

## APPENDIX 1

County Cavan botanical records and their sources, in chronological order, from Threlkeld (1726) to McArdle (1898) with author, title of paper, and year of publication. Annotations and herbarium specimens are also mentioned.

**Dr Caleb Threlkeld** (1676-1728): *Synopsis Stirpium Hibernicarum* (1726).

*Eriophorum* [sp.] in the County of Cavan.

**Dr John Rutty** (1739-1772): Annotations, dated 1739, in Rutty's copy of Threlkeld's *Synopsis* (1726), now in the library of the Royal Irish Academy, Dublin. Rutty published the record for *Sium latifolium* in his *An Essay towards a natural history of the County of Dublin* – 'I found it in my travels in the counties of Cavan and Fermanagh'. p. 171 (1772).

<i>Oenanthe aquatica</i>	<i>Solidago virgaurea</i>
<i>Saponaria officinalis</i>	<i>Taxus baccata</i>
<i>Sedum album</i>	<i>Viola tricolor</i>
<i>Sium latifolium</i>	

**Dr Robert Scott** (1757-1808). Scott's records were published by J.T. Mackay or recorded in John Templeton's unpublished Catalogue.

Mackay (1806-7)	Templeton Catalogue
<i>Aspidium spinulosa</i>	<i>Juncus trifidus</i>
<i>Carex pendula</i>	<i>Rubus saxatilis</i>
<i>Carex binervis</i>	<i>Rubus idaeus</i>
<i>Carex flacca</i>	
<i>Geranium lucidum</i>	
<i>Hymenophyllum tunbrigense</i>	
<i>Saxifraga hypnoides</i>	
<i>Saxifraga stellaris</i>	

**Dr J.T. Mackay** (1775?-1862).

<i>Mentha × piperita</i>	. . . .	TCD herbarium.
<i>Mentha sativa</i>	. . . .	<i>Flora Hib.</i> , 1836.
<i>Mentha hirsuta</i>	. . . .	<i>Flora Hib.</i> , 1836.
<i>Stratiotes aloides</i>	. . . .	<i>Mackay</i> , 1806.

**Thomas Walford** (1752-1833). *The scientific tourist through Ireland* (1818).

*Myrica gale* and *Spergula arvensis*.

**Rev N. J. Halpin.** (1790-1850). Source: Annotations by Halpin on a copy of *Mackay's Catalogue* ... (1825). *Flora Hibernica* (1836) and Reilly (1995).

<i>Agrostemma githago</i>	<i>Cardamine pratensis</i>	<i>Echium vulgare</i>
<i>Alliaria petiolata</i>	<i>Cardamine hirsuta</i>	<i>Epipactis bellatorine</i>
<i>Anemone nemorosa</i>	<i>Chaerophyllum temulentum</i>	<i>Equisetum sylvaticum</i>
<i>Baldellia ranunculoides</i>	<i>Cirsium pratensis</i>	<i>Eriophorum angustifolium</i>
<i>Bidens tripartita</i>	<i>Cymbalaria muralis</i>	<i>Filago minima</i>
<i>Calamagrostis epigejos</i>	<i>Drosera intermedia</i>	<i>Galium odoratum</i>
<i>Calystegia sylvatica</i>	<i>Drosera rotundifolia</i>	<i>Geum rivale</i>

<i>Hydrocharis morsus-ranae</i>	<i>Myosotis versicolor</i>	<i>Samolus valerandi</i>
<i>Hypericum humifusum</i>	<i>Myriophyllum spicatum</i>	<i>Schoenus nigricans</i>
<i>Ilex aquifolium</i>	<i>Neottia nidus-avis</i>	<i>Scutellaria galericulata</i>
<i>Inula helenium</i>	<i>Nymphaea alba</i>	<i>Sedum anglicum</i>
<i>Lathraea squamaria</i>	<i>Ophioglossum vulgatum</i>	<i>Sparganium angustifolium</i>
<i>Listera ovata</i>	<i>Phragmites communis</i>	<i>Sparganium erectum</i>
<i>Littorella uniflora</i>	<i>Platanthera bifolia</i>	<i>Sagittaria sagittifolia</i>
<i>Lotus pedunculatus</i>	<i>Potamogeton lucens</i>	<i>Thlaspi arvense</i>
<i>Lysimachia vulgaris</i>	<i>Potentilla reptans</i>	<i>Thesium humifusum</i>
<i>Melampyrum pratense</i>	<i>Prunella vulgaris</i>	<i>Valerianella dentata</i>
<i>Melampyrum sylvaticum</i>	<i>Pulicaria dysenterica</i>	<i>Vicia lathyroides</i>
<i>Molinia caerulea</i>	<i>Ranunculus auricomus</i>	<i>Vicia sylvatica</i>
<i>Monotropa hypopitys</i>	<i>Rorippa sylvestris</i>	<i>Viola odorata</i>

**Joseph Archibold** (1784-1874). Source: TCD herbarium and Halpin's annotations.

*Monotropa hypopitys* and *Neottia nidus-avis*

**Dr David Moore** (1807-1879).

Source: specimens at **DBN**:

<i>Ballota nigra</i>	<i>Cladium mariscus</i> (see Dickie 1864)
<i>Bromus racemosus</i>	<i>Potamogeton alpinus</i> (as <i>P. rufescens</i> )
<i>Carex pseudocyperus</i>	<i>Potamogeton gramineus</i>
<i>Carex vesicaria</i>	<i>Thelypteris palustris</i>

Source: Cybele Hibernica 2nd ed. (1866):

<i>Ballota nigra</i>	<i>Potamogeton × zizii</i>
<i>Potamogeton obtusifolius</i>	

**Dr William E. Steele** (1816-1883) of Belfast. Director of the Science and Art Museum, Dublin. He recorded *Chrysosplenium oppositifolium* and *Glechoma hederacea* in Cavan in 1862 (**DBN**).

**Samuel A. Stewart** (1826-1910). Sources two papers: 1882 and 1885.

Report on the botany of the mountainous portion of Co. Fermanagh to the west of Lough Erne, and the adjoining district of Co. Cavan. *Proc. Roy. Irish Acad.* (1882) Vol. 3. ser. 2. 531-544.

Stewart did not give locations with these records, only mentioning the county (Fermanagh or NW Cavan), or with a general statement, 'everywhere', 'common' etc. The following list of 198 Cavan plants were extracted from this paper. It does not include 20 species already recorded by Rutty, Scott, Walford, Halpin and Mackay:

<i>Achillea millefolium</i>	<i>Antennaria dioica</i>	<i>Anthriscus sylvestris</i>
<i>Agrimonia eupatoria</i>	<i>Anagallis arvensis</i>	
<i>Agrostis tenuis</i>	<i>Aegopodium podagraria</i>	<i>Apium nodiflorum</i>
<i>Ajuga reptans</i>		<i>Arrhenatherum elatius</i>
<i>Alnus glutinosa</i>	<i>Alchemilla vulgaris</i>	<i>Arum maculatum</i>
	<i>Alisma plantago-aquatica</i>	<i>Asplenium adiantum-nigrum</i>
<i>Antioxanthum odoratum</i>	<i>Anthyllis vulneraria</i>	

<i>Asplenium ruta-muraria</i>	<i>Erica tetralix</i>	<i>Lolium perenne</i>
<i>Asplenium trichomanes</i>	<i>Erica cinerea</i>	<i>Lolium italicum</i>
<i>Athyrium filix-femina</i>	<i>Equisetum arvense</i>	<i>Lonicera periclymenum</i>
<i>Bellis perennis</i>	<i>Equisetum fluviatile</i>	<i>Luzula campestris</i>
<i>Blechnum spicant</i>	<i>Equisetum telmateia</i>	<i>Lychnis flos-cuculi</i>
<i>Bromus hordeaceus</i>	<i>Equisetum palustre</i>	<i>Lysimachia nemorum</i>
<i>Calluna vulgaris</i>	<i>Eriophorum angustifolium</i>	<i>Menyanthes trifoliata</i>
<i>Caltha palustris</i>	<i>Euphrasia officinalis</i>	<i>Montia fontana</i>
<i>Campanula rotundifolia</i>	<i>Euphorbia helioscopia</i>	<i>Nardus stricta</i>
<i>Capsella bursa-pastoris</i>	<i>Euphorbia peplis</i>	<i>Narthecium ossifragum</i>
<i>Cardamine flexuosa</i>	<i>Festuca pratensis</i>	<i>Nasturtium officinale</i>
<i>Carex echinata</i>	<i>Festuca rubra</i>	<i>Myosotis arvensis</i>
<i>Carex nigra</i>	<i>Filipendula ulmaria</i>	<i>Melampyrum pratense</i>
<i>Carex panicea</i>	<i>Fragaria vesca</i>	<i>Nuphar lutea</i>
<i>Carex pilulifera</i>	<i>Galeopsis tetrahit</i>	<i>Orchis mascula</i>
<i>Carex flava</i>	<i>Galium aparine</i>	<i>Oxalis acetosella</i>
<i>Carex hostiana</i>	<i>Galium verum</i>	<i>Pedicularis palustris</i>
<i>Carex hirta</i>	<i>Galium saxatile</i>	<i>Pedicularis sylvatica</i>
<i>Centaurea nigra</i>	<i>Galium palustre</i>	<i>Pbleum pratensis</i>
<i>Centaureum erythraea</i>	<i>Geranium molle</i>	<i>Phyllitis scolopendrium</i>
<i>Cerastium fontanum</i>	<i>Geranium robertianum</i>	<i>Pinguicula vulgaris</i>
<i>Chrysanthemum segetum</i>	<i>Geum urbanum</i>	<i>Platanthera chlorantha</i>
<i>Chrysosplenium   oppositifolium</i>	<i>Glechoma hederacea</i>	<i>Plantago lanceolata</i>
<i>Cirsium arvense</i>	<i>Hedera helix</i>	<i>Plantago major</i>
<i>Cirsium palustre</i>	<i>Heracleum sphondylium</i>	<i>Poa annua</i>
<i>Cirsium vulgare</i>	<i>Hieracium pilosella</i>	<i>Poa trivialis</i>
<i>Cirsium pratense</i>	<i>Hieracium anglicum</i>	<i>Poa pratensis</i>
<i>Conopodium majus</i>	<i>Holcus lanatus</i>	<i>Polygala vulgaris</i>
<i>Corylus avellana</i>	<i>Huperzia selago</i>	<i>Polygonum aviculare</i>
<i>Crataegus oxyacantha</i> (?C. <i>monogyna</i> )	<i>Hypericum pulchrum</i>	<i>Polygonum hydropiper</i>
<i>Crepis paludosa</i>	<i>Hypochaeris radicata</i>	<i>Polygonum maculosa</i>
<i>Cynosurus cristatus</i>	<i>Hyacinthoides non-scripta</i>	<i>Potentilla anserina</i>
<i>Cystopteris fragilis</i>	<i>Hymenophyllum wilsonii</i>	<i>Potentilla erecta</i>
<i>Dactylis glomerata</i>	<i>Iris pseudacorus</i>	<i>Potentilla sterilis</i>
<i>Dactylorhiza maculata</i>	<i>Juncus acutiflorus</i>	<i>Polypodium vulgare</i>
<i>Danthonia decumbens</i> (as <i>Triodia decumbens</i> )	<i>Juncus conglomeratus</i>	<i>Polystichum aculeatum</i>
<i>Deschampsia cespitosa</i>	<i>Juncus effusus</i>	<i>Polystichum setiferum</i>
<i>Deschampsia flexuosa</i>	<i>Juncus inflexus</i>	<i>Potamogeton natans</i>
<i>Digitalis purpurea</i>	<i>Juncus squarrosus</i>	<i>Prunus spinosa</i>
<i>Dryopteris dilatata</i>	<i>Lapsana communis</i>	<i>Pteridium aquilinum</i>
<i>Dryopteris filix-mas</i> (as <i>Lastrea filix-mas</i> )	<i>Leontodon autumnalis</i>	<i>Ranunculus acris</i>
<i>Dryopteris aemula</i>	<i>Lamium purpureum</i>	<i>Ranunculus ficaria</i>
<i>Eleocharis palustris</i>	<i>Lathyrus pratensis</i>	<i>Ranunculus flammula</i>
<i>Epilobium parviflorum</i>	<i>Lemna minor</i>	<i>Rhinanthus minor</i>
<i>Epilobium montanum</i>	<i>Leucanthemum vulgare</i> (as <i>Chrysanthemum</i> <i>leucanthemum</i> )	<i>Rubus discolor</i>
	<i>Linum catharticum</i>	<i>Rubus dasyphyllus</i> (R. <i>koehleri</i> )
	<i>Lotus corniculatus</i>	<i>Rosa arvensis</i>
		<i>Rosa canina</i>

