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The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

22 May 1969

Dr. R. J. Moore  
Plant Research Institute  
Canada Department of Agriculture  
Ottawa 3, Ontario

Dear Dr. Moore:

Thank you for your letter of May 14. What Dr. Löve meant by the TAXIR system is a computer oriented information retrieval system designed for rapid efficient storage and retrieval of biological data. Dr. Löve should have mentioned that we have put up all the chromosome records which he and his wife incorporated in their book on the Chromosome Numbers of Central and Northwestern European Plant Species, as well as all of the reports given in Ornduff, Index to Plant Chromosome Numbers, 1966-67. This was a test of our system to see if it were useful for information about plant chromosomes. From this test, we are satisfied that we can handle the chromosome reports with facility and rather economically.

TAXIR is a set of computer programs intended to work on large computers and incorporates procedures for manipulating many different types of biological data, one type of which is the information recorded for the index of plant chromosomes.

If you would like more information about TAXIR and its capacities, I strongly recommend that you come and see for yourself. We would be glad to demonstrate the various aspects of the system, and point to some of its advantages.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm



Plant Research Institute

AIR MAIL

Dr. D. Rogers  
Department of Biology  
University of Colorado  
Boulder, Colorado 80302  
U. S. A.

YOUR FILE NO.  
VOTRE RÉF. NO.

OUR FILE NO.  
NOTRE RÉF. NO.

Ottawa 3, Ontario  
May 14, 1969

Dear Dr. Rogers:

As you may, or may not, have heard, we are considering using a computer to produce the next Index of Plant Chromosome Numbers. Dr. Lève mentioned in a letter to me that you are using the "Taxir System" to record museum collections and data.

I am ignorant of what "Taxir System" means. Is it possible to tell me briefly what it is and if there is any publication about it. I realize that it may not be possible to adequately reply by letter - if so, just say so. Does it mean a certain model of computer - a specific format of input? You see where I am.

Sincerely,

*R. J. Moore*

R.J. Moore  
Botanist

RJM/job

FAMILY NUMBERS

Composite Listing ENGLER and WILLDENOWIA

Flowering Plants

Abolbodaceae	29a	Anomochloaceae	19a
Abrophyllaceae	117a	Annonaceae	98
Acalyphaceae	147a	Anthemidaceae	280b
Acanthaceae	266	Antoniaceae	245a
Aceraceae	168	Aphyllanthaceae	38e
Achariaceae	204	Apocynaceae	247
Acoraceae	23a	Aponogetonaceae	13
Adenogrammataceae	83a	Apostasiaceae	50a
Adoxaceae	272	Aptandraceae	72a
Aegicerataceae	263a	Aquifoliaceae	157
Agapanthaceae	38a	Aquilariaceae	214a
Agavaceae	<u>38b</u>	Araceae	23
Agdestidaceae	83b	Araliaceae	227
Agrimoniaceae	126a	Arceuthobiaceae	67a
Aizoaceae	84	Arctotidaceae	280c
Aldrovandaceae	112a	Ardisiaceae	236b
Alismataceae	15	Aristolochiaceae	74
Alliaceae	<u>38dd</u>	Asclepiadaceae	248
Aloeaceae	38d	Asparagaceae	38f
Alsinaceae	87a	Asphodelaceae	38g
Alstroemeriaceae	40a	Aspidistraceae	38h
Altingiaceae	123a	Asteliaceae	38i
Amaranthaceae	79	Asteranthaceae	219a
Amaryllidaceae	<u>40</u>	Asteropeiaceae	186a
Amborellaceae	101a	Atherospermataceae	101b
Ambrosiaceae	280a	Austrobaileyaceae	101c
Amygdalaceae	126b	Averrhoaceae	130a
Anacardiaceae	153	Avicenniaceae	253a
Ancistrocladaceae	209		

Balanitaceae	135a	Buxaceae	149
Balanophoraceae	73	Byttneriaceae	178a
Balanopsidaceae	58		
Balsaminaceae	168	Cambombaceae	88b
Bambusaceae	19a	Cactaceae	210
Barbeuiaceae	83a	Caesalpiniaceae	128a
Barbeyaceae	63a	Calectasiaceae	38j
Barclayaceae	88a	Calendulaceae	280d
Barringtoniaceae	219b	Callitrichaceae	148
Basellaceae	86	Calycanthaceae	96
Batidaceae	81	Calyceraceae	279
Baueraceae	117b	Campanulaceae	276
Begoniaceae	208	Candolleaceae	278
Bennettiaceae	2	Canellaceae	197
Berberidaceae	93	Cannabaceae	64a
Berzeliaceae	122a	Cannaceae	47
Betulaceae	61	Capparidaceae	107
Biebersteiniaceae	129a	Caprifoliaceae	271
Bifariaceae	67b	Cardiopteridaceae	162a
Bignoniaceae	258	Carduaceae	280e
Bixaceae	194	Caricaceae	205
Blyxaceae	17a	Carpinaceae	61a
Boerlagellaceae	239a	Cartonemataceae	33a
Bombacaceae	177	Caryocaraceae	183
Bonnetiaceae	186b	Caryophyllaceae	87
Boraginaceae	252	Cassythaceae	102a
Brexiaceae	117c	Casuarinaceae	51
Bromeliaceae	32	Celastraceae	158
Brunelliaceae	119	Celtidaceae	63b
Bruniaceae	122	Centrolepidaceae	27
Buddlejaceae	245b	Cephalotaceae	116
Burmanniaceae	49	Ceratophyllaceae	89
Burseraceae	139	Chelidoniaceae	104a
Butomaceae	16	Chenopodiaceae	78

Chlaenaceae	172	Cuscutaceae	249a
Chloanthaceae	253b	Cycadaceae	1
Chloranthaceae	54	Cyclanthaceae	22
Chrysobalanaceae	126c	Cymodoceaceae	11a
Cichoriaceae	280f	Cynocrambaceae	82
Circaeasteraceae	91a	Cynomoriaceae	226
Cistaceae	193	Cyperaceae	20
Clethraceae	230	Cyphiaceae	276a
Cneoraceae	136	Cypripediaceae	50b
Cobaeaceae	250a	Cyrtillaceae	154
Cochlospermaceae	195	Cyrtandraceae	262a
Colchicaceae	38k		
Columelliaceae	263	Damasoniaceae	15a
Combretaceae	221	Datisceae	207
Commelinaceae	33	Davidiaceae	229b
Compositae	280	Davidsoniaceae	120a
Connaraceae	127	Degeneriaceae	95a
Convolvulaceae	249	Dialypetalanthaceae	270a
Cordaitaceae	3	Diapensiaceae	235
Cordiaceae	252a	Dichapetalaceae	146
Coriariaceae	151	Dichondraceae	249b
Cornaceae	229	Didymelaceae	59a
Corsiaceae	49a	Dilleniaceae	180
Corylaceae	61b	Dionaeaceae	112b
Corynocarpaceae	156	Dioncophyllaceae	199a
Costaceae	46a	Dioscoreaceae	43
Crassulaceae	115	Dipentodontaceae	158a
Crooniaceae	37a	Dipsacaceae	274
Crossosomataceae	125	Dipterocarpaceae	188
Cruciferae	105	Dirachmaceae	129b
Ctenolophonaceae	132a	Disanthaceae	123b
Cucurbitaceae	275	Dodonaeaceae	165a
Cunoniaceae	120	Donatiaceae	117d

