A SECOND SUPPLEMENT
TO, AND
SUMMARY
OF
STEWART AND CORRY'S
FLORA
OF THE NORTH-EAST OF IRELAND.

COMPILED BY SYLVANUS WEAR.

WITH AN INTRODUCTION BY R. LLOYD PRAEGER.

PUBLISHED BY
THE BELFAST NATURALISTS' FIELD CLUB.

SOLD BY

W. ERSKINE MAYNE, BOOKSELLER, DONEGALL SQUARE WEST, BELFAST
1923.

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SYLVANUS WEAR.

To fac. Title page

[Photo D. J. Hogg.

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ADDENDA AND CORRIGENDA.

p. xi. Add to List of Contractions :—

D'Arcy—Most Rev. C. F. D'Arcy, Lord Primate.
Greer—Thomas Greer, Stewartstown.
Porter—W. Porter, Balmoral, Belfast.

p. 23. After *Onobrychis* add :

Anthyllis Vulneraria L. Common. Fl. 38. DO. AN, LD.

pp. 126—128. Add to Index :—

Acorus, 98.
Egopodium, 48.
Comarum, 33.
Smyrniun, 47.

p. 128. *Pyrola* : for 65 read 67.

INTRODUCTION.

STEWART and Corry's *Flora of the North-East of Ireland* was published by the surviving editor, Samuel Alexander Stewart, in 1888. It gave for the first time a full account of the flora of the home counties of the north-eastern botanist (Down, Antrim and Londonderry).

In 1895 a first Supplement to the *Flora* was published by S. A. Stewart and R. Lloyd Praeger, in which a considerable number of additional species, and new localities for rarer species, were given.

The object of the present publication is two-fold. It forms a second Supplement to the *Flora*, detailing the additional information relative to local plant distribution that has accrued in the twenty-eight years which have elapsed since the appearance of the first Supplement. And secondly it is designed to act as a synopsis of our knowledge of the flora up to date. To effect this, all plants which occur in the district are included, and to the details of any additional information relative to each species which may have accrued since the issue of the first Supplement, a reference is added to the page of the *Flora* or of the first Supplement on which earlier information concerning the plant in question is to be obtained. While the list of plants thus represents the whole flora as at present known, the reader, in order to obtain full information as to the distribution of a species, must consult the *Flora* and the first Supplement at the pages named, in addition to noting the additional stations given.

The preparation of the present Supplement was entrusted by the Committee of the Belfast Naturalists' Field Club to a Sub-Committee consisting of S. A. Bennett, B.Sc., N. Carrothers, R. Lloyd Praeger, D.Sc., A. W. Stelfox, W. J. C. Tomlinson, Rev. C. H. Waddell, B.D., and Sylvanus Wear. The labour of preparing the manuscript from all existing material fell entirely on the last-named; this task he carried to a successful close, and after a brief illness he died within a week of its completion; its thoroughness and accuracy are a fitting memorial of one of the most careful and industrious of local workers, and one of the most helpful and most modest of men. Death has been busy among the ranks of local botanists. The present publication enshrines the last work of Canon Lett and Mr. Waddell, both of whom did so much for Irish botany, and also posthumous notes of W. J. C. Tomlinson, Rev. S. A. Brennan, Mrs. Leebody and S. A. Stewart. Stewart's later work was mainly published in the first Supplement in 1895, to which S. A. Brennan, J. H. Davies, Miss Knowles, Mrs. Leebody, Canon Lett, R. Lloyd Praeger, and C. H. Waddell were also extensive contributors. Of those who contributed in any material measure to the original *Flora* published in 1888, the present writer is the only one left alive.

PROGRESS OF RESEARCH.

At the time of its publication, the *Flora of the North-East of Ireland* presented the most detailed account of plant distribution yet published for any part of this country. The numerous stations for the rarer plants which it gave represented the work of many past and present workers, notably John Templeton, David Moore, William Thompson, G. C. Hyndman, Ralph Tate, George Dickie, William Millen, and F. Whitla. But the great bulk of the material represented S. A. Stewart's own work. He had been collecting information for twenty-five years, and had been exploring the area systematically during the greater portion of that period. His co-editor T. H. Corry was drowned while botanizing on Lough Gill only a short time after he had joined Stewart in the scheme, which threw more work still upon that indefatigable botanist. Taking into account Stewart's limited time and narrow circumstances, and the fact that he was self-taught in botany as in other things, the *Flora* is a noble monument to his industry.

