



UNIVERSITY OF BERGEN

**Index Seminum
2022**



Kalmia procumbens
Photo: Torsten Eriksson, UiB ©

**The University Gardens
University of Bergen
Norway**

The Bergen University Gardens' Index Seminum includes separate lists for spontaneous and garden-origin accessions. This year, we offer wild-collected seeds from different localities in Norway.

We conducted the work under permits issued by the pertinent government authorities and documented our field observations in iNaturalist, these are presented in a separate project: <https://www.inaturalist.org/projects/bergen-irisbg-export>.

In response to the International Convention on Biological Diversity, the seeds are supplied to other botanical gardens and research institutions on the following conditions:

1) The seeds will be used for the common good in the areas of research, education, conservation, and the development of botanical gardens.

2) Information on the material will be appropriately stored and the connection between the information and the material will be maintained.

3) If scientific publications are produced on the plant material provided, the origin of the material must be cited. In addition, the garden would expect to receive a copy of these publications.

4) Permission must be sought from the garden if the recipient seeks to commercialize either the genetic material, its products or research derived from it. Such commercialization will be subject to the conditions of a separate agreement with the country of origin.

5) In case of material becoming invasive in the recipient's region, the garden takes no responsibility for the consequences.

Please note that all seeds are the result of open pollination.

Nomenclature

The nomenclature in the Index Seminum is mainly based on:

Roskov Y., Ower G., Orrell T., Nicolson D., Bailly N., Kirk P.M., Bourgoin T., DeWalt R.E., Decock W., van Nieukerken E.J., Penev L. (eds.) Catalogue of Life. Digital resource at www.catalogueoflife.org. Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-8858.

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Desiderata

Orders can be placed online or by e-mail until March 1st 2022.

We will prioritize online orders, and each order is limited to 30 numbers.

Online: <https://uib.indexseminum.org/>

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Else Jorunn Melstokkå	Gardener, in charge of the Nursery
Hilde M. Moen Selstø	Gardener, in charge of the Museum Garden

Index Seminar 2022

The University Gardens
University of Bergen
Norway

Each order is limited to 30 numbers
Orders can be placed until 2022-03-01
Contact: indexseminum@uib.no

Part 1 Collected from spontaneous plants

Seeds from wild or naturalized plants

Adoxaceae

1 *Viburnum opulus* L.

Norway: Sogn og Fjordane, Luster, Kvåle, Dalsøyri, 35 m, 61.4464° | 7.4656° (WGS84). 2020-09-15. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

Apiaceae

2 *Angelica archangelica* L.

Norway: Hordaland, Eidfjord, Isdalen, 740 m, 60.4247383333° | 7.2592533333° (WGS84). 2021-09-27. Moe, B. Prov: Wild.

Asparagaceae

3 *Polygonatum verticillatum* All.

Norway: Oppland, Jevnaker, Rostedbekken, 400 m, 60.2769508128° | 10.4613014683° (WGS84). 2021-09-08. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Asteraceae

4 *Antennaria alpina* (L.) Gaertn.

Norway: Oppland, Lesja, Grønhøi, 1590 m, 62.0286688531° | 8.9274128526° (WGS84). 2021-09-05. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

5 *Omalotheca norvegica* (Gunnerus) Sch.Bip. & F.W.Sch

Norway: Hordaland, Eidfjord, Gryteskar, 930 m, 60.438° | 7.2899° (WGS84). 2020-10-11. B.Moe. Prov: Wild. Det. by taxonomist.

6 *Omalotheca norvegica* (Gunnerus) Sch.Bip. & F.W.Sch

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.43328° | 7.2718166667° (WGS84). 2021-09-26. Moe, B. Prov: Wild.

7 *Omalotheca supina* (L.) DC.

Norway: Oppland, Lesja, Grønhøi, 1290 m, 62.0241137939° | 8.9442953467° (WGS84). 2021-09-05. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

8 *Omalotheca sylvatica* (L.) Sch.Bip. & F.W.Schultz

Norway: Sogn og Fjordane, Flora, Sandvika, 30 m, 61.597° | 5.256° (WGS84). 2020-10-01. B.Moe. Prov: Wild. Det. by taxonomist.

9 *Saussurea alpina* DC.

Norway: Oppland, Lom, W of Bøvertun, 990 m, 61.654682045° | 8.117415905° (WGS84). 2021-09-03. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

10 *Saussurea alpina* DC.

Norway: Oppland, Etnedal, Stuttlia, 660 m, 60.9137224849° | 9.7935953736° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Betulaceae

11 *Betula nana* L.

Norway: Hordaland, Eidfjord, Isdalstølen, 1180 m, 60.4589883333° | 7.2869116667° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

Brassicaceae

12 *Arabidopsis lyrata* subsp. *petraea* (L.) O'Kane & Al-Shehbaz

Norway: Oppland, Lom, Bøverdalen, 530 m, 61.7625104001° | 8.4117414057° (WGS84). 2021-09-04. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

13 *Braya linearis* Rouy

Norway: Oppland, Lom, Bøvertun, 1000 m, 61.6806963604° | 8.0725778419° (WGS84). 2021-09-03. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

14 *Cakile maritima* Scop.

