	9		Lee 1962a
<i>strigosa</i> (Oerst.) Wiehl.	9		Wiehler 1972
sp. G-102	9		Fussell 1958; Lee 1962a
sp. ML61-2000		18	Ratter 1963

Taxon	<i>n</i>	<i>2n</i>	Reference
EPISCIA			
<i>cupreata</i> (Hook.) Hanst.		18	Rogers 1954; Ratter 1963
<i>cupreata</i> (Hook.) Hanst.	9		Eberle 1956
<i>cupreata</i> (Hook.) Hanst. 'Emerald Queen'		18	Fussell 1958
<i>cupreata</i> (Hook.) Hanst. 'Silver Sheen'		18	Rogers 1954
<i>cupreata</i> (Hook.) Hanst. 'Splendens'		18	Rogers 1954
<i>cupreata</i> (Hook.) Hanst. 'Viridifolia'		18	Rogers 1954
<i>dianthiflora</i> H. E. Moore & R. G. Wilson	9		Fussell 1958
<i>lilacina</i> Hanst.		18	Rogers 1954
<i>punctata</i> (Lindl.) Hanst.		18	Rogers 1954
<i>punctata</i> (Lindl.) Hanst.	9		Eberle 1956
<i>reptans</i> Mart.		18	Rogers, in Lee 1962a
<i>reptans</i> Mart. as <i>Episcia fulgida</i> (Lind.) Hook. f.		18	Rogers 1954
<i>reptans</i> Mart. 'Lady Lou'		18	Fussell 1958
'Tetra'	9		Fussell 1958
EUCODONIA			
<i>andrieuxii</i> (DC.) Wiehl.	12		Cooke, in Lee 1962a; Cooke & Lee 1966
as <i>Achimenes andrieuxii</i> DC.			
<i>verticillata</i> (Mart. & Gal.) Wiehl.	12		Wiehler 1976
<i>verticillata</i> (Mart. & Gal.) Wiehl. as <i>Achimenes bella</i> Morton	24		Cooke & Lee 1966; Lee 1966b
<i>verticillata</i> (Mart. & Gal.) Wiehl. as <i>Achimenes ehrenbergii</i> (Hanst.) H. E. Moore	12		Cooke, in Lee 1962a; Cooke & Lee 1966
<i>verticillata</i> (Mart. & Gal.) Wiehl. as <i>Achimenes ehrenbergii</i> (Hanst.) H. E. Moore		±24	Fussell 1958
FIELDIA			
<i>australis</i> F. v. Muell.		±80	Ratter 1963
GESNERIA			
<i>acaulis</i> L.	14		Davidse 1981
<i>acaulis</i> L. var. <i>acaulis</i>	14		Lee 1966a; Skog 1976
<i>acaulis</i> var. <i>glabrata</i> L. Skog	14		Skog 1976
<i>christii</i> Urban	14		Lee 1966a
<i>citrina</i> Urban	14		Lee 1966a
<i>cuneifolia</i> (DC.) Fritsch	28		Lee 1964
<i>exserta</i> Sw.	14		Lee 1966b
<i>jamaicensis</i> Britt.	14		Lee 1967
<i>pauciflora</i> Urban	14		Lee 1966a
<i>pedunculosa</i> (DC.) Fritsch as <i>Gesneria albiflora</i> (Decne.) Fritsch	14		Lee 1964
<i>pumila</i> Sw.	14		Lee 1966a
<i>reticulata</i> (Griseb.) Urban as <i>Gesneria cuneifolia</i> vel aff. "El Yunque Variant"	14		Lee 1966a
<i>ventricosa</i> Sw.	14		Lee 1966b
<i>viridiflora</i> subsp. <i>sintensisii</i> (Urban) L. Skog as <i>Gesneria sintensisii</i> Urban	7		Nevling 1969

Taxon	<i>n</i>	<i>2n</i>	Reference
GLOXINIA			
<i>gymnostoma</i> Griseb.	13		Wiehler 1972
<i>lindeniana</i> (Regel) Fritsch as <i>Kohleria lindeniana</i> (Regel) H. E. Moore		26	Rogers, in Lee 1962a
<i>lindeniana</i> (Regel) Fritsch	13		Wiehler 1976
<i>lindeniana</i> (Regel) Fritsch as <i>Tydaea lindeniana</i> Regel	13		Eberle 1956
