



Index seminarum

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INDEX SEMINUM



University Botanic Gardens
Utrecht,
The Netherlands

No. 32-1990

UNIVERSITEITSBIBLIOTHEEK UTRECHT



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VWM 1323

University Botanic Gardens

**P.O. Box 80.162
3508 TD Utrecht
The Netherlands**

Index Seminar No. 32 - 1990

Staff:

General Dept.:

V.P.A. Lukkien, M.Sc.,
General Director
A. Leijendekkers,
Curator of Gardens
A. Ligthart,
Secretary

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J. Tolsma,
Curator of Collections
L.J.W. van den Wollenberg, M.Sc.,
Curator of Collections

Educational Dept.:

J. Vos, M.Sc.,
Education officer
A. Kühn,
Education officer

The gardens are located at:

- Utrecht: Fort Hoofddijk (University center)
- Doorn: Von Gimbornarboretum

Situation and climate:

52°06'N, 5°11'E
Alt.: 2m above sea level
Average rainfall: 796 mm
Mean annual maximum temperature: 31.8 °C
Mean annual minimum temperature: -11.5 °C

Introduction:

With the presentation of our Index Seminar 1990 we take the opportunity to inform you on the latest development concerning the University Botanic Gardens of the State University of Utrecht.

- . Due to our activities for the celebration of the 350th anniversary in 1989, we were unable to produce an Index Seminar for that year. From now on we intend to issue one again every year.
- . In the past two years the staff has been expanded with an Educational Department, consisting of Mrs. A. Kühn and Mr. J. Vos, both on a voluntary basis.
- . In 1989 the Government supported the Utrecht University financially to build new greenhouses to accommodate the Utrecht half of the Willy Commelin Scholten Institute for Phytopathology, formerly located in Baarn (the Institute was a joint venture between the Universities of Amsterdam and Utrecht). In 1990 the building activities started.
- . In 1991 the Utrecht University celebrates her 355th anniversary. To celebrate this, amongst others, an international congress on education for botanic gardens will be supported. This congress, "A Natural Environment for Learning", that will be held 13 - 16 May 1991, is organized by the "Botanic Gardens and Industrial Liaison Office Utrecht University", the "Dutch Botanic Gardens Foundation", the "Botanic Gardens Education Network (B.G.E.N.)", and the "Botanic Gardens Conservation Secretariat B.G.C.S.". The purpose of the congress is to inform the staff of botanic gardens about the possibilities that are open to them, and to forge co-operation between botanic gardens in the field of Education on Nature and Environment (E.N.E.).

The Botanic Gardens of Utrecht are developing specializations on the following groups and taxa:

- Alpinous plants
- selected woodland plants (Arisaema, Arisarum, Penstemon & Trillium)
- Annonaceae
- Conifers (esp. Tsuga)
- Flora of the Neotropics: Flora of the Guianas
 - Gesneriaceae
 - Orchidaceae
 - Zingiberaceae
- Lactiferous plants: Euphorbia
- Hoya
- Broad-leaved hardy trees and shrubs:
 - Aceraceae Betulaceae Ericaceae
 - Euonymus Laburnum Magnolia
 - Oleaceae

These specializations are given extra attention regarding verification, nomenclature etc.

We are especially interested in material from natural sources of the groups and taxa mentioned above. **We will be much obliged if (besides the material from your seedlist) you can supply us with other species from, or draw our attention to, special stocks in your collections.**

Furthermore, we intend a closer cooperation with Botanic Gardens with specializations on one or more of the taxa mentioned above. Enclosed you will find an inquiry about the specializations you hold from the taxa mentioned above. You are kindly requested to fill it out, and return it, even if you are not interested in co-operation, as the information thus gathered may also be useful to our Dutch colleagues.

Verification:

The seeds in this list have been taken from verified plants and only if we were reasonably sure that cross-pollination with related species would be unlikely.

Explanation of provenance codes:

- S= Seeds derived from a plant in cultivation but from known natural source (not necessarily F1 generation).
G= Seeds from a plant from other Botanical Garden or Institute; not from known natural source.

Explanation of abbreviated collector-names:

CYT	research-group Cytotaxonomy (P.E.B.)
EAM	E.A. Mennega
HAWK	J.G. Hawkes
HVDW	H. v.d. Werff
JVL	J.Chr. v. Loon
L&G	J.C. Lindeman & A.R.A. Görts
MAAS	P.J.M. Maas
MJJ	M.J. Jansen-Jacobs
PL	T. Plowman

Sources of illustrations used:

- Fig. 1: A.R. Clapham, T.G. Tutin & E.F. Warburg; drawings: S.J. Roles: *Illustr. of the Fl. of the Brit. Isles* vol. II, Cambridge Univ. Press, Cambridge, U.K., 1960.
Fig. 2: idem, vol. IV, 1965.
Fig. 3: R.H. Molenbrock (ed.): *Illustr. Flora of Illinois*, Southern Illinois Univ. Press, Carbondale & Edwardsville, Ill., U.S., 1981, ISBN 0-8093-0920-3
Fig. 5: idem
Fig. 4: F.K. Makins, *Herb. Garden Fl.*, J.M. Dent & Sons Ltd., London, U.K., 1957.

