



Index seminum atque sporarum anno ... collectorum

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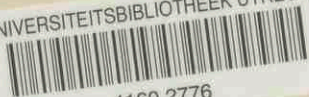
INDEX SEMINUM
ATQUE SPORARUM



No. 26 1981/1982

BOTANISCHE TUINEN
RIJKS UNIVERSITEIT
UTRECHT • NEDERLAND

UNIVERSITEITSBIBLIOTHEEK UTRECHT



4160 2776

BOTANICAL GARDENS
OF THE STATE UNIVERSITY
OF UTRECHT
THE NETHERLANDS

INDEX SEMINUM ATQUE SPORARUM 1981 / 1982

With the presentation of this seed list we take the opportunity to inform you of some matters that might be of interest to be known.

Within some years the complete Faculty of Biology will be concentrated in the new University Centre "De Uithof", where now only our systematic garden and rock garden are situated. In an advanced stage we are planning to enlarge the present garden in "De Uithof" and to house there the collections and all other activities of the Cantonspark, Sandwyck Estate and the old botanic garden now in the centre of Utrecht. The computerisation of collection-data is now nearly finished and all information will be available within the next future. All Dutch university botanic gardens cooperate in this computerisation and use the same program for this project.

Another project of cooperation in which the Dutch university botanic gardens are engaged at the moment concerns a further specialization of the collections by which certain main points and special fields of interest are formed.

The taxonomists specialise themselves in the taxa involved and will render assistance with identifications of these taxa in other gardens. They also offer each other duplicates of their special topics if desired. The Utrecht Botanic Gardens will further develop and maintain interest in the following groups and taxa: Alpines, Ferns (Polypodiaceae), Gesneriaceae, Moraceae (Cecropia, Ficus, Dorstenia), Orchidaceae (neotropical), Zingiberaceae (neotropical), Annonaceae (neotropical), Coniferae, Aceraceae, Betulaceae, Ericaceae, Berberis, Euonymus and Magnolia.

At this moment most attention is given to Acer, Betula, Laburnum, Cecropia, Dorstenia, Ficus and neotropical Annonaceae.

We are especially interested in material from natural sources of the mentioned groups and taxa and we will be much obliged if (besides the material from your seed-catalogue) you can supply us with other species or call our attention to special stocks in your collections.

Considering the large collections of plants in our gardens it is assumed they can only be partly evaluated by the publication of a seed list. At present we are converting our card index into a computerized system, taking up all the plant material in the five departments of our gardens.

From 1977 onwards our seed list is issued only once every two years. You are therefore kindly requested to keep the present list for your reference in 1982 and 1983.

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 we hope to store our seeds in a seed bank from where they become available upon request.

The Staff of our botanical gardens is composed as follows:

Dr. P.C. de Jong	Director
B.G. Kroese	Superintendent
Drs. E.A. Mennega	Taxonomist
J. Tolsma	Curator of collections

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

University Botanical Gardens
Heidelberglaan 2,
3508 TC UTRECHT
The Netherlands

All requests for seeds and spores reaching us before April 1982 will be handled in rotation of entry dates. Requests reaching us after that date will be sent out in the beginning of 1983.

Owing to the severe spring frost, at the end of April 1981, the seed harvest has been smaller than usual. The seed batches sent out this year will be limited in size and number.

SIGNUM SECUNDUM COMMENDATIO
I.A.B.G. : Sign according to
the recommendation of the
International Association of
Botanical Gardens.

! SEMINA E PLANTIS CULTIS LECTA
QUARUM ORTUS NATALIS COGNITUS EST:
Seeds of select cultivated plants
of known wild origin.

The seeds and spores offered in this list have been taken from verified 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 (\pm 12 acres)
2. The Cantonspark, Baarn, maintaining interesting collections of tropical and 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 (\pm 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 from Mondays to Fridays during working hours only. Acreage : 27 HA (\pm 67,5 acres).
4. The old botanic garden in the Centre of Utrecht. The garden is now 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: $\frac{1}{2}$ HA (\pm 2 acres).
5. Sandwijck Estate, de Bilt. The old woodland gardens have been acquired by the 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 reseach 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.

The climate of De Bilt , Utrecht (1951-1980)

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 (1951 - 1980).

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

Altitude : 2 m above sea level

<u>Mean air temperature</u>	<u>Mean rainfall</u>	<u>Mean sunshine in hours</u>
January 2,0°C.	67 mm.	49
February 2,3	50 -52	66 - 69
March 4,8	51	111
April 8,0	52	161
May 12,1	54	202
June 15,2	70	209
July 16,6	77	185
August 16,4	88	182
September 14,0	65	141
October 10,3	69	103
November 5,8	75	53
December 3,2	79	44
Per Year 9,2	796	1505

Mean daily minimum of the coldest month : -0,7°C.

Mean daily maximum of the warmest month : 21,1°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.