<i>nematanthodes</i> (O. Kuntze) Wiehl.	13		Wiehler 1972
<i>perennis</i> (L.) Fritsch		26	Rogers 1954
<i>perennis</i> (L.) Fritsch	13		Wiehler 1976
<i>perennis</i> (L.) Fritsch as <i>Gloxinia maculata</i> L'Hér.	13		Eberle 1956
<i>sylvatica</i> (Kunth) Wiehl. as <i>Seemannia latifolia</i> Fritsch	13		Lee 1966b
<i>sylvatica</i> (Kunth) Wiehl. as <i>Seemannia sylvatica</i> (Kunth) Hanst.	13		Lee 1962b
<i>sylvatica</i> (Kunth) Wiehl.	13		Wiehler 1975b; Wiehler 1976
<i>sylvatica</i> (Kunth) Wiehl. 'Yellowbird' as <i>Seemannia sylvatica</i> (Kunth) Hanst. 'Yellowbird'	13		Lee, in Moore 1963
× GOMIOCHARIS			
<i>calliantha</i> O. Schwarz		34	Lepper & Jungnickel 1980
HABERLEA			
<i>rhodopensis</i> Friv.		48	Contandriopoulos 1966
<i>rhodopensis</i> Friv.	22		Lepper 1970
<i>rhodopensis</i> Friv.		38	Borhidi 1968
<i>rhodopensis</i> Friv.		44	Milne 1975
HEMIBOEA			
<i>bicornuta</i> (Hay.) Ohwi as <i>Chirita bicornuta</i> Hay.	18		Hsu 1968; Ratter 1975
HEPPIELLA			
<i>ampla</i> Hanst.	13		Wiehler 1972
<i>viscida</i> (Lindl. & Paxt.) Fritsch	26		Wiehler 1971; Wiehler 1972; Wiehler 1976
HEXATHECA			
<i>fulva</i> C. B. Cl.	17		Ratter & Milne 1970
JANKAEA			
<i>heldreichii</i> (Boiss.) Boiss.		56	Contandriopoulos 1966
KOELLIKERIA			
<i>erinoides</i> (DC.) Mansf.	13		Fussell 1958; Wiehler 1975b; Wiehler 1976
KOHLERIA			
<i>allenii</i> Standl. & L. O. Wms.	13		Wiehler 1975b
<i>bella</i> Morton	13		Lee 1967
<i>bogotensis</i> (Nichols.) Fritsch	13		Fussell 1958; Wiehler 1975b
<i>bogotensis</i> (Nichols.) Fritsch as <i>Isoloma bogotense</i> Nichols.	13		Eberle 1956

Taxon	<i>n</i>	<i>2n</i>	Reference
KOHLERIA (continued)			
<i>bogotensis</i> (Nichols.) Fritsch	13		Eberle 1956; Eberle 1957a; Lee 1962a
as <i>Isoloma pictum</i> Hort.			
'Cecilia'	13		Fussell 1958
<i>digitaliflora</i> (Lind. & Andre) Fritsch	13		Wiehler 1975b
<i>eriantha</i> (Benth.) Hanst. (?)	13		Eberle 1956; Eberle 1957a; Lee 1962a
as <i>Isoloma hirsutum</i> Hort.			
<i>eriantha</i> (Benth.) Hanst.	13		Wiehler 1975b
'Eriantha Hybrid'		26	Rogers 1954
<i>hirsuta</i> (Kunth) Regel	13		Davidse 1971; Davidse 1981; Wiehler 1972
<i>lanata</i> Lem.	13		Wiehler 1975b; Wiehler 1976
<i>magnifica</i> (Planch. & Lind.) H. E. Moore	13		Wiehler 1975b
<i>peruviana</i> Fritsch	13		Wiehler 1972
'refulgens'	12-14		Hietz, in Tischler 1927
' <i>Sciadotydaea</i> Hybrid'		26	Rogers 1954
'speciosa'	13		Eberle 1956; Lee 1962a
as <i>Isoloma speciosa</i> (sic)			
<i>spicata</i> (Kunth) Oerst.	13		Davidse 1970; Wiehler 1975b
<i>spicata</i> (Kunth) Oerst.		26	Rogers 1954
<i>spicata</i> (Kunth) Oerst.	13		Lee 1967
as <i>Kohleria longifolia</i> Hanst.			
