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INDEX SEMINUM ATQUE SPORARUM

BOTANISCHE TUINEN
RIJKS UNIVERSITEIT
UTRECHT • NEDERLAND

No. 24 1977 / 1978

BOTANICAL GARDENS
OF THE STATE UNIVERSITY
OF UTRECHT
THE NETHERLANDS

INDEX SEMINUM ATQUE SPORARUM 1977 / 1978

B O T A N I C A L G A R D E N S
O F T H E S T A T E U N I V E R S I T Y
O F U T R E C H T
THE NETHERLANDS

INDEX SEMINUM ATQUE SPORARUM 1977 / 1978

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The seeds and spores offered in this list have been taken from registered trees, plants and ferns grown in the five departments of the botanical gardens :

1. The new systematic garden and rock garden situated in East Utrecht, the new University Centre "De Uithof". Open to the general public from Mondays to Fridays on working hours only. Acreage : 5 HA (± 12 acres)
2. The Cantonspark , Baarn,maintaining interesting collections of tropical and sub-tropical greenhouse plants, including Aroids , Cycads and Orchids. The village of Baarn is situated approx 20 KM North East of Utrecht. Open to the public from Mondays to Fridays on working hours only. Acreage : 4 HA , (± 10 acres)
3. The Von Gimborn Arboretum , Doorn , situated approx 20 KM East of Utrecht . It contains interesting collections of North American , European and Asiatic hardy trees and shrubs, including specimen trees of rare conifers. Open to the public Mondays to Fridays during working hours only. Acreage : 28 HA , (± 70 acres)
4. The old botanic garden in the centre of Utrecht. The garden presently is in use for research and teaching purposes only. It has been much reduced in size by extensions of the botanical laboratory. The garden is no longer open to the public. Acreage : ¾ HA (± 2 acres)

5. Sandwijck Estate , De Bilt. The old woodland gardens have been acquired by Utrecht State University and cover over 30 HA , the main part of which is still to be developed . Special collections of tropical and sub-tropical greenhouse plants , primarily for systematic research on the neotropical flora. The village of De Bilt is situated approx. 4 KM East of Utrecht. The gardens are not open to the public.

Considering the large plant collections in our gardens it has been assumed they can only be partly evaluated by the publication of a seed list. A survey has been carried out to convert our present card index into a computerized system , taking up all plant material that has been determined in the five departments of our gardens.
From 1977 onwards our seed list will be issued once only every two years. You are therefore kindly requested to keep the present list for your reference in 1978 and 1979.
After a transgression period the computer system will accumulate all relevant data. A computer print-out will be mailed every five years in principle. Within some years our seeds will be stored in a seed bank and become available upon request.
The Staff of our botanical gardens is composed as follows :

Dr.Ir. P.C. de Jong	Director
M.H.Hoog	Curator
B.G.Kroese	Assistant Curator
Drs.E.A.Mennega	Scientific Officer
J. Tolsma	Administrator

All requests for seeds and spores , duly marked on the enclosed numbered list should be addressed to :

The Director ,
University Botanical Gardens,
Transitorium 2,
Heidelberglaan 2,
3508-TC-UTRECHT,
The Netherlands.

All requests for seeds and spores reaching us before April 1st 1978 will be handled in rotation of entry dates. Requests reaching us after that date will be sent out in the beginning of 1979.

The climate of De Bilt , Utrecht (1941-1970)

The Royal Dutch Meteorological Station is situated in De Bilt, a village approx 4 KM East of Utrecht in the centre of The Netherlands. Permission has been obtained for the use of the following information on the climate in De Bilt (1941 - 1970).

Geographical position : 52° 06' N ; 5° 11' E

Altitude : 2 m above sea level

	Mean air temperature	Mean rainfall	Mean sunshine in hours
January	1,4° C.	65 mm.	55
February	2,0	55	66
March	4,8	47	115
April	8,6	51	169
May	12,3	54	203
June	15,3	64	215
July	16,8	80	195
August	16,7	103	180
September	14,5	69	141
October	10,4	69	100
November	5,7	76	51
December	2,8	77	44
Per Year	9,3°C.	810 mm.	1537 hours

Mean daily minimum of the coldest month : - 1,2°C

Mean daily maximum of the warmest month : 21,6°C

Mean date of first frost : October 30th

Mean date of last frost : April 19th

Mean length of frost free period : 195 days

Mean number of days with snow cover : 21 days

Maximum temperature : 36,8°C (June 27th 1947) *

Minimum temperature : -24,8°C (January 27th 1942) *

Minimum rainfall : 388 mm (1921) *

Maximum rainfall : 1160 mm (1965) *

* registered since 1849

PTERIDOPHYTA

OSMUNDACEAE

1. Osmunda regalis L.

POLYPODIACEAE

2. Adiantum hispidulum Swartz
3. Adiantum macrophyllum Swartz
4. Adiantum raddianum Presl
5. Aglaomorpha splendens (J.Smith) Copel.
6. Arachnoides aristata (Foster) Tind.
7. Asplenium flaccidum Forst.f.
8. *Asplenium marinum L. Coll. Spain 1962
9. Asplenium nidus L.
10. Asplenium trichomanes L. emend. Huds.
11. Athyrium filix-femina (L.) Roth
12. Blechnum brasiliense Desv.
13. Blechnum occidentale L.
14. Blechnum spicant (L.) Roth
15. Camptosorus rhizophyllus(L.)Link
16. Ceterach officinarum DC.
17. Cryptogramma crispa (L.) R.Br.
18. Davallia pentaphylla Blume
19. Davallia solida (Forst.) Sw. var. fejeensis (W.J.Hook.)
20. Davallia trichomanoides Blume var. trichomanoides
21. Doodia caudata (Cav.) R.Br.var. caudata
22. Doodia caudata (Cav.) R.Br.var. lomarina F.v. Muell.
23. Doryopteris concolor (Langsd. et Fisch.) Kuhn var. concolor
24. Dryopteris carthusiana (Vill.) H.P.Fuchs
25. Dryopteris filix-mas (L.)Schott
26. Fadyenia fadyenii (Mett.)Christ.
27. Gymnocarpium dryopteris (L.)Newm.
28. Hemionitis arifolia (Burm.) T. Moore
29. Hemionitis palmata L.
30. Humata tyermannii T. Moore
31. Matteuccia struthiopteris (L.) Todaro
32. Phyllitis scolopendrium (L.)Newm.
33. Polypodium aureum L. var. areolatum (H.et B. ex Willd.)Bak.
34. Polypodium interjectum Shivas
35. Polypodium percussum Cav.
36. Polystichum lonchitis (L.)Roth
37. Polystichum setiferum (Forsk.) Woynar
38. Pteris vittata L.
39. Quercifilix zeylanica (Houtt.) Copel.
40. Tectaria gemmifera (Fée) Alston
41. Tectaria heracleifolia (Willd.) Underw.
42. Vittaria lineata Sw.
43. Woodsia ilvensis (L.) R.Br.