CYATHEACEAE

2. *Sphaeropteris cooperi* (W.J. Hook. ex F. v. Muell.) Tryon

POLYPODIACEAE

3. *Adiantum hispidulum* Sw.
4. *Adiantum macrophyllum* Sw.
5. *Adiantum raddianum* K.B. Presl
6. *Arachniodes aristata* (G. Forst.) Tindale
7. *Asplenium flaccidum* G. Forst.
8. *Asplenium marinum* L.
Coll. Spain 1962
9. *Asplenium nidus* L.
10. *Asplenium trichomanes* L.
11. *Blechnum brasiliense* Desv.
12. *Blechnum occidentale* L.
13. *Davallia solida* (J.R. Forst.) Sw.
var. *fejeensis* (W.J. Hook)
14. *Davallia trichomanoides* Bl.
var. *trichomanoides*
15. *Diplazium australe* (R.Br.) Wakef.
16. *Doodia caudata* (Cav.) R.Br.
var. *caudata*
17. *Doodia caudata* (Cav.) R.Br.
var. *lomarina* F.v. Muell.
18. *Doryopteris concolor* (Langsd. et Fisch.) Kuhn var. *concolor*
19. *Doryopteris pedata* (L.) Fée

POLYPODIACEAE - continued

20. *Dryopteris carthusiana* (Vill.) H.P. Fuchs
21. *Dryopteris filix-mas* (L.) Schott
22. *Elaphoglossum crinitum* (L.) Christ
23. *Fadyenia prolifera* W.J. Hook.
24. *Hemionitis arifolia* (Burm.) T. Moore
25. *Humata tyermannii* T. Moore
26. *Matteuccia struthiopteris* (L.) Tod.
27. *Pellaea rotundifolia* (G. Forst.) W.J. Hook.
28. *Pellaea viridis* (Forsk.) Prantl
29. *Polypodium aureum* L. var. *areolatum* (Humb. et Bonpl. ex Willd.) Bak.
30. *Polypodium crassifolium* L.
31. *Polypodium percussum* Cav.
32. *Polypodium subauriculatum* Bl.
33. *Polystichum polyblepharum* (Roem.) K.B. Presl
34. *Pteris vittata* L.
35. *Quercifilix zeylanica* (Houtt.) Copel.
36. *Tectaria gemmifera* (Fée) Alston
37. *Tectaria heracleifolia* (Willd.) Underw.

PSILOTACEAE

38. *Psilotum nudum* (L.) P. Beauv.

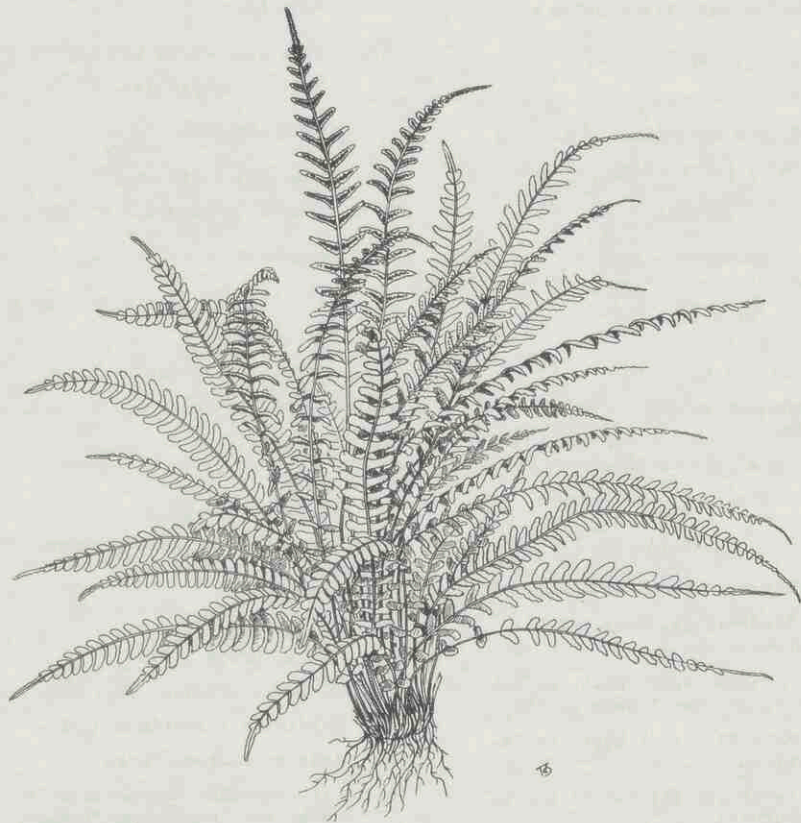
SCHIZAEACEAE

39. *Anemia phylliditis* (L.) Sw.

CONIFEROSPERMAE

TAXODIACEAE

40. *Sciadopitys verticillata* (Thunb.) Sieb. et Zucc.



Doodia caudata (Cav.) R. Br.
var. *caudata*

ANGIOSPERMAE

MONOCOTYLEDONES

AGAVACEAE

41. *Cordyline fruticosa* (L.) A. Chev.

AMARYLLIDACEAE

42. *Alstroemeria aurantiaca* D. Don ex Sweet
43. *Clivia miniata* Regel
44. *Clivia nobilis* Lindl.
45. *Eurycles cunninghamii* Ait. ex Loud.
46. *Habranthus robustus* Herb. ex Sweet

ARACEAE

47. *Aglaonema commutatum* Schott
var. *commutatum*
48. *Aglaonema crispum* (Pitcher et Manda) Nicols.
49. *Arum maculatum* L.
50. *Lysichitum americanum* Hult. et St. John
51. *Nephtytis afzelii* Schott
52. *Pinellia ternata* (Thunb.) Breit.