But the district was by no means exhausted. The "Supplement," published seven years later, gives a list of some twenty additions to the *Flora*, exclusive of some twenty-five Bramble and Hawkweed segregates, and includes many important extensions of range. The fact that the number of additions is not larger in spite of active work on the part of local botanists shows the thoroughness of Stewart's work.

Now, thirty-five years have elapsed since the *Flora* was published, and a much greater advance can be recorded. Exclusive of segregates of *Rubus*, *Rosa*, and *Hieracium*, the number of species added to the original *Flora* is about fifty-five. Most of these are wholly new discoveries so far as the North-east is concerned, but some had been, or were supposed to have been, found previously, but were not admitted to the *Flora* on the grounds of being not native nor naturalized, or wrongly named. These additions include some very interesting plants, a few of which deserve special mention.

Spiranthes Romanzoffiana is the most interesting member of our flora. This Orchid, widely spread in northern North America (and just crossing Behring Straits into Asia) was for eighty-two years (1810-1892) known in Europe only from a limited area of County Cork. Its discovery in Armagh in 1892 has been followed by the finding of numerous other stations around Lough Neagh and on the Upper and Lower Bann; while confined to the one river system, it is now known to occur in the Counties of Down, Antrim, Derry, Tyrone, and Armagh, and in many of its stations it is present in considerable abundance.

And just as our area can now claim to possess one of the American plants which give an added interest to the flora of Ireland, so it can now also show one of the southern species which are a striking feature of the Irish flora, and whose mingling with the northern plants in the West of Ireland forms one of the most remarkable phenomena of European vegetation. The grass *Glyceria festucaeformis*, found abundantly around Strangford Lough (and also in the Shannon estuary) is elsewhere exclusively Mediterranean in its range.

The Scottish and Scandinavian element in the Irish flora has its focus in Co. Antrim, and this feature has been emphasized by the finding in that county of three northern Sedges, *Carex pauciflora*, *C. virgata*, *C. aquatilis*, (the first two confined in Ireland to the Antrim moors), as well as various Hawkweeds. The local alpine flora, (which is poor in spite of the elevated habitats offered by the Mourne Mountains) has been enriched by the addition of *Saussurea alpina*.

On the other hand, work in Co. Down especially has extended into our district the range of a number of plants whose centre of distribution lies further south in Ireland. Some of these are seacoast plants—*Cochlearia anglica* (Derry), *Trigonella ornithopodioides* (Down), *Crithmum maritimum* (Down, Antrim), *Artemisia maritima* (Down), *Statice occidentalis* (Down), *Zostera nana* (Down). Others are characteristic of the Central Plain of Ireland. This is a limestone area with much water, and the spread of some of the plants to Co. Down has apparently been assisted by the dispersal over the Silurian area during the Ice Age of limestone from Castle Espie near Comber. In Co. Antrim the basalt furnishes a soil rich in lime, while along the coast limy sands have allowed the spread of other calcicole species. The additional plants which are characteristic of the Central Plain include *Ranunculus circinatus*, *Stellaria palustris*, *Orchis pyramidalis*, *Potamogeton plantagineus*, *Chara polyacantha*.

The finding of *Carex extensa* on Lough Neagh is interesting, adding another maritime species to the group of seaside plants which form a peculiar feature of the flora of that lake. This group now includes *Viola Curtisii*, *Spergularia rupestris*, *Cerastium semidecandrum*, *C. arvense*, *Erodium cicutarium*, *Trifolium arvense*, *Scirpus maritimus*, *S. Tabernaemontani*, *Carex extensa*. These are in Ireland all characteristically maritime species, and several of them have no other inland station in the country.

Other interesting additions include *Nasturtium sylvestre* (Down), characteristic of the river system of S.E. Ireland; *Teesdalia nudicaulis* (Down, also Tyrone) unknown elsewhere in Ireland; *Galium sylvestre* (Antrim), elsewhere in Ireland confined to the western limestone rocks from Kerry to Leitrim; *Hypochaeris glabra* (Derry), only Irish station; *Allium oleraceum* (Antrim), only Irish station; and *Hordeum sylvaticum* (Antrim), only Irish station.