<i>Rosa tomentosa</i>	<i>Senecio vulgaris</i>	<i>Trifolium repens</i>
<i>Rumex acetosa</i>	<i>Sisymbrium officinale</i>	<i>Trifolium dubium</i>
<i>Rumex acetosella</i>	<i>Sinapis arvensis</i>	<i>Tussilago farfara</i>
<i>Rumex conglomeratus</i>	<i>Sonchus arvensis</i>	<i>Ulex europaeus</i>
<i>Rumex obtusifolius</i>	<i>Sonchus oleraceus</i>	<i>Urtica dioica</i>
<i>Rumex crispus</i>	<i>Stachys palustris</i>	<i>Vaccinium myrtillus</i>
<i>Sagina procumbens</i>	<i>Stachys sylvatica</i>	<i>Vaccinium vitis-idaea</i>
<i>Salix aurita</i>	<i>Stellaria media</i>	<i>Valeriana officinalis</i>
<i>Salix cinerea oleifolia</i>	<i>Stellaria graminea</i>	<i>Veronica agrestis</i>
<i>Sanicula europaea</i>	<i>Succisa pratensis</i>	<i>Veronica beccabunga</i>
<i>Scirpus cespitosus</i>	<i>Taraxacum vulgare</i>	<i>Veronica chamaedrys</i>
<i>Scirpus lacustris</i>	<i>Thymus praecox</i>	<i>Veronica officinalis</i>
<i>Senecio aquaticus</i>	<i>Torilis japonica</i>	<i>Vicia cracca</i>
<i>Senecio jacobaea</i>	<i>Trifolium pratense</i>	

**Samuel A. Stewart** (1885) 'Report on the botany of Lough Allen and the Slieveanierin mountains' (*Proc. Roy. Irish Acad.* Vol. 4. ser. 2. 426-442). Twenty-four Cavan records with locations and listed as 'Divisions all' in ITB (1901), are given below:

- Alchemilla arvensis* 'Dowra, Co. Cavan; rare'.  
*Callitriche verna* 'Common; rises to 1600 feet on Slievenakilla'.  
*Carex remota* 'Slievenakilla... not common'.  
*Carex ovalis* (as *C. leporina*) 'Common; ascends to 1500 feet on Slievenakilla'.  
*Carex pallescens* 'Wet pastures by the Shannon pot, Co. Cavan; rare'. ('On Cuilcagh' in 1882 paper).  
*Cerastium glomeratum* 'Roadside, Dowra, Co. Cavan: rare'.  
*Epilobium obscurum* 'Dowra, Co. Cavan; not common'.  
*Odontites vernus* (as *Euphrasia odontites*) 'Roadside, Dowra to Drumshambo; not common'.  
*Hieracium vulgatum* 'Sandstone rocks, Slievenakilla; very rare'.  
*Hymenophyllum wilsonii* (as *H. unilaterale*) 'Sandstone cliffs, Slievenakilla at 1500 feet, Co. Cavan; very rare'.  
*Hypericum androsaemum* 'Bank of stream, Dowra, Co. Cavan; very rare'.  
*Listera cordata* 'Sparingly, at and above 1600 feet on ... Slievenakilla'.  
*Luzula sylvatica* (as *L. maxima*) 'Frequent; rises to 1500 feet on Slievenakilla'.  
*Myosotis secunda* 'Frequent on ... Slievenakilla; ascending to 1500 feet'.  
*Myosotis arvensis* 'Roadsides and fields about Dowra, Co. Cavan'.  
*Peplis portula* 'by the road to Dowra; rare'.  
*Platanthera bifolia* 'Dowra and Shannon pot; frequent'.  
*Phalaris arundinacea* '... on Slievenakilla; not common'.  
*Pulicaria dysenterica* 'Roadside, Dowra to Drumshambo; rare'.  
*Sonchus oleraceus* 'Dowra.. not common'.  
*Stellaria holostea* 'Slievenakilla'.  
*Triglochin palustre* 'Slievenakilla'.  
*Veronica serpyllifolia* 'On Slievenakilla ... ascending to 1500 feet'.  
*Viola palustris* 'Slievenakilla'.

**Rev William F. Johnson** (1852-1934). Entomologist and Botanist, collected *Carex pulicaris* near Arvagh, June 1883 (**DBN**).

**David McArdle** (1849-1934) visited Slieve Glah, Lough Oughter and Lough Cultra in 1898, principally to record and collect mosses. His paper (McArdle 1898), contains the following five new records of other plants seen by him during this visit:

*Achillea ptarmica*

*Crepis capillaris* (as *C. virens*)

*Juncus bulbosus* (as *J. supinus*)

*Lycopodium clavatum*

*Sagina nodosa*



## APPENDIX 2

Records from Praeger's ITB Supplements: *Gleanings* (1902); *ITB Supplement 1901-1905* (1906); *Recent Additions* (1929); *A Contribution* (1934); *A Further Contribution* (1939); *Additions* (1946); *Hybrids* (1951).

- 1902** *Gleanings in Irish Topographical Botany*. *Proc. Royal Irish Academy*, **24B**: 61-94.
- 1906** *Irish Topographical Botany Supplement 1901-1905*. *Proc. Royal Irish Academy* **26B**: 13-45.
- 1929** Report on recent additions to the Irish flora and fauna. *Proc. Royal Irish Academy* **39B**: 57-78.
- 1932 Some noteworthy plants found in or reported from Ireland. *Proc. Royal Irish Academy* **41**: 95-124.  
*This paper contains no Co. Cavan records.*
- 1934** A contribution to the flora of Ireland. *Proc. Royal Irish Academy* **42B**: 55-86.
- 1939** A further contribution to the flora of Ireland. *Proc. Royal Irish Academy* **45B**: 231-254.
- 1946** Additions to the knowledge of the Irish flora, 1939-1945. *Proc. Royal Irish Academy* **51B**: 27-51.
- 1951** Hybrids in the Irish flora: a tentative list. *Proc. of the Royal Irish Academy* **54B**: 1-14.

### GLEANINGS (1902)

'Gleanings' contains two types of record: 1. Notes on varieties of hybrids and 2. Notes on aliens. There are twelve entries for Co. Cavan.

*Alchemilla pratensis* Schmidt. Lough Gowna 1900, L. Sheelan. RLP.

*Alchemilla rupestris* Schmidt. Ballyconnell 1900, A. Somerville.

*Chara aspera* subsp. *desmacantha* H. & J. Groves. H30. 'Cavan, Oldcastle 1896. ITB.

*Chara contraria* Kuetz. H30. No location.

*Chara flexilis* var. *nidifica* Wallm. L. Sillan 1901. G. R Bullock-Webster.

*Chara hispida* var. *rudis* Braun. L. Sheelin 1896. RLP.

*Dryopteris filix-mas* (as *Lastrea filix-mas* Presl. var. *affinis* Bab.). H30. No location.

*Dryopteris pseudo-mas* (as *Lastrea filix-mas* var. *paleacea* Moore). H30. No location.

*Euphrasia brevipila* Burnat & Grem. Mount Nugent 1896. RLP.

*Galium palustre* L. var. *witheringii* Sm. H30. No location.

*Montia fontana* L. var. *rivularis* (Gmel.). No location.

*Taraxacum officinale* Web. var. *palustre* (DC). Ballyconnell 1900. A. Somerville.

### ITB SUPPLEMENT 1901-1905 (1906)

This supplement is a summary of 51 records collected in the five years after the publication of ITB (1901) but not included in that volume (See *Irish Naturalist* vol. and page numbers after each entry for Author and locations): 'the fruticose

Rubi, the hypnoid saxifrages and other groups of segregates ranking as one species for each group?