BROMELIACEAE

53. *Aechma fulgens* Brongn. var. *fulgens*
54. *Aechmea lindenii* (E. Morr.) Bak.
var. *makoyana* Mez
55. *Aechmea miniata* (Beer) hort. ex Bak.
var. *discolor* (Beer) Beer ex Bak.
56. *Aechmea miniata* (Beer) hort. ex Bak.
var. *miniata*
57. *Aechmea recurvata* (Klotzsch) L.B.Sm.
var. *recurvata*
58. *Bromelia alta* L.B. Sm.
59. *Catopsis hahnii* Bak.
60. *Guzmania sanguinea* (André) André ex Mez
var. *brevipedicellata* Gilmartin
61. *Guzmania sanguinea* (André) André ex Mez
var. *sanguinea*
62. *Pitcairnia andreana* J.J. Lind.
63. *Pitcairnia punicea* Scheidw.
64. *Pitcairnia undulata* Scheidw.

BROMELIACEAE - continued

65. *Puya mirabilis* (Mez) L.B. Sm.
66. *Tillandsia anceps* Lodd.

CANNACEAE

67. *Canna leucocarpa* Bouché;
Coll. Colombia 1972

COMMELINACEAE

68. *Commelina tuberosa* L.
69. *Tinantia erecta* (Jacq.) Schlechtend.

GRAMINEAE

70. *Agrostis nebulosa* Boiss. et Reut.
71. *Briza maxima* L.
72. *Dactylis glomerata* L.
73. *Eragrostis poaeoides* P. Beauv.
74. *Festuca ovina* L.
75. *Lagurus ovatus* L.
76. *Oryza sativa* L.
77. *Pennisetum setaceum* (Forsk.) Chiov.

IRIDACEAE

78. *Belamcanda chinensis* (L.) DC.;
Coll. U.S.A. 1975
79. *Diets iridioides* (L.) Sweet ex Klatt
80. *Gladiolus byzantinus* Mill.
81. *Iris prismatica* Pursh
82. *Orthrosanthus chimboracensis* (H.B.K.)
Bak. var. *centro-americanus*
Steyermark; Coll. Mexico 1976

JUNCACEAE

83. *Juncus gerardii* Loisèl.
84. *Luzula luzuloides* (Lam.) Dandy et Wilm.

LILIACEAE

85. *Allium cyathophorum* Bur. et Franch.
var. *farreri* (Stearn) Stearn

LILLIACEAE - continued

86. *Allium moly* L.
87. *Arthropodium cirrhatum* (G. Forst.) R.Br.
88. *Alstroemeria aurantiaca* D. Don ex Sweet
89. *Camassia quamash* (Pursh) Greene
90. *Danae racemosa* (L.) Moench
91. *Lilium canadense* L.
92. *Lilium davidii* Duchartre var. *davidii*
93. *Lilium pyrenaicum* Gouan
94. *Littonia modesta* J.D. Hook.
95. *Muscari armeniacum* Leicht. ex Bak. var. *armeniacum*
96. *Muscari aucheri* Boiss.
97. *Muscari azureum* Fenzl
98. *Muscari botryoides* (L.) Mill. var. *botryoides*
99. *Muscari latifolium* J. Kirk
100. *Ornithogalum sphaerocarpum* A. Kern.; Coll. Crete 1967
101. *Paradisea lusitanica* (Coutinho) Sampaio; Coll. Portugal 1967
102. *Phormium tenax* J.R. et G.Forst.
103. *Tricyrtis hirta* (Thunb.) W.J.Hook.
104. *Tricyrtis latifolia* Maxim.
105. *Triteleia laxa* Benth.
106. *Veratrum album* L.
107. *Veratrum nigrum* L.
108. *Zigadenus elegans* Pursh

PALMAE

109. *Chamaedorea elegans* Mart.

ZINGIBERACEAE

110. *Brachychilum horsfieldii* (R.Br. ex Wall.) O.G. Peters
111. *Burbridgea schizocheila* hort. Buitenz. ex Hackett
112. *Globba schomburgkii* J.D.Hook.
113. *Monocostus uniflorus* (Poepp. ex O.G. Peters.) Maas ; Coll. Peru 1975

DICOTYLEDONES

ACANTHACEAE

114. *Acanthus balcanicus* Heyw. et I.B.K. Richards.
115. *Grossandra nilotica* Oliv.

ACERACEAE

116. *Acer lobelii* Ten.
117. *Acer maximowiczianum* Miq.
118. *Acer tataricum* L. var. *tataricum*

AIZOACEAE

119. *Lampranthus amoenus* (Salm-Dyck) N.E. Br.
120. *Micropterum pinnatifidum* (L.f.) Schwant.
121. *Tetragonia tetragonioides* (Pall.) O. Kuntze

AMARANTHACEAE

122. *Achyranthes aspera* L. var. *sicula* L. f. *purpurea* Maire; Coll. Tenerife 1974
123. *Aerva scandens* (Roxb.) Wall. f. *sanguinea* Standl.
124. *Amaranthus retroflexus* L.
125. *Gomphrena decumbens* Jacq.
126. *Gomphrena globosa* L.
127. *Pleuropetalum darwinii* J.D.Hook.; Coll. Galapagos, Santa Cruz 1974

APOCYNACEAE

128. *Alyxia buxifolia* R.Br.
129. *Alyxia daphnoides* A.Cunn.
130. *Amsonia tabernaemontana* Walt.