Among critical plants good progress has been made. Thanks mainly to the work of Canon Lett and Mr. Waddell, the local Brambles are tolerably well worked out, particularly those of Co. Down. Mr. Waddell also did much useful work at the Roses, and a number of botanists have collected Hieracia. The progress made may be rightly measured by a comparison of the number of forms—species, varieties or hybrids—of each group recorded in the *Flora* and in the present publication. In the *Flora* Rubi number 34, Rosae 18, Hieracia 19. The numbers now stand at—Rubi 79, Rosae 55, Hieracia 45.

As regards the extensive section of the flora which is not indigenous to the country, the new records, so far as naturalized species are concerned, refer less to new-comers or to plants which have recently been discovered than to others which, long known in our area, have increased their hold, and may now be admitted as established. Many of these are Central or South European plants, which became established in Southern Ireland before reaching the North: such are *Draba muralis*, *Lepidium Draba*, *Lactuca muralis*, *Erinus alpinus*, *Juncus*

tenuis. Others are North American plants—*Senebiera didyma*, *Matricaria discoidea*, *Mimulus guttatus*. *Veronica peregrina*, also American, differs from these in having its Irish centre of dispersal in the North. The number of casuals recorded from our district has been increased largely, and no doubt some of them will in turn obtain a permanent footing, and be admitted in future Floras as fully established.

Besides actual additions to the local flora, a large number of very satisfactory extensions of range of rarer plants is now recorded. In the following list some of these are given; and in the figures following the names an indication is shown of the past and present standing of the plants, the first figure representing the number of stations (some of which have not been verified since) known when the *Flora* was published, and the second figure the number of stations discovered since (*lf* meaning locally frequent).

	STATIONS.	
	In <i>Flora</i>	Additional.
<i>Draba incana</i> ...	... 2	2
<i>Elatine Hydropiper</i>	... 3	2
<i>Spergularia rubra</i>	... 3	3
<i>Hypericum quadrangulum</i>	... 3	<i>lf</i>
<i>Trifolium striatum</i>	... 2	<i>lf</i>
<i>Vicia Orobus</i> ...	... 1	<i>lf</i>
<i>Dryas octopetala</i> ...	... 1	1
<i>Arctostaphylos Ura-ursi</i>	... 1	3
<i>Andromeda polifolia</i>	... 1	1
<i>Pyrola secunda</i> ...	... 4	1
<i>Stachys Betonica</i> ...	... 2	1
<i>Utricularia intermedia</i>	... 1	1
<i>Atriplex portulacoides</i>	... 1	<i>lf</i>
<i>Epipactis palustris</i>	... 2	2
<i>Juncus obtusiflorus</i>	... 1	<i>lf</i>
<i>Cladium Mariscus</i>	... 2	<i>lf</i>
<i>Carex teretiuscula</i> ...	... 3	<i>lf</i>
<i>C. muricata</i> ...	... 1	<i>lf</i>
<i>C. stricta</i> ...	... 3	3
<i>C. filiformis</i> ...	... 1	<i>lf</i>
<i>Poa compressa</i> ...	... 2	6
<i>Schlerochloa rigida</i>	... 2	4
<i>Lastrea spinulosa</i>	... 1	4

MISSING PLANTS.

In the first Supplement a list was given of 29 species which at that time had not been seen in the district for many years, and the re-finding of which was very desirable. Excellent work has been done among these desiderata, and they may now be re-arranged as follows:—

(1) Refound in the district :—

Sisymbrium Sophia (casual).
Rhamnus catharticus.
Geranium sanguineum (escape).
Trifolium striatum.
Lathyrus palustris.
Pyrus Aria.
Arctostaphylos Uva-ursi.
Pyrola secunda.
Solanum nigrum (casual).
Chenopodium rubrum.
Tacus baccata.
Epipactis palustris.
Eleocharis uniglumis.
Carex filiformis.
C. paludosa.
Calamagrostis Epigejos.
Poa nemoralis.
Lastrea Thelypteris.

(2) Plants believed extinct or errors :—

Brassica nigra (extinct casual).
Leontodon hispidum (error).
Gentiana Amarella (probably error).
Cephalanthera ensifolia (extinct).
Sclerochloa procumbens (extinct casual).
Hordeum pratense (extinct)
Tolypella nidificu (specimens doubtful).

(3) Still awaiting re-discovery : ±

Carex elongata (last seen 1838).
Polypodium Dryopteris („ 1840).
Pilularia globulifera („ 1834-38).