Dracaenaceae	38L	Frankeniaceae	190
Droseraceae	112	Fumariaceae	104b
Duckeodendraceae	256a		
		Gaiadendraceae	67d
Ebenaceae	240	Galacaceae	235a
Ehretiaceae	252b	Geissolomataceae	211
Elaeagnaceae	215	Gentianaceae	246
Elaeocarpaceae	171	Geosiridaceae	49b
Elatinaceae	189	Geraniaceae	129
Elodeaceae	17b	Gesneriaceae	262
Empetraceae	150	Gilliesiaceae	38n
Enhalaceae	17c	Ginhalloaceae	67e
Epacridaceae	234	Ginkgoaceae	4
Eremolepidaceae	67c	Gisekiaceae	84a
Eremosynaceae	117e	Globulariaceae	265
Ericaceae	233	Gnetaceae	7
Eriocaulaceae	<u>30</u>	Gomortegaceae	100
Eriospermaceae	38m	Gonystylaceae	173
Erythropalaceae	72b	Goodeniaceae	277
Erythroxylaceae	134	Goupiaceae	158b
Escalloniaceae	117f	Gramineae	19
Eucryphiaceae	181	Greyiaceae	167a
Eupatoriaceae	280g	Grossulariaceae	117h
Euphorbiaceae	147	Grubbiaceae	70
Eupteleaceae	90a	Gunneraceae	225a
Euryalaceae	88c	Guttiferae	187
		Gyrocarpaceae	103a
Fabaceae	128b		
Fagaceae	<u>62</u>	Haemodoraceae	39
Flacourtiaceae	199	Halesiaceae	241a
Flagellariaceae	25	Halophilaceae	17d
Fouquieriaceae	192	Haloragidaceae	225
Francoaceae	117g	Hamamelidaceae	123

Hectorellaceae	85a	Ixonanthaceae	132c
Heleniaceae	280h		
Helianthaceae	280i	Johnsoniaceae	38q
Heliconiaceae	45a	Juglandaceae	60
Heliotropiaceae	252c	Juncaceae	36
Helleboraceae	91b	Juncaginaceae	14
Henriqueziaceae	270b		
Hernandiaceae	103	Kaniaceae	117k
Herreriaceae	38o	Kirengeshomaceae	117L
Hewardiaceae	38p	Kobresiaceae	20a
Hilleriaceae	83d	Koerberliniaceae	196
Hippocastanaceae	164	Krameriaceae	128c
Hippocrateaceae	159		
Homaliaceae	199b	Labiatae	254
Huaceae	178b	Lacistemaceae	55
Hugoniaceae	132b	Lacistemataceae	199c
Humbertiaceae	249c	Lactoridaceae	97
Humiriaceae	133	Lardizabalaceae	92
Hydnoraceae	776	Lauraceae	102
Hydrangeaceae	117i	Lecythidaceae	219
Hydrocharitaceae	17	Ledaceae	233a
Hydrocotylaceae	228a	Ledocarpaceae	129c
Hydroleaceae	251a	Leeaceae	170a
Hydrophyllaceae	251	Leguminosae	128
Hydrostachydaceae	114	Leitneriaceae	59
Hypericaceae	187a	Lemnaceae	24
Hypoxidaceae	40b	Lennoaceae	232
		Lentibulariaceae	264
Icacinaceae	162	Lepidobotryaceae	132d
Illecebraceae	87b	Lepidocerataceae	67f
Illiciaceae	95b	Leptospermaceae	222a
Iridaceae	44	Lepuropetalaceae	117m
Irvingiaceae	138a	Lilaeaceae	11b
Iteaceae	117j	Liliaceae	38
Ixioliriaceae	40c	Limnanthaceae	152

Linaceae	132	Montiniaceae	117n
Loasaceae	206	Moraceae	64
Lobeliaceae	276b	Morinaceae	274a
Loganiaceae	245	Moringaceae	109
Lophiolaceae	40d	Musaceae	45
Lophiraceae	182a	Myoporaceae	267
Lophopyxidaceae	162b	Myricaceae	57
Loranthaceae	67	Myriophyllaceae	225b
Lowiaceae	45b	Myristicaceae	99
Lythraceae	216	Myrothamnaceae	121
		Myrsinaceae	236
Magnoliaceae	95	Myrtaceae	222
Malaceae	126d	Myzodendraceae	68
Malesherbiaceae	202		
Malpighiaceae	141	Najadaceae	12
Malvaceae	175	Narcissaceae	40e
Marantaceae	48	Nectaropetalaceae	132e
Marcgraviaceae	184	Nelumbonaceae	88d
Martyniaceae	260	Nepenthaceae	111
Mastixiaceae	229b	Neuradaceae	126e
Maundiaceae	11c	Nolanaceae	255
Mayacaceae	28	Nolinaceae	38s
Medusandraceae	199d	Nupharaceae	88e
Melanthiaceae	38r	Nuytsiaceae	67g
Melastomataceae	223	Nyctaginaceae	80
Meliaceae	140	Nymphaeaceae	88
Melianthaceae	167	Nyssaceae	229a
Mendonciaceae	266a		
Menispermaceae	94	Ochnaceae	182
Menyanthaceae	246a	Oenotheraceae	224
Mesembryanthemaceae	84b	Olacaceae	72
Mimosaceae	128d	Oleaceae	243
Mitrastemonaceae	75a	Oliniaceae	213
Molluginaceae	84c	Ophiopogonaceae	38t
Monimiaceae	101	Opiliaceae	71
Monotropaceae	231a	Orchidaceae	50

Orobanchaceae	261	Pinaceae	6
Oxalidaceae	130	Piperaceae	53
Paeoniaceae	91c	Pirolaceae	231
Palmae	21	Pisoniaceae	80a
Pandanaceae	9	Pistaciaceae	153a
Papaveraceae	104	Pittosporaceae	118
Papilionaceae	178g	Plantaginaceae	269
Parianaceae	178g	Platanaceae	124
Parnassiaceae	117o	Platycaryaceae	60a
Passifloraceae	203	Plumbaginaceae	238
Paulowniaceae	257a	Podoaceae	153b
Pedaliaceae	259	Podophyllaceae	93a
Pelliceriacae	186c	Podostemaceae	113
Penaeaceae	212	Polemoniaceae	250
Pentadiplandraceae	174a	Polypodiaceae	84d
Pentaphragmataceae	276c	Polygalaceae	145
Pentaphylacaceae	155	Polygonaceae	<u>77</u>
Penthoraceae	115a	Polygonanthaceae	117x
Peridiscaceae	199e	Pontederiaceae	<u>34</u>
Periplocaceae	248a	Portulacaceae	85
Petermanniaceae	43a	Posidoniaceae	11d
Petiveriaceae	83e	Potaliaceae	245c
Petrosaviaceae	38u	Potamogetonaceae	11
Philadelphaceae	117p	Primulaceae	237
Philesiaceae	38v	Proteaceae	66
Philydraceae	35	Psittacanthaceae	67h
Phormiaceae	<u>88w</u>	Pteridophyllaceae	104c
Phrymataceae	268	Pterocaryaceae	60b
Phyllanthaceae	147a	Pterostemonaceae	117s
Phyllonomaceae	117q	Punicaceae	218
Phytelphantaceae	21a		
Phytocrenaceae	162c	Quiinaceae	185
Phytolaccaceae	83		
Picrodendraceae	138b		