Norway: Sogn og Fjordane, Vågsøy, Refvika, 0 m, 62.002° | 5.0797° (WGS84). 2020-09-29. B.Moe. Prov: Wild. Det. by taxonomist.

Campanulaceae

15 *Campanula latifolia* L.

Norway: Sogn og Fjordane, Luster, Dalsøyri, Kvåle, 35 m, 61.4461° | 7.4656° (WGS84). 2020-09-15. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

16 *Campanula latifolia* L.

Norway: Hordaland, Eidfjord, Måbødalen, 460 m, 60.4264966667° | 7.2285283333° (WGS84). 2021-09-27. Moe, B. Prov: Wild.

Caprifoliaceae

17 *Linnaea borealis* L.

Norway: Hordaland, Eidfjord, Måbødalen, 440 m, 60.4247833333° | 7.2164883333° (WGS84). 2021-09-27. Moe, B. Prov: Wild.

18 *Lonicera periclymenum* L.

Norway: Sogn og Fjordane, Eid, Åsevika, 20 m, 61.851° | 6.1247° (WGS84). 2020-09-30. B.Moe. Prov: Wild. Det. by taxonomist.

Caryophyllaceae

19 *Silene acaulis* (L.) Jacq.

Norway: Hordaland, Eidfjord, Svolnos, 1220 m, 60.4714° | 7.2893° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

20 *Silene acaulis* (L.) Jacq.

Norway: Oppland, Lom, Bøvertun, 1000 m, 61.6417486727° | 8.0606868491° (WGS84). 2021-09-03. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

21 *Silene acaulis* (L.) Jacq.

Norway: Oppland, Lesja, Grønhøi, 1370 m, 62.0228459495° | 8.9374956116° (WGS84). 2021-09-05. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

22 *Silene suecica* (Lodd.) Greuter & Burdet

Norway: Hordaland, Eidfjord, Berakupen, 1440 m, 60.3488° | 7.2432° (WGS84). 2020-09-19.
B.Moe. Prov: Wild. Det. by taxonomist.

Celastraceae

23 *Parnassia palustris* L.

Norway: Oppland, Etnedal, Stuttlii, 660 m, 60.9136333312° | 9.7934595868° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Cornaceae

24 *Cornus suecica* L.

Norway: Hordaland, Kvam, Steinskvanndalen, 505 m, 60.3846° | 6.0079° (WGS84). 2020-09-16. B.Oma. Prov: Wild. Det. by comparison.

25 *Cornus suecica* L.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.3638283333° | 5.407725° (WGS84). 2021-09-19. Moe, B. Prov: Wild.

Crassulaceae

26 *Rhodiola rosea* L.

Norway: Sogn og Fjordane, Flora, Rindemyr, Reksta, 20 m, 61.566° | 4.8075° (WGS84). 2020-08-25. H.L.Andersen, B.Moe, N.Persson. Prov: Wild. Det. by taxonomist.

27 *Rhodiola rosea* L.

Norway: Hordaland, Eidfjord, Måbødalen, 420 m, 60.4236833333° | 7.2127466667° (WGS84). 2021-09-27. Moe, B. Prov: Wild.

28 *Sedum album* Raf.

Norway: Hordaland, Eidfjord, Måbødalen, 350 m, 60.4222° | 7.2033° (WGS84). 2020-09-21.
B.Moe. Prov: Wild. Det. by taxonomist.

Cyperaceae

29 *Carex atrata* L.

Norway: Hordaland, Eidfjord, Måbødalen, 475 m, 60.4266° | 7.2282° (WGS84). 2020-09-21.
B.Moe. Prov: Wild. Det. by taxonomist.

30 *Carex atrata* L.

Norway: Hordaland, Eidfjord, Måbødalen, 460 m, 60.424775° | 7.2164783333° (WGS84). 2021-09-27. Moe, B. Prov: Wild.

31 *Eriophorum latifolium* Hoppe

Norway: Oppland, Etnedal, Stuttlii, 650 m, 60.9135546084° | 9.7932604328° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

32 *Eriophorum scheuchzeri* Hoppe

Norway: Hordaland, Eidfjord, Svolnos, 1190 m, 60.4729° | 7.2963° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

33 *Eriophorum scheuchzeri* Hoppe

Norway: Hordaland, Eidfjord, Vetle Ishaug, 1060 m, 60.4571033333° | 7.2584533333° (WGS84). 2021-09-26. Moe, B. Prov: Wild.

34 *Rhynchospora fusca* (L.) W.T.Aiton

Norway: Hordaland, Kvinnherad, Ølve, 85 m, 59.9981° | 5.8476° (WGS84). 2020-10-07. B.Moe. Prov: Wild. Det. by taxonomist.

Diapensiaceae

35 *Diapensia lapponica* L.