Notes on ordering:

Correspondents are asked to use the order-form provided, and send it to the address mentioned upon it. Furthermore, they should check with their own authorities concerning import-regulations and include any necessary permits with their order.

Requests reaching us before March 1991 will be handled in sequence of entry.

Aceraceae

- | | | | | |
|----|---|---|-----------|---|
| 1. | G | I | 00ZG00987 | <i>Acer ginnala</i> Maxim. var. <i>ginnala</i> |
| 2. | G | I | 00ZG00986 | <i>Acer lobelii</i> Ten. |
| 3. | G | I | 00ZG00968 | <i>Acer maximowiczianum</i> Miq.
(syn.: <i>A. nikoense</i> Maxim.) |
| 4. | G | I | 00ZG00997 | <i>Acer micranthum</i> Sieb. & Zucc. |

Aizoaceae

- | | | | | |
|----|---|---|-----------|--|
| 5. | G | I | 57ZE01007 | <i>Tetragonia tetragonioides</i>
(Pall.) O.Kuntze |
|----|---|---|-----------|--|

Amaranthaceae

- | | | | | |
|----|---|---|-----------|--|
| 6. | S | I | 74ZE02060 | <i>Achyranthes aspera</i> L. f. <i>purpurea</i> Mair [JVL 14141]
Tenerife |
| 7. | S | I | 74GR00319 | <i>Pleuropetalum darwinii</i>
J.D.Hook. [HVDW 178]
Galapagos Islands. |

Amaryllidaceae

- | | | | | |
|----|---|---|-----------|---|
| 8. | S | I | 80GR00248 | <i>Bomarea edulis</i> (Tussac) Herb.
[L&G 455] Suriname, Kabe-
lebo area, along Barieba Creek |
|----|---|---|-----------|---|

Apiaceae

- | | | | | |
|----|---|---|-----------|------------------------------|
| 9. | G | I | 72ZE02162 | <i>Coriandrum sativum</i> L. |
|----|---|---|-----------|------------------------------|

Apocynaceae

10. S I 85GR00108 *Rauvolfia tetraphylla* L.
Cuba, grounds Calabazar, J.B.N.

Aquifoliaceae

11. G I 61RD00653 *Ilex pedunculosa* Miq. var.
pedunculosa

Bignoniaceae

12. G I 71ZS00029 *Ecchremocarpus scaber* Ruiz &
Pav.

Boraginaceae

13. G I 55ZE00789 *Lappula squarrosa* (Retz.)
Dumort.

Brassicaceae

14. G I 72BL00095 *Fibigia eriocarpa* (DC.) Boiss.

Calyceraceae

15. G I 55ZE01000 *Acicarpa pinnatifida* Miers

Campanulaceae

16. S I 83BL00283 *Edraianthus tenuifolius*
(Waldst. & Kit.) A.DC. Eur.
Alps. No further details.
17. G I 72ZE02170 *Lobelia inflata* L.

Cannaceae

18. S S 89GR00092 *Canna indica* L. [MJJ 1781]
Guyana, Old Farm near Ko-
nashen
19. S I 75GR00189 *Canna tuerckheimii* Kraenzl.
[PL 3767]

Capparaceae

20. G I 71ZE00309 *Polanisia dodecandra* (L.) DC.
var. *trachysperma* (Torr. &
A.Gray) Iltis

Caryophyllaceae

21. G I 83BL00090 *Dianthus knappii* (Pant.)
Aschers. & Kanitz ex Borb.
22. S I 88ZS00031 *Lychnis coronaria* (L.) Desr.
Bulgaria, no further details!

Celastraceae

23. G I 60RD00006 *Euonymus planipes* (Koehne)
Koehne
24. S I 77RD00142 *Tripterygium regelii* Sprague
& Takeda Korea, Sorok
National Park, no further
details!