PSILOTACEAE

44. Psilotum nudum (L.) Griseb.

SCHIZAEACEAE

45. Anemia phyllitidis (L.) Swartz
46. Anemia rotundifolia Schrad.

CONIFEROSPERMAE

CUPRESSACEAE

47. Chamaecyparis nootkatensis (D.Don) Sudw.
48. Chamaecyparis pisifera (Sieb. et Zucc.) Endl.
49. Chamaecyparis thyoides (L.) B.S.P.
50. Juniperus virginiana L.
51. Thuja orientalis L.
52. Thuja plicata D.Don ex Lamb.
53. Thuja standishii (Gord.) Carr.
54. Thujopsis dolabrata (L.f.) Sieb. et Zucc.

PINACEAE

55. Tsuga heterophylla (Raf.) Sarg.

TAXODIACEAE

56. Cryptomeria japonica (L.f.) D.Don
57. Cunninghamia lanceolata (Lamb.) Hook.
58. Sciadopitys verticillata (Thunb.) Sieb. et Zucc.

ANGIOSPERMAE

MONOCOTYLEDONES

AMARYLLIDACEAE

59. Clivia nobilis Lindl.
60. Corbularia bulbocodium (L.) Haw.
61. Habranthus robustus Herb.
62.* Hippeastrum puniceum (Lam.) Urb. Coll. Brazil 1966
63. Narcissus pseudonarcissus L.

ARACEAE

64. Anthurium bakeri J.D.Hook.
65. Anthurium crystallinum Lind. et André
66. Arisaema flavum (Forsk.)Schott
67. Arisaema triphyllum (L.) Torr.
68. Arum italicum Mill.
69. Arum maculatum L.
70. Nephthytis afzelii Schott
71. Pinellia ternata (Thunb.) Breitenbach

BROMELIACEAE

72. Aechmea fulgens Brongn. var. fulgens
73. Aechmea miniata (Beer) Hort. ex Baker var. discolor (Beer) Beer ex Baker
74. Dyckia brevifolia Baker
75. Lindmania penduliflora (C.H.Wright) Stapf
76. Pitcairnia andreana Linden
77. Pitcairnia angustifolia (Swartz) Redouté
78. Pitcairnia maidifolia (C.Morr.) Decne. ex Planch.
79. Pitcairnia tabulaeformis Linden
80. Quesnelia liboniana (De Jonghe) Mez
81. Tillandsia anceps Lodd.
82. Vriesea splendens (Brongn.)Lem.

CANNACEAE

83. Canna glauca L.
84. Canna indica L.
85.*Canna leucocarpa Bouché
Coll. Colombia 1971

COMMELINACEAE

86.*Campelia zanonia (L.) H.B.K.
Coll. Costa Rica 1968

CYPERACEAE

87. Carex grayi Carey

GRAMINEAE

88. Dactylis glomerata L.
89. Festuca glauca Lam.
90. Lagurus ovatus L.
91. Oryza sativa L.

IRIDACEAE

92. Alophia lahue (Mol.)Espinosa
ssp. amoena (Griseb.)Ravenna
93. Crocus kotschyanus K.Koch
94. Dietes iridioides (L.)Sw.ex Kl.
95. Iris chamaeiris Bert.
96. Iris magnifica Vved.
97. Iris prismatica Pursh
98.*Sisyrinchium macrocephalum
Graham; Coll. Brazil 1973
99. Tigridia pavonia (L.f.)Ker-Gawl.

LILIACEAE

100. Allium aflatunense B. Fedtsch.
101. Allium cernuum Roth
102. Allium cyathophorum Bur. et
Franch. var. farreri (Stearn)
Stearn
103. Allium dichlamydeum Greene
104. Allium karataviense Regel
105. Allium narcissiflorum Vill.
106. Allium neapolitanum Cyr.
107. Allium oleraceum L.
108. Allium oreophilum C.A.Mey.
109.*Allium rosenbachianum Regel
Coll. Afghanistan 1968
110. Allium schubertii Zucc.
111.*Allium sewerzowii Regel
Coll. Uzbekistan 1968
112. Allium stipitatum Regel
113. Allium strictum Schrad.
114. Alstroemeria aurantiaca D.Don
115. Bellevalia magakianii Akhv.et
Mirz.
116.*Bellevalia romana (L.) Rchb.
Coll. Italy 1963
117. Bloomeria crocea (Torr.)Coville
var. aurea (Kellogg) Ingram
118. Bloomeria crocea (Torr.)Coville
var. crocea
119. Brimeura amethystina (L.)Salisb.
120. Brodiaea californica Lindl.
121. Camassia quamash (Pursh)Greene
122. Chionodoxa sardensis Barr.et Sugd.
123. Danae racemosa (L.) Moench
124. Dichelostemma congesta (Sm.)Kunth
125. Dichelostemma ida-maia (Wood)
Greene
126.*Dipcadi serotinum Med.
Coll. Spain 1962
127. Eremurus olgae Regel
128. Fritillaria acmopetala Boiss.
129. Fritillaria meleagris L.
130. Fritillaria nigra Mill.
131. Fritillaria pallidiflora Schrenk
132. Fritillaria pontica Wahlenb.
133.*Fritillaria pyrenaica L.
Coll. Spain 1967
134. Leucocoryne ixioides (Sims)Lindl.
135. Lilium chalcedonicum L.

136. Lilium martagon L.
137.*Lilium medeoloides A.Gray
Coll. Hokkaido, Japan 1967
138. Lilium pyrenaicum Gouan
139. Littonia modesta J.D.Hook.
140. Muscari argaei Hort.cv.'Album'
141. Muscari aucheri Boiss.
142. Muscari azureum Fenzl
143. Muscari botryoides (L.) Mill.
emend.DC. var. botryoides
144. Muscari latifolium J. Kirk
145. Muscari paradoxum
Fisch. et Mey.) Boiss.
146. Muscari pycnanthum K.Koch
147. Muscari tubergenianum Hoog ex
Turrill
148. Allium bulgaricum (Janka)Prodan
syn. Nectaroscordum dioscoridis (Sibth. et Sm.) Stankov
149. Ornithogalum arianum Lipsky ex
B. Fedtsch.
150. Ornithogalum magnum H.Krasch.
et Schischk.
151.* Ornithogalum pyramidale L.
Coll. Spain 1962
152.* Ornithogalum sphaerocephalum A.
Kern. ; Coll. Crete 1967
153.* Paradisea lusitanica (P.Cout.)
Sampaio ; Coll.Portugal 1967
154. Puschkinia scilloides Adams
var. libanotica (Zucc.)Boiss.
155. Scilla amethystina Vis.
156. Scilla bifolia L.
157. Scilla chinensis Benth.
158.* Scilla monophyllos Link
Coll. Portugal 1962
159.*Scilla pratensis Waldst. et
Kit.
Coll. Yugoslavia 1971
160. Scilla ramburei Boiss.
161. Smilacina stellata (L.) Desf.
162. Tricyrtis hirta (Thunb.)
W.J.Hook.
163. Tricyrtis latifolia Maxim.
164. Tricyrtis stolonifera Matsum.
165. Triteleia ixioides (Ait.f.)
Greene
166. Triteleia laxa Benth.