AQUIFOLIACEAE

131. *Ilex verticillata* (L.) A. Gray

ARALIACEAE

132. *Aralia elata* (Miq.) Seem.

ARISTOLOCHIACEAE

133. *Aristolochia fimbriata* Cham.

134. *Asarum caudatum* Lindl.

BASELLACEAE

135. *Basella alba* L.

BERBERIDACEAE

136. *Berberis wilsoniae* Hemsl. et Wils.
var. *wilsoniae*

137. *Podophyllum hexandrum* Royle
var. *hexandrum*

BETULACEAE

138. *Carpinus betulus* L.

BIGNONIACEAE

139. *Eccremocarpus scaber* Ruiz et Pav.

BORAGINACEAE

140. *Anchusa azurea* Mill.

141. *Borago officinalis* L.

142. *Cerithe major* L.

143. *Cynoglossum amabile* Stapf et Drumm.

144. *Cynoglossum wallichii* G. Don

145. *Lappula squarrosa* (Retz.) Dumort.

146. *Nonea rosea* (M.B.) Link

CAESALPINIACEAE

147. *Cassia occidentalis* L. ;
Coll. Brazil 1967

148. *Cercis siliquastrum* L.

CALYCERACEAE

149. *Acicarpa pinnatifida* Miers

CAMPANULACEAE

150. *Adenophora nikoensis* Franch.
et Sav.

151. *Campanula carpatica* Jacq. var.
carpatica

152. *Campanula lyrata* Lam.

153. *Campanula rotundifolia* L.

154. *Edraianthus tenuifolius* (Waldst.
et Kit.) A.DC.

155. *Gadellia lactiflora* (M.B.)
Schulkinina

156. *Jasione laevis* Lam. ssp. *laevis*

157. *Legousia speculum-veneris* L.
Chaix

158. *Pratia nummularia* (Lam.) A.Br.
et Aschers.

CAPPARIDACEAE

159. *Podandroyne brachycarpa* (DC.)
Woods. ; Coll. Peru 1975

CAPRIFOLIACEAE

160. *Lonicera maackii* (Rupr.) Maxim.

161. *Viburnum trilobum* H. Marsh.

CARYOPHYLLACEAE

162. *Dianthus carmelitarum* Reut. ex
Boiss.

163. *Dianthus carthusianarum* L.

164. *Dianthus plumarius* L.

165. *Dianthus superbus* L. ssp.
speciosus (Rchb.) Pawl.

166. *Dianthus superbus* L. ssp.
superbus

167. *Lychnis coronaria* (L.) Desr.

168. *Petrocoptis grandiflora* Rothm.

169. *Saponaria caespitosa* DC.

170. *Silene hayekiana* Hand.-Mazz. et
Janchen

171. *Silene italica* (L.) Pers.

172. *Silene multicaulis* Guss.

CARYOPHYLLACEAE - continued

173. *Silene roemerii* Frič. ;
Coll. Yugoslavia 1976
174. *Silene sendtneri* Boiss. ;
Coll. Yugoslavia 1976
- CELASTRACEAE
175. *Celastrus orbiculatus* Thunb.
176. *Euonymus alatus* (Thunb.) Sieb.
var. *apterus* Regel
177. *Euonymus planipes* (Koehe) Koehe
- CHENOPODIACEAE
178. *Chenopodium ambrosioides* L.
var. *ambrosioides*
179. *Chenopodium foliosum* Aschers.
- CISTACEAE
180. *Cistus monspeliensis* L.
181. *Helianthemum ledifolium* (L.)
P. Mill. ; Coll. Spain 1962
182. *Tuberaria guttata* (L.) Fourr. ;
Coll. Spain 1966
- CLETHRACEAE
183. *Clethra alnifolia* L.
184. *Clethra barbinervis* Sieb. et Zucc.
- CLUSIACEAE
185. *Garcinia xanthochymus* J.D.Hook. ex
T.Anders.
186. *Rheedia gardnerana* Planch. et
Triana ; Coll. Brazil 1966
- CNEORACEAE
187. *Cneorum tricoccon* L.
- COMPOSITAE
188. *Achillea ageratifolia* (Sibth. et
Sm.) Boiss.
189. *Achillea odorata* L.
190. *Anacyclus radiatus* Loisel.
191. *Antennaria neglecta* Greene
var. *neglecta*
192. *Arnica amplexicaulis* Nutt.
193. *Arnica longifolia* D.C. Eaton
194. *Aster divaricatus* L.
195. *Aster sedifolius* L.
196. *Brachycome iberidifolia* Benth.
197. *Buphthalmum salicifolium* L.
198. *Carduus defloratus* L. ssp.
glaucus Nym.
199. *Centaurea uniflora* Turra ssp.
uniflora
200. *Centratherum punctatum* Cass.
ssp. *punctatum*
201. *Chrysogonum virginianum* L.
202. *Doronicum pardalianches* L.
203. *Gnaphalium sylvaticum* L.
204. *Haplopappus coronopifolius* DC.
205. *Helianthus laetiflorus* Pers.
206. *Liatris spicata* (L.) Willd.
var. *callilepis* Boom et Ruys
207. *Ligularia veitchiana* (Hemsl.)
Greenm.
208. *Matricaria recutita* L.
209. *Santolina chamaecyparissus* L.
ssp. *tomentosa* (Pers.) Arcang.
210. *Sanvitalia procumbens* Lam.
211. *Senecio compactus* Kirk
212. *Senecio jacobsenii* Rowl.
213. *Silphium integrifolium* Michx.
214. *Silybum marianum* (L.) Gaertn.
215. *Spilanthes oleracea* L.
216. *Stokesia laevis* (Hill) Greene
217. *Telekia speciosa* (Schreb.)
Baumg.
218. *Tragopogon porrifolius* L.
- CONVOLVULACEAE
219. *Cuscuta gronovii* Willd.
220. *Ipomoea purpurea* (L.) Roth
221. *Quamoclit coccinea* (L.) Moench