Rafflesiaceae	75	Schisandraceae	95c
Ranunculaceae	91	Scleranthaceae	87c
Rapateaceae	31	Scrophulariaceae	257
Resedaceae	108	Scyphostegiaceae	199g
Restionaceae	26	Scytropetalaceae	179
Retziaceae	245d	Seguieriaceae	83f
Rhamnaceae	169	Selaginaceae	257b
Rhizophoraceae	220	Senecionaceae	280j
Rhododendraceae	233b	Simaroubaceae	138
Rhodoleiaceae	123c	Simmondsiaceae	149a
Rosaceae	126	Siphonodontaceae	158c
Rousseaceae	117t	Smilacaceae	38z
Rubiaceae	270	Solanaceae	256
Ruppiaceae	11e	Sonneratiaceae	217
Ruscaceae	<u>38x</u>	Sparganiaceae	10
Rutaceae	137	Sphaerosepalaceae	195a
		Sphenocleaceae	276d
Sabiaceae	166	Spigeliaceae	245e
Salicaceae	<u>56</u>	Spiraeaceae	126f
Salvadoraceae	244	Stachyuraceae	200
Sambucaceae	271a	Stackhousiaceae	160
Samydaceae	199f	Staphyleaceae	161
Sansevieriaceae	38y	Stegnospermataceae	83g
Santalaceae	<u>69</u>	Stemonaceae	37
Sapindaceae	165	Stemonmeridaceae	43b
Sapotaceae	239	Sterculiaceae	178
Sarcospermataceae	239b	Stilbaceae	253c
Sargentodoxaceae	92a	Strelitziaceae	45c
Sarraceniaceae	110	Streptochaetaceae	19d
Saururaceae	52	Strychnaceae	245f
Sauvagesiaceae	182b	Styracaceae	241
Saxifragaceae	117	Surianaceae	138c

Symphoremataceae	253d	Ullucaceae	86a
Symplocaceae	242	Ulmaceae	63
		Umbelliferae	228
Taccaceae	42	Urticaceae	65
Tamaricaceae	191		
Taxaceae	5	Vacciniaceae	233c
Tecophilaeaceae	40f	Vahliaceae	117v
Terminaliaceae	221a	Valerianaceae	273
Ternstroemiaceae	186d	Vallisneriaceae	17f
Tetracarpaeaceae	117u	Velloziaceae	41
Tetracentraceae	95d	Verbenaceae	253
Tetrameristaceae	186e	Vernoniaceae	280k
Thalassiaceae	17e	Violaceae	198
Theaceae	186	Viscaceae	671
Thismiaceae	49c	Vitaceae	170
Thunbergiaceae	266b	Vivianiaceae	129d
Thymelaeaceae	214	Vochysiaceae	143
Tiliaceae	174		
Tovariaceae	106	Wellstediaceae	252d
Trapellaceae	259a	Winteraceae	95e
Tremandraceae	144	Wolffiaceae	24a
Trichopodaceae	43c		
Trigonaceae	176	Xanthophyllaceae	145a
Trilliaceae	38aa	Xanthorrhoeaceae	38bb
Trimeniaceae	101d	Xyridaceae	29
Triplochitonaceae	176		
Tristichaceae	113a	Yuccaceae	38cc
Triuridaceae	18		
Trochodendraceae	90	Zannichelliaceae	11f
Tropaeolaceae	131	Zingiberaceae	46
Turneraceae	201	Zosteraceae	11g
Typhaceae	8	Zygophyllaceae	135

FAMILY NUMBERS  
Bessey  
Flowering Plants

Acanthaceae	187	Bignoniaceae	179
Aceraceae	262	Bixaceae	116
Achariaceae	122	Bombacaceae	72
Adoxaceae	280	Boraginaceae	175
Aizoaceae	136	Brassicaceae	132
Alismataceae	1	Bromeliaceae	39
Amaranthaceae	144	Brunelliaceae	207
Amaryllidaceae	33	Bruniaceae	210
Ambrosiaceae	288	Burmanniaceae	44
Anacardiaceae	268	Burseraceae	96
Ancistrocladaceae	234	Butomaceae	2
Annonaceae	52	Buxaceae	239
Anthemidaceae	296	Cabombaceae	66
Apiaceae <sup>e</sup>	276	Cactaceae	235
Apocynaceae	170	Calendulaceae	291
Aponogetonaceae	8	Callitrichaceae	105
Aquifoliaceae	240	Calycanthaceae	47
Araceae	24	Calyceraceae	286
Araliaceae	275	Campanulaceae	283
Arctotidaceae	290	Cannaceae	42
Aristolochiaceae	227	Capparidaceae	131
Asteraceae	293	Caprifoliaceae	279
Asclepiadaceae	171	Carduaceae	298
Balanophoraceae	259	Caricaceae	123
Balanopsidaceae	78	Caryocaraceae	112
Balsaminaceae	87	Caryophyllaceae	133
Basellaceae	143	Cassiaceae	198
Batidaceae	149	Casuarinaceae	212
Begoniaceae	232	Celastraceae	238
Berberidaceae	62	Centrolepidaceae	28
Betulaceae	270	Cephalotaceae	205

Ceratophyllaceae	67	Dipsacaceae	282
Cercidiphyllaceae	49	Dipterocarpaceae	111
Chenopodiaceae	145	Droseraceae	204
Chlaenaceae	74		
Chloranthaceae	59	Ebenaceae	151
Cistaceae	107	Elaeagnaceae	252
Clethraceae	155	Elaeocarpaceae	77
Cneoraceae	93	Elatinaceae	134
Cochlospermaceae	117	Empetraceae	266
Columelliaceae	184	Epacridaceae	157
Combretaceae	221	Ericaceae	156
Commelinaceae	15	Eriocaulaceae	19
Connaraceae	196	Erythroxylaceae	91
Convolvulaceae	173	Eucommiaceae	213
Coriariaceae	267	Eucryphiaceae	109
Cornaceae	277	Eupatoriaceae	295
Corynocarpaceae	243	Euphorbiaceae	104
Crassulaceae	203		
Crossosomataceae	195	Fabaceae	199
Cucurbitaceae	231	Fagaceae	271
Cunoniaceae	208	Flagellariaceae	29
Cyanastraceae	13	Flacourtiaceae	115
Cyclanthaceae	23	Fouquieriaceae	154
Cynocrambaceae	148	Frankeniaceae	137
Cynomoriaceae	226		
Cyperaceae	30	Geissolomataceae	247
Cyrillaceae	241	Gentianaceae	169
		Geraniaceae	84
Datiaceae	233	Gesneriaceae	183
Diapensiaceae	158	Globulariaceae	186
Dichapetalaceae	103	Gomortegaceae	54
Dilleniaceae	68	Gonystylaceae	75
Dioscoreaceae	38	Goodeniaceae	284