<i>spicata</i> (Kunth) Oerst.	13		Lee 1967
as <i>Kohleria schiedeana</i> Hanst.			
<i>tubiflora</i> (Cav.) Hanst.	13		Davidse 1970; Davidse 1981; Lee 1962a; Wiehler 1975b
<i>villosa</i> (Fritsch) Wiehl.	13		Wiehler 1975b
as <i>Kohleria platylomata</i> (J. D. Sm.) Wiehl.			
sp.	13		Lee 1962a
LOXOCARPUS			
<i>conicapsularis</i> (C. B. Cl.) B. L. Burtt	9		Milne 1975
LYSIONOTUS			
<i>serratus</i> D. Don		32	Fussell 1958;
<i>serratus</i> D. Don		32	Fussell 1958; Ratter & Prentice 1964
MITARIA			
<i>coccinea</i> Cav.		±74	Ratter 1963
MONOPHYLLAEA			
<i>horsfieldii</i> R. Br.	10		Ratter & Prentice 1967
<i>horsfieldii</i> R. Br.	16	32	Oehlkers 1923
MONOPYLE			
<i>maxonii</i> Morton	13		Lee 1966a; Wiehler 1976
MOUSSONIA			
<i>depeana</i> (Schlecht. & Cham.) Hanst.	11		Wiehler 1975b
<i>elegans</i> Dcne.	11		Wiehler 1976
<i>elegans</i> Dcne.	11		Lee 1964; Davidse 1970
as <i>Kohleria elegans</i> (Dcne.) Loes.			
<i>hirsutissima</i> (Morton) Wiehl.	11		Lee 1967
as <i>Kohleria hirsutissima</i> Morton			

Taxon	<i>n</i>	<i>2n</i>	Reference
MOUSSONIA (continued)			
<i>hirsutissima</i> (Morton) Wiehl.	11		Wiehler 1976
<i>septentrionalis</i> (D. Denh.) Wiehl.	11		Wiehler 1975b
<i>strigosa</i> (Morton) Wiehl.	11		Wiehler 1975b
sp. G-828 from Guatemala	11		Wiehler 1975b
NAUTILOCALYX			
<i>bullatus</i> (Lem.) Sprague		18	Rogers 1954
<i>bullatus</i> (Lem.) Sprague as <i>Episcia tessellata</i> Hort. ex Lem.	9		Eberle 1956; Eberle 1957b
<i>cataractarum</i> Wiehl.	9		Wiehler 1975e
<i>forgetii</i> (Sprague) Sprague	9		Eberle 1956
<i>lynchii</i> (Hook. f.) Sprague		36	Rogers 1954
<i>lynchii</i> (Hook. f.) Sprague as <i>Alloplectus lynchii</i> Hook. f.	17-18		Eberle 1956
<i>melittifolius</i> (L.) Wiehl.	9		Lee 1962a
as <i>Episcia melittifolia</i> (L.) Mart.			
<i>membranaceus</i> (Morton) Wiehl.	9		Wiehler 1976
<i>panamensis</i> (Seem.) Seem.	9		Wiehler 1972
<i>picturatus</i> L. Skog	9		Lee 1966b; Skog 1974
as <i>Nautilocalyx</i> sp. G-938			
<i>villosus</i> (Kunth & Bouché) Sprague	9		Lee 1966a; Wiehler 1976
sp. G-514 from Peru	9		Lee 1962a
NEGRIA			
<i>rhabdothamnoides</i> F. v. Muell.	±45	±90	Ratter & Prentice 1967
NEMATANTHUS			
<i>fissus</i> (Vell.) L. Skog	8		Lee 1962a
as <i>Hypocyrtia selloana</i> Kl. & Hanst.			
<i>fissus</i> (Vell.) L. Skog		16	Ratter 1963; Morley 1967
as <i>Hypocyrtia selloana</i> Kl. & Hanst.			
<i>fritschii</i> Hoehne	8		Lee 1962b; Lee & Grear 1963
as <i>Nematanthus</i> sp. G-612 and <i>Nematanthus fluminensis</i> Hort.			
" <i>glabra</i> Hook."		16	Ratter 1963
as <i>Hypocyrtia glabra</i> Hook.			
<i>gregarius</i> D. Denh.		16	Ratter 1963
as <i>Hypocyrtia radicans</i> Kl. & Hanst.			