CRASSULACEAE

222. *Kalanchoe citrina* Schweinf.
223. *Sedum middendorffianum* Maxim.
224. *Sedum spectabile* Bor.
225. *Sedum telephium* L. ssp. *maximum*
(L.) Krock.

CRUCIFERAE

226. *Aethionema saxatile* (L.) R.Br.
227. *Alyssum montanum* L. ssp. *montanum*
228. *Camelina sativa* (L.) Crantz
ssp. *sativa*
229. *Crambe hispanica* L. var. *glabrata*
(DC.) Coss.
230. *Erysimum decumbens* (Schleich. ex
Willd.) Dennst.
231. *Thlaspi alpestre* L.

CUCURBITACEAE

232. !*Cucurbita pepo* L. ;
Coll. Brazil 1976
233. *Cyclanthera explodens* Naud.
234. *Ecballium elaterium* (L.) A.Rich.
235. *Echinocystis lobata* (Michx.) Torr.
et A.Gray
236. *Echinopepon wrightii* (A.Gray) Wats.

DIPSACACEAE

237. *Cephalaria gigantea* (Ledeb.) Bobrov
238. *Pterocephalus perennis* Coult.
ssp. *perennis*
239. *Scabiosa lucida* Vill.

ELAEAGNACEAE

240. *Elaeagnus umbellata* Thunb.
var. *umbellata*

ERICACEAE

241. *Bruckenthalia spiculifolia*
(Salisb.) Rchb.
242. *Chamaedaphne calyculata* (L.) Moench
243. *Enkianthus campanulatus* (Miq.)
Nichols.

ERICACEAE - continued

244. *Gaultheria shallon* Pursh
245. *Kalmia angustifolia* L.
246. *Kalmia latifolia* L.
247. *Leucothoe fontanesiana* (Steud.)
Sleum.
248. *Pieris floribunda* (Pursh ex Sims)
Benth. et J.D.Hook.
249. *Pieris japonica* (Thunb.) D.Don
ex G.Don
250. *Rhododendron canadense* (L.) Torr.
251. *Zenobia pulverulenta* (Bartr. ex
Willd.) C. Pollard

EUPHORBIACEAE

252. !*Acalypha sericea* Anderss. var.
sericea ; Coll. Galapagos Isl.
1976
253. *Cnidioscolus urens* (L.) Arthus
254. *Euphorbia lathyris* L.
255. *Ricinus communis* L.

FAGACEAE

256. *Nothofagus antarctica* (G.Forst.)
Oerst.

GENTIANACEAE

257. *Centaurium scilloides* (L.f.)
Sampaio
258. *Gentiana cruciata* L. ssp.
cruciata

GERANIACEAE

259. !*Erodium chium* (L.) Willd. ssp.
chium ; Coll. Tenerife 1974
260. *Geranium fremontii* Torr. ex
A.Gray
261. *Geranium maculatum* L.
262. *Geranium sanguineum* L.
var. *sanguineum*
263. *Pelargonium inodorum* Willd.

GESNERIACEAE

264. *Achimenes erecta* (Lam.) H.P.Fuchs

GESNERIACEAE - continued

265. *Achimenes grandiflora* (Schiede) DC.
266. *Achimenes longiflora* DC.
267. *Achimenes mexicana* (Seem.) Benth. et
J.D.Hook. ex Fritsch
268. *Achimenes misera* Lindl.
269. *Alloplectus ambiguus* Urb.
270. *Alloplectus capitatus* W.J.Hook.
271. *Alloplectus vittatus* J.J. Lind. et
André
272. *Chirita hamosa* (Wall.) R.Br.
273. *Chirita involucrata* Craib
274. *Chirita lavandulacea* Stapf
275. *Chirita micromusa* B.L.Burt
276. *Columnnea aureonitens* W.J.Hook.
277. *Columnnea billbergiana* Beurl.
278. *Columnnea illepidia* H.E.Moore
279. *Columnnea sanguinea* (Pers.) Hanst.
280. *Haberlea rhodopensis* Friv.
281. *Ramonda myconi* (L.) Rchb.
282. *Rytidophyllum tomentosum* (L.) G.Don
283. *Sinningia cardinalis* (Lehm.)
H.E.Moore
284. *Streptocarpus haygarthii* C.B.Clarke
285. *Streptocarpus polyanthus* W.J.Hook.
ssp. *comptonii* (Mansf.) Hilliard
286. *Streptocarpus rexii* (Bowie ex W.J.
Hook.) Lindl.
287. *Streptocarpus saxorum* Engl.
288. *Streptocarpus thompsonii* R.Br.
var. *thompsonii*
289. *Streptocarpus wendlandii* Sprenger ex
Dammann
290. *Streptocarpus wilmsii* Engl.