Grossulariaceae	202	Lauraceae	64
Grubbiaceae	256	Lecythidaceae	218
Guttiferae	108	Leitneriaceae	51
		Lemnaceae	25
Haemodoraceae	34	Lennoaceae	160
Haloragidaceae	224	Lentibulariaceae	185
Hamamelidaceae	211	Liliaceae	10
Heleniaceae	289	Limnanthaceae	88
Helianthaceae	287	Linaceae	89
Hernandiaceae	251	Loasaceae	230
Hippocastanaceae	261	Loganiaceae	168
Hippocrateaceae	244	Loranthaceae	258
Hippuridaceae	225	Lythraceae	215
Humiriaceae	90		
Hydnoraceae	229	Magnoliaceae	46
Hydrangeaceae	201	Malaceae	193
Hydrophyllaceae	174	Malesherbiaceae	119
Hydrostachydaceae	141	Malpighiaceae	98
		Malvaceae	71
Icacinaceae	264	Marantaceae	43
Inulaceae	292	Marcgraviaceae	114
Iridaceae	35	Martyniaceae	181
		Mayacaceae	17
Juglandaceae	269	Melastomataceae	219
Julianiaceae	273	Meliaceae	97
Juncaceae	18	Meliantaceae	265
		Menispermaceae	63
Koeberliniaceae	125	Mimosaceae	197
		Monimiaceae	48
Lacistemaceae	58	Moraceae	80
Lactoridaceae	53	Moringaceae	129
Lactucaceae	300	Musaceae	40
Lamiaceae	191	Mutisiaceae	299
Lardizabalaceae	61	Myoporaceae	188

Myricaceae	272	Piperaceae	57
Myristicaceae	55	Pirolaceae	159
Myrothamnaceae	209	Pittosporaceae	206
Myrsinaceae	164	Plantaginaceae	162
Myrtaceae	220	Platanaceae	214
Myzodendraceae	253	Plumbaginaceae	163
		Poaceae	31
Najadaceae	22	Podostemaceae	140
Nelumbonaceae	65	Polemoniaceae	172
Nepenthaceae	83	Polygalaceae	101
Nolanaceae	176	Polygonaceae	146
Nyctaginaceae	147	Pontederiaceae	12
Nymphaeaceae	128	Portulacaceae	135
		Potamogetonaceae	9
Oenotheraceae	223	Primulaceae	161
Ochnaceae	110	Proteaceae	274
Oleaceae	257	Prunaceae	194
Oleaceae	166	Punicaceae	217
Oliniaceae	249		
Opiliaceae	255	Quinaceae	113
Orchidaceae	45		
Orobanchaceae	182	Rafflesiaceae	228
Oxalidaceae	85	Rapateaceae	21
		Ranunculaceae	60
Palmae	26	Resedaceae	130
Pandanaceae	7	Restionaceae	27
Papaveraceae	126	Rhamnaceae	236
Passifloraceae	121	Rhizophoraceae	222
Pedaliaceae	180	Rosaceae	192
Penaeaceae	248	Rubiaceae	278
Pentaphragmaceae	242	Rutaceae	94
Philydraceae	14		
Phrymataceae	189	Sabiaceae	263
Phytolaccaceae	142	Salicaceae	139

Salvadoraceae	167	Trigoniaceae	99
Santalaceae	254	Trochodendraceae	50
Sapindaceae	260	Tropaeolaceae	86
Sapotaceae	150	Triuridaceae	3
Sarraceniaceae	82	Turneraceae	120
Saururaceae	56	Typhaceae	5
Saxifragaceae	200		
Scheuchzeriaceae	4	Ulmaceae	79
Scrophulariaceae	178	Urticaceae	81
Scytopetalaceae	73		
Senecionaceae	297	Valerianaceae	281
Simaroubaceae	95	Vallisneriaceae	32
Solanaceae	177	Velloziaceae	36
Sonneratiaceae	216	Verbenaceae	190
Sparganiaceae	6	Vernoniaceae	294
Stachyuraceae	124	Violaceae	118
Stackhousiaceae	245	Vitaceae	237
Staphyleaceae	246	Vochysiaceae	100
Stemonaceae	11		
Sterculiaceae	70	Winteraceae	69
Stylidiaceae	285		
Styracaceae	153	Xyridaceae	16
Symplocaceae	152		
		Zingiberaceae	41
Taccaceae	37	Zygophyllaceae	92
Tamaricaceae	138		
Theaceae	106		
Theophrastaceae	165		
Thurniaceae	20		
Thymelaeaceae	250		
Tiliaceae	76		
Tovariaceae	127		
Tremandraceae	102		

## FAMILY NUMBERS--Engler

## Flowering Plants

Acanthaceae	266
Aceraceae	163
Achariaceae	204
Adoxaceae	272
Aizoaceae	84
Alismaceae	15
Amarantaceae	79
Amaryllidaceae	40
Anacardiaceae	153
Ancistrocladaceae	209
Anonaceae	98
Apocynaceae	247
Aponogetonaceae	13
Aquifoliaceae	157
Araceae	23
Araliaceae	227
Aristolachiaceae	74
Asclepiadaceae	248

Cactaceae	210
Callitrichaceae	148
Calycanthaceae	96
Calyceraceae	279
Campanulaceae	276
Candolleaceae	278
Canellaceae	197
Canna ceae	47
Capparidaceae	107
Caprifoliaceae	271
Caricaceae	205
Caryocaraceae	183
Caryophyllaceae	87
Casuarinaceae	51
Celastraceae	158
Centrolepidaceae	27
Cephalotaceae	116
Ceratophyllaceae	89
Chenopodiaceae	78
Chlaenaceae	172
Chloronothaceae	54

Clethraceae	230
Cneoraceae	136
Cornaceae	229
Cochlospermaceae	195
Columelliaceae	263
Combretaceae	221
Commelinaceae	33
Compositae	280
Convolvulaceae	249
Connaraceae	127
Cordaitaceae	3
Coriariaceae	151
Corynocarpaceae	156
Crassulaceae	115
Crossosomataceae	125
Cruciferae	105
Cucurbitaceae	275
Cunoniaceae	120
Cyclanthaceae	22
Cycadaceae	1
Cynocranbaceae	82
Cynomoriaceae	226
Cyperaceae	20
Cypripediaceae	154

Datisceae	207
Diapensiaceae	235
Dichapetalaceae	146
Dilleniaceae	180
Dioscoreaceae	43
Dipsacaceae	274
Dipterocarpaceae	188
Droseraceae	112
Ebenaceae	240
Elacocarpaceae	171
Elaeagnaceae	215
Elatinaceae	189
Empetraceae	150
Epacridaceae	234
Ericaceae	233
Eriocaulonaceae	30
Erythroxylaceae	134
Eucryphiaceae	101
Euphorbiaceae	147