<i>hirtellus</i> (Schott) Wiehl.	8		Wiehler 1972
<i>longipes</i> DC.		16	Fussell 1958; Morley 1967; Ratter 1963
<i>nervosus</i> (Fritsch) H. E. Moore	8		Lee 1964
as <i>Hypocyrtia nervosa</i> Fritsch			
<i>perianthomegus</i> (Vell.) H. E. Moore	8		Oliver & Skog 1981
<i>perianthomegus</i> (Vell.) H. E. Moore	8		Lee 1964
as <i>Hypocyrtia perianthomega</i> (Vell.) Tenore			
<i>strigillosus</i> (Mart.) H. E. Moore		16	Ratter 1963
as <i>Hypocyrtia strigillosa</i> Mart.			
<i>wettsteinii</i> (Fritsch) H. E. Moore	8		Oliver & Skog 1981
<i>wettsteinii</i> (Fritsch) H. E. Moore	8		Lee & Grear 1963
as <i>Hypocyrtia wettsteinii</i> Fritsch			
NEOMORTONIA			
<i>nummularia</i> (Hanst.) Wiehl.	9		Wiehler 1972
as <i>Alloplectus nummularia</i> (Hanst.) Wiehl.			
<i>nummularia</i> (Hanst.) Wiehl.		18	Rogers 1954
as <i>Hypocyrtia nummularia</i> Hanst.			
<i>rosea</i> Wiehl.	9		Wiehler 1975a

Taxon	<i>n</i>	<i>2n</i>	Reference
NIPHAEA			
<i>oblonga</i> Lindl.	11		Lee 1964
OPITHANDRA			
<i>primuloides</i> (Miq.) B. L. Burt		34	Fussell 1958; Ratter 1963
ORNITHOBOEA			
<i>wildeana</i> Craib	±16		Ratter & Prentice 1967
PALIAVANA			
<i>prasinata</i> (Ker-Gawl.) Benth.	13		Wiehler 1972
<i>tenuiflora</i> Mansf.	13		Wiehler 1972
sp.	13		Lee 1966a
PARABOEA			
<i>capitata</i> Ridl.	18		Ratter & Prentice 1967
<i>ulpina</i> Ridl.		36	Ratter & Milne 1970
<i>ulpina</i> Ridl.		±36	Ratter & Prentice 1967
PARADRYMONIA			
<i>lurida</i> (Morton & Raymond) Wiehl. as <i>Episcia</i> (?) <i>lineata</i> G-359	9		Lee 1962a
PETROCOSMEA			
<i>herrii</i> Craib		34	Fussell 1958; Ratter 1963
<i>parryorum</i> C. E. C. Fisch.		34	Fussell 1958
<i>parryorum</i> C. E. C. Fisch.	17		Ratter & Prentice 1967
PHEIDONOCARPA			
<i>corymbosa</i> (Sw.) L. Skog as <i>Heppiella corymbosa</i> (Sw.) Urban	14		Lee 1966a
PHINAEA			
<i>multiflora</i> Morton	13		Lee & Grear 1963
<i>repens</i> (J. D. Sm.) Soler.	±26		Lee 1966b
PLATYSTEMMA			
<i>violoides</i> Wall.	20		Mehra & Vasudevan 1972
RAMONDA			
<i>myconi</i> (L.) Rchb.	48		Contandriopoulos 1966
<i>myconi</i> (L.) Rchb.	24		Lepper 1970; Ratter & Prentice 1964
<i>myconi</i> (L.) Rchb. 'Alba'		48	Ratter & Prentice 1964
<i>myconi</i> (L.) Rchb. 'Wisley Rose'		48	Ratter 1963; Ratter & Prentice 1964
<i>nathaliae</i> Pancić & Petrović	48		Contandriopoulos 1966
<i>nathaliae</i> Pancić & Petrović		48	Ratter 1963
<i>nathaliae</i> Pancić & Petrović	±18		Glisic 1924
<i>serbica</i> Pancić		±96	Contandriopoulos 1966
<i>serbica</i> Pancić	±36		Glisic 1924
RHABDOTHAMNUS			
<i>solandri</i> A. Cunn.	37		Hair & Beuzenberg 1960
<i>solandri</i> A. Cunn.		±74	Ratter 1963

Taxon	<i>n</i>	<i>2n</i>	Reference
RHYNCHOGLOSSUM			
<i>gardneri</i> Theobald & Grupe as <i>Rhynchoglossum notonianum</i> (Wall.) B. L. Burt	10		Ratter & Prentice 1967; Ratter 1975
<i>notonianum</i> (Wall.) B. L. Burt		20	Ratter 1975
<i>notonianum</i> (Wall.) B. L. Burt as <i>Klugia notoniana</i> Wall.	10		Eberle 1956; Eberle 1957a
<i>obliquum</i> Bl.	18		Vasudevan 1976
<i>obliquum</i> Bl. as <i>Rhynchoglossum</i> sp. from Thailand	21		Ratter & Prentice 1967; Ratter 1975
