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I. Report On Temperature And Vegetation During December 1893

Robert Lindsay Curator

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- Sinapis muralis* — Charlestown (Dr. Dewar, 1834); Inverkeithing (A. Robertson, 1834).
 — *tenuiflorus* — St. David's.
Sisymbrium Thaliana — about Inverkeithing and Ferry Hills.
Smyrniolus Olusatrum — Ravenscraig Castle, south side of Kinghorn (abundant).
Solanum Dulcamara — Dalgety, Culross, Dhu Craig, etc.
 — *nigrum* — St. David's.
Solidago Virgaurea — Culross, Burntisland east and westward.
Spartanium natans — loch on Dunearn Hill, Loch Hillhead.
 — *simplex* — Loch Camela near Auchtertool, about Cleish.
Spergula subulata — Ferry Hills, many places.
Stachys arvensis — Ferry Hills and east of Inverkeithing.
Statice Armeria — shore Inverkeithing.
Stellaria nemorum — Cleish Woods.
Symphytum officinale — field near Limekilns.
 — *tuberosum* — Fordel, Pitreavie.
Thalictrum flavum — St. David's.
 — *majus* — Ferry Hills.
 — *minus* — Do.
Thlaspi arvense — Ferry Hills (abundant).
Torilis nodosa — Ferry Hills.
Tormentilla reptans (?) — near Inverkeithing.
Tragopogon major — Dunfermline, Burntisland.
Trientalis europæa — Dunfermline and northward (abundant).
Trifolium striatum — Ferry Hills (abundant).
 — *scabrum* — Burntisland.
Triglochin maritimum — shore Inverkeithing.
 — *palustre* — marshes northwards, Ferry Hills.
Triodia decumbens — Ferry Hills, Cleish, etc.
Triticum junceum — Ferry Hills, Burntisland.
 — *loliaceum* — Burntisland.
Trollius europæus — north of Dunfermline, Cleish (abundant).
Tulipa sylvestris — Pitreavie, Otterston, and North of Alloa.
Urtica urens — Inverkeithing.
Vaccinium Oxycoecos — Otterston, Cleish Hills.
 — *Vitis-idea* — Lethan's Glen, Dhu Craig.
Valeriana pyrenaica — Cleish.
Verbascum Thapsus — Inchcolm.
Veronica Anagallis — Burntisland.
 — *montana* — Cleish Hills.
 — *scutellata* — marsh east of Dalgety Church, Ferry Hills.
Viburnum Opulus — Dhu Craig, Culross, Lethan's Glen (all truly indigenous). Dr. Dewar and A. Robertson.
Vicia lathyroides — Ferry Hills.
 — *lutea* — Do., seven places (three additional ones in 1835 by A. R.).
 — *sativa* — St. David's, Dalmeny Woods. A. R., 1835.
 — *Bobartii* — Ferry Hills, St. David's. A. Robertson, 1835.
Viola hirta — Ferry Hills, Auchtertool, near Limekilns.
 — *lutea a* — north of Dunfermline, everywhere.
 — *lutea b* — near Inverkeithing, Cleish Hills. A. Robertson.
 — *odorata* — near Dunfermline, near Auchtertool.
 — *palustris* — marsh east of Dalgety Church, north of Dunfermline (abundant on the marshy hills).
Zannichellia palustris (?) — Loch Fittie.
Zostera marina — abundant between Burntisland and Pettycur.

NOTES FROM THE ROYAL BOTANIC GARDEN, EDINBURGH.

I. REPORT ON TEMPERATURE AND VEGETATION DURING DECEMBER 1893. By ROBERT LINDSAY, Curator.

The month of December was very wet and unsettled, but it was an exceedingly mild month. Frost occurred on ten mornings, indicating collectively only 52° of frost for the month. So little frost has not been registered at the

garden for December since 1883. During December 1892 frost was registered on twenty-three mornings, the total amounting to 192° of frost. The lowest readings of the thermometer for last month occurred on the 1st, 22°; 2nd, 18°; 10th, 28°; 12th, 27°; 21st, 28°. The lowest day temperature was 31°, on the 1st, and the highest 58°, on the 16th. *Rhododendron Nobleanum*, *Hamamelis japonica*, *Jasminum nudicaule*, and *Petasites fragrans* were in full flower during December.

On the rock-garden four plants came into flower, viz.—*Helleborus grandiflorus*, *H. purpurascens*, variety, *Iris sophonensis*, and *Primula inflata*. The total number of species and well-marked varieties which have flowered on the rock-garden during the year 1893 amounts to 1114, as against 1212 for 1892. The largest number came into bloom during the month of May. The number of species which came into flower each month was as follows:—January, 13; February, 40; March, 81; April, 166; May, 300; June, 294; July, 112; August, 73; September, 28; October, 3; November, 0; December, 4.

Readings of exposed Thermometers at the Rock-Garden.

Date.	Minimum.	9 A.M.	Maximum.	Date.	Minimum.	9 A.M.	Maximum.
1st	22°	27°	31°	17th	38°	45°	53°
2nd	18	24	47	18th	38	42	48
3rd	33	43	51	19th	34	38	46
4th	40	45	51	20th	34	36	40
5th	36	40	52	21st	28	34	47
6th	42	49	53	22nd	35	43	50
7th	32	33	46	23rd	38	41	48
8th	36	42	47	24th	39	48	52
9th	32	36	41	25th	37	44	51
10th	28	32	42	26th	33	35	52
11th	30	34	40	27th	40	45	49
12th	27	34	39	28th	38	45	51
13th	25	32	39	29th	37	45	51
14th	29	35	46	30th	38	45	50
15th	34	43	53	31st	40	45	50
16th	40	50	58				