Fagaceae	62
Flacourtiaceae	199
Flagellariaceae	25
Fouquieriaceae	192
Frankeniaceae	190
Geissolomaceae	211
Gentianaceae	246
Geraniaceae	129
Gesneriaceae	262
Ginkgoaceae	4
Globulariaceae	265
Gnetaceae	7
Gomortegaceae	100
Gonystylaceae	173
Goodeniaceae	277
Gramineae	19
Grubbiaceae	70
Guttiferae	187

Haemodoraceae	39
Halorrhagidaceae	225
Hamamelidaceae	123
Hernandiaceae	103
Hippocastanaceae	164
Hippocrateaceae	159
Humiriaceae	133
Hydnoraceae	76
Hydrocharitaceae	17
Hydrophyllaceae	251
Hydrostachyaceae	114
Icacinaceae	162
Iridaceae	44
Juglandaceae	60
Juncaceae	36
Juncaginaceae	14
Koeberliniaceae	196

Labiatae	254
Lacistemaceae	55
Lactoridaceae	97
Lardizabalceae	92
Lauraceae	102
Lecythidaceae	219
Leguminosae	128
Leitneriaceae	59
Lemnaceae	24
Lennoaceae	232
Lentibulariaceae	264
Liliaceae	38
Limnanthaceae	152
Linaceae	132
Loasaceae	206
Loganiaceae	245
Loranthaceae	67
Lythraceae	216

Magnoliaceae	95
Malesherbiaceae	202
Malpighiaceae	141
Malvaceae	175
Marantaceae	48
Maregraviaceae	184
Martyniaceae	260
Mayacaceae	28
Melastomataceae	223
Meliaceae	140
Meliantaceae	167
Menispermaceae	94
Monimiaceae	101
Moraceae	64
Moringaceae	109
Musaceae	45
Myoporaceae	267
Myricaceae	57
Myristicaceae	99
Myrothamnaceae	121
Myrsinaceae	236
Myrtaceae	222
Myzodendraceae	68

Najadaceae	12
Nepenthaceae	111
Nolanaceae	255
Nyctaginaceae	80
Nymphaeaceae	88
Ochnaceae	182
Oenotheraceae (Onagraceae)	224
Olacaceae	72
Oleaceae	243
Oliniaceae	213
Opiliaceae	71
Orchidaceae	50
Orobanchaceae	261
Oxalidaceae	130

Palmae	21
Pandanaceae	9
Papaveraceae	104
Passifloraceae	203
Pedaliaceae	259
Penaeaceae	212
Pentaphragaceae	155
Philydraceae	35
Phrymaceae	268
Phytolaccaceae	83
Pinaceae	6
Piperaceae	53
Pirolaceae	231
Pittosporaceae	118
Plantaginaceae	269
Platanaceae	124
Plumbaginaceae	238
Podostemonaceae	113
Polemoniaceae	250
Polygalaceae	145
Polygonaceae	77
Pontederiaceae	34
Portulacaceae	85
Potamogetonaceae	11
Primulaceae	237
Proteaceae	66
Punicaceae	218

Quinaceae	185
Rafflesiaceae	75
Ranunculaceae	91
Rapateaceae	31
Resedaceae	108
Restionaceae	26
Rhamnaceae	169
Rhizophoraceae	220
Rosaceae	126
Rubiaceae	270
Rutaceae	137
Sabiaceae	166
Salicaceae	56
Salvadoraceae	244
Santalaceae	69
Sapindaceae	165
Sapotaceae	239
Sarraceniaceae	110

S (continued)

Saururaceae	52
Saxifragaceae	117
Scrophulariaceae	257
Scytopetalaceae	179
Simarubaceae	138
Solanaceae	256
Sonneratiaceae	217
Spar ganiaceae	10
Stachyuraceae	200
Stackhousiaceae	160
Staphyleaceae	161
Stemonaceae	37
Sterculiaceae	178
Styracaceae	241
Symplocaceae	242

Taccaceae	42
Tamaricaceae	191
Taxaceae	5
Theaceae (Ternstroemicaceae)	186
Thymelaeaceae	214
Tiliaceae	174
Tovariaceae	106
Tremandraceae	144
Trigoniaceae	142
Triplochitonaceae	176
Triuridaceae	18
Trochodendraceae	90
Tropaeolaceae	131
Turneraceae	201
Typhaceae	8
Ulmaceae	63
Umbelliferae	228
Urticaceae	65

Valerianaceae	273
Velloziaceae	41
Verbenaceae	253
Violaceae	198
Vitaceae	170
Vochysiaceae	143
Xyridaceae	29
Zingiberaceae	46
Zygophyllaceae	135

Balanophoraceae	73
Balanopsidaceae	58
Balsaminaceae	168
Basellaceae	86
Batidaceae	81
Begoniaceae	208
Bennettitaceae	2
Berberidaceae	93
Betulaceae	61
Bignoniaceae	258
Bixaceae	194
Bombacaceae	177
Borraginaceae	252
Bromeliaceae	32
Brunelliaceae	119
Bruniaceae	122
Burmanniaceae	49
Burseraceae	139
Butomaceae	16
Buxaceae	149

Dr Weber also has a copy of the families that have been added since 1935 - but he is not sure that the family numbers are included.

FAMILY NUMBERS  
Bessey  
Flowering Plants

Acanthaceae	187	Bignoniaceae	179
Aceraceae	262	Bixaceae	116
Acnariaceae	122	Bombacaceae	72
Adoxaceae	280	Borraginaceae	175
Aizoaceae	136	Brassicaceae	132
Alismataceae	1	Bromeliaceae	39
Amaranthaceae	144	Brunelliaceae	207
Amaryllidiaceae	33	Bruniaceae	210
Ambrosiaceae	288	Burmanniaceae	44
Anacardiaceae	268	Burseraceae	96
Ancistrocladaceae	234	Butomaceae	2
Anonaceae	52	Buxaceae	239
Anthemidaceae	296	Cabombaceae	66
Apaiaceae	276	Cactaceae	235
Apocynaceae	170	Calendulaceae	291
Aponogetonaceae	8	Callitrichaceae	105
Aquifoliaceae	240	Calycanthaceae	47
Araceae	24	Calyceraceae	286
Araliaceae	275	Campanulaceae	283
Arctotidaceae	290	Cannaceae	42
Aristolochiaceae	227	Capparidaceae	131
Asteraceae	293	Caprifoliaceae	279
Asclepiadaceae	171	Carduaceae	298
Balanophoraceae	259	Caricaceae	123
Balanopsidaceae	78	Caryocaraceae	112
Balsaminaceae	87	Caryophyllaceae	133
Basellaceae	143	Cassiacaceae	198
Batidaceae	149	Casuarinaceae	212
Begoniaceae	232	Celastraceae	238
Berberidaceae	62	Centrolepidiaceae	28
Betulaceae	270	Cephalotaceae	205