Lilium pyrenaicum
After A.A. Baardse Groot Lelieboek
Edited by West-Friesland , Hoorn .

167. Tulipa linifolia Regel
168. Tulipa sprengeri Baker
169. Tulipa tarda Stapf
170. Tulipa turkestanica (Regel) Regel
171. Veratrum nigrum L.
172. Zygadenus elegans Pursh
173. Zygadenus glaucus Nutt.

MARANTACEAE

174. Ctenanthe kummeriana (E.Morr.) Eichl.
175. Marantochloa leucantha (K.Schum.) Milne-Redh.

PALMAE

176. Chamaedorea elegans Mart.

ZINGIBERACEAE

177. Burbidgea schizocheila Hort.
178. Costus cuspidatus (Nees et Mart.) Maas
179.*Monocostus uniflorus (Poepp. ex O.G. Pet.) Maas
Coll. Peru 1975
180.*Renealmia cincinnata (K.Schum.) Baker
Coll. West Africa 1968
181. Roscoea cautleoides Gagnep.

DICOTYLEDONES

ACANTHACEAE

182. Acanthus balcanicus Heywood et I.B.K. Richardson
183. Acanthus mollis L.

ACERACEAE

185. Acer lobelii Ten.
186. Acer maximowiczianum Miq.
187. Acer micranthum Sieb. et Zucc.
188. Acer trautvetteri Medwed.
189. Acer velutinum Boiss.

AIZOACEAE

190. Bergeranthus vespertinus (Berger) Schwant.
191. Delosperma herbeum (N.E.Br.) N.E.Br.
192. Lampranthus amoenus (S.-D.) N.E.Br.
193. Lampranthus brownii (J.D.Hook.) N.E.Br.
194. Micropterum pinnatifidum (L.f.) Schwantes
195. Tetragonia tetragonioides(Pall.) O. Kuntze

AMARANTHACEAE

196.*Achyranthes aspera L. var. sicula L. f. purpurea Maire
Coll. Tenerife 1974
197. Amaranthus retroflexus L.
198. Gomphrena globosa L.
199.*Pleuropetalum darwinii J.D.Hook.
Coll. Galapagos , Santa Cruz 1974

ANACARDIACEAE

200. Cotinus coggygria Scop.

APOCYNACEAE

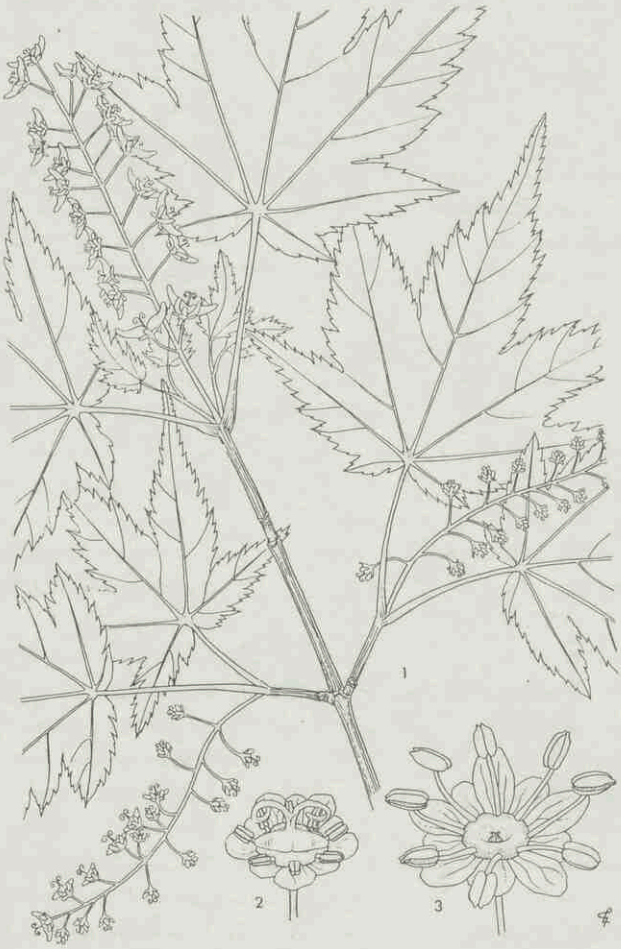
201. Alyxia daphnoides A.Cunn.

AQUIFOLIACEAE

202. Ilex verticillata (L.) A.Gray

ARALIACEAE

203. Aralia elata (Miq.) Seem.



Acer micranthum (nr. 187)

1. female flowering branchlet from monoecious tree. 2. ♀ flower

3. ♂ flower .After P.C. de Jong,Flowering and sex expression in Acer L. A biosystematic study. Meded.Landbouwhogeschool Wageningen 76-2 (1976)

ARISTOLOCHIACEAE

204. Aristolochia elegans Mast.
205. Aristolochia fimbriata Cham.

BASELLACEAE

206. Basella alba L.

BERBERIDACEAE

207. Bongardia chrysogonum (L.) Griseb.
208. Plagiorhegma dubium Maxim.
209. Podophyllum hexandrum Royle var. hexandrum

BETULACEAE

210. Alnus viridis (Chaix) DC. ssp. crispa (Ait.)Turrill
211. Betula pendula Roth
212. Betula pendula Roth f. oycowiensis (Bess.) Schneid.
213. Carpinus betulus L.