Chenopodiaceae

25. G I 53ZE00962 *Chenopodium ambrosioides* L.
var. *ambrosioides*
26. G I 53ZE00824 *Chenopodium polyspermum*
L.

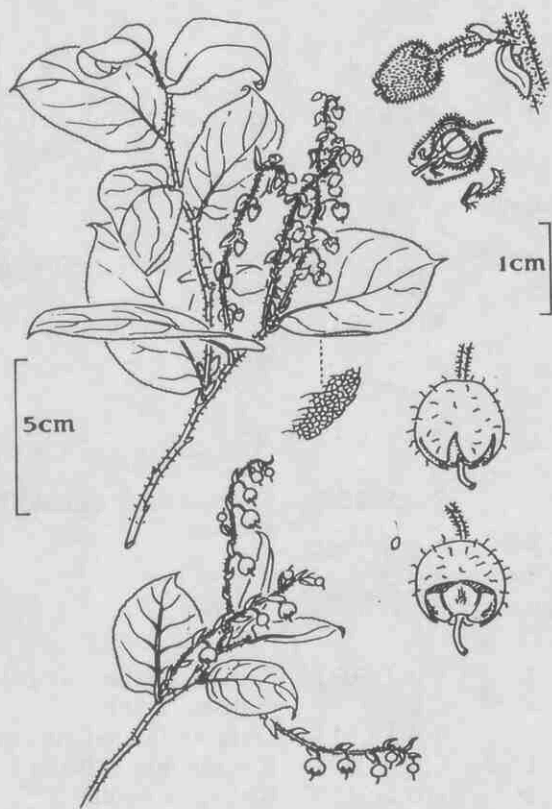


Fig. 1: *Gaultheria shallon* Pursh

Cistaceae

27. S I 62ZE02137 *Helianthemum ledifolium* (L.)
P.Mill. [EAM] Spain, Prov.
Malaga, near Estepona, along
roadside.

Convolvulaceae

28. G I 53ZE00838 *Ipomoea purpurea* (L.) Roth

Cucurbitaceae

29. G I 54ZE02380 *Ecballium elaterium* (L.)
A.Rich.
30. G I 81ZE00337 *Echinopepon wrightii* (A.-
Gray) Wats.

Dipsacaceae

31. G V 71ZS00069 *Cephalaria gigantea* (Ledeb.)
Bobrov

Ericaceae

32. G I 64RD00374 *Bruckenthalia spiculifolia*
(Salisb.) Rchb.
33. G I 76RD00148 *Gaultheria shallon* Pursh
34. G I 00ZG00034 *Kalmia angustifolia* L.
35. G I 00ZG01222 *Kalmia latifolia* L.
36. G I 00ZG00883 *Leucothoe walteri* (Willd.)
Melvin
37. G I 00ZG00037 *Pieris floribunda* (Pursh ex
Sims) Benth. & J.D.Hook.
38. G I 00ZG00036 *Pieris japonica* (Thunb.)
D.Don ex G.Don
39. G I 00ZG00097 *Rhododendron canadense* (L.)
Torr.

40. G I 00ZG01148 *Zenobia pulverulenta* (Bartr. ex Willd.) C.Pollard

Euphorbiaceae

41. S I 82ZE02120 *Mercurialis annua* L.
Germany, Rhein-Main area,
near Frankfurt.
42. G I 78GR00256 *Phyllanthus juglandifolius*
Willd.

Fabaceae

43. S I 72ZE02110 *Lathyrus clymenum* L.
Mediterranean
44. S I 71ZE00834 *Lathyrus odoratus* L. Italy,
Sicily
45. S I 88ZS00002 *Lathyrus pratensis* L.
Belgium, Bousse en Fagne,
limy slope, no further details!
46. S I 87ZS00040 *Lathyrus tuberosus* L.
U.S.S.R., Tauria, no further
details!
47. G I 79ZE00331 *Ornithopus sativus* Brot.
subsp. *sativus*
48. G I 56ZE02112 *Tetragonolobus purpureus*
Moench
49. G I 73ZE00883 *Trifolium incarnatum* L.

Gentianaceae

50. S I 57ZE00818 *Centaurium erythraea* Raf.
subsp. *erythraea* Czechoslo-
vakia, S. Bohemia, Sobeolav
Alt.: 500m.
51. U 89BL00138 *Gentiana lutea* L. subsp. *lutea*

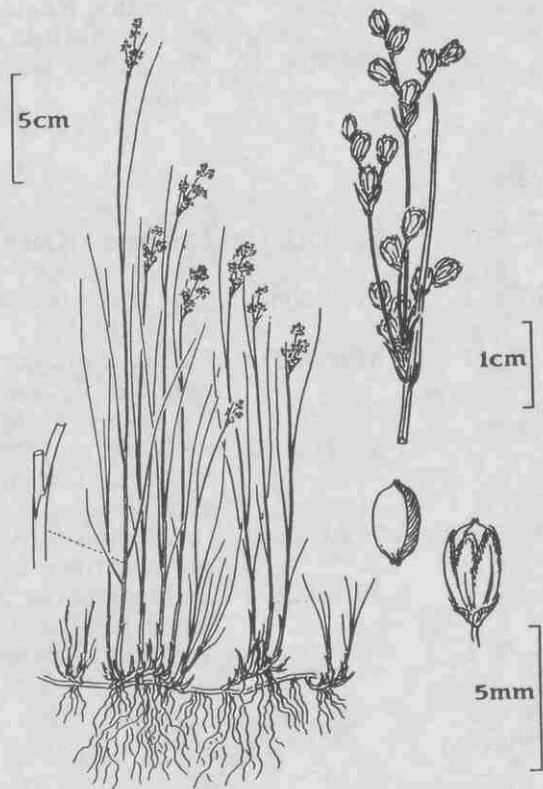


Fig. 2: *Juncus gerardi* Loisel.

Geraniaceae

52. S I 72ZE02194 *Geranium robertianum* L.
 The Netherlands

Gesneriaceae

53. G I 65BL00453 *Ramonda myconi* (L.) Rchb.

Globulariaceae

54. G I 77ZE00304 *Hebenstretia dentata* L.

Hydrophyllaceae

55. G I 71ZE00310 *Phacelia congesta* W.J.Hook.

Juncaceae

56. G I 75ZS00037 *Juncus gerardi* Loisel.

Lamiaceae

57. G I 72ZE02143 *Salvia coccinea* Buc'hoz ex
 Etling.
58. S I 84GR00273 *Scutellaria speciosa* Epling
 [MAAS 5962] Peru, Dept.
 San Martin, road Tarapoto-
 Juanjui, Km. 25, dry forest,
 collected from type location.