Ceratophyllaceae	67	Dipsacaceae	282
Cercidiphyllaceae	49	Dipterocarpaceae	111
Chenopodiaceae	145	Droseraceae	204
Chlaenaceae	74		
Chloranthaceae	59	Ebenaceae	151
Cistaceae	107	Elaeagnaceae	252
Clethraceae	155	Elaeocarpaceae	77
Cneoraceae	93	Elatinaceae	134
Cochlospermaceae	117	Empetraceae	266
Columelliaceae	184	Epacridaceae	157
Combretaceae	221	Ericaceae	156
Commelinaceae	15	Eriocaulanaceae	19
Connaraceae	196	Erythroxylaceae	91
Convolvulaceae	173	Eucommiaceae	213
Coriariaceae	267	Eucryphiaceae	109
Cornaceae	277	Eupatoriaceae	295
Corynocarpaceae	243	Euphorbiaceae	104
Crassulaceae	203		
Crossosomataceae	195	Fabaceae	199
Cucurbitaceae	231	Fagaceae	271
Cunoniaceae	208	Flagellariaceae	29
Cyanastraceae	13	Flacourtiaceae	115
Cyclanthaceae	23	Fourquieriaceae	154
Cynocrambaceae	148	Frakeniaceae	137
Cynomoriaceae	226		
Cyperaceae	30	Geissolomataceae	247
Cyrillaceae	241	Gentianaceae	169
		Geraneaceae	84
Datisceaeae	233	Gesneraceae	183
Diapensiaceae	158	Globulariaceae	186
Dichapetalaceae	103	Gomortegaceae	54
Dilleniaceae	68	Gonystylaceae	75
Dioscoreaceae	38	Goodeniaceae	284

Grossulariaceae	202	Lauraceae	64
Grubbiaceae	256	Lecythidaceae	218
Guttiferaceae	108	Leitneriaceae	51
		Lemnaceae	25
Haemodoraceae	34	Lennoaceae	160
Halorrhagidaceae	224	Lentibulariaceae	185
Hamamelidaceae	211	Liliaceae	10
Heleniaceae	289	Limnanthaceae	88
Helianthaceae	287	Linaceae	89
Hernandiaceae	251	Loasaceae	230
Hippocastanaceae	261	Loganiaceae	168
Hippocrateaceae	244	Loranthaceae	258
Hippuridaceae	225	Lythraceae	215
Humiriaceae	90		
Hydnoraceae	229	Magnoliaceae	46
Hydrangeaceae	201	Malaceae	193
Hydrophyllaceae	174	Malesherbiaceae	119
Hydrostachydaceae	141	Malpighiaceae	98
		Malveceae	71
Icacinaceae	264	Marantaceae	43
Inulaceae	292	Marcgraviaceae	114
Iradaceae	35	Martyniaceae	181
		Mayacaceae	17
Juglandaceae	269	Melastomataceae	219
Julianaceae	273	Meliaceae	97
Juncaceae	18	Meliantaceae	265
		Menispermaceae	63
Koeberliniaceae	125	Mimosaceae	197
		Monimiaceae	48
Lacistemaceae	58	Moraceae	80
Lactoriadaceae	53	Moringaceae	129
Lactucaceae	300	Musaceae	40
Lamiaceae	191	Mutisiaceae	299
Lardizabalaceae	61	Myoporaceae	188

Myricaceae	272	Piperaceae	57
Myristicaceae	55	Pirolaceae	159
Myrothamnaceae	209	Pittosporaceae	206
Myrsinaceae	164	Plantaginaceae	162
Myrtaceae	220	Platanaceae	214
Myzodendraceae	253	Plumbaginaceae	163
		Poaceae	31
Naiadaceae	22	Podostemonaceae	140
Nelumbaceae	65	Polemoniaceae	172
Nepenthaceae	83	Polygalaceae	101
Nolanaceae	176	Polygonaceae	146
Nyctaginaceae	147	Pontederiaceae	12
Nymphaeaceae	128	Portulacaceae	135
		Potamogetonaceae	9
Oenotheraceae	223	Primulaceae	161 <sup>v</sup>
Ochnaceae	110	Proteaceae	274
Olacaceae	257	Prunaceae	194
Oleaceae	166	Punicaceae	217
Oliniaceae	249		
Opiliaceae	255	Quinaceae	113
Orchidaceae	45		
Orobanchaceae	182	Rafflesiaceae	228
Oxalidaceae	85	Rapateaceae	21
		Ranunculaceae	60
Palmaceae	26	Resedaceae	130
Pandanaceae	7	Restionaceae	27
Papaveraceae	126	Rhamnaceae	236
Passifloraceae	121	Rhizophoraceae	222
Pedaliaceae	180	Rosaceae	192
Penaecaceae	248	Rubiaceae	278
Pentaphragaceae	242	Rutaceae	94
Philydraceae	14		
Phrymaceae	189	Sabiaceae	263
Phytolaccaceae	142	Salicaceae	139

Salvadoraceae	167	Trigoniaceae	99
Santalaceae	254	Trochodendraceae	50
Sapindaceae	260	Tropaeolaceae	86
Sapotaceae	150	Triuridaceae	3
Sarraceniaceae	82	Turneraceae	120
Saururaceae	56	Typhaceae	5
Saxifragaceae	200		
Scheuchzeriaceae	4	Ulmaceae	79
Scrophulariaceae	178	Urticaceae	81
Scytopetalaceae	73		
Senecionidaceae	297	Valerianaceae	281
Simarubaceae	95	Vallisneriaceae	32
Solanaceae	177	Velloziaceae	36
Sonneratiaceae	216	Verbenaceae	190
Sparganiaceae	6	Vernoniaceae	294
Stachyuraceae	124	Violaceae	118
Stackhousiaceae	245	Vitaceae	237
Staphyleaceae	246	Vochysiaceae	100
Stemonaceae	11		
Sterculiaceae	70	Winteranaceae	69
Stylidiaceae	285		
Styracaceae	153	Xyridaceae	16
Symplocaceae	152		
		Zingiberaceae	41
Taccaceae	37	Zygophyllaceae	92
Tamaricaceae	139		
Theaceae	106		
Theophrastaceae	165		
Thurniaceae	20		
Thymelaeeae	250		
Tiliaceae	76		
Tovariaceae	127		
Tremandraceae	102		

ad dank der  
ad mehrerer  
werden fort-  
k ist zufolge  
i der hohen  
rechnen,  
auch dieses  
des Werkes

familien an-  
dwa alle zwei  
zwei Kenntnisse

gler.

## Übersicht über die Gliederung

des

### „Pflanzenreich“

oder

### „Regni vegetabilis conspectus“.

Auf dem Umschlag eines jeden Heftes wird rechts oben durch eine Ziffer die Abteilung und eine zweite die Familie bezeichnet. Es bedeutet also IV, 45: 45. Familie der Abteilung IV.