BIGNONIACEAE

214. Catalpa bignonioides Walt.
215. Eccremocarpus scaber Ruiz et Pav.
216. Incarvillea delavayi Bur. et Franch.
217. Tecomaria capensis (Thunb.) Spach

BORAGINACEAE

218. Anchusa azurea Mill.
219. Brunnera macrophylla (Adam) Johnston
220. Buglossoides purpureo-caeruleum (L.) I.M. Johnston
221. Cynoglossum amabile Stapf et Drumm.
222. Cynoglossum wallichii G.Don
223. Eritrichum rupestre (Pall.) Bunge
224. Lappula squarrosa (Retz.)Dum.
225. Moltkia petraea (Tratt.)Griseb.
226. Omphalodes linifolia (L.)Moench
227. Pentaglottis sempervirens (L.) Tausch ex L.H.Bailey

BUDDLEJACEAE

228. Buddleja globosa Hope
229. Buddleja japonica Hemsl.

BUXACEAE

230. Sarcococca humilis (Rehd. et Wils.) Stapf ex Sealy

CAESALPINIACEAE

231.* Cassia occidentalis L. Coll. Brazil 1967
232. Cercis siliquastrum L.

CAMPANULACEAE

233. Asyneuma canescens (Waldst.et Kit.) Griseb. et Schenk
234. Campanula carpatica Jacq. var. carpatica
235. Campanula carpatica Jacq. var. turbinata (Sch., Nym. et Ky.) Nichols.
236. Campanula cochleariifolia Lam.
237. Campanula collina Bieb.
238. Campanula kemulariae Fomin
239. Campanula moesiaca Velen.
240. Campanula ochroleuca (Kem.-Nath.) Kem.-Nath.
241. Campanula rotundifolia L.
242. Cyananthus microphyllus Edgew.
243. Legousia speculum-veneris (L.) Fisch.
244. Lobelia inflata L.
245. Pratia angulata (Forst.) J.D.Hook
246. Symphyandra wanneri (Roch.) Heuff.
247. Wahlenbergia pendula Schrad.

CAPPARIDACEAE

248.*Podandrogyne brachycarpa (DC.) Woodson.
Coll. Peru 1975

249.*Podandrogyne chiriquensis (Standl.) Woodson
Coll. Costa Rica 1974

CAPRIFOLIACEAE

250. Diervilla lonicera Mill.
251. Lonicera caerulea L.
252. Lonicera chrysantha Turcz.
253. Lonicera giraldii Rehd.
254. Lonicera maackii (Rupr.)Maxim.
255. Symphoricarpus albus (L.) S.F.Blake var. laevigatus (Fern.) S.F.Blake
256. Triosteum erythrocarpum H. Smith
257. Triosteum perfoliatum (L.) Wieg.var. aurantiacum E.P.Bickn.
258. Viburnum tinus L.

CARICACEAE

259. Carica papaya L.

CARYOPHYLLACEAE

260. Arenaria ciliata L. ssp. moehringioides (J.Murr.)Br.-Bl.
261. Arenaria procera Sprengel ssp. glabra (F.N.Williams) J.Holub
262. Dianthus petraeus Waldst. et Kit. ssp. noeanus (Boiss.)Tutin
263. Dianthus seguieri Vill. ssp. seguieri
264. Gypsophila scorzonerifolia Ser. in DC.
265. Lychnis coronaria (L.) Desrouss.
266. Minuartia baldaccii (Halácsy) Mattf.
267. Minuartia mutabilis Schinz et Thell.
268. Petrocoptis glaucifolia (Lag.) Boiss.
269. Petrocoptis grandiflora Rothm.
270. Saponaria caespitosa DC.
271. Silene coeli-rosa (L.) A.Br.
272. Silene hayekiana Hand.-Mazz.et Janch.
273. Silene italica (L.) Pers.
274. Silene schafta Gmel.ex Hohen.
275. Silene vulgaris (Moench)Garcke ssp. prostrata (Gaud.)Chater et Walters

CELASTRACEAE

276. Celastrus orbiculatus Thunb.
277. Euonymus obovatus Nutt.
278. Euonymus phellomanus Loes.
279. Euonymus sachalinensis (Fr. Schmidt) Maxim.
280. Euonymus verrucosus Scop.

CHENOPODIACEAE

281. Chenopodium ambrosioides L.
282. Chenopodium foliosum Aschers.
283. Hablitzia tamnoides Bieb.

CISTACEAE

284. Helianthemum apenninum (L.)Mill.
285.*Helianthemum ledifolium (L.) Mill.;Coll. Spain 1962
286. Helianthemum nummularium (L.) Mill.
287. Helianthemum pilosum (L.)Pers.
288.*Tuberaria guttata (L.) Fourr. Coll. Spain 1966

CLETHRACEAE

289. Clethra alnifolia L.

CNEORACEAE

290. Cneorum tricoccon L.

COMPOSITAE

291. Achillea ageratifolia (Sibth. et Sm.) Boiss.
292. Achillea erba-rotta All. ssp. erba-rotta
293. Achillea macrophylla L.
294. Achillea odorata L.
295. Anacyclus radiatus Loisel.
296. Anaphalis triplinervis (Sims) C.B.Clarke
297. Antennaria dioica (L.)Gaertn.
298. Antennaria neglecta Greene
299. Arnica amplexicaulis Nutt.
300. Arnica longifolia D.C.Eaton
301. Artemisia atrata Lam.
302. Aster divaricatus L.
303. Aster lateriflorus (L.) Britt. var. horizontalis Burg.
304. Aster sedifolius L.
305. Brachycome iberidifolia Benth.
306. Centaurea montana L.
307. Centaurea triumfettii All.
308. Centaurea uniflora Turra ssp. nervosa (Willd.) Bonnier et Layens
309. Centaurea uniflora Turra ssp. uniflora
310. Cirsium diacanthum (Labill.)DC.
311. Cotula coronopifolia L.
312. Doronicum austriacum Jacq.
313. Doronicum columnae Ten.
314. Doronicum pardalianches L.
315. Gnaphalium sylvaticum L.
316. Haplopappus coronopifolius DC.
317. Helianthus laetiflorus Pers.
318. Leuzea rhapontica (L.)J.Holub ssp. heleniifolia (Gren. et Godr.) J.Holub
319. Ligularia veitchiana (Hemsl.) Greenm.
320. Matricaria recutita L.
321. Microglossa albescens (DC.) C.B.Clarke
322. Mutisia coccinea A.St.Hil. var. coccinea
323. Mutisia speciosa Ait.
324. Raoulia australis J.D.Hook.
325. Sanvitalia procumbens Lam.
326. Senecio kleiniaeformis Suesseng.
327. Silphium integrifolium Michx.
328. Silybum marianum (L.) Gaertn.
329. Stokesia laevis (Hill)Greene
330. Tetraneuris scaposa (DC.)Greene
331.* Tragopogon porrifolius L. Coll. France 1970.