To the last category a few more plants must now be added, as most of them have not been seen in the district since the publication of the *Flora* thirty-five years ago, and some of them (as shown), for a longer period :—

Subularia aquatica (1870).
Salix nigricans (1834-38).
S. phyticifolia (1834-38).
Zannichellia polycarpa (1890).
Eriophorum latifolium (1834-38).
Carex Buxbaumii (1886).
Equisetum variegatum (1834-38).
Hymenophyllum tunbridgense (1834).

PLANTS WITHDRAWN FROM THE FLORA.

In the 1855 Supplement, five plants were withdrawn from the *Flora*, as given below, and for the reason shown:—

- Ouonis spinosa* (casual).
- Rosa micrantha* (error).
- Silene pratensis* (casual).
- Calamintha officinalis* (casual or error).
- Primula veris* (not established).

The judgment regarding the first four of these still stands, except that the first was probably an error, but the last may be reinstated, as it is well established about Rostrevor. A few additional species must now be withdrawn for the reasons given:—

- Fumaria muralis* (error).
- Rubus Chamaemorus* (outside our area).
- Matricaria Chamomilla* (error).
- Allium vineale* (error).

To these two lists must be added List (2) on p. vii, if the total of plants withdrawn from the *Flora of the North-East* is to be obtained.

TOPOGRAPHICAL.

If we view from a topographical standpoint the progress which has been made since the publication of the *Flora* in 1888, we find that the largest contribution of new plants has come from the exploration of eastern Down. Work in the Ards, and in the interesting area lying between Strangford Lough and Dundrum Bay, has resulted in many additions to the flora: and the exploration of the Mourne Mountains has added some good plants. On the other hand, central and western Down have never received much attention, and undoubtedly require further work—their lakes and marshes in particular.

In Antrim, searches on the Lough Neagh shores have restored to the flora many of the rather numerous plants which for many years eluded re-discovery there, and have also added some interesting species. The grand cliffs and gleens of the eastern coast have yielded some good additions, and the plateau bogs of Garron and Dunloy have well repaid the work that has been bestowed upon them. The course of the Lower Bann, and the central parts of the county, are less known.

Londonderry, least known of the three counties when the *Flora* was published, still occupies the same position as it did then, the reason being its lesser accessibility from Belfast. About Magilligan good work has been done, but almost all the remainder of the county calls for exploration—the shores of Lough Neagh, the valleys of the Bann and Roe, and the mountainous areas in the centre and west in particular.

NATIVES AND ALIENS.

Some trouble has been taken in the present compilation with regard to the difficult question of native and non-native species. Much confusion and want of uniformity of treatment exist in local Floras on this question, owing partly to its inherent difficulties, but in great measure to the lack of clear thinking. In studying vegetation from this standpoint, several courses are open to the botanist.

We may argue, as Woodruffe Peacock did,¹ that since man is a product of nature, his operations should rank as natural processes, not to be distinguished as regards plant dispersal from those carried out by the beasts and birds. Pursued to its logical limit, this view would lead us to include in the local flora every plant growing within the area, from true natives to specimen conifers, potatoes, and tropical orchids.

A more usual and less extreme view would take no cognisance of species planted and maintained by man, such as crop plants and the contents of gardens and greenhouses, but would include in the flora all casual followers in man's train—plants introduced in the course of agriculture and commerce, and maintaining themselves by man's assistance, in the way of keeping down the native vegetation by cultivation, &c. This is approximately the view of the *Flora of North-East Ireland*, in which such dependents as the Poppies and Fumitories are included in the flora without comment. In many other works (e.g. "Cybele Hibernica," "Irish Topographical Botany") an attempt is made to go further, by using signs meaning "possibly introduced," "probably introduced," "certainly introduced," &c. But these terms are vague and need clear definition.

When we think how catastrophic has been the influence of man during the last couple of thousand years upon the pre-existing vegetation, built up by the slow processes of competition, migration, and secular change, and how unstable and ephemeral is the vegetation which occupies the area of his occupation, it seems desirable from every point of view, and especially from that of the study of plant geography, to separate, in an analysis and discussion of the flora, so far as we can, the pre-human flora from that which has resulted from the practice of agriculture. In countries such as our own, where almost every portion bears the imprint of man's handiwork, this is not always easy, and can only be attempted with a clear understanding of the problem. We aim at reconstructing the aboriginal flora from a study of that flora on the area at the present time. What are the tests to be employed? What do we mean by an aboriginal or truly native plant? It has seemed to the writer that the definition of S. T. Dunn,² provides the most convenient answer to the question:—a native plant is one which has spread by natural (i.e. non-human) means from a natural source to a natural habitat. Three points are thus involved—parentage, dispersal, habitat—and human influence on any one of the three will rule a plant out from ranking as fully indigenous. An example of failure on each of these three points will make the test clearer.