<i>papuae</i> Schltr.	27		Ratter & Prentice 1967
RHYNCHOTECHUM			
<i>discolor</i> (Maxim.) B. L. Burt		20	Ratter 1963
RHYTIDOPHYLLUM			
<i>auriculatum</i> Hook.	14		Lee 1964; Davidse 1971
<i>berteroanum</i> Mart.	14		Oliver & Skog 1981
<i>leucomallon</i> Hanst.	14		Lee 1967
<i>tomentosum</i> (L.) Mart.	14		Davidse 1981
<i>tomentosum</i> (L.) Mart. as <i>Gesneria tomentosa</i> L.	14		Eberle 1956
RUFODORSIA			
<i>intermedia</i> Wiehl.	9		Wiehler 1975c
<i>major</i> Wiehl.	9		Wiehler 1975c
<i>minor</i> Wiehl.	9		Wiehler 1975c
<i>minor</i> Wiehl. as <i>Episcia</i> sp. FP60 3121	9		Ratter 1963
SAINTPAULIA			
'Amazon'		60	Ehrlich, in Lee 1962a
'Blue Amazon'		60	Wilson 1951; Wilson 1955
'Blue Boy'	15	30	Wilson 1951; Wilson 1955
'Blue Girl'		30	Wilson 1951; Wilson 1955
'Blue Leatherneck'	15		Wilson 1951; Wilson 1955
'Blush'	15	30	Wilson 1951; Wilson 1955
<i>brevipilosa</i> B. L. Burt		30	Milne 1975
'Calico'	15	30	Ehrlich 1956
<i>confusa</i> B. L. Burt	15		Fussell 1958
<i>confusa</i> B. L. Burt as <i>Saintpaulia kewensis</i> Hort.		28	Holzer 1952
<i>difficilis</i> B. L. Burt	15		Milne 1975
<i>diplotricha</i> B. L. Burt		30	Milne 1975
'Double'		30	Wilson 1951; Wilson 1955
'duPont Lavender Pink'	30	60	Ehrlich 1956
<i>grandifolia</i> B. L. Burt	15		Milne 1975
<i>grotei</i> Engl.		30	Cox & Roberts 1950; Wilson 1951; Wilson 1955; Ratter 1963
<i>intermedia</i> B. L. Burt		30	Ratter 1963
<i>ionantha</i> Wendl.		28	Holzer 1952
<i>ionantha</i> Wendl.	14		Sugiura 1931; Sugiura 1936b
<i>ionantha</i> Wendl.		30	Wilson 1951; Wilson 1955; Ehrlich, in Lee 1962a

Taxon	<i>n</i>	<i>2n</i>	Reference
SAINTPAULIA (continued)			
<i>ionantha</i> Wendl. 'Ionantha'		30	Ehrlich 1958
<i>ionantha</i> Wendl. 'Ionantha Amazon'		60	Ehrlich 1958
<i>magungensis</i> E. Roberts	15		Fussell 1958
<i>magungensis</i> E. Roberts as <i>Saintpaulia amaniensis</i> E. Roberts	15		Fussell 1958
<i>orbicularis</i> B. L. Burt	15		Fussell 1958; Milne 1975
<i>pendula</i> B. L. Burt		30	Ratter 1963
'Pink Amazon'		30	Wilson 1951; Wilson 1955
'Pink Beauty'		30	Wilson 1951; Wilson 1955
'Plum'	15	30	Wilson 1951; Wilson 1955
<i>shumensis</i> B. L. Burt	15		Fussell 1958
'Snow Prince'	15		Fussell 1958
'Snow Prince Supreme'	15		Fussell 1958
'Storm King'	15		Wilson 1951; Wilson 1955
<i>teitensis</i> B. L. Burt		30	Ratter 1963
<i>tongwensis</i> B. L. Burt		30	Wilson 1951; Wilson 1955
<i>velutina</i> B. L. Burt	15		Milne 1975
'White Lady'	15		Wilson 1951; Wilson 1955
sp. from Tanganyika	15		Fussell 1958
SARMIENTA			
<i>repens</i> Ruiz & Pavón		±74	Ratter 1963
SINNINGIA			
<i>aggregata</i> (Ker-Gawl.) Wiehl. as <i>Rechsteineria aggregata</i> (Ker-Gawl.) O. Kuntze	13		Clayberg 1967
<i> barbata</i> (Nees & Mart.) Nichols.		26	Fussell 1958
<i> barbata</i> (Nees & Mart.) Nichols.	13		Ratter 1963
<i> canescens</i> (Mart.) Wiehl. as <i>Rechsteineria leucotricha</i> Hoehne	13		Clayberg 1967
<i> cardinalis</i> (Lehm.) H. E. Moore	13		Clayberg 1967
as <i>Rechsteineria cardinalis</i> (Lehm.) O. Kuntze.			