Norway: Oppland, Lesja, Grønhøi, 1445 m, 62.0230554519° | 8.9328895882° (WGS84). 2021-09-05. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Droseraceae

36 *Drosera anglica* Huds.

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.4401666667° | 7.2763716667° (WGS84). 2021-09-28. Moe, B. Prov: Wild.

37 *Drosera rotundifolia* L.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.37517° | 5.3967033333° (WGS84). 2021-09-19. Moe, B. Prov: Wild.

Ericaceae

38 *Andromeda polifolia* L.

Norway: Hordaland, Eidfjord, Isdalen, 720 m, 60.4393° | 7.2762° (WGS84). 2020-10-11. B.Moe. Prov: Wild. Det. by taxonomist.

- 39** *Andromeda polifolia* L.
Norway: Hordaland, Eidfjord, Isdalen, 850 m, 60.4414783333° | 7.26753° (WGS84). 2021-09-26. Moe, B. Prov: Wild.
- 40** *Arctostaphylos uva-ursi* (L.) Spreng.
Norway: Oppland, Lom, Breidstulen, 850 m, 61.9386946071° | 8.8614499569° (WGS84). 2021-09-04. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.
- 41** *Arctous alpina* (L.) Nied.
Norway: Sogn og Fjordane, Vik, Vassdalane, Vikafjellet, 965 m, 60.9969° | 6.5463° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.
- 42** *Arctous alpina* (L.) Nied.
Norway: Hordaland, Eidfjord, N of Isdalstølen, 1100 m, 60.4664216667° | 7.2744133333° (WGS84). 2021-09-25. Moe, B. Prov: Wild.
- 43** *Erica tetralix* L.
Norway: Hordaland, Bergen, Trengereid, 200 m, 60.4276° | 5.6349° (WGS84). 2020-10-03. Reidun Samuelsen. Prov: Wild. Det. by comparison.
- 44** *Harrimanella hypnoides* (L.) Coville
Norway: Sogn og Fjordane, Vik, Vassdalane, Vikafjellet, 945 m, 60.9986° | 6.5456° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.
- 45** *Harrimanella hypnoides* (L.) Coville
Norway: Oppland, Lesja, Grønhøi, 1370 m, 62.0228781929° | 8.937731646° (WGS84). 2021-09-05. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.
- 46** *Kalmia procumbens* (L.) Gift, Kron & P.F.Stevens
Norway: Sogn og Fjordane, Vik, Vassdalane, Vikafjellet, 965 m, 60.9979° | 6.5462° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.
- 47** *Kalmia procumbens* (L.) Gift, Kron & P.F.Stevens
Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.4671716667° | 7.2928033333° (WGS84). 2021-09-25. Moe, B. Prov: Wild.
- 48** *Moneses uniflora* A.Gray
Norway: Oppland, Etnedal, Stuttlia, 600 m, 60.9160236079° | 9.7731103376° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

49 *Monotropa hypopitys* L.

Norway: Hordaland, Ålvik, Ålvikvegen, 45 m, 60.4040366667° | 6.3485283333° (WGS84). 2021-10-24. Moe, B. Prov: Wild.

50 *Orthilia secunda* (L.) House

Norway: Hordaland, Eidfjord, Måbødalen, 410 m, 60.4258° | 7.2199° (WGS84). 2020-09-21. B.Moe. Prov: Wild. Det. by taxonomist.

51 *Orthilia secunda* (L.) House

Norway: Oppland, Etnedal, Stuttlii, 600 m, 60.9160669591° | 9.7731421888° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

52 *Phyllodoce caerulea* (L.) Bab.

Norway: Hordaland, Eidfjord, Isdalstølen, 970 m, 60.4618° | 7.2866° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

53 *Phyllodoce caerulea* (L.) Bab.

Norway: Oppland, Lesja, Grønhøi, 1180 m, 62.0441099953° | 8.9632374421° (WGS84). 2021-09-05. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

54 *Pyrola minor* Gilib. ex DC.

Norway: Hordaland, Eidfjord, Gryteskar, 930 m, 60.438° | 7.2899° (WGS84). 2020-10-11. B.Moe. Prov: Wild. Det. by taxonomist.

55 *Pyrola minor* Gilib. ex DC.

Norway: Oppland, Etnedal, Stuttlii, 610 m, 60.916048706° | 9.7730526701° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

56 *Vaccinium microcarpum* (Turcz. ex Rupr.) Schmalh.

Norway: Oppland, Etnedal, Stuttlii, 660 m, 60.9136150766° | 9.7932416573° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Fabaceae

57 *Astragalus alpinus* E.H.L.Krause

Norway: Hordaland, Eidfjord, Måbødalen, 330 m, 60.4225° | 7.2038° (WGS84). 2020-09-21. B.Moe. Prov: Wild. Det. by taxonomist.

58 *Astragalus alpinus* E.H.L.Krause

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.4698366667° | 7.2795666667° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

59 *Astragalus glycyphyllos* L.