CONVOLVULACEAE

332. Ipomoea purpurea (L.)Roth

CORNACEAE

333. Corokia x virgata Turrill

CRASSULACEAE

334. Aeonium holochrysum Webb et Berth.
335. Echeveria agavoides Lem.
336. Echeveria derenbergii J.A.Purpus
337. Echeveria harmsii J.F.Macbride

338. Echeveria setosa Rose et J.A. Purpus
339. Sedum anglicum Huds.
340. Sedum caucasicum (Grossh.)Bor.
341. Sedum dasyphyllum L.
342. Sedum douglasii W.J.Hook.
343. Sedum dumulosum Franch.
344. Sedum forsterianum Sm.
345. Sedum gypsicola Boiss.et Reut.
346. Sedum middendorfianum Maxim.
347. Sedum spectabile Bor.
348. Sedum stoloniferum S.G.Gmel.

CRUCIFERAE

349. Aethionema coridifolium DC.
350. Aethionema saxatile (L.)R.Br.
351. Alyssum montanum L.ssp.gmelinii (Jordan)Hegi et E. Schmid
352. Arabis purpurea Sibth. et Sm.
353. Aubrieta columnae Guss. ssp. italica (Boiss.) Mattf.
354. Barbarea minor C.Koch var.minor
355. Bunias orientalis L.
356. Cardaminopsis petraea (L.) Hiitonen
357. Draba borealis DC.
358. Draba incana L.
359. Erysimum decumbens (Schleich. ex Willd.) Dennst.
360. Erysimum odoratum Ehrh.
361. Hesperis bicuspidata (Willd.) Poir.
362. Iberis amara L. ssp. amara
363. Iberis taurica DC.
364. Ionopsidium acaule (Desf.)Rchb.
365. Thlaspi alpestre L.

CUCURBITACEAE

366.* Cucurbita pepo L. Coll. Brazil 1976
367. Cyclanthera explodens Naud.
368. Ecballium elaterium (L.)A.Rich.
369. Echinocystis wrightii Cogn.

Thlaspi alpestre (nr.365) after Herz,Landolt and Hirzel Flora der Schweiz

DIPSACACEAE

370. Scabiosa graminifolia L.

EBENACEAE

371. Diospyros lotus L.

EPACRIDACEAE

372. Dracophyllum secundum Labill.

ERICACEAE

373. Bruckenthalia spiculifolia (Salisb.) Rchb.
374. Daboecia cantabrica (Huds.) K.Koch
375. Enkianthus campanulatus (Miq.) Nichols.
376. Erica arborea L. var. alpina Dieck
377. Erica terminalis Salisb.
378. Gaultheria procumbens L.
379. Gaultheria shallon Pursh
380. Kalmia angustifolia L.
381. Kalmia latifolia L.
382. Leucothoe fontanesiana (Steud.) Sleumer
383. Pernettya mucronata (L.f.)Gaud. ex Spreng.
384. Pieris floribunda (Pursh)Benth. et J.D.Hook.
385. Pieris japonica (Thunb.) D.Don ex G. Don
386. Rhododendron canadense (L.)Torr.
387. Tripetaleia bracteata Maxim.
388. Zenobia pulverulenta (Bartr.ex Willd.)Pollard

EUPHORBIACEAE

389. Euphorbia bubalina Boiss.

FAGACEAE

390. Nothofagus antarctica (G.Forst.) Oerst.
391. Nothofagus obliqua (Mirb.)Oerst.
392. Quercus castaneifolia C.A.Mey.
393. Quercus cerris L.

FLACOURTIACEAE

394. Eichlerodendron calophyllum (Griseb. ex Eichl.) Briq.

FRANCOACEAE

395. Francoa sonchifolia (Cav.)Reiche var. appendiculata (Cav.) Reiche

GENTIANACEAE

396. Centaurium minus Moench
397. Centaurium scilloides (L.f.) Sampaio
398. Gentiana andrewsii Griseb.
399. Gentiana cruciata L.
400. Gentiana fetisowii Regel et Winkl.
401. Gentiana septemfida Pall.
402. Swertia perfoliata Royle ex G. Don

Gentiana andrewsii (nr.398) after Flora of Missouri

GERANIACEAE

403. Geranium phaeum L.

GESNERIACEAE

404. Achimenes antirrhina (DC.) C.V.Morton
405. Achimenes candida Lindl.
406. Achimenes ehrenbergii (Hanst.) H.E.Moore
407. Achimenes erecta(Lam.)H.P.Fuchs
408. Achimenes flava C.V.Morton
409. Achimenes grandiflora (Schiede) DC.
410. Achimenes longiflora DC.
411. Achimenes mexicana (Seem.)Benth. et J.D.Hook.
412. Achimenes misera Lindl.
413. Achimenes patens Benth.
414. Aeschynanthus marmoratus T.Moore
415. Alloplectus ambiguus Urban
416. Alloplectus capitatus W.J.Hook.
417. Chirita elphinstonia Craib
418. Chirita hamosa (Wall.)R.Br.
419. Chirita micromusa B.L.Burtt
420. Chrysothemis friedrichsthaliana (Hanst.) H.E.Moore
421. Chrysothemis pulchella (Don ex Sims) Decne .
422. Codonanthe ventricosa (Vell.) Hoehne
423. Columnea crassifolia Brongn.
424. Columnea gloriosa Sprague
425. Columnea hirta Klotzsch et Hanst.
426. Columnea linearis Oerst.
427. Columnea sanguinea (Pers.)Hanst.
428. Columnea schiedeana Schlechtd.
429. Diastema quinquevulnerum Planch. et Linden
430. Episcia mellittifolia (L.)Mart.
431. Gesneria cuneifolia (A.P.DC.) Fritsch
432. Gesneria ventricosa Swartz
433. Haberlea rhodopensis Friv.
434. Koellikeria erinoides (DC.) Mansf.
435. Kohleria amabilis (Planch.et Linden) Fritsch
436. Kohleria deppeana (Schlechtd. et Cham.) Fritsch
437. Kohleria digitaliflora (Linden et André)Fritsch
438. Kohleria eriantha (Benth.)Hanst.
439.*Kohleria tubiflora (Cav.)Hanst. Coll. Panama 1972
440. Monophyllaea horsfieldii R.Br.
441. Ramonda myconi (L.)Rchb.
442. Ramonda serbica Panč.
443. Rechsteineria aggregata (Ker-Gawl.) O.Kuntze
444. Streptocarpus cooperi C.B.Clarke
446. Streptocarpus haygarthii C.B. Clarke
447. Streptocarpus polyanthus Hook.f. ssp. comptonii (Mansf.)Hilliard
448. Streptocarpus rexii (Hook.)Lindl.
449. Streptocarpus saxorum Engl.
450. Streptocarpus wendlandii Spreng.
451. Streptocarpus wilmsii Engl.