Limnanthaceae

59. G I 53ZE00858 *Limnanthes douglasii* R.Br.



Fig. 3: *Liriodendron tulipifera* L. a. Flowering branch, $\times \frac{3}{8}$, b. Fruiting "cone", $\times \frac{1}{2}$.

Loasaceae

- | | | | | |
|-----|---|---|-----------|--|
| 60. | G | I | 53ZE00859 | <i>Blumenbachia hieronymi</i> Urb. |
| 61. | S | I | 71ZE00830 | <i>Caiophora hibiscifolia</i> (Griseb.) Urb. & Gilg [HAWK 3692] Argentina, Prov. Salta, Dept. Capital/Quebrada de San Lorenzo, rainforest Alt.: 1500m. |
| 62. | G | I | 54ZE02173 | <i>Caiophora lateritia</i> (W.J.Hook.) Klotzsch |
| 63. | G | I | 53ZE00862 | <i>Loasa triphylla</i> Juss. var. <i>vulcanica</i> (Andre) Urb. & Gilg |

Magnoliaceae

- | | | | | |
|-----|---|---|-----------|---|
| 64. | G | I | 00ZG00099 | <i>Liriodendron tulipifera</i> L. |
| 65. | G | I | 00ZG01142 | <i>Magnolia hypoleuca</i> Sieb. & Zucc. |
| 66. | G | I | 65RD00047 | <i>Magnolia tripetala</i> (L.) L. |
| 67. | G | I | 00ZG01144 | <i>Magnolia virginiana</i> L. |

Malvaceae

- | | | | | |
|-----|---|---|-----------|--|
| 68. | G | I | 63ZE00846 | <i>Anoda cristata</i> (L.) Schlechtend. |
| 69. | S | I | 80ZS00010 | <i>Malva moschata</i> L. France, Chaffois (Doubs), bord de route sol calcaire, expo ensolle, Alt.: 850m. |
| 70. | G | I | 73ZS00033 | <i>Sidalcea neomexicana</i> A.Gray var. <i>parviflora</i> (Greene) Roush |

Myrtaceae

- | | | | | |
|-----|---|---|-----------|--|
| 71. | G | I | 75GR00144 | <i>Syzygium paniculatum</i> Banks ex Gaertn. |
|-----|---|---|-----------|--|

Onagraceae

72. G I 53ZE00879 *Godetia purpurea* (Curt.)
G. Don

Paeoniaceae

73. G I 67BL00273 *Paeonia mlokosewitschii*
Lomak.

Papaveraceae

74. G I 68ZE02407 *Dicranostigma leptopodium*
(Maxim.) Fedde
75. G I 64BL00209 *Meconopsis betonicifolia*
Franch.

Phytolaccaceae

76. G I 72ZS00029 *Phytolacca clavigera* W.W.Sm.

Pinaceae

77. G I 00ZG00916 *Pseudolarix amabilis* (A.Nels.)
Rehd.

Plumbaginaceae

78. S I 77ZS00007 *Armeria maritima* (Mill.)
Willd. s.l. Sweden, Hallands
Vdero, Skne.
79. G I 75ZE00620 *Psylliostachys suvorovii*
(Regel) Roshk.

Polemoniaceae

80. G I 55ZE00770 *Navarretia squarrosa*
(Eschsch.) W.J.Hook. & Arn.

Polygonaceae

81. G I 72ZS00035 *Polygonum capitatum*
Buch.-Ham. ex D.Don
82. G I 65ZE00319 *Polygonum orientale* L.

Primulaceae

83. G I 64BL00221 *Primula florindae* F.K.Ward

Ranunculaceae

84. G I 75ZE00311 *Adonis aestivalis* L.
85. G I 61RD00973 *Clematis rehderiana* Craib
86. G I 53ZE00658 *Myosurus minimus* L.

Rosaceae

87. S I 78ZS00010 *Filipendula kamtschatica*
(Pall.) Maxim. USSR,
Sachalin, Juzhnosachalinsk
88. G I 71RD00024 *Spiraea japonica* L.f. var.
fortunei (Planch.) Rehd.

Rutaceae

89. U I 72RD00278 *Zanthoxylum simulans* Hance

Saxifragaceae

90. S I 78BL00473 *Saxifraga fernandi-coburgii*
Kellerer & Suenderm. [CYT
20379] Greece, Gamila Mts.,
near Prissochori, August 2,
1976. Alt.: 1600m

Scrophulariaceae

91. G I 53ZE00754 *Misopates orontium* (L.) Raf.
92. G I 73ZS00019 *Penstemon serrulatus* Menz.
ex J.E.Sm.
93. G I 71ZE00811 *Zaluzianskya capensis* (Benth.)
Walp.