¹ E. A. Woodruffe-Peacock: *Natives and Aliens*. "Journ. of Bot.", xlv, 340. 1908.

² S. T. Dunn: *The Alien Flora of Britain*, p.x.

(1) *Mimulus guttatus* is not native by our mountain streams because, though it came there by natural seed dispersal, the source of the seed was a garden.

(2) *Pinguicula grandiflora* is not native in wild ground at Blackstairs, Co. Wexford, because the roots were brought there from Kerry by a botanist.

(3) *Equisetum variegatum* is not native along the Royal Canal, though it has spread there naturally from native stations, because its habitat there is artificial.

Such tests are often not easy to apply, but it seems certain that the attempt should be made, for without such inquiry it would be impossible to study the flora in the light of its past history, or to attempt to use the evidence of the plants for bygone changes in climate or in the distribution of sea and land.

In the following pages, then, a clear distinction is made between plants believed to be aboriginal, and those which on any of the above counts owe their presence in our district to human influence: the former being printed in Clarendon type, the latter in Italic. In the case of the latter, plants which are considered as established in the area so long as present conditions (natural or artificial) remain, appear in italics without brackets; while the names of those which are looked on as not established, as well as those which have been recorded in error, are printed in italic within brackets.

MOSESSES AND HEPATICS.

The present publication differs from the *Flora* and its First Supplement inasmuch as the Flowering Plants and Pteridophytes alone are dealt with, no attempt being made to bring up-to-date our knowledge of the Mosses and Hepatics. The recent death of the leading local workers at these groups, Canon Lett and Rev. C. H. Waddell, is mainly responsible for this. But recent information respecting the distribution of these plants is available—as regards the Mosses, in Canon Lett's "Census Catalogue of the Mosses of Ireland" (Proc. R.I. Academy xxxii, Sect. B, 1915), and as regards the Hepatics in the same writer's "Catalogue of British Hepatics" (1904) and McArdle's "List of Irish Hepaticae" (Proc. R.I. Academy xxiv, 1904).

CONTRACTIONS USED IN THE FOLLOWING PAGES.

- Adams—John Adams, M.A., Antrim, now of Canadian Dept. of Agriculture.
B. N. F. C.—*Proceedings of the Belfast Naturalists' Field Club.*
 Bennett—S. A. Bennett, B.Sc., Campbell College, Belfast.
 Brennan—Rev. S. A. Brennan, B.A., Cushendun.
 Carrothers—Nathaniel Carrothers, Belfast.
 Chase—Capt. C. D. Chase, Campbell College, Belfast.
Corry MS.—Annotated copy of Dickie's "*Flora of Ulster*" in Belfast Museum.
Cyb. I., II.—" *Cybele Hibernica*," ed. 1, (1866), ed. 2, (1898).
 Darragh—William Darragh, Belfast.
 Druce—G. Claridge Druce, M.A., Oxford.
Fl. Belf.—" *Flora Belfastiensis*," by Ralph Tate, 1863.
Fl. Ulst.—" *Flora of Ulster*," by Prof. George Dickie, F.R.S., 1864.
 Foster—Nevin H. Foster, F.L.S., Hillsborough.
G. I. T. B.—" *Gleanings in Irish Topographical Botany*," by R. Ll. Praeger, (in *Proc. R. I. Academy*, xxiv, Sect. B., 1902).
 Hanna—Richard Hanna, Belfast.
 Hart—H. C. Hart, B.A., Carrablagh, Co. Donegal.
 Henry—James Henry, Coleraine.
 Houston—J. D. Houston, Lurgan.
Ir. Fl.—" *The Irish Flora* " [by Lady Kane], 1846.
I. N.—" *Irish Naturalist*."
I. T. B.—" *Irish Topographical Botany*," by R. Ll. Praeger, 1901.
 Knowles—Miss M. C. Knowles, Ballymena, now of National Museum, Dublin.
 Leebody—Mrs. Leebody, Londonderry.
 Lett—Rev. Canon H. W. Lett, M.A., Loughbrickland.
 Lilly—C. J. Lilly, D.I., R.I.C., Limavady.
 Marshall—H. C. Marshall, Bangor.
 Megaw—Rev. W. R. Megaw, B.A., Belfast.
 Milligan—Alexander Milligan, Belfast.
 Moore—David Moore, Ph.D., F.L.S., Dublin. His MS. Notes are referred to as "*Moore MS.*," and his Herbarium, preserved at Glasnevin Gardens and in the National Museum, as "*Herb. Moore.*"
 More—A. G. More, F.L.S., Dublin.
 Praeger—R. Ll. Praeger, D.Sc., Dublin.
 Robinson—Hugh Robinson, Belfast.
 Rogers—Rev. W. Moyle Rogers, M.A., Bournemouth.
 Stelfox—A. W. Stelfox, Dublin.
 Stewart—S. A. Stewart, A.L.S., Belfast. His MS. Notes are referred to as "*Stewart MS.*"
Sup.—*Supplement to Flora N.E. Ireland*, by Stewart & Praeger, 1895.
Sup. Cyb. I.—" *Recent Additions to the Flora of Ireland*," by A. G. More, (*Proc. R. I. Academy*, 1872).
 Templeton—John Templeton, A.L.S., Belfast. His MS. "*Flora Hibernica*" is referred to as "*Templeton MS.*"