Norway: Sogn og Fjordane, Lærdal, Øvre Ljøsne, 125 m, 61.0484° | 7.6249° (WGS84). 2020-09-13. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

60 *Lathyrus niger* (L.) Bernh.

Norway: Sogn og Fjordane, Sogndal, Stedjeberget, 20 m, 61.2085° | 7.0722° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

61 *Lathyrus sylvestris* L.

Norway: Sogn og Fjordane, Sogndal, Stedjeberget, 20 m, 61.2084° | 7.0684° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

62 *Lathyrus sylvestris* L.

Norway: Hordaland, Eidfjord, Hereidsvegen, 100 m, 60.4690533333° | 7.0799528333° (WGS84). 2021-10-21. Moe, B. Prov: Wild.

63 *Oxytropis lapponica* Gaudin

Norway: Oppland, Lom, SW of Bøvertun, 970 m, 61.6458120008° | 8.1040430814° (WGS84). 2021-09-03. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

64 *Trifolium aureum*

Norway: Sogn og Fjordane, Sogndal, Stedjeberget, 20 m, 61.2084° | 7.0693° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

Gentianaceae

65 *Gentiana nivalis* Poir.

Norway: Hordaland, Eidfjord, Svolnos, 1220 m, 60.4714° | 7.2893° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

66 *Gentiana nivalis* Poir.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.4700283333° | 7.2788466667° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

67 *Gentianella amarella* (L.) Harry Sm.

Norway: Oppland, Lom, SW of Bøvertun, 1000 m, 61.6457725119° | 8.1040169299° (WGS84). 2021-09-03. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Geraniaceae

68 *Geranium sylvaticum* Ucria

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.4503783333° | 7.280575° (WGS84). 2021-09-28. Moe, B. Prov: Wild.

Hypericaceae

69 *Hypericum pulchrum* L.

Norway: Sogn og Fjordane, Høyanger, Hellebø, 18 m, 61.0865° | 5.4563° (WGS84). 2020-08-24. H.L.Andersen, B.Moe, N.Persson. Prov: Wild. Det. by taxonomist.

Juncaceae

70 *Juncus castaneus* Sm.

Norway: Hordaland, Eidfjord, Isdalen, Rjuperusti, 1020 m, 60.4364° | 7.2726° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

71 *Juncus castaneus* Sm.

Norway: Hordaland, Eidfjord, N of Isdalstølen, 980 m, 60.4647416667° | 7.2758033333° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

Lentibulariaceae

72 *Pinguicula vulgaris* L.

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.43328° | 7.271755° (WGS84). 2021-09-26. Moe, B. Prov: Wild.

Melanthiaceae

73 *Paris quadrifolia* L.

Norway: Oppland, Jevnaker, Rostedbekken, 350 m, 60.2922896537° | 10.4844130576° (WGS84). 2021-09-08. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Myricaceae

74 *Myrica gale* L.

Norway: Hordaland, Kvinnherad, Ølve, 85 m, 59.9985° | 5.8484° (WGS84). 2020-10-07. B.Moe. Prov: Wild. Det. by taxonomist.

Orobanchaceae

75 *Bartsia alpina* L.

Norway: Hordaland, Eidfjord, Isdalen, 820 m, 60.4399° | 7.2739° (WGS84). 2020-09-18.
B.Moe. Prov: Wild. Det. by taxonomist.

76 *Bartsia alpina* L.

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.4332883333° | 7.27183° (WGS84). 2021-09-28. Moe, B. Prov: Wild.

77 *Pedicularis lapponica* L.

Norway: Hordaland, Eidfjord, Berakupen, 1410 m, 60.3495° | 7.2377° (WGS84). 2020-09-19.
B.Moe. Prov: Wild. Det. by taxonomist.

Plantaginaceae

78 *Plantago lanceolata* Hook.

Norway: Hordaland, Bergen, Søre Skulstad, 260 m, 60.4251° | 5.6413° (WGS84). 2020-09-01.
R.Samuelsen. Prov: Wild. Det. by comparison.

79 *Veronica alpina* L.

Norway: Hordaland, Eidfjord, Isdalen, Rjuperusti, 1020 m, 60.4658° | 7.2882° (WGS84).
2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

80 *Veronica alpina* L.

Norway: Hordaland, Eidfjord, Rjuperusti, 1050 m, 60.467755° | 7.2918616667° (WGS84).
2021-09-25. Moe, B. Prov: Wild.

81 *Veronica fruticans* Jacq.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.469855° | 7.2791883333° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

Poaceae

82 *Leymus arenarius* (L.) Hochst.

Norway: Sogn og Fjordane, Flora, Sandøya, 1 m, 61.5519° | 4.7658° (WGS84). 2020-08-24.
H.L.Andersen, B.Moe, N.Persson. Prov: Wild. Det. by taxonomist.

Primulaceae

83 *Lysimachia europaea* (L.) U.Manns & Anderb.