Sterculiaceae

94. G I 86GR00046 *Abroma augusta* (L.) L.f.

Styracaceae

95. G I 00ZG00121 *Halesia carolina* L. var. *mollis*
(Lange) Perk.

Symplocaceae

96. G I 00ZG00909 *Symplocos paniculata*
(Thunb.) Miq.

Taxodiaceae

97. G I 00ZG01861 *Sciadopitys verticillata*
(Thunb.) Sieb. & Zucc.

Urticaceae

98. G I 54ZE02481 *Urtica pilulifera* L.

Verbenaceae

99. G I 76GR00299 *Clerodendrum speciosissimum*
Van Geert

Zingiberaceae

100. G I 68GR00016 *Globba marantina* L. (syn.: *G.*
schomburgkii J.D.Hook.)
(bulbils)

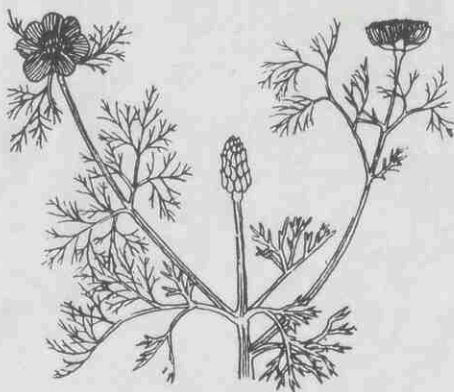


Fig. 4: *Adonis aestivalis* L.

ocr 25635 654

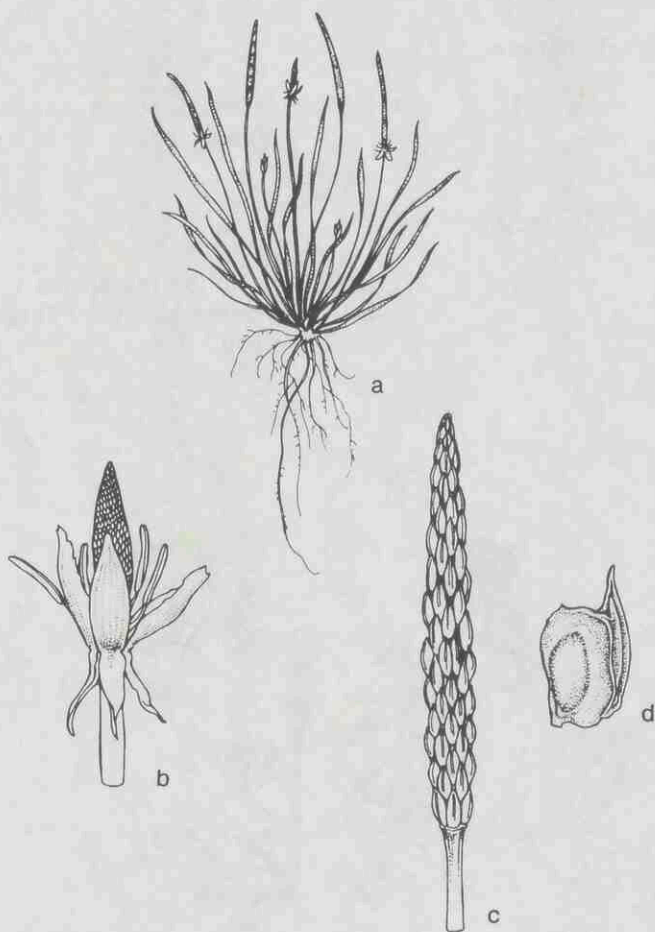


Fig. 5: *Myosurus minimus* L.; a. Habit, $\times\frac{1}{2}$, b. Flower, $\times 4$, c. Fruiting head, $\times 2\frac{1}{2}$, d. Achene, $\times 12\frac{1}{2}$.

INQUIRY ABOUT THE SPECIALIZATIONS OF BOTANIC GARDENS

With this inquiry we hope to establish a co-operation with fellow botanic gardens to further develop our current expertise. Such a co-operation can be mutually advantageous (exchange of expertise, quality material, etc.), and can also be instrumental on reducing unnecessary duplication.

A specialization in the sense used here is a (taxonomic) group, which is given extra attention regarding verification, nomenclature, literature gathered, etc.

We intend a close co-operation with Botanic Gardens with specializations on one or more of the taxa mentioned on the next page. You are kindly requested to fill it out, and return it, even if you are not interested in co-operation, as the information thus gathered is also useful for dutch scientists and scientific institutes. If you indicated that you are interested in co-operation, you will be contacted subsequently.

On the next page you will find a survey of the Utrecht specializations. Other specializations are also of importance, as other Dutch Botanic Gardens may also be interested in such a co-operation. You can keep page 2 of this questionnaire for your own information.