GLOBULARIACEAE

452. Globularia punctata Lapeyr.

GROSSULARIACEAE

453. Ribes multiflorum Kit. ex Roem. et Schult.

HALORAGACEAE

454. Haloragis erecta (Banks ex Murr.) Oken

HYDRANGEACEAE

455. Hydrangea heteromalla D.Don

456. Hydrangea petiolaris Sieb. et Zucc.

HYDROPHYLLACEAE

457. Nemophila maculata Benth. ex Lindl.

458. Phacelia tanacetifolia Benth.

HYPERICACEAE

459. Hypericum cerastioides (Spach) N.K.B. Robson

460. Hypericum coris L.

461. Hypericum forrestii(Chittenden) N.K.B. Robson

JUGLANDACEAE

462. Carya cordiformis (Wangenh.) K.Koch

463. Carya ovata (Mill.)K.Koch

JUNCACEAE

464. Juncus gerardii Loisel.

LABIATAE

465. Collinsonia canadensis L.

466. Dracocephalum nutans L. var. alpinum Kar. et Kir.

467. Dracocephalum nutans L. var. nutans

468. Dracocephalum rupestre Hance

469. Hyssopus officinalis L.

470. Lavandula angustifolia Mill.

471. Mentha requienii Benth.

472. Nepeta nepetella L.

473. Phlomis fruticosa L.

474. Rosmarinus officinalis L.

475. Salvia coccinea Juss. ex Murr.

476. Salvia patens Cav.

477. Salvia viridis L.

478. Satureja calamintha (L.)Scheele

479. Satureja hortensis L.

480. Scutellaria orientalis L.

481. Teucrium pyrenaicum L.

482. Teucrium scorodonia L.

483. Thymus pulegioides L.

484. Thymus serpyllum L. ssp. serpyllum

LARDIZABALACEAE

485. Decaisnea fargesii Franch.

LIMNANTHACEAE

486. Limnanthes douglasii R.Br.

LINACEAE

487. Linum bienne Miller

488. Linum flavum L.

489. Linum viscosum L.

LOASACEAE

490. Blumenbachia hieronymii Urb.

491. Cajaphora lateritia (W.J.Hook.) Klotzsch

492.*Loasa triphylla Juss. var. papaverifolia (H.B.K.) Urb. et Gilg Coll. Colombia 1974

493. Loasa triphylla Juss. var. vulcanica (André)Urb.et Gilg

LORANTHACEAE

494. Viscum album L. ssp. album

LYTHRACEAE

495. Ammannia coccinea Rottb.

496. Cuphea ignea A.DC.

497. Cuphea lanceolata Ait.

498. Lythrum hyssopifolia L.

499. Lythrum salicaria L.

MAGNOLIACEAE

500. Liriodendron tulipifera L.
501. Magnolia hypoleuca Sieb.et Zucc.
502. Magnolia tripetala (L.) L.
503. Magnolia virginiana L.

MALPIGHIACEAE

504. Gaudichaudia cynanchoides Kunth
505.* Peixotoa hirta Mart. ex A.Juss.
Coll. Brazil 1966

MALVACEAE

506.* Abutilon theophrasti Med.
Coll. Canarias 1968
507. Anoda cristata (L.)Schlechtd.
508. Gossypium barbadense L.
509. Hibiscus lavateroides Moric.
510. Hibiscus manihot L.
511.* Hibiscus sororius L.f.
Coll. Brazil 1966
512.* Sida rhombifolia L.
Coll. Brazil 1966

MELASTOMATACEAE

513. Bertolonia maculata (Mart.)DC.
514. Bertolonia marmorata Naud.
515. Clidemia hirta (L.)D.Don
516.* Leandra xanthocoma (Naud.)
Cogn.; Coll. Brazil 1966
517.* Monolena primulaeflora J.D.Hook.
Coll. Ecuador 1974

MELIACEAE

518. Melia sempervirens Sw.

MIMOSACEAE

519. Acacia armata R.Br.
520. Acacia retinodes Schlechtd.

MYRICACEAE

521. Myrica gale L.
522. Myrica pensylvanica Lois.

MYRSINACEAE

523. Ardisia crenata Sims
524. Ardisia solanacea Roxb.

MYRTACEAE

525. Callistemon citrinus (Curt.)
Stapf

OLEACEAE

527. Ligustrum tschonoskii Decne.
528. Syringa amurensis Rupr. var.
amurensis
529. Syringa villosa Vahl

ONAGRACEAE

530. Epilobium anagallidifolium Lam.
531. Epilobium dodonaei Vill.

Lythrum hyssopifolia (nr.498)
after Herz,Landolt and Hirzel
Flora der Schweiz

532. Fuchsia michoacanensis Sessé et Moc.
533. Fuchsia procumbens R.Cunn. ex A. Cunn.
534. Gaura lindheimeri Engelm.et Gray
535. Godetia purpurea (Curt.)G.Don
536. Oenothera acaulis Cav.
537. Oenothera missouriensis Sims

OROBANCHACEAE

538. Aeginetia indica Roxb.

PAEONIACEAE

540. Paeonia potaninii Kom.

PAPAVERACEAE

541. Corydalis sempervirens (L.)Pers.
542. Fumaria officinalis L.
543. Glaucium oxylobum Boiss.et Buhse
544. Meconopsis betonicifolia Franch.
545. Meconopsis paniculata (D.Don) Prain

PAPILIONACEAE

546. Anthyllis vulneraria L. var. polyphylla (Kit.)Ser.
547. Caragana arborescens Lam.
548. Carmichaelia flagelliformis Col. ex J.D. Hook.
549. Coronilla emerus L. ssp.emerus
550. Galega officinalis L.
551. Genista tinctoria L.
552. Hedysarum alpinum L.
553. Laburnum alpinum (Mill.)Bercht. et Presl
554. Lathyrus cirrhosus Ser.in DC.
555. Lathyrus odoratus L.
556. Lathyrus sativus L.var.sativus
557. Lathyrus vernus (L.) Bernh. ssp. vernus
558. Psoralea bituminosa L.
559. Tetragonolobus maritimus (L.) Roth
560. Trigonella caerulea(L.) Ser.