GLOBULARIACEAE

291. *Globularia vulgaris* L.

HYDRANGEACEAE

292. *Hydrangea heteromalla* D.Don
293. *Hydrangea petiolaris* Sieb. et Zucc.

HYDROPHYLLACEAE

294. *Hydrophyllum virginianum* L.
295. *Nemophila maculata* Benth. ex
Lindl.
296. *Nemophila menziesii* W.J.Hook.
et Arn.
297. *Phacelia cicutaria* Greene
298. *Phacelia congesta* W.J.Hook.
299. *Phacelia tanacetifolia* Benth.

HYPERICACEAE

300. *Hypericum hirsutum* L.
301. *Hypericum maculatum* Crantz
302. *Hypericum pulchrum* L.

LABIATAE

303. *Clinopodium vulgare* L. ssp.
vulgare
304. *Dracocephalum nutans* L. var.
nutans
305. *Horminum pyrenaicum* L.
306. *Hyssopus officinalis* L.
307. *Nepeta nepetella* L.
308. *Ocimum basilicum* L.
309. *Phlomis russeliana* (Sims) Benth.
310. *Salvia coccinea* Buchoz ex
Etling.
311. *Salvia patens* Cav.
312. *Stachys byzantina* K.Koch
313. *Stachys monieri* (Gouan) P.W.Ball
314. *Teucrium montanum* L.
315. *Thymus pulegioides* L.

LINACEAE

316. *Linum bienne* Mill.
317. *Linum grandiflorum* Desf.

LOASACEAE

318. *Blumenbachia hieronymi* Urb.
319. *Cajaphora lateritia* (W.J.Hook.)
Klotzsch

LOASACEAE - continued

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

LYTHRACEAE

321. *Ammannia coccinea* Rottb.
322. *Cuphea acinifolia* St.-Hil.
323. *Cuphea ignea* A.DC.
324. *Cuphea lanceolata* Ait.
325. *Heimia myrtifolia* Cham. et
Schlechtend.; Coll. Brazil 1976
326. *Heimia salicifolia* (H.B.K.) Link ;
Coll. Brazil 1967
327. *Lythrum salicaria* L.

MAGNOLIACEAE

328. *Liriodendron tulipifera* L.
329. *Magnolia virginiana* L.

MALVACEAE

330. *Abelmoschus manihot* (L.) Medik.
331. *Anoda cristata* (L.) Schlechtend.
332. *Gossypium arboreum* L.
333. *Hibiscus lavateroides* Moric.
334. *Hibiscus sabdariffa* L.;
Coll. Brazil 1972
335. *Pavonia praemorsa* (L.f.) Cav.
336. *Sida cordifolia* L.
337. *Sida rhombifolia* L. ;
Coll. Brazil 1966
338. *Urena lobata* L. ; Coll. Brazil 1967

MELASTOMATACEAE

339. *Bertolonia maculata* Mart. ex DC.
340. *Bertolonia marmorata* Naud.
341. *Clidemia hirta* (L.) D.Don
342. *Leandra xanthocoma* (Naud.) Cogn. ;
Coll. Brazil 1966

MELIACEAE

343. *Melia sempervirens* Sw.

MIMOSACEAE

344. *Acacia armata* R.Br.

MOLLUGINACEAE

345. *Hypertelis bowkerana* Sond.

MYRICACEAE

346. *Myrica gale* L.
347. *Myrica pensylvanica* Loisel.

MYRSINACEAE

348. *Ardisia crenata* Sims.
349. *Ardisia solanacea* Roxb.

OLEACEAE

350. *Jasminum beesianum* Forrest et Diels
351. *Syringa amurensis* Rupr.
var. *amurensis*
352. *Syringa tomentella* Bur. et Franch.

ONAGRACEAE

353. *Epilobium luteum* Pursh
354. *Fuchsia paniculata* Lindl.
355. *Fuchsia procumbens* R.Cunn.
356. *Gaura lindheimeri* Engelm. et A.Gray
357. *Godetia purpurea* (Curt.) G.Don
358. *Lopezia racemosa* Cav. ssp. *racemosa*

OROBANCHACEAE

359. *Aeginetia indica* Roxb.

OXALIDACEAE

360. *Oxalis valdiviensis* Barnéoud

PAEONIACEAE

361. *Paeonia mlokosewitschii* Lomak.