- Anthemis cotula* L. [xv 58] 'Roadside near Cavan 1905', RLP.  
*Agrostemma githago* (as *Lychnis githago*) [xv 57] 'Butlersbridge 1905', RLP.  
*Anisantha sterilis* (as *Bromus sterilis*) [xv 61] 'Near Cavan 1905', RLP.  
*Arctium minus* [xv 59] 'Near Cavan 1905' RLP.  
*Avena pubescens* [xv 61] 'Near Cavan 1905', RLP.  
*Brassica alba* [xv 56] 'Near Cavan 1905', RLP.  
*Callitriche autumnalis* [xiii 12] 'Mullagh Lough 1903', RLP.  
*Carduus tenuiflorus* (as *C. pycnocephalus*) [xii 31] 'Roadside at Aghaloory 1902', Barnes.  
*Carex diandra* (as *C. teretiuscula*) [xiii 14] 'South of Mullagh 1903', RLP.  
*Carex filiformis* [xiv 260] 'Lakeside north of Devon Cottage 1904', RLP.  
*Carex limosa* [xiii 14] 'Bogs south of Mullagh 1903' RLP.  
*Centaurea cyanus* [xv 59] 'Near Cavan 1905' RLP.  
*Chara polyacantha* [xiv 260] 'The Bun Lough 1904', RLP.  
*Chelidonium majus* [xv 56] 'Near Lisnaneanagh L.' RLP.  
*Chenopodium bonus-henricus* [xv 60] 'Near Cavan 1905', RLP.  
*Fumaria officinalis* [xiii 36] 'Cultivated land, Mount Nugent July 1899', RLP.  
*Galeopsis speciosa* (as *G. versicolor*) [xv 60] 'Belturbet Junction 1905', RLP.  
*Hypericum dubium* [xv 57] 'Lisnaneanagh L. 1905', RLP.  
*Isoetes lacustris* [xiv 260] 'Annagh Lough [Belturbet] 1904, RLP.  
*Jasione montana* [xv 57] 'Slieve Glah 1905', RLP.  
*Juncus obtusiflorus* [xiv 260] 'Bun Lough south of Belturbet 1904', RLP.  
*Lemma gibba* [xiv 260] 'Tonawally Lough 1904', RLP.  
*Lithospermum officinalis* [xiii 13] 'Grover Castle Island, L. Sheelan 1903', Barnes.  
*Lolium temulentum* [xv 61] 'Cavan 1905', RLP.  
*Luzula pilosa* (as *L. vernalis*) [xv 60] 'near Devon Cottage 1905', RLP.  
*Nitella flexilis* [xi 143] 'Lough Sillan 1906', Bullock Webster.  
*Oenanthe fistulosa* [xi 5] 'Belturbet 1901', W. West.  
*Orchis pyramidalis* [xiii 14] 'Two and a half miles NW of Oldcastle 1903', Barnes.  
*Papaver rhoeas* [xii 29] 'half mile south of Mount Nugent 1902', Barnes.  
*Potamogeton × zizii* [xiv 260] 'Annagh Lough [Belturbet] 1904, RLP.  
*Potamogeton gramineus* (as *P. heterophyllus*) [xiv 260] 'Lakes between Cavan and Belturbet 1904', RLP.  
*Prunus domestica* subsp. *insititia* [xv 57] 'Frequent in Cavan district 1905', RLP.  
*Prunus padus* [xi 4] 'Castle Hamilton 1901', W.F. de V. Kane.  
*Ranunculus penicillatus* Dum. [xv 56] 'Annalee River below Butlersbridge 1905', RLP.  
*Ranunculus trichophyllus* [xv 55] 'Shantamon lake 1905', RLP.  
*Rosa arvensis* [xv 58] 'Lisnaneanagh L. and other spots near Cavan 1905', RLP.  
*Rosa pimpinellifolia* (as *R. spinosissima*) [xv 57] 'Clonervy Hill 1905', RLP.  
*Rubus corylifolius* Smith [xv 57] 'Near Cavan 1905', RLP.  
*Rubus plicatus* [xv 57] 'Annagh Lough 1905', RLP.  
*Rubus pyramidalis* Kalt. [xv 57] 'Near Cavan 1905', RLP.  
*Salix repens* [xv 60] 'North base of Slieve Glah 1905', RLP.  
*Salix fragilis* [xv 60] 'By Lough Oughter 1905', RLP.  
*Sedum telephium* [xv 58] 'Shores of Lisnaneanagh Lake 1905, RLP.



*Smyrniolum olusatrum* [xv 58] 'Near Cavan 1905', RLP.  
*Solanum dulcamara* [xv 59] 'Lisnaneanagh Lake 1905', RLP.  
*Sparganium natans* (as *S. minimum*) [xiv 260] 'The Bun Lough 1905', RLP.  
*Tanacetum vulgare* [xiii 12] 'Mullagh 1903', RLP.  
*Vaccinium oxycoccos* [xiii 13] 'Bogs south of Mullagh 1903', RLP.  
*Valerianella locusta* (as *V. oltoria*) [xv 58] 'Cavan 1905', RLP.  
*Valerianella. rimosa* (as *V. auriculata*) [xiii 12] 'Near Mullagh 1903', RLP.  
*Verbascum thapsus* [xv 59] 'Wall near Cavan 1903', RLP.  
*Vicia hirsuta* [xiii 12] 'North-west of Oldcastle 1903', Barnes.

#### RECENT ADDITIONS ... (1929)

This paper contains 11 Co. Cavan records first published in the *Irish Naturalist* in 1907, 1908, 1911, 1912, 1913, 1920 and 1923.

*Inula helenium* [20 163] 'At Drumlane' 1911 BNFC.  
*Lathraea squamaria* [16 132] 'Ballyhaise ... on the roots of trees in an avenue close to the house T. Irving'.  
*Lysimachia nummularia* [17 37] 'Two miles from Belturbet 1904 W.A. Barnes'  
*Mentha suaveolens* (as *M. rotundifolia*) [17 37] 'Dumgummin, two miles from Oldcastle 1904 W.A. Barnes'.  
*Mimulus guttatus* [22 110] 'Between Blacklion and Dowra in some quantity 1909 R.M. Barrington'.  
*Ophrys apifera* [29 120] 'by the roadside at Rice Hill near Kilmore, between Cavan town and Crossdoney in 1920 by W.J.C. Tomlinson. Finder Miss M. Clarke. Specimen conveyed to Tomlinson by Miss S. Blackwood of BNFC'.  
*Phegopteris connectilis* (as *Polypodium phegopteris*) [32 107] 'in considerable quantity within a limited area at Bruse Hill, Co. Cavan, 60 ft elevation'. G.G. Blackwood, Dundee.  
*Rubus pulcherrimus* Neum. [21 237] 'Mount Nugent 1896'. RLP. Teste A.B. Jackson.  
*Rubus letii* Rogers [21 237] 'Virginia, Co. Cavan. New County record'.  
*Sambucus ebulus* [20 163] 'At Drumlane'. 1911 BNFC.  
*Thymus pulegioides* (as *T. chamaedrys*) [22 110] 'Mount Nugent 1896'. RLP. Teste A.B. Jackson.

#### A CONTRIBUTION... (1934)

An amalgam of 27 published and unpublished records from various sources

*Alchemilla xanthochlora* (as *A. pratensis*) Schmidt H30. RLP.  
*Apium* × *moorei* 'Lough Oughter' RLP.  
*Arrhenatherum elatius* 'Recorded from or seen in ... H30'.  
*Betula pendula* (as *B. alba*) × *B. pubescens* 'Farnham' RLP.  
*Caltha radicans* Forster 'All divisions'.  
*Carex viridula* subsp. *viridula* (as *C. oederi* Retz.) 'Seen in or recorded from ... H30'.  
*Crataegus monogyna* Jacq. H30. RLP.  
*Crataegus oxycanthoides* L. H30. RLP.  
*Dactylorhiza fuchsii* Druce H30. RLP.

- Dactylorhiza maculata* subsp. *ericetorum* (as *Orchis eloides* Gris. (*O. ericetorum*)) H30. RLP.  
*Festuca pratensis* × *Lolium perenne* H30. RLP.  
*Hottonia palustris* L. ‘Stream flowing into Newcastle Lake south of Kingscourt. (Mrs Pollock spec !)’.  
*Mentha* × *gracilis* L. H30. RLP.  
*Mercurialis perennis* L. ‘Cloverhill near Ballyhaise’, P. McGarr, *teste* Knowles’.  
*Myrrhis odorata* Scop. ‘Woods at Ballyhaise’, P. McGarr, *fide* Knowles’.  
*Oenanthe aquatica* Poir H30. RLP.  
*Polygonum arenastrum* (as *P. aequale* Lindman) ‘Probably universal’. RLP.  
*Polygonum heterophyllum* (*aviculare* p.p.) Lindman H30. RLP.  
*Potamogeton filiformis* Pers. ‘Kilnashard on L. Sheelan’. RLP.  
*Quercus petraea* (as *Q. sessiliflora*) H30. RLP.  
*Ranunculus ficaria* subsp. *scoticus* (E. S. Marshall) ‘Upper Lough Macnean’. RLP.  
*Rhinanthus minor* Ehrh. H30. ‘This is the common Irish R. *Crista galli*’.  
*Rhinanthus stenophyllus* (Schur) Druce H30. RLP.  
*Rubus saxatilis* L. ‘N. shore of L. Sheelan’. RLP.  
*Sedum album* L. ‘Common about Virginia’. RLP.  
*Stellaria media* Vill. ‘No doubt universal’. MN.  
*Veronica anagallis-aquatica* L. H30. RLP.

#### A FURTHER CONTRIBUTION ... (1939)

This paper contains 32 Co. Cavan records, supplied by Praeger, Charles Faris, Jean Cole, J.P. Brunker and the Dublin Naturalist’s Field Club.

- Carex aquatilis* Wahl. ‘Boat harbour on Lough Ramor at Virginia’. RLP.  
*Carex laevigata* Sm. (as *C. belodes* Link.) ‘Virginia’. DNFC.  
*Carex strigosa* Huds. ‘near the heronry in Farnham demesne’. Brunker.  
*Cichorium intybus* L. ‘Along the river Annalee near Ballyhaise’. P. McGarr.  
*Crepis biennis* L. ‘Kilmore’ (R.C. Faris); ‘plentiful in that area’. Miss Cole.  
*Cryptogramma crista* R. Br. ‘Bruse Hill; one plant found by R. C. Faris’. (Miss Cole *INJ* 7: 54).  
*Diplotaxis muralis* L. ‘Railway at Drumhawnagh’. Brunker.  
*Epilobium* × *limosum* Schur (as *E. parviflorum* × *E. montanum*) ‘Blacklion’ RLP.  
*Equisetum* × *littorale* Kuhlew (as *E. arvense* × *E. limosum*) Island on L. Ramor. DNFC.  
*Geranium phaeum* L. ‘Rectory at Danesfort’. Miss Cole.  
*Juncus* × *diffusus* Hoppe (as *J. effusus* × *J. inflexus*) ‘Shancorn lake’. RLP in *IN* 14: 260.  
*Leucosium aestivum* L. ‘by Annalee River below Urney Abbey NW of Butlersbridge’. R. C. Faris; ‘and many clumps by Colepit Lough in Farnham demesne’. Miss Cole.  
*Malva moschata* L. ‘rocky meadow at Farransee’. Miss Cole.  
*Mentha* × *gracilis* (as *M. gentilis*) ‘Lough Oughter’. RLP in *IN* 14:260.  
*Mentha rotundifolia* Huds. ‘Blacklion’. RLP.  
*Mercurialis perennis* L. ‘Castle Saunderson 8 miles north of Cavan’. R.C. Faris.  
*Minuartia hybrida* (as *Arenaria tenuifolia* L.) ‘Drumhawnagh and Ballyheady railway Stations’. Brunker.  
*Osmunda regalis* L. ‘Cloverhill, Arvagh Road station etc’. Miss Cole. *INJ* 7: 54.