#### I. Abteilung. Myxothallophyta.

#### II. Abteilung. Euthallophyta.

#### III. Abteilung. Embryophyta asiphonogama.

Die Familienverzeichnisse dieser drei Abteilungen werden erst später mitgeteilt werden, da in den nächsten Jahren wohl zunächst erst Familien der Abteilung IV erscheinen werden.

#### IV. Abteilung. Embryophyta siphonogama.

- |                       |                      |                      |
|-----------------------|----------------------|----------------------|
| 1. Cycadaceae,        | 24. Lamiaceae,       | 47. Cannabaceae,     |
| 2. Bennetitiaceae,    | 25. Flagellariaceae, | 48. Marantaceae,     |
| 3. Cordaitaceae,      | 26. Rosellaceae,     | 49. Burmanniaceae,   |
| 4. Ginkgoaceae,       | 27. Gentropidaceae,  | 50. Orchidaceae,     |
| 5. Taxaceae,          | 28. Mayacaceae,      | 51. Casuarinaceae,   |
| 6. Pinaceae,          | 29. Nyctaginaceae,   | 52. Saururaceae,     |
| 7. Gnetaeae,          | 30. Eriocaulaceae,   | 53. Piperaceae,      |
| 8. Typhaceae,         | 31. Rapateaceae,     | 54. Chloranthaceae,  |
| 9. Pandanaceae,       | 32. Bromeliaceae,    | 55. Laeliaceae,      |
| 10. Sparganiaceae,    | 33. Commelinaceae,   | 56. Salicaceae,      |
| 11. Polymogetonaceae, | 34. Pontederiaceae,  | 57. Myricaceae,      |
| 12. Najadaceae,       | 35. Phyllodaceae,    | 58. Balanopsidaceae, |
| 13. Aponogonaceae,    | 36. Juncaceae,       | 59. Leitneriaceae,   |
| 14. Juncaginaceae,    | 37. Stemonaceae,     | 60. Juglandaceae,    |
| 15. Alismaceae,       | 38. Liliaceae,       | 61. Betulaceae,      |
| 16. Butomaceae,       | 39. Haemodorraceae,  | 62. Fagaceae,        |
| 17. Hydrocharitaceae, | 40. Amaryllidaceae,  | 63. Ulmaceae,        |
| 18. Triuridaceae,     | 41. Velloziaceae,    | 64. Moraceae,        |
| 19. Gramineae,        | 42. Tareaceae,       | 65. Urticaceae,      |
| 20. Cyperaceae,       | 43. Dioscoreaceae,   | 66. Proteaceae,      |
| 21. Palmae,           | 44. Iridaceae,       | 67. Loranthaceae,    |
| 22. Cyclanthaceae,    | 45. Musaceae,        | 68. Myzodendraceae,  |
| 23. Araceae,          | 46. Zingiberaceae,   | 69. Santalaceae.     |

70. Grubbiaceae.	115. Crassulaceae.	160. Stackhousiaceae.	205. Limnaceae.	229. Comaceae.	266. Violaceae.
71. Opiliaceae.	116. Cephalotataceae.	161. Staphyleaceae.	206. Rosaceae.	230. Clethraceae.	266. Solanaceae.
72. Olacaceae.	117. Saxifragaceae.	162. Iceniaceae.	207. Datisneraceae.	231. Picrobeae.	267. Scrophulariaceae.
73. Balanophoraceae.	118. Pittosporaceae.	163. Aceraceae.	208. Begoniaceae.	232. Lenisaceae.	268. Bignoniaceae.
74. Aristolochiaceae.	119. Brunelliaceae.	164. Hippocastanaceae.	209. Aucistrocladaceae.	233. Ericaceae.	269. Podaliraceae.
75. Rafflesiaceae.	120. Cunilaeeae.	165. Sapindaceae.	210. Cactaceae.	234. Epacridaceae.	270. Martyniaceae.
76. Hydrocharitaceae.	121. Myrsinaceae.	166. Sabiaceae.	211. Guiselmaceae.	235. Dispersiaceae.	271. Oculandraceae.
77. Polygonaceae.	122. Bruniaceae.	167. Melastomaceae.	212. Penaceae.	236. Myrsinaceae.	272. Gesneriaceae.
78. Chenopodiaceae.	123. Hamamelidaceae.	168. Balsaminaceae.	213. Oliniaceae.	237. Primulaceae.	273. Columelliaceae.
79. Amarantaceae.	124. Platanaceae.	169. Rhamnaceae.	214. Thymelaeaceae.	238. Plumbaginaceae.	274. Gentianaceae.
80. Nyctaginaceae.	125. Crossosomataceae.	170. Vitaceae.	215. Elaeagnaceae.	239. Sapotaceae.	275. Escalloniaceae.
81. Batilidaceae.	126. Rosaceae.	171. Elaeocarpaceae.	216. Lythraceae.	240. Ebenaceae.	276. Anacardiaceae.
82. Cynerambiaceae.	127. Conmaraceae.	172. Chlaenaceae.	217. Sonneratiaceae.	241. Styracaceae.	277. Myoporaceae.
83. Phytolaccaceae.	128. Leguminosae.	173. Gonystylaceae.	218. Punicaceae.	242. Symlocaceae.	278. Phrymaceae.
84. Aizoaceae.	129. Geraniaceae.	174. Tibiaceae.	219. Lecythidaceae.	243. Olacaceae.	279. Plantaginaceae.
85. Portulacaceae.	130. Oxalidaceae.	175. Malvaceae.	220. Rhizophoraceae.	244. Salvadoraceae.	280. Rutaceae.
86. Basellaceae.	131. Tropaeolaceae.	176. Triplochitonaceae.	221. Combretaceae.	245. Loganiaceae.	281. Caprifoliaceae.
87. Caryophyllaceae.	132. Linaceae.	177. Bombacaceae.	222. Myrtaceae.	246. Gentianaceae.	282. Adoxaceae.
88. Nymphaeaceae.	133. Humiriaceae.	178. Sterculiaceae.	223. Melastomataceae.	247. Apocynaceae.	283. Valerianaceae.
89. Geratophyllaceae.	134. Erythroxylaceae.	179. Scytopetalaceae.	224. Oenotheraceae (Oenograceae) [incl. Hydrocaryaceae].	248. Asclepiadaceae.	284. Dipsacaceae.
90. Trochodendraceae.	135. Zygophyllaceae.	180. Dilleniaceae.	225. Halorrhagidaceae.	249. Convolvulaceae.	285. Cucurbitaceae.
91. Ranunculaceae.	136. Onoraceae.	181. Eucryphiaceae.	226. Cynomoriaceae.	250. Polemoniaceae.	286. Campanulaceae.
92. Lardizabalaceae.	137. Rutaceae.	182. Ochnaceae.	227. Araliaceae.	251. Hydrophyllaceae.	287. Goodeniaceae.
93. Berberidaceae.	138. Simarubaceae.	183. Caryocaraceae.	228. Umbelliferae.	252. Boraginaceae.	288. Candolleaceae.
94. Menispermaceae.	139. Burseraeeae.	184. Maregraviaceae.		253. Verbenaceae.	289. Calyceraceae.
95. Magnoliaceae.	140. Meliaceae.	185. Quinaceae.		254. Labiatae.	290. Compositae.
96. Calycanthaceae.	141. Malpighiaceae.	186. Theaceae (Ternstroem).			
97. Lacloridaceae.	142. Trigoniaceae.	187. Guttiferae. (miaceae).			
98. Anonaceae.	143. Vochysiaceae.	188. Diptercarpaceae.			
99. Myrsinaceae.	144. Tecomandraccceae.	189. Elatinaceae.			
100. Gomortegaceae.	145. Polygalaceae.	190. Frankenitaceae.			
101. Monimiaceae.	146. Dichapetalaceae.	191. Tamaricaceae.			
102. Lauraceae.	147. Euphorbiaceae.	192. Fouquieriaceae.			
103. Hernandiaceae.	148. Callitrichaceae.	193. Gistaceae.			
104. Papaveraceae.	149. Buxaceae.	194. Bixaceae.			
105. Cruciferae.	150. Eupetraceae.	195. Cochlospermaceae.			
106. Tovariaceae.	151. Coriariaceae.	196. Koerberliniaceae.			
107. Capparidaceae.	152. Limnantiaceae.	197. Canellaceae.			
108. Resedaceae.	153. Anacardiaceae.	198. Violaceae.			
109. Moringaceae.	154. Cyrtillaceae.	199. Flacourtiaceae.			
110. Sarraceniaceae.	155. Pentaphragaceae.	200. Stachyruaceae.			
111. Nepenthaceae.	156. Corynocarpiceae.	201. Turncraceae.			
112. Droseraceae.	157. Aquifoliaceae.	202. Malesherbiaceae.			
113. Podostemonaceae.	158. Celastraceae.	203. Passifloraceae.			
114. Hydrostachyaceae.	159. Hippocrateneae.	204. Achariaceae.			