QUESTIONNAIRE

Please circle the correct answer, and return this form only to:

Utrecht Botanic Gardens
P.O. Box 80.162
3508 TD Utrecht
The Netherlands

Name and full address of your institute:

Y/N Does your garden specialize in certain taxa

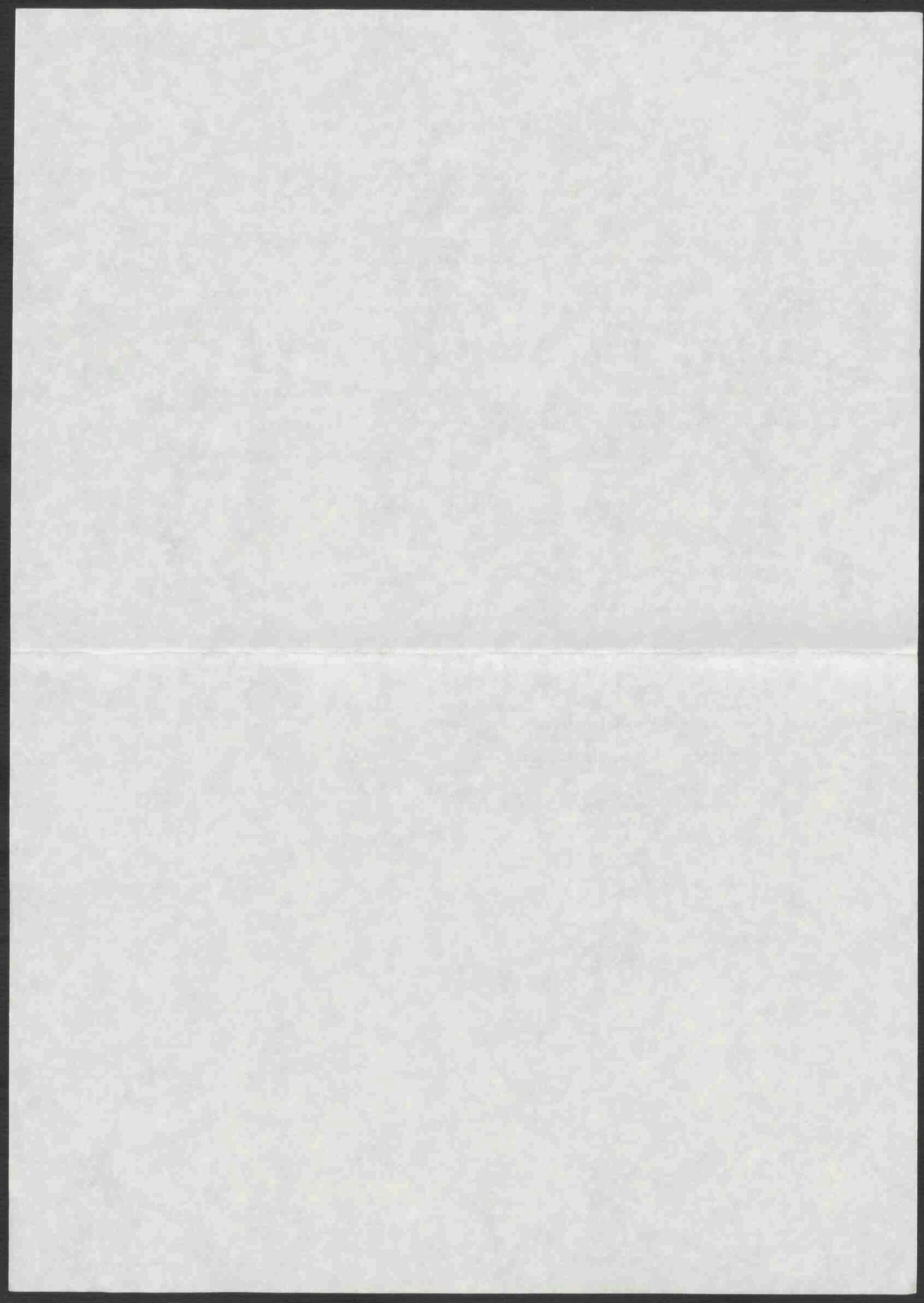
Y/N Are you interested in co-operation in this field?

List your specializations below, and characterize these according to the definitions on the next page (optional).

SPECIALIZATION

CHARACTERIZATION

.	.
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.	.
.	.
.	.



The Botanic Gardens of Utrecht are developing the following specializations:

Research collections:

- Annonaceae (rsc,ib)
- Flora of the Guianas (rsc)
- Lactiferous plants: (rsc)
 - Euphorbia (id)
 - Hoya (id)

Garden specializations:

- Alpinous plants (ib,fp)
- selected woodland plants (Arisaema, Arisarum, Penstemon & Trillium (id,fi))
- Flora of the Guianas
 - Gesneriaceae (ib,fp)
 - Orchidaceae (ib,fp)
 - Zingiberaceae (ib,ref)
- Conifers (ib,fp)
 - Tsuga (id,fi)
- Broad-leaved hardy trees and shrubs:
 - Aceraceae (ib,fi)
 - Betulaceae (ib,fi)
 - Betula (id,fi)
 - Ericaceae (ib,fp)
 - Euonymus (id,fi)
 - Laburnum (id,fi)
 - Magnolia (ib,fi)
 - Oleaceae p.p.:
 - Fraxinus (ib,fi)
 - Syringa (ib,fi)

Definitions:

research collections

research collections are scientifically supported by the scientists working on that group, therefor the composition of this collection is not (solely) determined by Garden policy.