- Papaver dubium* and *P. lecoqii*, 'Ballyhugh'. Brunker.  
*Persicaria bistorta* (as *Polygonium bistorta* (L.) Samp. 'Castle Hamilton demesne & Killashandra rectory'. Miss Cole.  
*Pinguicula lusitanica* L. 'Bruse Hill'. R.C. Faris. (Miss Cole in *INJ* 7:92).  
*Ranunculus sceleratus* L. 'Annagh Lough'. Miss Cole.  
*Rhinanthus* [subsp.] *stenophyllus* Schur. 'Blacklion'. RLP.  
*Sedum rupestre* L. 'in great masses in a railway cutting at Gartinadress with *S. spurium*'. Miss Cole.  
*Sparganium* [subsp.] *neglectum* 'Frequent'. Brunker.  
*Spergula vulgaris* and *S. sativa* Boenn. H30. Brunker  
*Stachys arvensis* L. 'railway at Drumhawnagh'. Brunker.  
*Symphytum officinale* L. 'Ballyheady'. Brunker; 'and many other places'. Miss Cole.  
*Thalictrum flavum* L. 'Scrabby Bridge'. R.C. Faris and Miss Cole.  
*Tragopogon pratense* L. 'scarcely maintaining itself about Kilmore and Farnham'. Cole.  
*Viola reichenbachiana* Jord. ex Bor. (as *V. sylvestris* Lam.) 'Virginia'. RLP.; 'Frequent in Cavan'. Miss Cole.

#### ADDITIONS ... (1946)

As with some of Praeger's previous supplements, this paper includes first, second and occasionally third records for species, 'the range of which is such as to render further information desirable'. It comprises 105 Co. Cavan records, all have specific locations. Many were not published prior to this paper.

- Acer pseudoplatanus* L. 'run wild at Farnham etc 1939'. RLP.  
*Agrimonia procera* Wallr (as *A. odorata* (Gouan) Mill.). 'Farnham 1939'. Cole and Faris; Gartinadress 1939'. RLP.  
*Alchemilla alpestris* Schmidt. 'Fleming's Folly, 1939'. RLP.  
*Allium ursinum* L. 'In several stations'. Faris.  
*Anacamptis pyramidalis* (L.) Rich. 'Cavan town' (Miss Mc Dowell); about Kilmore. Cole and Faris.  
*Anisantha sterilis* (L.) Nevski (as *Bromus sterilis* L.) 'Railway ballast at Drumhawnagh and Ballyheady, 1939'. RLP.  
*Anthyllis vulneraria* L. 'Carrick Quarry at Finnea, 1940'. Cole and Faris.  
*Arenaria tenuifolia* L. 'Common on railway, Arvagh road to Crossdoney 1940'. Faris.  
*Arrhenatherum tuberosum* (Gilib.) F.Schultz 1930'. RLP.  
*Barbarea media* Bor. 'Drumlaney Lough'. RLP.  
*Butomus umbellatus* L. 'Lanesboro' Lodge, east of Belturbet'. Miss Cole.  
*Callitriche hermaphroditica* (as *C. autumnalis* L.) 'Cornaseer L. 1939'. RLP.  
*Callitriche intermedia* Hoffn. H30. RLP.  
*Callitriche platycarpa* Kütz. (as *C. palustris*) 'L. Oughter etc'. RLP.  
*Calystegia sylvatica* (Kit.) Griseb. 'Ballyhaise'. Faris; 'Cornafean, Nahilla Park, Bawnboy etc'. Cole and Faris.  
*Carex acuta* (as *C. gracilis*) 'Both this and *C. aquatilis* still at Killykeen 1939'. RLP.  
*Carex acutiformis* Ehrh. 'Still at Farnham 1939'. RLP.  
*Carex curta* (as *C. canescens*) 'In several places'. Faris.

- Carex diandra* Shrank 'Four additional stations'. Faris.  
*Carex dioica* L. 'Bruse Hill and elsewhere 1939'. RLP.  
*Carex elata* All. (as *C. hudsonii* A. Benn.). 'Frequent'. Faris and RLP.  
*Carex laevigata* (as *C. belodes* Link.) 'Several places'. Faris.  
*Carex pallescens* L. 'Frequent'. Faris, RLP.  
*Carex pendula* Huds. 'Near Belturbet'. Cole and Faris.  
*Carex pseudo-cyperus* L. 'Frequent in several places around L. Oughter 1939'.  
 Faris, RLP.  
*Carex strigosa* Huds. 'Killashandra 1940'. Faris.  
*Carex viridula* subsp. *brachyrrhyncha* (as *C. lepidocarpa* Tausch.). H30. RLP.  
*Catapodium rigidum* (L.) C.E. Hubb. (as *Festuca rigida* (L.). Kunth.) 'Frequent on  
 railway lines'. Faris, RLP.  
*Cerastium diffusum* Pers. (as *C. tetrandum* Curt.) 'On railway ballast at  
 Crossdoney'. Cole and Faris.  
*Chamaenerion angustifolium* (as *Epilobium angustifolium* L.) 'Abundant in Farnham  
 demesne'. Cole and Faris.  
*Cladium mariscus* (L.) R.Br. 'near Finnea and four other stations, 1940-1941'.  
 Cole and Faris.  
*Cryptogramma crispa* (L.) R.Br. 'Bruse Hill, one plant [1937]'. Faris *INJ* 7:54,  
 (1938); 'killed by drought 1938'. Faris.  
*Cystopteris fragilis* (L.) Bernh. 'Bellananagh, Killashandra Bawnboy and several  
 other places'. Cole and Faris.  
*Dryopteris aemula* (Aiton) O.Kze. 'In several places'. Faris, RLP.  
*Dryopteris carthusiana* (as *D. spinulosa* O.Kuntze) 'Widespread on edges of bogs'.  
 RLP.  
*Eleocharis multicaulis* Sm. 'Bruse Hill and Cloverhill'. Cole and Faris.  
*Epilobium* × *schmidtianum* Rostkov. (as *E. obscurum* × *palustre*) 'Killashandra, 39'.  
 RLP.  
*Epipactis helleborine* (L.) Crantz 'Bingfield, Crossdoney, Dumbar'. Faris.  
*Equisetum* × *litorale* Kuehl. (as *E. arvense* × *limosum*) 'Skeagh Lough upper 1930'.  
 RLP.  
*Eriophorum latifolium* Hoppe. 'Glasshouse Lough, 1939'. Cole and Faris.  
*Erysimum cheiranthoides* L. 'Railway at Drumhawnagh, a good colony, 1939'.  
 RLP.  
*Euphorbia exigua* L. 'Ballyhead railway station, 1939. RLP.  
*Festuca pratensis* (as *F. elater* L.). H 30'. P. Huds. H30. RLP.  
 × *Festulolium loliaceum* (Huds.) P.Fourn. (as *Festuca pratensis* × *Lolium perenne*)  
 'About Crossdoney, 1939. Faris; 'L. Sheelan 1938', RLP.  
*Fumaria bastardii* 'near Cavan, 1939 RLP. (Dele. Mount Nugent)' [see ITB.].  
*Galeopsis speciosa* Mill. 'Bellananagh 1942'. Faris.  
*Geum* × *intermedium* Ehrh. (as *G. rivale* × *urbanum*) 'Farnham 1939'. RLP.  
*Glyceria notata* Chevall. (as *G. plicata* L.) 'Farranseer'. Faris.  
*Gnaphalium sylvaticum* (as *Omalotheca sylvaticum*) 'Carrigans, Bellananagh, 1941'.  
 Faris.  
*Gymnadenia conopsea* (L.) R. Br. 'Kilmore, Farnham, Killykeen'. Faris.  
*Hesperis matronalis* L. 'Frequent on roadsides etc. in Co. Cavan, 1939'. RLP.  
*Hymenophyllum tunbridgense* (L.) Sm. 'Slievenakilla frequent and two rocks on  
 Bruse Hill'. Cole and Faris.

- Isoetes lacustris* L. 'Lough Acurry and Arnaghan Lake on Lough Gowna, 1939'. RLP.
- Lathraea squamaria* L. 'Crossdoney, Farnham, Nahilla Park'. Cole and Faris.
- Lathyrus palustris* L. 'By River Inny where it leaves Lough Sheelan NE of Finnea'. Cole and Faris.
- Leucojum aestivum* L. 'Looking native in Lismore demesne and by Lake Mentis near Crossdoney'. Faris.
- Linaria minor* L. Defs. 'On railway at Ballyheady', Bruncker; 'Crossdoney', Faris; Drumhawnagh and Killashandra'. RLP.
- Lobelia dortmanna* L. 'Swan lake near Scrabby and at Arnaghan Lake on Lough Gowna, 1939'. Cole and Faris; 'Lough Skeagh Upper 1939'. Cole; 'Lough Acurry, 1939'. RLP.
- Luzula pilosa* L. Willd. 'Belturbet'. Cole and Faris.
- Lycopodium clavatum* L. 'Bailieborough, 1940'. Cole and Faris.
- Lysimachia nummularia* L. 'Several stations'. Miss Cole.
- Matricaria discoidea* (as *M. occidentalis* Greene). 'Near Cavan'. RLP.
- Mimulus guttatus* DC. 'Bawnboy, 1938'. Miss Cole.
- Myrrhis odoratum* Scop. 'Kingscourt and Belturbet, 1939'. Cole and Faris.
- Oenanthe fistulosa* L. 'Drumard Lake at Belturbet, 1939'. Cole and Faris.
- Oreopteris limbosperma* (All.) Houlb. (as *Lastreuae [Dryopteris] oreopteris*) 'Bruse Hill 1939'. RLP.
- Papaver somniferum* L. 'Nahilla Park, 1940'. Faris and Cole.
- Pinus sylvestris* L. 'Self-sown, frequent'. Cole and Faris.
- Poa compressa* L. 'Railway siding at Crossdoney 1939'. RLP.
- Potentilla* × *suberecta* Zimm (as *P. erecta* × *P. procumbens* = *P. anglica*). 'Lough Derriskit near Killashandra, 1939'. RLP.
- Primula veris* L. 'On granite at Arvagh road station'. Faris; 'and on Silurian grits near Cloverhill, 1940'. Miss Cole.
- Prunus padus* L. 'Nahilla Park'. Miss Cole.
- Quercus robur* L. 'Farnham etc'. RLP.
- Ranunculus lingua* L. 'Drumlaney Lough, 1939'. RLP.
- Rhamnus catharticus* L. 'One plant seen at Farnham and one at Killykeen, 1941'. Faris.
- Rhynchospora fusca* (L.) Ait. 'Derryhoo Bog near Cloverhill, 1940'. Cole and Faris.
- Ribes nigrum* L. 'Farnham and other places in wild ground'. Cole and Faris.
- Rosa arvensis* Huds. 'Frequent around Lough Oughter'. Cole and Faris.
- Rosa mollis* Sm. 'Farnham, 1939'. RLP.
- Rosa rubiginosa* L. 'Thickets near Ballyheady station, looking native, 1938'. Cole and Faris.
- Rumex hydrolapathum* Huds. 'Lake Dawan, Ballinagh'. Faris.
- Salix* × *caprea* J. Kerner ex Andersson (as *S. caprea* × *S. aurita*) 'Cloverhill, 1939'. RLP.
- Salix cinerea* (as *S. atrocinerea*) × *S. aurita* 'Cornaseer and Bellananagh 1939'. RLP.
- Salix fragilis* L. 'Local', Faris, RLP.
- Salix pentandra* 'Not infrequent'. Cole and Faris.
- Salix purpurea* L. 'Local'. Faris.