Norway: Sogn og Fjordane, Luster, Aspamo, Jostedalene, 30 m, 61.4391° | 7.2503° (WGS84). 2020-09-15. T.Eriksson, B.Moe. Prov: Wild. Det. By taxonomist.

84 *Lysimachia europaea* (L.) U.Manns & Anderb.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.3627533333° | 5.394625° (WGS84). 2021-09-19. Moe, B. Prov: Wild.

85 *Primula scandinavica* Brunn

Norway: Sogn og Fjordane, Vik, Vassdalane, Vikafjellet, 960 m, 60.8918° | 6.4149° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. By taxonomist.

Ranunculaceae

86 *Aconitum septentrionale* Koelle

Norway: Hordaland, Eidfjord, Isdalen, 820 m, 60.4339° | 7.2719° (WGS84). 2020-09-18. B.Moe. Prov: Wild. Det. By taxonomist.

87 *Aconitum septentrionale* Koelle

Norway: Oppland, Lom, Bøvertun, 1000 m, 61.641614265° | 8.0599049851° (WGS84). 2021-09-03. Moe, B., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

88 *Ranunculus pygmaeus* Wahlenb.

Norway: Hordaland, Eidfjord, Berakupen, 1470 m, 60.3506° | 7.2451° (WGS84). 2020-09-19. B.Moe. Prov: Wild. Det. By taxonomist.

89 *Thalictrum alpinum* L.

Norway: Hordaland, Eidfjord, Isdalen, Rjuperusti, 1020 m, 60.4658° | 7.2882° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. By taxonomist.

90 *Thalictrum alpinum* L.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.470028° | 7.278847° (WGS84). 2021-10-06. Moe, B. Prov: Wild.

91 *Thalictrum flavum*

Norway: Oppland, Gran, Hovstjern, 250 m, 60.3574414955° | 10.5671561882° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

92 *Trollius europaeus* L.

Norway: Oppland, Etnedal, Stuttlia, 670 m, 60.9136704922° | 9.7940929234° (WGS84). 2021-09-09. Moe, B., Eriksson, L.T., Helmers Øvrebø, S.-E., Pirie, M.D. Prov: Wild.

Rhamnaceae

93 *Frangula alnus* Mill.

Norway: Hordaland, Bergen, Mildevegen, 25 m, 60.2573466667° | 5.269975° (WGS84). 2021-11-01. Moe, B. Prov: Wild.

Rosaceae

94 *Dryas octopetala* L.

Norway: Hordaland, Eidfjord, Berakupen, 1440 m, 60.3488° | 7.2432° (WGS84). 2020-09-19. B.Moe. Prov: Wild. Det. by taxonomist.

95 *Geum rivale* Bourg. ex Nyman

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.4501616667° | 7.279995° (WGS84). 2021-09-28. Moe, B. Prov: Wild.

96 *Rubus chamaemorus* Fisch. ex DC.

Norway: Hordaland, Eidfjord, Isdalstølen, 1040 m, 60.4686° | 7.3001° (WGS84). 2020-09-20. B.Moe. Prov: Wild. Det. by taxonomist.

97 *Sibbaldia procumbens* L.

Norway: Sogn og Fjordane, Vik, Vassdalane, Vikafjellet, 960 m, 60.9987° | 6.5456° (WGS84). 2020-09-16. T.Eriksson, B.Moe. Prov: Wild. Det. by taxonomist.

98 *Sibbaldia procumbens* L.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.469955° | 7.2830633333° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

Salicaceae

99 *Salix herbacea* L.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.4711333333° | 7.2844883333° (WGS84). 2021-09-25. Moe, B. Prov: Wild.

100 *Salix reticulata* L.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.4697883333° | 7.2795166667° (WGS84).
2021-09-25. Moe, B. Prov: Wild.

Saxifragaceae

101 *Micranthes tenuis*

Norway: Hordaland, Eidfjord, Svolnos, 1280 m, 60.4731° | 7.2914° (WGS84). 2020-09-20.
B.Moe. Prov: Wild. Det. by taxonomist.

102 *Saxifraga aizoides* L.

Norway: Hordaland, Eidfjord, Måbødalen, 475 m, 60.4266° | 7.2282° (WGS84). 2020-09-21.
B.Moe. Prov: Wild. Det. by taxonomist.

103 *Saxifraga aizoides* L.

Norway: Hordaland, Eidfjord, Måbødalen, 460 m, 60.4268716667° | 7.230605° (WGS84).
2021-09-27. Moe, B. Prov: Wild.

104 *Saxifraga cespitosa* Scop.

Norway: Hordaland, Eidfjord, Svolnos, 1180 m, 60.4701283333° | 7.282195° (WGS84). 2021-
09-25. Moe, B. Prov: Wild.

105 *Saxifraga cotyledon* L.

Norway: Hordaland, Eidfjord, Måbødalen, 350 m, 60.4222° | 7.2033° (WGS84). 2020-09-21.
B.Moe. Prov: Wild. Det. by taxonomist.

106 *Saxifraga cotyledon* L.