- rsc research collection: collection for scientific (usually taxonomic) purposes. Such a collection can turn into a reference collection after the (taxonomic) research has been terminated.
- ref reference collection: a well-documented specialization to which scientific publications preferably refer. Practically all material has been identified and the nomenclature is correct.

Garden specializations

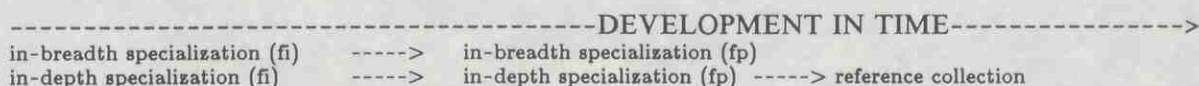
These specialisations are given two qualifications, one stating the stage of development which the collection has reached so far, and one stating the nature of the specialization:

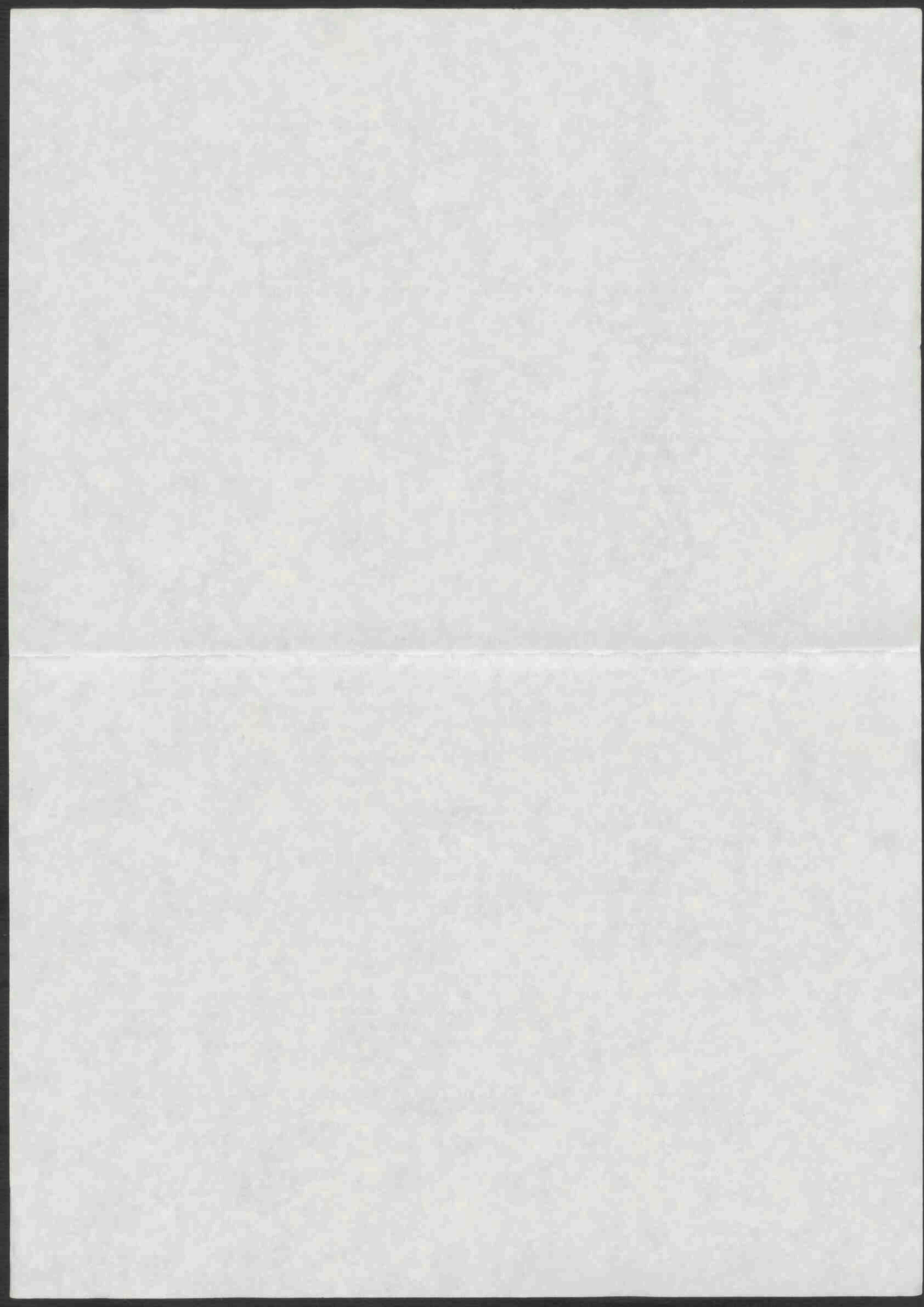
-stage of development:

- fi field of interest: phase of building up, implicating a strong accent on introduction and study.
- fp Focal-point collection: phase of maturity, implicating a strong accent on maintenance and publication.

-nature of the specialization:

- ib in-breadth specialization: collection covering a relatively large group, e.g. a family, xerophytes, conifers, being a representative collection of such a group.
- id in-depth specialization: collection covering a small, sharply defined group, such as a genus or part of one, aimed at reaching a large amount of completeness, including diversity within the species. Such a specialization can result in a reference collection.