<i> cardinalis</i> (Lehm.) H. E. Moore	13		Eberle 1956
as <i>Corytholoma cardinale</i> (Lehm.) Fritsch			
<i> cardinalis</i> (Lehm.) H. E. Moore	14		Sugiura 1936a;
as <i>Corytholoma cardinale</i> (Lehm.) Fritsch			Sugiura 1936b
<i> concinna</i> (Hook.) Nichols.	13		Clayberg 1967
<i> discolor</i> (Decne. ex Hanst.) Sprague	13		Clayberg 1967
<i> eumorpha</i> H. E. Moore	13		Clayberg 1967
<i> hirsuta</i> (Lindl.) Nichols.	13		Clayberg 1967
<i> hirsuta</i> (Lindl.) Nichols.		26	Ratter 1963
<i> incarnata</i> (Aubl.) D. Denh.	13		Davidse 1981
<i> incarnata</i> (Aubl.) D. Denh. as <i>Rechsteineria warszewiczii</i> (Bouché & Hanst.) O. Kuntze	13		Fussell 1958; Clayberg 1967; Davidse 1971
<i> macropoda</i> (Sprague) H. E. Moore	13		Eberle 1956
as <i>Corytholoma macropodum</i> Sprague			
<i> macropoda</i> (Sprague) H. E. Moore as <i>Rechsteineria cyclophylla</i> Hjelm.	13		Clayberg 1967
<i> macropoda</i> (Sprague) H. E. Moore as <i>Rechsteineria lineata</i> Hjelm.	13		Clayberg 1967
<i> macrorrhiza</i> (Dum.) Wiehl. as <i>Rechsteineria macrorrhiza</i> (Dum.) O. Kuntze	13		Clayberg 1967
<i> magnifica</i> (Otto & Dietr.) Wiehl. as <i>Rechsteineria magnifica</i> (Otto & Dietr.) O. Kuntze	13		Clayberg 1967

Taxon	<i>n</i>	<i>2n</i>	Reference
SINNINGIA (continued)			
<i>pusilla</i> (Mart.) Baill.	13		Eberle 1956; Clayberg 1967
<i>regina</i> Sprague	13		Lee 1966a; Clayberg 1967
<i>regina</i> Sprague	±13		Eberle 1956
<i>sceptrum</i> (Mart.) Wiehl.	13		Fussell 1958
as <i>Rechsteineria lindleyi</i> (Hook.) Fritsch			
<i>sceptrum</i> (Mart.) Wiehl.	13		DiFulvio 1967
as <i>Corytholoma warmingii</i> (Hiern) Tours.			