Norway: Hordaland, Eidfjord, Måbødalen, 400 m, 60.421145° | 7.2011166667° (WGS84).
2021-09-27. Moe, B. Prov: Wild.

Scheuchzeriaceae

107 *Scheuchzeria palustris* L.

Norway: Hordaland, Kvinnherad, Ølve, 85 m, 59.9992° | 5.8458° (WGS84). 2020-10-07.
B.Moe. Prov: Wild. Det. by taxonomist.

108 *Scheuchzeria palustris* L.

Norway: Hordaland, Eidfjord, Isdalen, 860 m, 60.4454383333° | 7.2752366667° (WGS84).
2021-09-28. Moe, B. Prov: Wild.

Tofieldiaceae

109 *Tofieldia pusilla* Pers.

Norway: Hordaland, Eidfjord, Grytehoggi, 1140 m, 60.428° | 7.3027° (WGS84). 2020-10-11.
B.Moe. Prov: Wild. Det. by taxonomist.

110 *Tofieldia pusilla* Pers.

Norway: Hordaland, Eidfjord, Rjuperusti, 1180 m, 60.4666133333° | 7.2909283333°
(WGS84). 2021-09-25. Moe, B. Prov: Wild.

Typhaceae

111 *Sparganium natans* L.

Norway: Hordaland, Kvinnherad, Ølve, 85 m, 59.9977° | 5.8477° (WGS84). 2020-10-07.
B.Moe. Prov: Wild. Det. by taxonomist.

Part 2

Collected in the Arboretum

Seeds result from open pollination

Alstroemeriaceae

112 *Alstroemeria aurea* Graham

2020-09-28. Acc: W-2000.1314, ARG: Tierra del Fuego Province, Ushuaia. Ingjerd og Tor
Høie; no. SB 830218.2. Det. by taxonomist.

Araliaceae

113 *Aralia elata* (Miq.) Seem.

2021-10-04. Acc: W-1977.1513, JPN: Honshu, Tateyama, 1100 m. Find Günther Christensen;
no. C 142. Det. by taxonomist.

114 *Kalopanax septemlobus* Koidz.

2021-12-09. Acc: W-1972.1135, JPN: Hokkaido Prefecture, Yamabe. Takahashi 61; no. A 114.
Det. by taxonomist.

Asteraceae

115 *Chiliodendron diffusum* (G.Forst.) Kuntze

2021-08-27. Acc: W-2000.1003, CHL: Capitan Prat, Aysén, Cordón de Villa O'Higgins N of Rio Mosco, 700 m. 2000-02-04. Per Harald Salvesen; no. PHS2000.046. Det. by taxonomist.

116 *Chiliodendron rosmarinifolium* Less.

2021-08-27. Acc: W-2000.0730, CHL: Los Lagos, Palena, Cerro Sin Fin above Futaleufú, 1100 m, 43° 10' S | 071° 51' W. 2000-02-15. Per Harald Salvesen & Brynjulv Litlere; no. PHS2000.100. Det. by taxonomist.

Celastraceae

117 *Euonymus sachalinensis* Maxim.

2021-09-20. Acc: W-1983.0036, KOR: Mt. Jiri. 1982. Det. by taxonomist.

118 *Tripterygium wilfordii* Hook.f.

2021-10-18. Acc: W-1977.2230, KOR: Kyebang-san, Taegi-san, S-slope, 850 m, 37° 35' N - 128° 18' E. 1976-09-10. Nordisk Arboret Utvalg (NAU); no. 188. Det. by taxonomist.

Cercidiphyllaceae

119 *Cercidiphyllum magnificum* Nakai

2021-11-01. Acc: W-1977.1183, JPN: Honshu, Nikko, 2000 m, 36° 47' N | 139° 28' E. Rune Bengtsson; no. B 183. Det. by taxonomist.

Cornaceae

120 *Cornus alternifolia* L.f.

2021-10-11. Acc: Z-1982.0010, USA: Massachusetts, Worcester County, Prospect Hill, Petersham. Søren Ødum; no. 13. Det. by taxonomist.

121 *Cornus controversa* Hemsl.

2021-10-11. Acc: W-1979.0064, KOR: Kyenang-san, Seorak-san, E-slope, exposed SW, 1200 m, 38° 08' N | 128° 29' E. 1976-09-06. Nordisk Arboret Utvalg (NAU); no. 71. Det. by taxonomist.

Ericaceae

122 *Enkianthus campanulatus* (Miq.) G.Nicholson var. *longilobus* (Nakai) Makino

2021-11-01. Acc: W-1977.1564, JPN: Kyushu, Hiko-san, 1000 m. Find Günther Christensen; no. C 193. Det. by taxonomist.