- Saxifraga tridactylites* L. 'Clonloskan by Lough Mentis near Crossdoney, 1940'. Faris.
- Scrophularia auriculata* (as *S. aquatica*) 'Milltownl, Brackley Lough, Ballyhillan Bridge, 1934'. Cole and Faris.
- Sedum fabaria* Koch. (*S. telephium* L. subsp. *fabaria* Syme) 'In a number of spots'. Cole and Faris.
- Smyrnium olusatrum* L. 'Lough Sheelan, Kilmore and common about Belturbet'. Cole and Faris.
- Solanum dulcamara* L. 'Farranseer and Urney'. Faris and Cole.
- Sparganium minimum* Hartm. 'Cloverhill 1939'. Cole and Faris.
- Symphytum* × *uplandicum* (as *S. peregrinum* Ledeb.) 'Frequent in Cavan'. Faris and RLP.
- Ulmus minor* Mill. 'Rough ground at Lough Macnean'. RLP. *teste* Pugsley.
- Ulmus procera* (as *U. campestris*) 'Seems native about Lough Oughter 1939'. RLP.
- Utricularia australis* (as *U. major* Schmidel). 'Two miles east of Killashandra'. RLP. .
- Vaccinium oxycoccos* (as *Oxycoccus quadripetalus* Gilib.) 'Ballyheady bog, Ballytrust bog and Carrick point on L. Sheelan'. Cole and Faris.
- Valeriana officinalis* L. 'Lough Sheelan 1940'. Cole and Faris'.
- Valerianella dentata* (L.) Poll. 'Drumhawnagh 1938'. Cole and Faris.
- Verbascum thapsus* L. 'Not uncommon in the SW'. Cole and Faris.
- Veronica scutellata* L. 'A creeping form, rooting freely at the nodes, on L. Oughter at Killykeen 1941'. RLP.
- Vicia hirsuta* (L.) S.F. Grey 'Drumhawnagh 1940'. RLP.
- Vicia sylvatica* L. 'Kilmore 1939'. Faris.

#### HYBRIDS ... (1951)

- Apium* × *moorei* (as *A. inundatum* × *nodiflorum*).
- Betula* × *aurata* Borkh. (as *B. pendula* × *pubescens*).
- Caltha palustris* var. *radicans* (as *C. palustris* × *radicans*).
- Epilobium* × *limosum* Schur (as *E. montanum* × *parviflorum*).
- E.* × *schmidtianum* Rostkov (as *E. obscurum* × *palustre*).
- Equisetum* × *littorale* Khuel (as *E. arvense* × *limosum*).
- × *Festulolium loliaceum* (Hudson) P. Fourn. (as *Festuca elatior* (*pratensis* or *arundinacea*) × *Lolium perenne*).
- Juncus* × *diffusus* Hoppe (as *J. effusus* × *inflexus*).
- Mentha* × *verticillata* L. (as *M. aquatica* × *arvensis*).
- Polygonum* × *hybrida* (Chaub. ex St-Amans) Soják (as *P. hydropiper* × *mitis*).
- Potamogeton* × *szizii* Koch ex Roth (as *P. gramineus* × *lucens*).
- Potentilla* × *suberecta* Zimm. (as *P. erecta* × *procumbens*).
- Salix* × *multinervis* Doell (as *S. atrocineura* × *aurita*).
- Salix* × *caprea* J. Kerner ex Andersson (as *S. aurita* × *S. caprea*).
- Salix* × *sericans* Tausch ex A.Kerner (as *S. caprea* × *viminalis*).
- Stachys* × *ambigua* Smith (as *S. palustris* × *sylvatica*).
- Plus: *Mentha* × *gracilis* (as *M. gentilis*) in 'A Contribution ...' 1934) and  
*Geum* × *intermedium* (as *G. rivale* × *urbanum*) in 'Additions ...' (1946).

Praeger books and articles from the *Irish Naturalist* and the *Irish Naturalist's Journal* which contain additional references to the Co. Cavan flora.

- 1885 Plants of Lough Sheelin. *Proc. BNFC* 2(2): 534.
- 1892 Plants of Lough Sheelin. *IN* 1: 124-125.
- 1896 The Field Clubs in Cavan. *IN* 5: 193-199.
- 1896 Irish plants collected chiefly in the province of Leinster in 1896. *IN* 6: 89-100.
- 1905 Plants of Cavan lakes. *IN* 14: 260.
- 1906 *Melittis melissophyllum*, discovered by Sarah Blackwood of BNFC *IN* 15: 155 (**DBN**).
- 1934 *The botanist in Ireland*. Dublin: Hodges Figgis.
- 1937 *The way that I went*. Dublin: Allen Figgis.

Charles and Jean Farris



## APPENDIX 3

Papers, books, notes and some contributions in chronological order (excluding Praeger's) relating to the Flora of Cavan from 1886 onwards (post *Cybele Hibernica* records).

- 1866** **A.G. More**, and **David Moore** *Cybele Hibernica* (1866) contains Co. Cavan records. A second edition, founded on the papers of A.G. More by Nathaniel Colgan and Reginald Scully, was published in 1898.
- 1899** *Fumaria officinalis* at Mount Nugent, 1899. *Ir. Nat.* **13** (1904) 36. **Matilda Cullen Knowles** (1864-1933), lichenologist, late of DBN.
- 1901** **Alexander Somerville** (1842-1907) of Glasgow, merchant in Calcutta, botanist and malacologist. Contributed 280 Cavan records to ITB.
- 1902** **Rev George R. Bullock-Webster** (1858-1934). Canon of Ely. Authority on Charophyta. Author of 'Characeae in Co. Monaghan (including Lough Sillan, Co. Cavan)'. *Ir. Nat.* **11** (1902) 141-146. *Nitella flexilis* var. *nidifica* at Lough Sillan. (see also *Gleanings* 1902).
- 1906** Eleven specimens in **DBN**, including *Lathraea squamaria* and ferns from Ballyhaise. **Walter S. Irving** (1867-1934) British horticulturist and gardener.
- 1907** 'Cavan' *Ir. Nat.* **16** (1907) 132. **G.H. Carpenter** (1865-1939) of London. Entomologist, Prof. of Zoology, Royal College of Science, Dublin, co-founder, with R. L. Praeger, of *Irish Naturalist* in 1892.
- 1908** *Lysimachia vulgaris* (as *L. nummularia*) near Belturbet and *Mentha rotundifolia* at Dungummin in 1904. *Ir. Nat.* **17** (1908) 37. **W. A. Barnes** of Moynalty, Co. Meath
- 1911** 'Three day excursion to Cavan District'. *Ir. Nat.* **20** (1911) 161-163. Anon. BNFC. July 12-15<sup>th</sup> 1911.
- 1912** Notes on Irish Plants. *Ir. Nat.* **21** (1912) 235-240. This paper includes records from near Virginia. **George Claridge Druce** (1850-1932). Eminent British botanist.
- 1913** *Mimulus guttatus* between Blacklion and Dowra in 1909. *Ir. Nat.* **22** (1913) 110. **Richard Manliffe Barrington** (1849-1915) of Wicklow, zoologist and botanist.
- 1920** 'The bee orchis in Co. Cavan'. *Ir. Nat.* **29** (1920) 120. **W.J.C. Tomlinson** (d. 1921) of Belfast.
- 1923** Beech fern in Co. Cavan. *Ir. Nat.* **32** (1923) 107. **G.G. Blackwood** of Dundee.
- 1937-1939** Personal Diaries of **Charles Faris** (1911-1984) of Farranseer, Co. Cavan. Solicitor, entomologist and botanist. Husband of Jean M. Cole (see opposite). Records of vascular plant sightings were kindly extracted by his daughters Mrs Rosemary Coetzee and Mrs. Jennifer Milliken. These included excursions with J.P. Brunker (September 1938) and R.L. Praeger (June 1939).

- 1938** Royal and parsley ferns in Co. Cavan. *Ir. Nat. Journal* **7** (1938) 54. **Jean M. Cole** (1914-1999) of Nahillah Park, Cloverhill, Co. Cavan.  
 Pale butterwort in Co. Cavan. *Ir. Nat. Journal* **7** (1938) 92. Jean Cole.  
 Celery-leaved ranunculus in Co. Cavan. *Ir. Nat. Journal* **7** (1938) 92. Jean Cole.  
 Some alien plants at Kilmore, Co. Cavan. *Ir. Nat. Journal* **7** (1938) 92. Jean Cole.
- 1939** Further plant records for Co. Cavan. *Ir. Nat. Journal* **7** (1938) 145-146. Jean Cole.  
 Additional Co. Cavan plants. *Ir. Nat. Journal* **7** (1939) 186. Jean M. Cole. See also *Additions* (1946) and *A Further Contribution* (1939)
- 1949** *Carex elongata* L. in Co. Cavan. *Ir. Nat. Journal* **9** (1949) 429. Charles Faris & J.P. Bruncker, 1948 (**DBN**).
- 1954** *Sorbus hibernica* in Cavan and *Lycopodium clavatum* at Cornasuas near Bailieborough. **Thomas J. Barron** of Bailieborough, teacher and local historian. Notification to **DBN**.
- 1969** *Juncus ×diffusus* Hoppe, in Cavan. Notification to **DBN**. **Mary J.P. Scannell**, former head of the National Herbarium (1949-1989); founder member of the BSBI Irish branch (1963); county recorder for West, Mid and East-Cork (H 03, 04 & 05); co-author, with D.A. Webb, of the *Flora of Connemara and the Burren* (1983), and with E.M. Booth, of *The flora of County Carlow*.
- 1970** *Pseudorchis albida* new to Cavan. *Ir. Nat. Journal* **26** (1970) 295. **Con Breen**, President DNFC (1998-1999); BSBI county recorder for Westmeath (H 23).
- 1972** *A preliminary report on areas of scientific interest in county Cavan*. by **L. Farrell**. A report submitted to Cavan County Council by An Foras Forbartha.
- 1973** *Solidago virgaurea*, Glangevlan 1973, at 1700 ft on sandstone rocks (**DBN**). **A.A.P. Toher**.
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 Nicholas John Halpin (1790-1850): a little known Irish botanist. P.A. Reilly. *Glasra* **2**(2) n.s. (1995) 165–177. Contains 59 unpublished records for Co. Cavan plants.
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- 1997** *Ophrys apifera* at Bruse Hill, Co. Cavan. P.A. Reilly. *Ir. Nat. Journal* **25** (1997) 385.  
*Pseudorchis albida* in Co. Cavan. P.A. Reilly. *Ir. Nat. Journal* **25** (1997) 388.  
*Pseudorchis albida*, Drumhillagh, north of Stradone. (Not published). C. Breen and P.A. Reilly.
- 1999** *Cardamine amara* L. in Co. Cavan (H 30). P.A. Reilly. *Ir. Nat. Journal* 26:7/8, 287. Second county record.  
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*Leucojum aestivum* in Co. Cavan, a new station. P.A. Reilly. Note to *Ir. Nat. Journal* (in press).

## APPENDIX 4

### AREAS OF SCIENTIFIC INTEREST

'An area of scientific interest is a site with natural or semi-natural features of ecology, geology or land-form. It may be valuable for supporting communities or populations of characteristic or endangered plants and animals, useful in describing the processes or factors that govern their appearance or important in interpreting the structure of the land and its origins' (Cabot 1981).