<i>schiffneri</i> Fritsch	13		Lee 1966b; Clayberg 1967
<i>sellovii</i> (Mart.) Wiehl. (?)	13		Clayberg 1967
as <i>Rechsteineria sellovii</i> (Mart.) O. Kuntze			
<i>speciosa</i> (Lodd.) Hiern	13		Eberle 1956
<i>speciosa</i> (Lodd.) Hiern cultivar		26	Rogers 1954
<i>speciosa</i> (Lodd.) Hiern 'Firefly'	28		Sugiura 1931; Sugiura 1936b
<i>speciosa</i> (Lodd.) Hiern 'Fire King'	13		Clayberg 1967
<i>speciosa</i> (Lodd.) Hiern 'Monarch'		28	Sugiura 1931; Sugiura 1936b
<i>speciosa</i> (Lodd.) Hiern var.	13		Clayberg 1967
<i>speciosa</i> (Lodd.) Hiern (Fyfiana Group)	13		Eberle 1956; Lee 1962a
as <i>Sinningia</i> "hybrida Hort."			
<i>tubiflora</i> (Hook.) Fritsch		28	Rogers 1954
<i>tubiflora</i> (Hook.) Fritsch		26	Clayberg 1967
<i>verticillata</i> (Vell.) H. E. Moore	13		Clayberg 1967
as <i>Rechsteineria verticillata</i> (Vell.) L. B. Sm.			
sp. (as × <i>Gloxinera</i> "sp.")	13		Fussell 1958
SMITHIANTHA			
'Cathedral'	24		Lee & Grear 1963
<i>cinnabarina</i> (Lindl.) O. Kuntze		24	Rogers 1954
<i>cinnabarina</i> (Lindl.) O. Kuntze	12		Lee 1962a
as <i>Smithiantha fulgida</i> (Ortg.) Voss ex Siebert & Voss			
'Exoniensis'	12		Lee 1962a
'Golden King'	12		Fussell 1958
<i>multiflora</i> (Mart. & Gal.) Fritsch		24	Fussell 1958
<i>multiflora</i> (Mart. & Gal.) Fritsch	12		Wiehler 1975b
'Santa Barbara'	12		Lee & Grear 1963
<i>zebrina</i> (Paxt.) O. Kuntze		24	Rogers 1954; Pai 1964
<i>zebrina</i> (Paxt.) O. Kuntze	12		Sugiura 1931;
as <i>Naegelia zebrina</i> (Paxt.) Regel			Sugiura 1936b; Eberle 1956
SOLENOPHORA			
<i>calycosa</i> J. D. Sm.	10		Davidse 1970
<i>insignis</i> (Mart. & Gal.) Hanst.	10		Lee 1967; Wiehler 1975b
<i>purpusii</i> T. S. Brandeg.	10		Lee 1967
sp. G-911 ("tuxtla")	10		Lee 1966b; Wiehler 1975b
sp. G-893	10		Lee 1966b
STREPTOCARPUS			
<i>baudertii</i> L. L. Britten	16		Ratter & Milne 1970
<i>caeruleus</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>caulescens</i> Vatke	15		Ratter 1963;
			Ratter & Milne 1970
<i>caulescens</i> Vatke var. <i>pallescens</i> Engl.	15		Milne 1975
<i>caulescens</i> Vatke		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>confusus</i> Hilliard	16		Ratter & Prentice 1967

Taxon	<i>n</i>	<i>2n</i>	Reference
STREPTOCARPUS (<i>continued</i>)			
<i>cooksonii</i> B. L. Burtt	16		Ratter & Prentice 1967
<i>cyanandrus</i> B. L. Burtt	16		Ratter & Prentice 1967
<i>cyaneus</i> S. Moore		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>cyaneus</i> S. Moore	16		Ratter & Prentice 1967
<i>cyaneus</i> S. Moore as <i>Streptocarpus polackii</i> B. L. Burtt		32	Lawrence, in Darlington & Janaki Ammal 1945
<i>davyi</i> S. Moore	16		Ratter & Prentice 1967
<i>decipiens</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>denticulatus</i> Turrill	16		Ratter & Prentice 1967
<i>dunnii</i> Mast.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>erubescens</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>eylesii</i> S. Moore	16		Ratter & Prentice 1967
<i>eylesii</i> S. Moore var. <i>brevistylus</i> Hilliard & B. L. Burtt	16		Ratter & Milne 1970
<i>galpinii</i> Hook. f.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>gardenii</i> Hook.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>glandulosissimus</i> Engl.	15		Milne 1975
<i>goetzei</i> Engl.	16		Ratter & Milne 1970
<i>gracilis</i> B. L. Burtt	16		Ratter 1963