- 123** *Enkianthus cernuus* (Siebold & Zucc.) Makino f. *rubens* (Maxim.) Ohwi
2021-11-01. Acc: W-1977.1356, JPN: Honshu, Odaigahara, 1200 m. 1976. Rune Bengtsson; no. B 356. Det. by taxonomist.
- 124** *Leucothoë grayana* Maxim.
2021-10-18. Acc: W-1977.1804, JPN: Hokkaido Prefecture, Daireku, 1400 m. Magne Sandvik; no. S 86. Det. by taxonomist.
- 125** *Rhododendron albrechtii* Maxim.
2021-10-11. Acc: W-1977.1246, JPN: Honshu, Tateyama, 1600 m. Rune Bengtsson; no. B 246. Det. by taxonomist.
- 126** *Rhododendron mucronulatum* Turcz.
2021-12-09. Acc: W-1979.0126, KOR: Jeju-do, Jeju Island, Mt. Halla, W-slopes towards & including top, 1930 m, 33° 22' N | 126° 31' E. 1976-09-28. Nordisk Arboret Utvalg (NAU); no. 486. Det. by taxonomist.
- 127** *Rhododendron nipponicum* Matsum.
2021-10-18. Acc: W-1977.1878, JPN: Honshu, Tateyama, 1200 m. Magne Sandvik; no. S 162. Det. by taxonomist.
- 128** *Rhododendron quinquefolium* Bisset & S.Moore
2021-12-09. Acc: W-1979.0041, JPN: Honshu, Odaigahara, 1400 m. 1976. Magne Sandvik; no. S 261. Det. by taxonomist.
- 129** *Rhododendron schlippenbachii* Maxim.
2021-12-09. Acc: W-1979.0129, KOR: Kyenang-san, Odae-san, S slope, 900 m, 37° 47' N | 128° 34' E. 1976-09-09. Nordisk Arboret Utvalg (NAU); no. 155. Det. by taxonomist.
- 130** *Rhododendron tschonoskii* Maxim.
2021-10-18. Acc: W-1977.1876, JPN: Honshu, Tateyama, 1600 m. Magne Sandvik; no. S 160. Det. by taxonomist.
- 131** *Vaccinium koreanum* Nakai
2021-08-11. Acc: W-1979.0139, KOR: Seorak-san, top of Seolak-san (Dae-cheong-bong), 1700 m, 38° 07' N | 128° 29' E. 1976-09-05. Nordisk Arboret Utvalg (NAU); no. 35. Det. by taxonomist.

Hamamelidaceae

132 *Corylopsis glabrescens* Franch. & Sav.

2021-11-01. Acc: W-1977.1086, JPN: Honshu, Akasawa, 1200 m. Rune Bengtsson; no. B 86.
Det. by taxonomist.

133 *Hamamelis japonica* Siebold & Zucc.

2021-10-18. Acc: W-1977.1871, JPN: Honshu, Tateyama, 1500 - 1700 m. Magne Sandvik; no. S 155. Det. by taxonomist.

Iridaceae

134 *Crocus vernus* (L.) Hill

Norway: Hordaland, Bergen, Fana Folkehøgskule, 30 m, 60.251711° N | 05.269092° E (WGS84). 2021-06-28. Prov: Garden.

Juglandaceae

135 *Pterocarya rhoifolia* Siebold & Zucc.

2021-10-11. Acc: W-1972.1136, JPN: Akita Prefecture, Oirase. 1960. Murai; no. A 194. Det. by taxonomist.

Magnoliaceae

136 *Magnolia salicifolia* Maxim.

2021-10-18. Acc: W-1977.1510, JPN: Honshu, Tateyama, 1100 m. Find Günther Christensen; no. C 139. Det. by taxonomist.

137 *Magnolia sieboldii* K.Koch

2021-10-18. Acc: W-1979.0141, KOR: Doekyu-san, NE-slope and top, 1500 m, 35° 51' N - 127° 45' E. 1976-09-18. Nordisk Arboret Utvalg (NAU); no. 340. Det. by taxonomist.

Nothofagaceae

138 *Nothofagus antarctica* (Forst.) Ørst.

2021-09-07. Acc: W-1993.1322, ARG: Tierra del Fuego Province, Ea. Tepi, Rt.3A: 4 km S f Rio Grande, 50 m. Søren Ødum; no. Hørsholm 201-92. Det. by taxonomist.

Plantaginaceae

139 *Veronicastrum sibiricum* (L.) Pennell

2021-10-04. Acc: W-1991.0309, JPN: Nagano Prefecture, Chubu Region, Azumi Village, Abotoge. Det. by taxonomist.

Rosaceae

140 *Sorbus albovii* Zinserl.

2021-10-04. Acc: W-1994.0216, RUS: Adygeya, Caucasus, mons Abago, flora localis, 43.9056 | 40.1533. 1979. Det. by taxonomic specialist.

141 *Sorbus bissetii* McAll.

2021-10-04. Acc: Z-1991.1594, CHN: Sichuan Province, Kulu, Muli, 3200 m. T. T. Yu; no. Yu 14299. Det. by taxonomist.

142 *Sorbus eburnea* McAll.

2021-10-04. Acc: Z-1991.1579, CHN: Sikang, Kangting District, Yulinkong, 3000 m. 1934-10-17. Harry Smith; no. 12799. Det. by taxonomist.