PAPAVERACEAE

362. *Corydalis sempervirens* (L.) Pers.
363. *Glaucium oxylobum* Boiss. et Buhse
364. *Meconopsis betonicifolia* Franch.



Leandra xanthocoma (Naud.) Cogn.

PAPAVERACEAE - continued

365. !*Papaver rhoeas* L. ; Coll. The Netherlands 1962
366. *Papaver spicatum* Boiss. et Bal. var. *spicatum*
367. *Roemeria refracta* DC.

PAPILIONACEAE

368. *Caragana arborescens* Lam.
369. *Glycine max* (L.) Merr.
370. *Hedysarum multijugum* Maxim.
371. *Lathyrus angulatus* L.
372. *Lathyrus cirrhosus* Ser.
373. *Lathyrus clymenum* L.
374. *Lathyrus occidentalis* (Fisch. et Mey.) Fritsch ssp. *occidentalis*
375. *Lathyrus odoratus* L.
376. *Lathyrus sativus* L. var. *sativus*
377. *Lens culinaris* Medik.
378. *Ornithopus sativus* Brot. ssp. *sativus*
379. *Rhynchosia pyramidalis* (Lam.) Urb.
380. *Sophora tetraptera* J. Mill.
381. *Tetragonolobus purpureus* Moench
382. *Trifolium incarnatum* L.

PASSIFLORACEAE

383. *Passiflora gracilis* Jacq. ex Link
384. *Passiflora suberosa* L.

PEDALIACEAE

385. *Ceratotheca triloba* E. Mey.

PHYTOLACCACEAE

386. *Phytolacca clavigera* W. W. Sm.
387. !*Phytolacca icosandra* L. ; Coll. Colombia 1971
388. *Rivina humilis* L. var. *humilis*

PITTIOSPORACEAE

389. *Citriobatus multiflorus* A. Cunn.
390. *Pittosporum undulatum* Vent.

PLANTAGINACEAE

391. *Plantago afra* L.
392. *Plantago maritima* L. ssp. *serpentina* (All.) Arcang.
393. *Armeria maritima* (Mill.) Willd. ssp. *maritima*
394. *Limonium latifolium* (J. E. Sm.) O. Kuntze
395. *Limonium transwallianum* (Pugsley) Pugsley

POLEMONIACEAE

396. *Navarretia squarrosa* (Eschsch.) W. J. Hook. et Arn.
397. *Polemonium pulcherrimum* W. J. Hook.
398. *Polemonium reptans* L.

POLYGONACEAE

399. *Eriogonum umbellatum* Torr.
400. *Fagopyrum esculentum* Moench
401. *Polygonum bistorta* L.
402. *Polygonum capitatum* Buch.-Ham. ex D. Don
403. *Polygonum orientale* L.

PORTULACACEAE

404. *Calandrinia compressa* Schrad.
405. !*Portulaca mucronata* Link ; Coll. Brazil 1967
406. *Talinum triangulare* (Jacq.) Willd.

PRIMULACEAE

407. *Dodecatheon clevelandii* Greene ssp. *insulare* Thomps.
408. *Lysimachia ephemera* L.
409. *Primula denticulata* J. E. Sm.
410. *Primula elatior* (L.) J. Hill ssp. *elatior*
411. *Primula farinosa* L.

RANUNCULACEAE

412. *Aconitum napellus* L.
413. *Actaea rubra* (Ait.) Willd.

SCROPHULARIACEAE - continued

466. *Asarina barclaiana* (Lindl.) Pennell
467. *Asarina erubescens* (D. Don) Pennell ;
Coll. Venezuela 1974
468. *Calceolaria tripartita* Ruiz et Pav.
469. *Chelone obliqua* L.
470. *Collinsia heterophylla* Buist ex
R. Crah.
471. *Digitalis grandiflora* Mill.
472. *Digitalis thapsi* L. ;
Coll. Spain 1966
473. *Leucocarpus perfoliatus* (W. J. Hook.)
Benth.
474. *Penstemon attenuatus* Dougl. ex
Lindl.
475. *Penstemon pinifolius* Greene
476. *Penstemon serrulatus* Menz. ex
J. E. Sm.
477. *Scrophularia nodosa* L.
478. *Torenia baillonii* Godefr.
479. *Torenia fournieri* J. J. Lind.
480. *Torenia violacea* (Azaola) Pennell
481. *Wulfenia carinthiaca* Jacq.
482. *Zaluzianskia capensis* (Benth.)
Walp.

SELAGINACEAE

483. *Hebenstreitia dentata* L.

SOLANACEAE

484. *Browallia americana* L.
485. *Browallia viscosa* H. B. K.
486. *Cestrum regelii* Planch.
487. *Datura stramonium* L. var. *stramonium*
488. *Datura wrightii* Hort. ex Regel
489. *Hyoscyamus niger* L. var. *niger*
490. *Nicotiana tabacum* L.
491. *Physalis angulata* L. ;
Coll. Suriname 1967
492. *Scopolia lurida* (Link) Dun.
493. *Solanum nigrum* L.

SOLANACEAE - continued

494. *Solanum sodomeum* L.

STAPHYLEACEAE

495. *Staphylea pinnata* L.

STYRACACEAE

496. *Halesia carolina* L. var.
carolina
497. *Halesia carolina* L. var.
mollis (Lange) Perk.