PASSIFLORACEAE

561. Passiflora caerulea L.
562. Passiflora gracilis Jacq. ex Link

PHRYMACEAE

563. Phryma leptostachya L.

PHYTOLACCACEAE

564. Phytolacca clavigera W.W.Smith
565.* Phytolacca icosandra L. Coll. Colombia 1971

PITTOSPORACEAE

566. Pittosporum undulatum Vent.

PLANTAGINACEAE

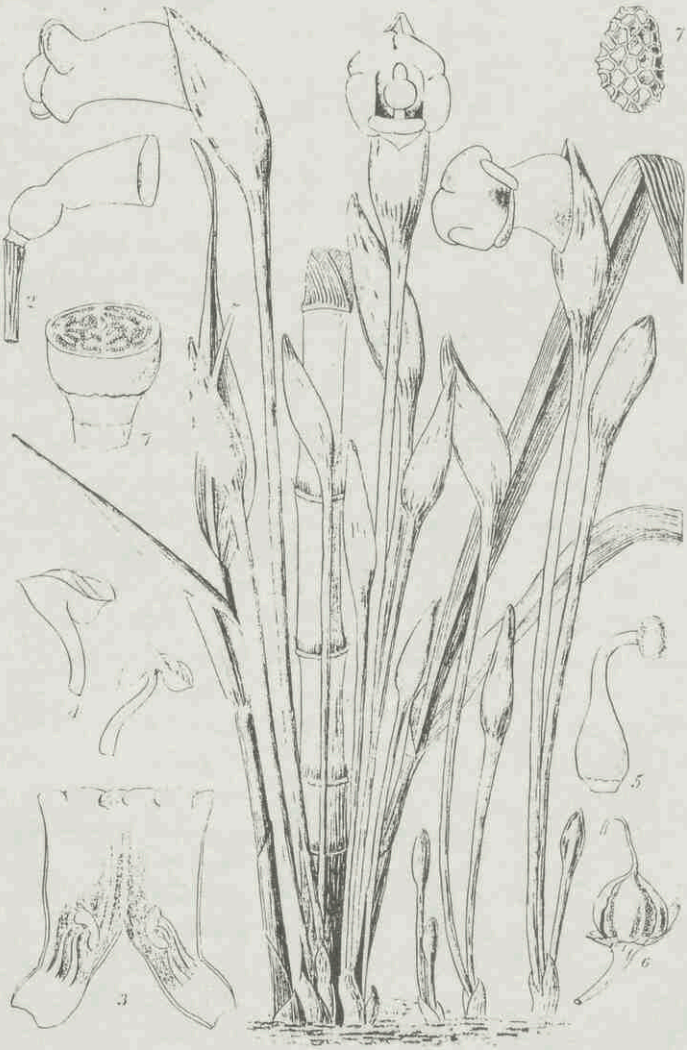
567. Plantago afra L.
568. Plantago serpentina All.

PLUMBAGINACEAE

569. Limonium globulariifolium(Desf.) O. Kuntze
570. Limonium latifolium (Sm.) O. Kuntze
571. Limonium minutum (L.) Fourr.
572. Limonium transwallianum(Pugsley) Pugsley
573. Psylliostachys suvorovii (Regel) Roshkora

POLEMONIACEAE

574. Navarretia squarrosa (Eschsch.) W.J.Hook. et Arn.
575. Polemonium pauciflorum S.Wats.
576. Polemonium reptans L.



Aeginetia indica (nr.538) after Curtis's Botanical Magazine t.9041

POLYGONACEAE

577. Eriogonum umbellatum Torr.
578. Fagopyrum tataricum (L.)Gaertn.
579. Polygonum divaricatum L.
580. Polygonum orientale L.
581. Reynoutria japonica Houtt.var. compacta (J.D.Hook.) Buchheim
582. Tovara virginiana (L.) Raf.

PORTULACACEAE

583. Calandrinia compressa Schrad.
584. Calandrinia umbellata (Ruiz et Pav.) DC.
585. Montia sibirica (L.) Howell
586. Talinum triangulare (Jacq.) Willd.

PRIMULACEAE

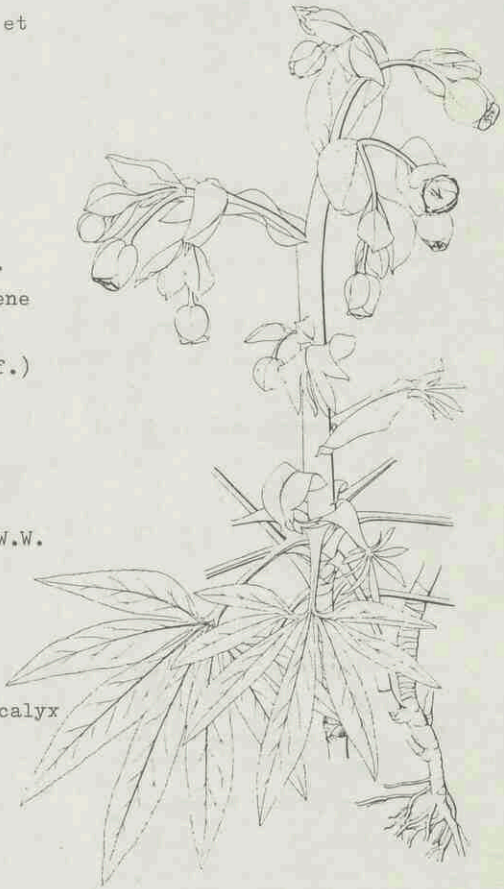
587. Androsace albana Stev.
588. Androsace septentrionalis L.
589. Dodecatheon clevelandii Greene ssp. insulare Thomps.
590. Dodecatheon pulchellum (Raf.) Merr. ssp. pulchellum
591. Lysimachia ephemerum L.
592. Primula bulleyana Forr.
593. Primula capitata W.J. Hook. ssp. mooreana (Balf.f. et W.W. Sm.) W.W.Sm. et Forr.
594.* Primula elatior (L.) Hill Coll. France 1970
595. Primula florindae Ward
596. Primula veris L. ssp. macrocalyx (Bunge) Luedi

PYROLACEAE

597. Pyrola minor L.

RANUNCULACEAE

598. Aconitum napellus L.
599. Actaea rubra (Ait.) Willd.
600. Adonis annua L. emend. Huds.
601. Cimicifuga simplex (Wormsk.ex DC.) Ledeb.
602. Clematis fusca Turcz. var. violacea Maxim.
603. Clematis heracleifolia DC.var. heracleifolia
604. Clematis vitalba L.