As part of a National Heritage Inventory, An Foras Forbartha compiled a list of areas of scientific interest divided into county units (Cabot 1981). Co. Cavan has twenty-five such areas.

Lough Oughter is classified as being of International Importance and Killykean, which is part of the Lough Oughter complex and a Forest Park, was designated a National Heritage Area in 1995. Of the remainder, two are of National Importance, five of Regional Importance and seventeen of Local Importance

The twenty given below are of botanical interest.

#### *INTERNATIONAL IMPORTANCE*

**Lough Oughter** H3405. 8900 ha.

Lake and woodland. The best inland example of a flooded drumlin landscape with rich and varied aquatic plant communities. The area includes old estate woodlands usually established on poorly drained clayey soils. Both the shrub and ground floras contain many species of interest.

#### *NATIONAL IMPORTANCE*

**Lough Cratty** H1628. 500 ha.

Relatively undisturbed blanket bog which is unusual for its size and naturalness. The diversity and range of plant species and lichens is high and the bog is actively growing through the agency of large Sphagnum cushions

**Lough Kinale and Derragh Lough** N3982. 40 ha.

(On Longford-Westmeath border)

The plant communities around the lake margin contain a variety of species typical of base-rich marshes.

#### *REGIONAL IMPORTANCE*

**Bruse Hill** N3198. 110 ha.

Upland grassland alternates with drier heath communities and wet flushes dominated by sedges. High floral diversity with some uncommon species.

**Clonty Lough** H2712. 34 ha.

Calcareous lake surrounded in places by dense reed-swamp merging into a more mineral swamp which dries substantially in Summer. Vegetation typical of these habitats except for a large proportion of the uncommon, Elongated sedge, *Carex elongata*.

**Corratirrim** H0736. 150 ha.

Limestone pavement, small cliffs, grassland and a patch of hazel scrub, which do not occur elsewhere in the county. The flora is species rich but not as well developed as on the Connaught limestones.

**LOCAL IMPORTANCE****Annagh Lough** H2918. 62 ha.

Base-rich lake with peat bog and woodland.

**Bellavally mountain** H1122. 80 ha.

Interesting plants on cliff south of Bellavally Gap. To the south-west, a typical blanket bog shows the first stages of erosion.

**Blackrocks Cross** H1423. 16 ha.

Blanket bog on upper slopes with wet acidic grassland on lower ground. Trees and shrubs re-establishing themselves in some areas.

**Cloughbally Bog** N6883. 174 ha.

Best example of a raised bog in the county with typical and relatively undisturbed flora.

**Cordonaghy** N3194. 74 ha.

Raised bog/fen. Cut-over bog with a diversity of plant communities, including sedges and ferns of interest.

**Drumkeen House** H4107. 17 ha.

Woodland. Planted beech, sycamore, elm and oak with typical ground flora.

**Farren Connell House** N4882. 140 ha.

Woodland and raised bog. Mainly beech, sycamore, lime and horse-chestnut, with some pines and firs situated on the remnants of the raised bog. Unplanted north-east section supports a typical bog flora. Many different plant communities of the woodland / bogland transition occur.

**Glasshouse Lough** H2706. 85 ha.

Small lake with several areas of woodland growing along the shore. Typical woodland ground flora with a rich variety of herbs. Stony ground surrounding the lake supports many sedges and mosses.

**Lough Gowna** N2889. 377 ha.

A shallow lake set among drumlins in the river Erne system. It has a relatively low base status which allows aquatic plants such as *Lobelia* and quillwort, *Isoetes lacustris* to grow in a pH of 7.5. A woodland fringe covers part of the shore with willow, ash and sometimes oak.

**Lough Macnean Upper** H0437. 195 ha.

A heath community occurs around much of this limestone lake with scattered shrubs and trees and wet grassland on the lower shores. Plants on the lake edge include *Galium boreale*.

**Lough Ramor** N6080. 750 ha.

Nutritionally a poor lake, bordered by alder, willow and hazel woodland. Lakeside marshes have many sedges along with a wide range of other plants e.g. bur marigolds, *Bidens* spp. and the Greater spearwort, *Ranunculus lingua*.

**Lough Sheelan shore** N4785. 5 km section.

Calcareous grassland and marshes cover much of the shore with some acid flushings from raised bogs nearby.

**Madabawn** H6309. 13 ha.

A small marsh and floating fen with limited vegetation but some interesting plants. (Drainage operations in progress 1997)

**Moneenterriff cliffs** H0325. 33 ha.

Greatest expanse of cliffs and rock scree in the county supporting a variety of plant communities.





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## TOPOGRAPHICAL INDEX

Four figure references for all locations mentioned in the text have been prepared. Because the location of townlands is sometimes marked in slightly different positions on maps of different dates and scales, these references may not always be exact. In some cases it has been difficult to decide to which site an historical reference may apply. For example Drumhallagh/Drumhillagh occurs in 3 locations and under different spellings on the ½", 1" and 1:50,000 scale maps. The usage of Lough and Lake is not consistent, nor significant, however, it should be remembered that even within Co. Cavan many Lough names are not unique. Some locations have not been found on any map, and are noted as (?).

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|---|---|
| <p>Acanon Lough, E of Stradone, <b>3</b><br/>(H5702).<br/>Acurry Lough, <b>5</b> (N5899)<br/>Acanon Lough, E of Stradone, <b>3</b><br/>(H5702).<br/>Acurry Lough, <b>5</b> (N5899).<br/>Aghalane Bridge, NE of Ballyconnell,<br/><b>2</b> (H3419).<br/>Aghaloory, <b>4</b> (N4089).<br/>Amoneen Lough, <b>2</b> (H3521).<br/>Annagh Lough, Ballyconnell, <b>2</b><br/>(H2918).<br/>Annagh Lough, Butlersbridge, <b>2</b><br/>(H3912).<br/>Annagharnet, <b>5</b> (N6291).<br/>Annalee River, <b>2</b> (H3910-6808).<br/>Anoneen Lough, <b>2</b> (H3521).<br/>Ardan Lough, <b>2</b> (H3512).<br/>Ardkill Quarry, nr. Carrickboy, <b>4</b><br/>(N4497).<br/>Ardloughter, <b>2</b> (H2813).<br/>Arley, L. Sheelin, <b>4</b> (N4586).<br/>Arnaghan, Lough Gowna, <b>4</b> (N2891).<br/>Arvagh, <b>4</b> (N2797).<br/>Arvagh Road Station (Closed), <b>2</b><br/>(H345012).<br/>Ashgrove, <b>2</b> (H3713).<br/>Assan, <b>5</b> (N5595).<br/>Bailieborough, <b>5</b> (N6796).<br/>Bailieborough Lough, <b>5</b> (N6796).<br/>Bakers Bridge, <b>2</b> (H3712).<br/>Ballyconnell, <b>2</b> (H2718).</p> | <p>Ballyhaise, <b>2</b> (H4511).<br/>Ballyheady (Bellaheady), <b>2</b> (H2415).<br/>Ballyheady Station (Closed), <b>2</b><br/>(H247158).<br/>Ballyhugh, <b>2</b> (H3014).<br/>Ballyjamesduff, <b>5</b> (N5290).<br/>Ballymachugh, <b>4</b> (N4486).<br/>Ballymagauran Lough, SW of<br/>Ballyconnell, <b>2</b> (H2013).<br/>Ballytrust, <b>4</b> (N3693).<br/>Baraghy Lough, E of Cootehill, <b>3</b><br/>(H6612).<br/>Barragh Lough, W. of Cootehill, <b>3</b><br/>(H5415).<br/>Bawnboy, <b>2</b> (H2119).<br/>Beaghy Lough, NE of Cavan town, <b>2</b><br/>(H4405).<br/>Beaghy Lough, S of Stradone, <b>3</b><br/>(H5000).<br/>Bective Estate (now Virginia Park<br/>Hotel), Lough Ramor, <b>5</b> (N5987).<br/>Bellaheady, <b>2</b> (H2415).<br/>Bellahillan Bridge, <b>2</b> (H3501).<br/>Bellamont House, Cootehill, <b>3</b><br/>(H6015).<br/>Bellananagh, <b>4</b> (N3998).<br/>Bellavalley Gap, <b>1</b> (H1124).<br/>Belturbet, <b>2</b> (H3616).<br/>Benbrack, <b>1</b> (H1021).<br/>Billis Bridge, <b>5</b> (N5693).<br/>Bingfield, nr. Crossdoney, <b>2</b> (H3701).</p> |
|---|---|

- Black Battle, nr. Arley Cottage, **4**  
(N4586).
- Black Lake, **4** (N3391).
- Black River, N of Dowra, **1** (H0129-  
0333).
- Blacklion, **1** (H0838).
- Blackrocks Cross, **1** (H1423).
- Blackwater Bridge, Lough Ramor, **5**  
(N6383).
- Blackwater River, **1** (H1816).
- Bloody Pass, N of Belturbet, **2**  
(H3823).
- Bracklagh Lough, NW of Finnea, **4**  
(N3982).
- Brackley House, **1** (H1921).
- Brackley Lough S of Swanlinbar, **1**  
(H1920).
- Bray Wood, N of Ballyconnell, **2**  
(H2818).
- Bruse Hill (260 m), **4** (N3198).
- Bun Lough, **2** (H3714).
- Bunnoe, **3** (H5013).
- Burren Forest, **1** (H0735).
- Butlersbridge, **2** (H4010).
- Cabra Castle, **5** (N8096).
- Canningstown, **3** (H6203).
- Carconadas Pond, S of Inishmuck  
Lough, **2** (H3609).
- Carn Cottage, **2** (H3014).
- Carndonagh (Cordonaghy) Lough, **4**  
(N3194).
- Carrick Mor (Carrickmore; Tower  
Hill), **4** (N4083).
- Carrick point; L. Sheelin, **4** (N4182).
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Dactylis .....	119	Elongated sedge .....	113
Dactylorhiza .....	126	Elymus .....	119
Daisy .....	102	Elytrigia .....	119