SYMPLOCACEAE

498. *Symplocos paniculata* (Thunb.)
Miq.

TAMARICACEAE

499. *Myricaria germanica* (L.)
Desv.

THEACEAE

500. *Stewartia pseudocamellia* Maxim.
var. *pseudocamellia*

TILIACEAE

501. *Corchoropsis tomentosa* (Thunb.)
Mak.
502. *Corchorus argutus* H. B. K. var.
prismatocarpa K. Schum. ;
Coll. Brazil 1966
503. *Corchorus olitorius* L.

TROPAEOLACEAE

504. *Tropaeolum majus* L.
505. *Tropaeolum peregrinum* L.

UMBELLIFERAE

506. *Bupleurum angulosum* L.
507. *Coriandrum sativum* L.
508. *Myrrhis odorata* (L.) Scop.
509. *Scaligeria tripartita*
(Kalen.) Tamamsch.
510. *Trachymene pilosa* J. E. Sm.

RANUNCULACEAE - continued

414. *Adonis vernalis* L.
415. *Anemone sylvestris* L.
416. *Aquilegia pubescens* Coville
417. *Clematis vitalba* L.
418. *Delphinium elatum* L.
419. *Helleborus foetidus* L.
420. *Myosurus minimus* L.
421. *Pulsatilla vulgaris* Mill.
 ssp. *vulgaris*
422. *Ranunculus aconitifolius* L.
423. *Ranunculus sceleratus* L.
424. *Thalictrum flavum* L. ssp. *glaucum*
 (Desf.) Batt.
425. *Thalictrum simplex* L. ssp.
 bauhinii (Crantz) Tutin
426. *Thalictrum simplex* L. ssp. *simplex*
427. *Trollius asiaticus* L.
428. *Trollius chinensis* Bunge
429. *Trollius ranunculinus* (J.E.Sm.)
 Stearn
430. *Xanthoriza simplicissima* H. Marsh.

RESEDACEAE

431. *Reseda luteola* L.

ROSACEAE

432. *Acaena viridior* (Cock.) Allan
433. *Agrimonia pilosa* Ledeb.
434. *Aronia arbutifolia* (L.) Pers.
435. *Exochorda racemosa* (Lindl.) Rehd.
436. *Filipendula kamtschatica* (Pall.)
 Maxim.
437. *Fragaria moschata* Duch.
438. *Geum macrophyllum* Willd.
439. *Geum montanum* L.
440. *Geum rivale* L.
441. *Holodiscus discolor* (Pursh) Maxim.
 var. *discolor*
442. *Potentilla atrosanguinea* Lodd.
 ex D. Don

ROSACEAE - continued

443. *Potentilla recta* L. ;
 Coll. Yugoslavia 1977
444. *Prunus padus* L.
445. *Rubus odoratus* L.
446. *Rubus parviflorus* Nutt.
447. *Sorbaria sorbifolia* (L.)
 A.Br. var. *stellipila* Maxim.
448. *Spiraea densiflora* Nutt.
449. *Spiraea japonica* L.f. var.
 fortunei (Planch.) Rehd.
450. *Stranvaesia davidiana* Decne.
 var. *salicifolia* (Hutchins.)
 Rehd.
451. *Waldsteinia ternata* (Steph.)
 Fritsch

RUBIACEAE

452. *Asperula orientalis* Boiss.
 et Hohen.
453. *Carinta repens* (L.) L.B.Sm.
 et Downs ; Coll. Brazil 1966
454. *Coccocypselum brevipetiolatum*
 Steyermark ; Coll. Colombia
 1974
455. *Coccocypselum hirsutum* Bartl.
 ex DC.
456. *Hamelia versicolor* A.Gray
457. *Schenckia blumenaviana* K.Schum.
458. *Valantia hispida* (L.) DC.

SAXIFRAGACEAE

459. *Boykinia major* A.Gray
460. *Mitella diphylla* L.
461. *Saxifraga canaliculata* Boiss.
 et Reut. ex Engl.
462. *Saxifraga granulata* L.
463. *Saxifraga umbrosa* L.

SCROPHULARIACEAE

464. *Anarrhinum bellidifolium* (L.)
 Willd.
465. *Antirrhinum orontium* L.



Torenia fournieri J.J.Lind.



Tropaeolum peregrinum L.

URTICACEAE

511. *Parietaria erecta* Mert. et
W.D.J. Koch
512. *Urtica pilulifera* L.

VALERIANACEAE

513. *Centranthus calcitrapa* (L.) DC.
514. *Centranthus macrosiphon* Boiss.
515. *Fedia cornucopiae* (L.) Gaertn.
516. *Valeriana officinalis* L.

VERBENACEAE

517. *Clerodendrum trichotomum* Thunb.
var. *trichotomum*
518. *Stachytarpheta jamaicensis* (L.)
Vahl ; Coll. Philippines 1973
519. *Verbena hastata* L.

VIOLACEAE

520. *Hymenanchera crassifolia* J.D.Hook.

VITACEAE

521. *Ampelopsis brevipedunculata*
(Maxim.) Trautv. var. *maximowiczii*
(Regel) Rehd.