Helleborus foetidus (nr. 608), after Herz, Landolt and Hirzel Flora der Schweiz

605. Delphinium elatum L.
606. Eranthis cilicica Sch. et Ky.
607. Eranthis hyemális (L.) Salisb.
608. Helleborus foetidus L.
609. Myosurus minimus L.
610. Ranunculus aconitifolius L.
611. Ranunculus lanuginosus L.
612. Thalictrum flavum L. ssp. glaucum (Desf.) Batt. in Batt. et Trabut

ROSACEAE

613. Acaena glaucophylla Bitt.
614. Acaena viridior (Cockayne)Allan
615. Alchemilla vulgaris L.
616. Aronia arbutifolia (L.)Pers.
617. Aronia melanocarpa (Michx.) Elliott
618. Cotoneaster moupinensis Franch.
619. Crataegus succulenta Schrad.ex Link
620. Exochorda racemosa (Lindl.)Rehd.
621. Filipendula rubra (Hill) Rob.
622. Geum montanum L.
623. Margyricarpus pinnatus (Lam.) O. Kuntze
624. Potentilla atrosanguinea Lodd. ex D.Don
625. Pyracantha rogersiana (Jacks.) Bean
626. Rhaphiolepis umbellata (Thunb.) Makino
627. Rosa glauca Pourret
628. Sorbaria sorbifolia (L.) A.Br. var. stellipila Maxim.
629. Sorbus aucuparia L.
630. Spiraea japonica L.f. var. fortunei (Planch.) Rehd.
631. Spiraea media F.W.Schmidt
632. Spiraea trilobata L.
633. Stephanandra tanakae (Franch. et Sav.) Franch. et Sav.
634. Stranvaesia davidiana Decne. var. salicifolia (Hutchins.) Rehd.

RUBIACEAE

635. Asperula orientalis Boiss. et Hohen.
636.* Carinta repens (L.) L.B.Smith et Downs.; Coll. Brazil 1966
637.* Coccocypselum brevipetiolatum Steyerm.; Coll. Colombia 1974
638. Coccocypselum hirsutum Bartling ex DC.
639. Hamelia versicolor A.Gray
640.* Mapouria alba (Ruiz et Pav.) Muell.-Arg.; Coll.Brazil 1966
641. Ophiorrhiza mungos L.
642. Vaillantia hispida (L.) DC.

RUTACEAE

643. Phellodendron lavallei Dode

SAPINDACEAE

644. Serjania mexicana Willd.

SAXIFRAGACEAE

645. Astilbe japonica (Morr. et Decne.) A. Gray
646. Boykinia major A. Gray
647. Darmera peltata (Torr. in Benth.) Voss
syn. Peltiphyllum peltatum (Torr. in Benth.) Engl.

648. Heuchera flabellifolia Rydb.
649. Saxifraga canaliculata Boiss.et Reut. ex Engl.
650. Saxifraga geranioides L.
651. Saxifraga granulata L.
652. Saxifraga hostii Tausch. ssp. hostii
653. Saxifraga rosacea Moench ssp. rosacea
654. Saxifraga sibthorpii Boiss.

SCROPHULARIACEAE

655. Anarrhinum bellidifolium (L.) Desf.
656. Antirrhinum orontium L.
657. Asarina barclaiana (Lindl.) Pennell
658.*Asarina erubescens (D.Don) Pennell ; Coll.Venezuela 1974
659. Calceolaria fiebrigiana Kraenzl.
660. Calceolaria filicaulis Clos
661. Calceolaria scabiosifolia Roem. et Schult.
662. Chaenorrhinum origanifolium (L.) Fourr. ssp. origanifolium
663. Chelone lyonii Pursh
664. Collinsia heterophylla Buist ex Grah.
665. Digitalis ferruginea L.
666. Digitalis grandiflora Mill.
667.*Digitalis thapsi L. Coll. Spain 1966
668. Hebe pinguifolia (J.D.Hook.) Cockayne et Allan
669. Hebe traversii (J.D.Hook.) Cockayne et Allan
670.*Lendneria humilis (Soland.) Minod ; Coll. Brazil 1972
671. Linaria striata DC.
672. Mimulus cardinalis Dougl. ex Benth.
673. Mimulus guttatus DC.
674. Mimulus lewisii Pursh
675. Parahebe lyallii (J.D.Hook.) W.R.B. Oliver
676. Penstemon attenuatus Dougl. ex Lindl.
677. Penstemon serrulatus Menzies ex Smith
678. Phygelius capensis E.Mey.
679. Synthyris stellata Pennell
680. Torenia baillonii Godefr.
681. Torenia fournieri Linden
682. Torenia violacea (Azaola) Pennell
683. Verbascum blattaria L.
684. Verbascum phoeniceum L.
685. Veronica spicata L. ssp.incana (L.) Walters
686. Zaluzianskya capensis (Benth.) Walp.

SELAGINACEAE

687. Hebenstreitia dentata L.

SOLANACEAE

688. Cacabus miersii (J.D.Hook.) Wettst.
689. Datura stramonium L.var. stramonium
690. Hyoscyamus niger L.var. niger
691. Jaltomata procumbens (Cav.) J.L. Gentry
692. Nicotiana tabacum L.
693.*Physalis angulata L. Coll. Suriname 1967
694. Physochlaina orientalis Bieb.

695. Scopolia lurida (Link) Dun.

696.* Solanum sodomeum L.
Coll. Morocco 1953

697. Withania frutescens (L.) Pauq.

STAPHYLEACEAE

698. Staphylea pinnata L.

STERCULIACEAE

699. Abroma augusta (L.) L.f.

STYRACACEAE

700. Halesia carolina L. var.mollis (Lange) Perk.

701. Halesia monticola (Rehd.)Sarg.

THEOPHRASTACEAE

702.* Jacquinia aurantiaca Ait.
Coll. Suriname 1951

THYMELAEACEAE

703. Daphne alpina L.

TILIACEAE

704. Corchorus olitorius L.

TROPAEOLACEAE

705. Tropaeolum majus L.

706. Tropaeolum minus L.

707. Tropaeolum peregrinum L.

UMBELLIFERAE

708. Dystaenia ibukiensis(Yabe)Kitag.

709. Eryngium giganteum Bieb.

710. Eryngium nudicaule Lam.

711. Myrrhis odorata (L.) Scop.

712. Scaligeria tripartita (Kalen.) Tamamsch.

713. Trachymene pilosa Sm.

URTICACEAE

714. Urtica pilulifera L.

VALERIANACEAE

715. Centranthus calcitrapa (L.)DC.

716. Centranthus macrosiphon Boiss.

717. Fedia cornucopiae (L.)Gaertn.

718. Patrinia gibbosa Maxim.

719.* Valeriana kurtziana Borsini
Coll. Brazil 1974

720. Valeriana officinalis L.

VERBENACEAE

721. Clerodendrum trichotomum Thunb.

722.* Stachytarpheta jamaicensis (L.) Vahl
Coll. Philippines 1973

723. Verbena hastata L.

724. Verbena rigida Spreng.

VIOLACEAE

725. Hymenanthera crassifolia J.D.Hook.

726. Viola labradorica Schrank

727. Viola lutea Huds. ssp. lutea

VITACEAE

728. Ampelopsis megalophylla Diels et Gilg

729. Vitis riparia Michx.

NOTE : Seeds marked with an asterisk * have been taken from plants originally collected in native habitats, details of which will be given on request.