EMPETRACEAE .....	58	Field scabious .....	98
Empetrum .....	58	Field wood-rush .....	110
English elm .....	43	Field woundwort .....	86
English stonecrop .....	61	Fig .....	43
Epilobium .....	75	Figwort .....	91
Epipactis .....	125	Filago .....	101
Equal-leaved knotgrass .....	48	Filipendula .....	62
EQUISETACEAE .....	32	Filmy-fern .....	34
Equisetum .....	32	Fine-leaved sandwort .....	45
Erica .....	58	Fine-leaved water-dropwort .....	81
ERICACEAE .....	58	Flea sedge .....	115
Eriophorum .....	110	Floating sweetgrass .....	120
Erophila .....	56	Flowering-rush .....	105
Erysimum .....	54	Forget-me-nots .....	85
Euonymus .....	76	Foxglove .....	91
Eupatorium .....	105	Foxtail .....	117
Euphorbia .....	77	Fragaria .....	68
EUPHORBIACEAE .....	77	Fragrant orchid .....	126
Euphrasia .....	93	Fraxinus .....	90
European larch .....	38	French crane's-bill .....	79
Eyebright .....	93	Frogbit .....	106
		Frog-orchid .....	126
FABACEAE .....	72	Fuchsia .....	75
FAGACEAE .....	43	Fumaria .....	42
Fagus .....	43	FUMARIACEAE .....	42
Fairy flax .....	77	Fumitory .....	42
Fallopia .....	49		
False brome .....	118	Galeopsis .....	87
False fox-sedge .....	114	Galium .....	96
False oat-grass .....	117	Garlic mustard .....	54
Fat hen .....	45	GENTIANACEAE .....	83
Fen bedstraw .....	96	Gentianella .....	83
Fern-grass .....	118	GERANIACEAE .....	79
Fescue .....	119	Geranium .....	79
Fescue, squirreltail .....	122	Germander speedwell .....	92
Festuca .....	119	Geum .....	68
Festulolium .....	120	Giant hogweed .....	83
Feverfew .....	102	Gipsywort .....	88
Few-flowered spike-rush .....	111	Glaucous sedge .....	114
Ficus .....	43	Glechoma .....	87
Field bindweed .....	84	Globeflower .....	39
Field horsetail .....	32	Glyceria .....	120
Field madder .....	96	Gnaphalium .....	102
Field Maple .....	78	Goat willow .....	53
Field pansy .....	52	Golden saxifrage .....	62
Field penny-cress .....	57	Goldenrod .....	102
Field rose .....	70	Good-King-Henry .....	44

Gooseberry .....	60	Hawthorn .....	72
Gorse .....	74	Hay-scented buckler-fern .....	37
Grass of Parnassus .....	62	Hazel .....	44
Great fen-sedge .....	112	Heath bedstraw .....	96
Great horsetail .....	33	Heath dog-violet .....	51
Great Mullein .....	90	Heath grass .....	119
Great wood-rush .....	110	Heath groundsel .....	104
Great yellow-cress .....	55	Heath rush .....	109
Greater burdock .....	98	Heath speedwell .....	92
Greater celandine .....	42	Heath spotted-orchid .....	126
Greater periwinkle .....	84	Heath wood-rush .....	110
Greater plantain .....	90	Heather .....	58
Greater pond-sedge .....	115	Hedera .....	79
Greater stitchwort .....	46	Hedge bindweed .....	84
Greater tussock-sedge .....	115	Hedge mustard .....	54
Greater water-parsnip .....	81	Hedge woundwort .....	86
Green field-speedwell .....	92	Hedgerow crane's-bill .....	79
Green-ribbed sedge .....	113	Helictotrichon .....	120
Grey field-speedwell .....	92	Helleborine .....	125
Grey poplar .....	52	Hemlock .....	82
GROSSULARIACEAE .....	60	Hemlock water-dropwort .....	81
Ground-elder .....	81	Henbit dead-nettle .....	86
Ground-ivy .....	87	Heracleum .....	83
Groundsel .....	104	Herb-Robert .....	79
Guelder-rose .....	97	Hesperis .....	54
Gymnadenia .....	126	Hieracium .....	101
Gymnocarpium .....	36	Himalayan knotweed .....	48
Hair-grass, Early .....	117	HIPPOCASTANACEAE .....	78
Hair-grass, Silver .....	117	HIPPURIDACEAE .....	89
Hair-grass, Tufted .....	119	Hippuris .....	89
Hair-grass, Wavy .....	119	Hogweed .....	83
Hairy brome .....	118	Holcus .....	121
Hairy dog rose .....	70	Holly .....	76
Hairy lady's mantle .....	69	Honeysuckle .....	97
Hairy rock-cress .....	56	Hop trefoil .....	73
Hairy sedge .....	114	Hornbeam .....	44
Hairy tare .....	72	Horse-chestnut .....	78
Hairy wood-rush .....	110	Horse-radish .....	55
HALORAGACEAE .....	74	Horsetail .....	32
Hard rush .....	110	Hottonia .....	59
Hard shield-fern .....	37	House-leek .....	60
Hard-fern .....	38	Huperzia .....	32
Harebell .....	95	Hyacinthoides .....	123
Hawkbit .....	99	Hydrocharis .....	106
Hawk's-beard .....	101	HYDROCHARITACEAE .....	106
Hawkweed .....	101	Hydrocotyle .....	80
		HYMENOPHYLLACEAE .....	34



Hymenophyllum .....	34	Large yellow-sedge .....	114
Hypericum .....	49	Large-flowered hemp-nettle .....	87
Hypochaeris .....	99	Larix .....	38
Ilex .....	76	Lathraea .....	94
Impatiens .....	79	Lathyrus .....	73
Imperforate St. John's-wort .....	50	Lawson cypress .....	38
Indian balsam .....	79	Lemna .....	109
Intermediate Bladderwort .....	95	LEMNACEAE .....	109
Intermediate lady's-mantle .....	69	Lemon-scented fern .....	35
Intermediate polypody .....	34	LENTIBULARIACEAE .....	95
Intermediate water-starwort .....	89	Leontodon .....	99
Inula .....	102	Lepidium .....	57
IRIDACEAE .....	124	Lesser burdock .....	98
Iris .....	124	Lesser celandine .....	40
Irish whitebeam .....	71	Lesser hawkbit .....	100
ISOETACEAE .....	32	Lesser marshwort .....	82
Isoetes .....	32	Lesser periwinkle .....	84
Isolepis .....	111	Lesser pond-sedge .....	112
Italian poplar .....	52	Lesser stitchwort .....	46
Italian rye-grass .....	121	Lesser trefoil .....	74
Ivy .....	79	Lesser tussock-sedge .....	113
Ivy-leaved crowfoot .....	40	Lesser water-parsnip .....	81
Ivy-leaved duckweed .....	109	Lesser water-plantain .....	105
Ivy-leaved speedwell .....	93	Leucanthemum .....	103
Japanese knotweed .....	49	Leucocjum .....	124
Jasione .....	95	Ligustrum .....	90
Jointed rush .....	109	Lilac .....	90
JUNCACEAE .....	109	LILIACEAE .....	123
JUNCAGINACEAE .....	106	Lime .....	50
Juncus .....	109	LINACEAE .....	77
Juniper .....	38	Linaria .....	91
Juniperus .....	38	Linum .....	77
Kidney vetch .....	72	Listera .....	125
Knautia .....	98	Lithospermum .....	85
Knotgrass .....	48	Littorella .....	90
Knotted pearlwort .....	46	Lobelia .....	95
Laburnum .....	74	Lolium .....	121
Lady-fern .....	36	London pride .....	62
LAMIACEAE .....	86	Long-headed poppy .....	41
Lamiastrum .....	86	Long-stalked yellow-sedge .....	116
Lamium .....	86	Lonicera .....	97
Lapsana .....	99	Lords-and-ladies .....	109
Large bindweed .....	84	Lotus .....	72
Large thyme .....	88	Lousewort .....	94
		Luzula .....	110
		Lychnis .....	47
		Lycium .....	84

LYCOPODIACEAE .....	32	Melica .....	121
Lycopodium .....	32	Melissa .....	88
Lycopus .....	88	Melittis .....	87
Lysimachia .....	59	Mentha .....	88
LYTHRACEAE .....	74	MENYANTHACEAE .....	84
Lythrum .....	74	Menyanthes .....	84
		Mercurialis .....	77
Maidenhair spleenwort .....	36	Midland hawthorn .....	72
Male-fern .....	37	Milkwort .....	78
Mallow .....	50	Mimulus .....	91
Malus .....	71	Minuartia .....	45
Malva .....	50	Moechringia .....	45
MALVACEAE .....	50	Molinia .....	121
Many-stalked spike-rush .....	111	Monkey-flower .....	91
Marsh arrow-grass .....	106	Monk's-hood .....	39
Marsh cinquefoil .....	68	Monotropa .....	59
Marsh fern .....	35	Montbretia .....	124
Marsh foxtail .....	117	Montia .....	45
Marsh Hawk's-beard .....	101	Moonwort .....	33
Marsh horsetail .....	33	MORACEAE .....	43
Marsh lousewort .....	94	Moss campion .....	47
Marsh-orchids .....	126	Mossy saxifrage .....	61
Marsh pea .....	73	Mountain everlasting .....	102
Marsh pennywort .....	80	Mouse-ear hawkweed .....	101
Marsh speedwell .....	92	Mugwort .....	103
Marsh St. John's-wort .....	50	Musk mallow .....	50
Marsh stitchwort .....	46	Myosotis .....	85
Marsh violet .....	51	Myrica .....	43
Marsh woundwort .....	86	MYRICACEAE .....	43
Marsh yellow-cress .....	55	Myriophyllum .....	74
Marsh-marigold .....	39	Myrrhis .....	80
Masterwort .....	82		
Mat-grass .....	121	Nardus .....	121
Matricaria .....	103	Narrow buckler-fern .....	37
Mayweed, scented .....	103	Narrow-fruited water-cress .....	55
Mayweed, scentless .....	104	Narrow-leaved marsh-orchid .	126
Mayweed, sea .....	103	Narrow-leaved vetch .....	73
Meadow brome .....	118	Narthecium .....	123
Meadow crane's-bill .....	79	Navelwort .....	60
Meadow foxtail .....	117	Needle spike-rush .....	111
Meadow vetchling .....	73	Neottia .....	125
Meadow-grass .....	122	New Zealand willowherb .....	75
Meadowsweet .....	62	Nipplewort .....	99
Meconopsis .....	42	Nitella .....	128
Medicago .....	73	Northern bedstraw .....	96
Medium-flowered winter-cress .	55	Northern yellow-cress .....	55
Melampyrum .....	93	Nuphar .....	39