<i>gracilis</i> B. L. Burtt		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>grandis</i> N. E. Brown		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>grandis</i> N. E. Brown	16		Sugiura 1941; Ratter & Prentice 1967
<i>haygarthii</i> N. E. Brown	16		Sugiura 1941; Ratter & Prentice 1967
<i>haygarthii</i> N. E. Brown		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>hildebrandtii</i> Vatke	64		Milne 1975
<i>hilsenbergii</i> R. Br.	15		Ratter & Prentice 1967
<i>hirtinervis</i> C. B. Cl.	16		Ratter & Milne 1970
<i>holstii</i> Engl.		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>johannis</i> L. L. Britten	16		Ratter & Milne 1970
<i>kentaniensis</i> L. L. Britten & Story		32	Ratter & Milne 1970
<i>kirkii</i> Hook. f.		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>kirkii</i> Hook. f.	15		Ratter & Prentice 1967; Milne 1975
<i>kungwensis</i> Hilliard & B. L. Burtt	16		Milne 1975
'Merton Giant'		64	Lawrence 1940
<i>micelmoresi</i> B. L. Burtt		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>micranthus</i> C. B. Cl.	16		Ratter & Prentice 1967
<i>molweniensis</i> Hilliard	16		Ratter & Prentice 1967
<i>montanus</i> Oliver	16		Ratter & Milne 1970
<i>muscosus</i> C. B. Cl.	15		Ratter & Milne, in Hilliard & Burtt 1971; Milne 1975
<i>nobilis</i> C. B. Cl.	15		Ratter & Milne 1970
<i>nobilis</i> C. B. Cl.		28	Mangenot & Mangenot 1957; Mangenot & Mangenot 1962

Taxon	<i>n</i>	<i>2n</i>	Reference
STREPTOCARPUS (<i>continued</i>)			
<i>oliganthus</i> B. L. Burt	15		Milne 1975
<i>polyanthus</i> Hook.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>polyanthus</i> Hook. subsp. <i>comptonii</i> (Mansf.) Hilliard		33	Ratter 1975
<i>polyanthus</i> Hook. subsp. <i>comptonii</i> (Mansf.) Hilliard	15,16		Ratter & Prentice 1967
<i>polyanthus</i> Hook. subsp. <i>comptonii</i> (Mansf.) Hilliard as <i>Streptocarpus comptonii</i> Mansf.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>polyanthus</i> Hook. forma	16		Milne 1975
<i>primulifolius</i> Gand.	16		Ratter & Prentice 1967; Ratter 1975
<i>primulifolius</i> Gand. as <i>Streptocarpus insignis</i> B. L. Burt		32	Lawrence, in Darlington & Janaki Ammal 1945
<i>prolixus</i> C. B. Cl.	16		Ratter & Prentice 1967
<i>rexii</i> (Hook.) Lind.		32	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>rexii</i> (Hook.) Lind.	16		Milne 1975
<i>rimicola</i> Story	16		Ratter & Prentice 1967
<i>saundersii</i> Hook.	16		Sugiura 1940b; Ratter & Prentice 1967; Ratter & Milne 1970
<i>saxorum</i> Engl.	15		Lee, in Moore 1955
<i>saxorum</i> Engl.		30	Lawrence, Scott-Moncrieff & Sturgess 1939
<i>schliebenii</i> Mansf.	16		Milne 1975
<i>solenanthus</i> Mansf.	16		Ratter & Milne 1970
<i>stomandrus</i> B. L. Burt	15		Milne 1975
<i>stomandrus</i> B. L. Burt	15		Lee, in Moore 1955
<i>thompsonii</i> R. Br. var. <i>bojeri</i> (R. Br.) C. B. Cl.	15		Milne 1975
<i>thysanotus</i> Hilliard & B. L. Burt	15		Milne 1975
<i>umtaliensis</i> B. L. Burt	16		Ratter & Prentice 1967
<i>variabilis</i> Humbert	48		Milne 1975
"veitchii"	16		Sugiura 1938; Sugiura 1940a
<i>wendlandii</i> Sprenger	16		Sugiura 1936a; Sugiura 1936b; Ratter & Milne 1970
<i>wendlandii</i> Sprenger		32	Lawrence, Scott-Moncrieff & Sturgess 1939
TITANOTRICHUM			
<i>oldhamii</i> (Hemsl.) Soler.		±40	Fussell 1958
<i>oldhamii</i> (Hemsl.) Soler.		40	Ratter 1963

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