29 October 1968

Dr. Howard S. Irwin  
The New York Botanical Garden  
Bronx, New York 10458

Dear Howard:

Would you be kind enough to have made Xerox copies of all the families and numbers which you use to order the Herbarium? This will be helpful to us in organizing some data on chromosome numbers which Aspell Löve compiles.

I am not sure whether your list includes pteridophytes and gymnosperms as well as angiosperms, but if it does would you please include those as well.

I'll be heading for the east coast some time late in November or early December. If there is time, I might drop by to see you folks. Will you be there? I'll let you know more definitely as the time draws nearer.

Sincerely,

David J. Rogers  
Professor of Biology

DJR:gm

Descriptors for Löve

Text

1. Family # of #'s assigned from Pich-sermollii 1958
2. Family of Pich-sermollii 1958
3. Family # of Engler
4. Family of Engler
5. Genus, Author, and Chromosome #
6. Specific epithet or sub specific epithet or var. epithet and Chromosome #
7. Authors and year of publication

$D_7^{1,2,3,4,5,6}$  = Book Desc.  
 $D_7$  = Display

1. Family #'s must be 2 place. i.e. 1=01, 2=02, 10=10, 11=11. Follow # immediately with a comma.
2. Family in full as written. Follow with a comma.
3. and 4. Same as 1. and 2.
5. Genus name-space-author-space-space-chromosome #. Follow with comma.
6. Specific epithet-space-authority-space,space-chromosome #. Thus  
rosei Smith 16,  
Or Specific epithet-space-authority-space-ssp.-space-epithet-space-  
authority-space,space-chromosome #. Thus: rosei Smith ssp. alba  
Green 32,  
If variety (var.) handle in the same manner as ssp.  
If paranthesis are used in publication use brackets.  
If chromosome # missing, use--.
7. Name of author-space-date. If more than one author and publication,  
use dash(-) to separate. Whenever "and" appears use slash (/).  
Thus: Jones 1950-Smith/Green 1951.

follow with asterisk at end\*  
Eliminate \* when found in book

CHROMOSOME NUMBERS

- Item #
1. Family #                    A standard family number system with one place added on right. Thus: 1 = 10; 10 = 100, etc.
  2. Family                    Polypodiaceae
  3. Genus + Chromosome #    Adiantum bb X = 24  
If no number, just leave out
  4. Species name              Specific (epithet, trivial) name accepted in pub. with authorities. Use brackets instead of parentheses where called for.
  5. Subspecific name        As above and place in front of name *ssp* for subspecies and vrr. for variety.
  6. Chrom. # or #s of Specific and sub-specific taxa
  7. Author(s) and year of Publication    Use dashes between authors if more than one.
  8. 2nd Chrom. #
  9. Author(s) and year of publication
  10. 3rd Chrom. #
  11. Author(s) and year of publication
  12. 4th Chrom. #
  13. Author(s) and year of publication
  14. 5th Chrom. #
  15. Author(s) and year of publication
  16. 6th Chrom. #
  17. Author(s) and year of publication
  18. Locality                    Cent/N.W. Europe
  19. Overflow  
Would suggest keeping different banks of Bryophytes, various algal phyla, *Gymnosperms*, *Monocots* and *Dicots*

putals

ITEM # 1

- 2. Family
- 3. Genus and author and chromosome #
- 4. Species name with author; place ssp or var. in front
- 5. Subspecific name *sp. n. nomenclature*
- 6. Chrom. # or #s of Spec. or sub sp taxa
- 7. Author and year of Pub. with letter: 88
- 8. Pub. continued 88 0,
- 9. Pub. continued 88 0,
- 10. Locality Cent./N.W. Europe
- 11. Pub contin - do not use a 0, here before \*

87  
83  
244

Each publication if listed on different line to be assigned a distinct item #  
.. Item # are a way of numbering pub. data of Chromosome counts

( ) : \* may not be used within descriptors. Instead of , where called for use /

and, or, not may not be used within descriptors

? ~~NOT~~ available in character set

use quest. ~~for~~ instead of ?

use [ ] for parenthesis

use \_ to separate descriptors

end each card with , closing descriptor  
but not item with \*

Where publications are continued after a single chromosome count <sup>use</sup> using slashes instead of , to 88 places. Any further data place in comments in last descriptor.

If more than 240 places, "YELL"

? space before [

If you skip any descriptor such as sub-species  
should 0, to indicate one skipped

won't duplicate it ~~is correct~~

6' 9"  
52"

ITEM #

1. Family
2. Genus and author and chromosome #
3. Species name with author; place ssp, or var. in front
4. Subspecific name ←
5. Chrom. # or #s of Spec. or sub sp taxa
6. Author and year of Pub. with letter
7. Pub. continued
8. Pub. continued
9. Locality      Cent./N.W. Europe

Each publication if listed on different line to be assigned a distinct item #

∴ Item # are a way of numbering pub. data of Chromosome counts

( ) , \* may not be used within descriptors. Instead of   , where called  
for use /

and, or, not may not be used within descriptors

? , & NOT available in character set

use quest. for ?

use [ ] for parenthesis

use    to separate descriptors

end each card with    closing descriptor

Where publications are continued after a single chromosome count using  
slashes instead of ", " to 33 places. Any further data place in comments  
in last descriptor.

If more than 240 places, "YELL"