Nymphaea .....	39	Perforate St. John's-wort .....	49
Oak .....	44	Persicaria .....	48
Oak fern .....	36	Petasites .....	104
Oat .....	117	Petroselinum .....	82
Odontites .....	94	Petty spurge .....	77
Oenanthe .....	81	Peucedanum .....	82
OLEACEAE .....	90	Phalaris .....	121
ONAGRACEAE .....	75	Phegopteris .....	35
OPHIOGLOSSACEAE .....	33	Phleum .....	121
Ophioglossum .....	33	Phragmites .....	121
Ophrys .....	127	Phyllitis .....	35
Opium poppy .....	41	Picea .....	38
ORCHIDACEAE .....	125	Pignut .....	81
Orchis .....	127	Pill sedge .....	115
Oreopteris .....	35	Pilosella .....	101
Origanum .....	88	Pimpinella .....	81
OROBANCHACEAE .....	94	PINACEAE .....	38
Orobanche .....	94	Pineapple weed .....	103
Orphine .....	61	Pinguicula .....	95
Osier .....	53	Pink water-speedwell .....	92
Osmunda .....	33	Pinus .....	38
OSMUNDACEAE .....	33	PLANTAGINACEAE .....	90
Oval sedge .....	115	Plantago .....	90
OXALIDACEAE .....	78	Platanthera .....	125
Oxalis .....	78	Plicate sweet-grass .....	120
Oxeye Daisy .....	103	Poa .....	122
		POACEAE .....	116
Pale persicaria .....	48	POLEMONIACEAE .....	85
Pale sedge .....	115	Polemonium .....	85
Papaver .....	41	Polygala .....	78
PAPAVERACEAE .....	41	POLYGALACEAE .....	78
Parietaria .....	43	POLYGONACEAE .....	48
Parnassia .....	62	Polygonum .....	48
Parsley .....	82	POLYPODIACEAE .....	34
Parsley fern .....	34	Polypodium .....	34
Parsley-piert .....	69	Polypody .....	34
Parsnip .....	83	Polystichum .....	37
Pastinaca .....	83	Pondweeds .....	106-108
Pearlwort .....	46	Pondweed, horned .....	108
Pedicularis .....	94	Poplar .....	52
Pellitory-of-the-wall .....	43	Populus .....	52
Pendulous sedge .....	115	Portland spurge .....	77
Pendunculate oak .....	44	PORTULACACEAE .....	45
Peppermint .....	89	Potamogeton .....	106
Perennial rye-grass .....	121	POTAMOGETONACEAE ..	106
Perennial sow-thistle .....	100	Potentilla .....	68
		Prickly sow-thistle .....	100

Primrose .....	59	Rhynchospora .....	112
Primula .....	59	Ribes .....	60
PRIMULACEAE .....	59	Ribwort plantain .....	90
Privet, wild .....	90	Rock stonecrop .....	61
Procumbent pearlwort .....	46	Rorippa .....	55
Prunella .....	87	Rosa .....	70
Prunus .....	70	ROSACEAE .....	62
Pseudofumaria .....	42	Rosebay willowherb .....	75
Pseudorchis .....	126	Rough chervil .....	80
Pteridium .....	35	Rough hawkbit .....	99
Pulicaria .....	102	Round-leaved mint .....	89
Purple moor-grass .....	121	Rowan .....	71
Purple willow .....	53	Royal fern .....	33
Purple-loosestrife .....	74	RUBIACEAE .....	96
Pyramidal orchid .....	125	Rubus .....	63
Pyrus .....	71	Rue-leaved saxifrage .....	62
		Rumex .....	49
Quaking grass .....	118	RUSCACEAE .....	124
Quercus .....	44	Ruscus .....	124
Quillwort .....	32	Rustyback fern .....	36
Ragged-Robin .....	47	Sagina .....	46
Ragwort .....	104	Sagittaria .....	105
Ramsons .....	123	Salad burnet .....	69
RANUNCULACEAE .....	39	SALICACEAE .....	52
Ranunculus .....	40	Salix .....	52
Rape .....	57	Sally .....	53
Raphanus .....	57	Salmonberry .....	67
Raspberry .....	65	Salsify .....	100
Red bartsia .....	94	Sambucus .....	97
Red campion .....	47	Samolus .....	60
Red clover .....	74	Sand couch .....	119
Red currant .....	60	Sanguisorba .....	69
Red dead-nettle .....	86	Sanicle .....	80
Red goosefoot .....	44	Sanicula .....	80
Red-osier dogwood .....	76	SANTALACEAE .....	76
Redshank .....	48	Saponaria .....	47
Reed canary-grass .....	121	Saxifraga .....	61
Reed sweet-grass .....	120	SAXIFRAGACEAE .....	61
Reflexed stonecrop .....	61	Scabious .....	98
Remote sedge .....	115	Scaly male-fern .....	37
Reseda .....	58	Scandix .....	80
RESEDACEAE .....	58	Scarlet pimpernel .....	60
RHAMNACEAE .....	77	Schoenoplectus .....	111
Rhamnus .....	77	Schoenus .....	112
Rhinanthus .....	94	Scirpus .....	111
Rhododendron .....	58	Scots pine .....	38

Scrophularia .....	91	Snowberry .....	97
SCROPHULARIACEAE .....	90	Snow-in-Summer .....	46
Scutellaria .....	87	Soapwort .....	47
Sea mouse-ear .....	46	Soft rush .....	110
Sedum .....	61	Soft shield-fern .....	37
Selaginella .....	32	Soft-brome .....	118
SELAGINELLACEAE .....	32	SOLANACEAE .....	84
Selfheal .....	87	Solanum .....	84
Sempervivum .....	60	Solidago .....	102
Senecio .....	104	Sonchus .....	100
Sesleria .....	122	Sorbus .....	71
Sessile oak .....	44	Sorrel .....	49
Sharp-flowered rush .....	110	Southern polypody .....	35
Shepherd's-needle .....	80	SPARGANIACEAE .....	122
Shepherds-purse .....	56	Sparganium .....	122
Sherardia .....	96	Spearwort, greater .....	40
Shining crane's-bill .....	79	Spearwort, lesser .....	40
Shore horsetail .....	33	Spergula .....	47
Shoreweed .....	90	Spiked water-millfoil .....	74
Silene .....	47	Spindle .....	76
Silver birch .....	44	Spiraea .....	62
Silver hair-grass .....	117	Spirodela .....	109
Silverweed .....	68	Spring sedge .....	113
Sinapis .....	57	Square-stalked St. John's-wort ..	50
Sisymbrium .....	54	St. John's-worts .....	49
Sisyrinchium .....	124	Stachys .....	86
Sitka spruce .....	38	Star sedge .....	113
Sium .....	81	Starry saxifrage .....	62
Six-stamened waterwort .....	49	Stellaria .....	46
Skull-cap .....	87	Sticky mouse-ear .....	46
Slender parsley-piert .....	69	Stinking chamomile .....	103
Slender sedge .....	114	Stone bramble .....	67
Slender soft-brome .....	118	Stratiotes .....	106
Slender speedwell .....	93	Succisa .....	98
Slender St. John's-wort .....	50	Summer snowflake .....	124
Slender Tufted-sedge .....	112	Sun spurge .....	77
Small nettle .....	43	Sundew .....	50
Small sweet-grass .....	120	Sweet briar .....	70
Small water-pepper .....	48	Sweet cicely .....	80
Small-leaved elm .....	43	Sweet vernal-grass .....	117
Small-white orchid .....	126	Sweet violet .....	51
Smooth brome .....	118	Sycamore .....	78
Smooth lady's mantle .....	69	Symphoricarpos .....	97
Smooth sow-thistle .....	100	Symphytum .....	85
Smooth-stalked sedge .....	114	Syringa .....	90
Smyrnium .....	80		
Sneezewort .....	103	Tall ramping-fumitory .....	42

Tamus .....	124	Tripleurospermum .....	103
Tanacetum .....	102	Trisetum .....	122
Tansy .....	102	Trollius .....	39
Taraxacum .....	100	Tufted hair-grass .....	119
Tasteless water-pepper .....	48	Tufted sedge .....	113
Tawny sedge .....	114	Tufted vetch .....	72
TAXACEAE .....	39	Tunbridge filmy-fern .....	34
Taxus .....	39	Tussilago .....	104
Teasel .....	98	Tutsan .....	49
Teucrium .....	87	Twayblade .....	125
Thale cress .....	54	Typha .....	123
Thalictrum .....	41	TYPHACEAE .....	123
THELYPTERIDACEAE .....	35	Ulex .....	74
Thelypteris .....	35	ULMACEAE .....	42
Thesium .....	76	Ulmus .....	42
Thin-spiked wood-sedge .....	116	Umbilicus .....	60
Thistle, carline .....	98	Upright hedge-parsley .....	83
Thistle, creeping .....	99	Urtica .....	43
Thistle, marsh .....	99	URTICACEAE .....	43
Thistle, meadow .....	99	Utricularia .....	95
Thistle, musk .....	99	Vaccinium .....	59
Thistle, slender .....	99	Valerian .....	97
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Thistle, welted .....	98	VALERIANACEAE .....	97
Thlaspi .....	57	Valerianella .....	97
Three-nerved sandwort .....	45	Various-leaved water-starwort ..	89
Thyme-leaved sandwort .....	45	Verbascum .....	90
Thyme-leaved speedwell .....	92	Veronica .....	92
Thymus .....	88	Viburnum .....	97
Tilia .....	50	Vicia .....	72
TILIACEAE .....	50	Vinca .....	84
Timothy .....	121	Viola .....	51
Toad rush .....	109	VIOLACEAE .....	51
Toadflax .....	91	Violet .....	54
Toadflax, bastard .....	76	Vulpia .....	122
Tolypella .....	128	Wall rue .....	36
Toothwort .....	94	Wall speedwell .....	92
Torilis .....	83	Wall-flower .....	54
Tormentil .....	68	Water avens .....	68
Tragopogon .....	100	Water horsetail .....	32
Trailing St. John's-wort .....	50	Water lobelia .....	95
Trailing tormentil .....	68	Water mint .....	88
Treacle mustard .....	54	Water pepper .....	48
Trichophorum .....	111	Water plantain .....	105
Trifid bur-marigold .....	105		
Trifolium .....	73		
Triglochin .....	106		

Water sedge .....	112	Wood vetch .....	72
Water-cress .....	55	Woodruff .....	96
Water-crowfoot .....	41	Wood-sedge .....	116
Water-dropwort .....	81	Wood-sorrel .....	78
Water-milfoil .....	74	Woundwort .....	86
Water-purslane .....	74	Wych elm .....	42
Water-soldier .....	106		
Water-violet .....	59	Yarrow .....	103
Wavy hair-grass .....	119	Yellow archangel .....	86
Weld .....	58	Yellow bird's-nest .....	59
Welsh poppy .....	42	Yellow corydalis .....	42
White beak-sedge .....	112	Yellow iris .....	124
White campion .....	47	Yellow loosestrife .....	60
White clover .....	73	Yellow oat-grass .....	122
White dead-nettle .....	86	Yellow pimpernel .....	59
White mustard .....	57	Yellow rattle .....	94
White sedge .....	113	Yellow water-lily .....	39
White stonecrop .....	61	Yellow-juiced poppy .....	42
White water-lily .....	39	Yellow-wort .....	83
White willow .....	53	Yew .....	39
Whitlowgrass .....	56	Yorkshire-fog .....	121
Whorl-grass .....	118		
Wild angelica .....	82	Zannichellia .....	108
Wild carrot .....	83	ZANNICHELLIACEAE .....	108
Wild cherry .....	71	Zigzag clover .....	74
Wild marjoram .....	88		
Wild mignonette .....	58		
Wild oat .....	117		
Wild pansy .....	52		
Wild pear .....	71		
Wild Plum .....	70		
Wild privet .....	90		
Wild radish .....	57		
Wild strawberry .....	68		
Wild Teasel .....	98		
Wild thyme .....	88		
Wild turnip .....	57		
Willowherb .....	75		
Winter heliotrope .....	104		
Winter-cress .....	55		
Wood anemone .....	40		
Wood avens .....	68		
Wood horsetail .....	33		
Wood melic .....	121		
Wood sage .....	87		
Wood small-reed .....	118		
Wood speedwell .....	92		