143 *Sorbus foliolosa* Spach

2021-10-04. Acc: Z-1996.0094, NPL: Bimtakothi, moraine and rocky hillsides, 3100 m, 28° 38' N | 84° 27' E. 1950-08-27. C. D. Lowndes; no. 1478. Det. by taxonomist.

144 *Sorbus forrestii* McAll. & Gillham

2021-10-11. Acc: Z-1992.0827, CHN: Yunnan Province, Beima Shan, 3048 m. George Forrest; no. F19583. Det. by taxonomist.

145 *Sorbus frutescens* McAll.

2021-10-04. Acc: Z-1991.1607, CHN: Qinghai Province, Quinghai Hu (Kokonor), Koko Gorge. Joseph F. Rock; no. 13268. Det. by taxonomist.

146 *Sorbus glabriuscula* McAll.

2021-10-04. Acc: Z-1991.1589, CHN: Yunnan Province, halfway up Songgui Mountain (Sung Kuei), 26° 30' N | 100° 10' E. McLaren; no. C288. Det. by taxonomist.

147 *Sorbus gonggashanica* McAll.

2021-10-04. Acc: Z-1991.1573, CHN: Sichuan Province, Liuba, Gongga Shan, (Minya Kanka) Liuba. 1981-09. Lancaster. Det. by taxonomist.

148 *Sorbus himalaica* Gabrieljan

2021-10-11. Acc: Z-1991.1613, NPL: Annapurna, Lamjung Himal, 3900 m. Det. by taxonomist.

149 *Sorbus leptophylla* E.F.Warb.

2021-10-04. Acc: Z-1991.1570, GBR: Wales, South Wales, Powys. Recieved as/ Det. by breeder.

150 *Sorbus microphylla* Wenz.

2021-10-04. Acc: W-2004.0658, NPL: 4100 m. Kenneth Höegh. Det. by taxonomic specialist.

151 *Sorbus muliensis* McAll.

2021-12-08. Acc: Z-1985.0213, CHN: Sichuan Province, SW-Sichuan. Mts. SE of Muli, 3000 - 3300 m. George Forrest; no. 22177. Det. by taxonomist.

152 *Sorbus munda* Koehne

2021-10-04. Acc: Z-1991.1591, CHN: Sichuan Province, W-Sichuan, Pan-lan-shan, west of Kwan Hsien, 2600 - 3000 m. Det. by taxonomist.

153 *Sorbus sambucifolia* (Cham. & Schtdl.) M.Roem.

2021-09-13. Acc: W-1977.1851, JPN: Hokkaido Prefecture, Ichimai-dake, 200 m, 42° 02' N - 143° 10' E. 1976. Magne Sandvik; no. S 135. Det. by taxonomist.

154 *Sorbus setschwanensis* (C.K.Schneid.) Koehne

2021-10-15. Acc: Z-1985.0215, CHN: Sichuan Province, Mt. Omei. Lancaster; no. 492. Det. by taxonomist.

155 *Sorbus tenuis* McAll.

2021-10-04. Acc: Z-1991.1627, CHN: Yunnan Province, Kangting District, Cheto La, 3900 m. Harry Smith; no. 12732. Det. by taxonomist.

156 *Sorbus wilmottiana* E.F.Warb.

2021-10-04. Acc: Z-1991.1569, GBR: England, Avon, Avon Gorge. Det. by taxonomist.

Sapindaceae

157 *Acer japonicum* Thunb.

2021-10-04. Acc: W-1977.1817, JPN: Hokkaido Prefecture, Ashibetsu, 600 m. Magne Sandvik; no. S 99. Det. by taxonomic specialist.

158 *Acer micranthum* Siebold & Zucc.

2021-10-18. Acc: W-1977.1971, JPN: Honshu, Odaigahara, 1300 m. 1976. Magne Sandvik; no. S 254. Det. by taxonomic specialist.

159 *Acer shirasawanum* Koidz.

2021-10-18. Acc: W-1977.1166, JPN: Honshu, Nikko, 1400 m. Rune Bengtsson; no. B 166. Det. by taxonomic specialist.

160 *Acer tschonoskii* Maxim. subsp. *australe* (Momot.) Kitam. & Murata

2021-10-04. Acc: W-1977.1854, JPN: Shikoku, Kamegamori, 1500 m. Magne Sandvik; no. S 138. Det. by taxonomic specialist.

Theaceae

161 *Stewartia pseudocamellia* Maxim.

2021-11-11. Acc: W-1977.1322, JPN: Honshu, Daisen, 800 m. 1976. Rune Bengtsson; no. B 322. Det. by taxonomist.

Trochodendraceae

162 *Trochodendron aralioides* Siebold & Zucc.

2021-12-09. Acc: W-1977.1332, JPN: Kyushu, Hiko-san, 1200 m. 1976. Rune Bengtsson; no. B 332. Det. by taxonomist.

Tag: seminumsystem2022, seminumwild2022