VWM1323 de 32

Please return this list, not the
catalogue with the numbers you
wish to receive duly marked to:

University Botanic Gardens
P.O. Box 80.162
3508 TD Utrecht
The Netherlands
tel.: 030 - 531826

(Your address)

1	21	41	61	81	101	121
2	22	42	62	82	102	122
3	23	43	63	83	103	123
4	24	44	64	84	104	124
5	25	45	65	85	105	125
6	26	46	66	86	106	126
7	27	47	67	87	107	127
8	28	48	68	88	108	128
9	29	49	69	89	109	129
10	30	50	70	90	110	130
11	31	51	71	91	111	131
12	32	52	72	92	112	132
13	33	53	73	93	113	133
14	34	54	74	94	114	134
15	35	55	75	95	115	135
16	36	56	76	96	116	136
17	37	57	77	97	117	137
18	38	58	78	98	118	138
19	39	59	79	99	119	139
20	40	60	80	100	120	140

the book is a very good one, and it is a pleasure to read it.

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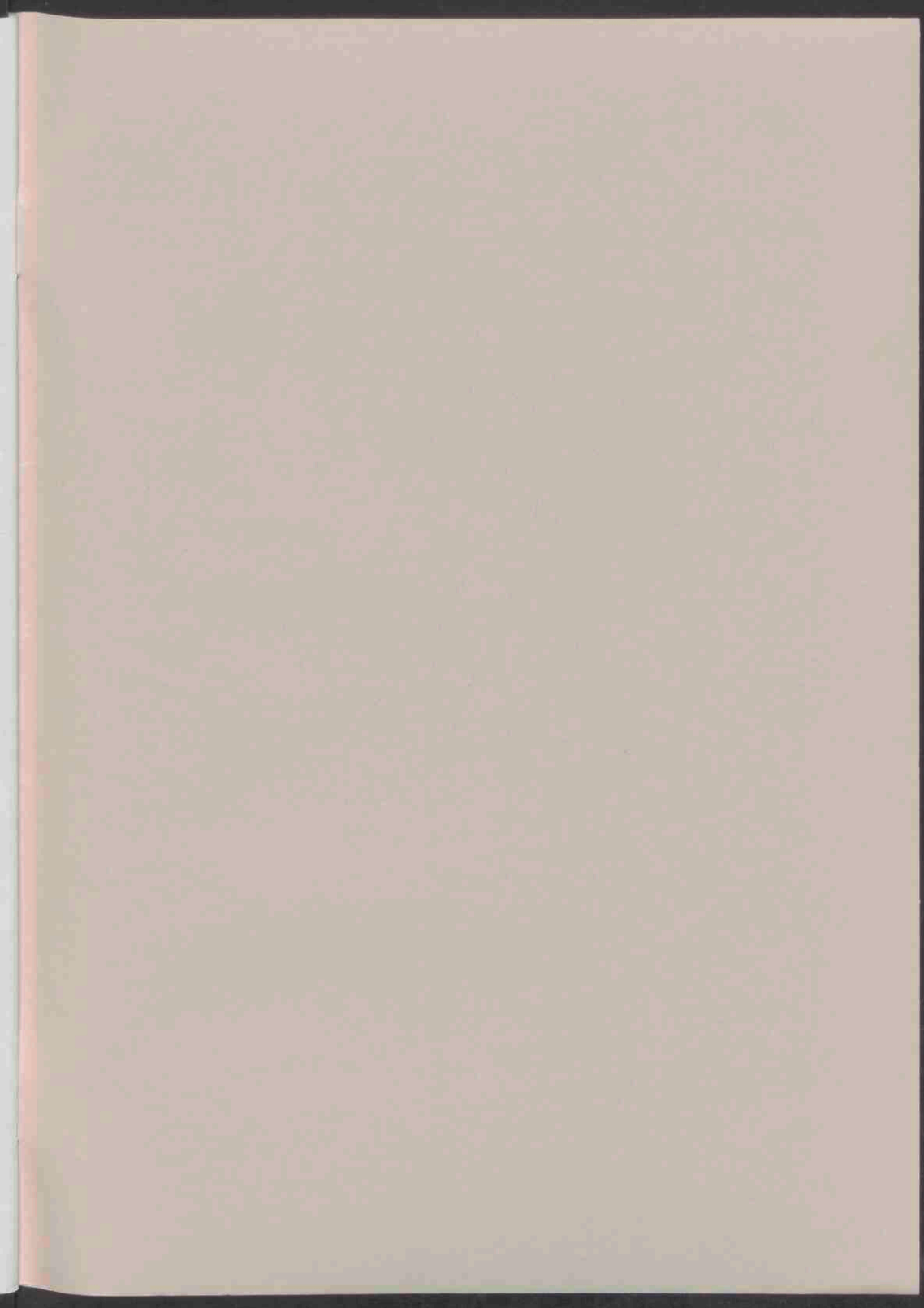
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In 1991 the Utrecht University celebrates her 355th anniversary.