Tomlinson—W. J. C. Tomlinson, Belfast.

Waddell—Rev. C. H. Waddell, B.D., Saintfield.

W. B. E. C.—*Reports of the Watson Botanical Exchange Club.*

Wade Rar.—“*Plantæ Rariores in Hibernia inventæ*,” by Walter Wade,
M.D., 1804.

Wear—Sylvanus Wear, Belfast.

ILLUSTRATIONS.

Sylvanus Wear	...	...	...	...	To face Title page
Some Contributors to the “Flora of the North-East of Ireland”	...	...	...	...	„ page 1
Spiranthes Romanzoffiana	...	...	...	...	„ „ 91

S. A. STEWART, A.L.S.

CANON H. W. LETT, M.A., M.R.I.A.

W. J. C. TOMLINSON.

REV. C. H. WADDELL, M.A., M.R.I.A.

T. H. CORRY, M.A., M.R.I.A.

SOME CONTRIBUTORS TO THE
"FLORA OF THE NORTH-EAST OF IRELAND."

FLORA OF NORTH-EAST IRELAND.

RANUNCULACEÆ.

Thalictrum minus L.

T. dunense Dum. Local. *Fl.* 1 (as *T. minus*). DO, AN, —.

Down—Rathmullan, Benderg Bay, and in Ards opposite Green Island (*Praeger*)—*I.N.* xi, 201; xii, 254. Portavogie and still at Newcastle, 1920, *Tomlinson*.

Antrim—Sandhills near Portrush 1852, *Babington in Herb.*—*Cyb.* II; still there 1916, *Henry*. Bushfoot (*Mrs. Swan*)—*I.T.B.* Still at Ballycastle, decreasing 1915, *Tomlinson*.

T. collinum Wallr. Very rare. *Fl.* 1, *Sup.* 145. DO, AN, LD.

(*T. minus* L. var. β . *T. montanum* Wallr. of *Flora*).

Down—Sandhills at Ballykinler 1900 (*Waddell*)—*W.B.E.C.* 1900.

“In spite of sandhill situation not *dunense* Dum.”—*E. F. Linton*.

[*T. majus* Smith. Error. *Fl.* 290. DO, —, —.]

T. flavum L. *Fl.* 1, *Sup.* 145. —, AN, LD.

Confined to Lough Neagh basin, where it is abundant.

Antrim—Crumlin (*Knowles*)—*I.T.B.* Still at Massereene Park 1907, Cranfield 1911, and Selshan 1915, *Tomlinson*. Below Toome near Lough Beg 1919, *Megaw*.

Derry—Kilrea 1914, *Houston*.

Anemone nemorosa L. Common. *Fl.* 2. DO, AN, LD.

[*Myosurus minimus* L. Error. *Fl.* 290. —, AN, —.]

Ranunculus circinatus Sibth. *Fl.* 290, *Sup.* 145. DO, AN, —.

Very rare.

Down—Lagan Canal near Ellis's Cut 1911 (*Waddell*)—*I.N.* xxi, 134.

Antrim—Lagan Canal at Aghagallon 1903, and near Aghalee 1911, (*Tomlinson*)—*I.N.* xxi, 134.

R. fluitans Lamk. One river—only Irish station. *Fl.* 3. —, AN, —.

Antrim—Still at intervals in Sixmilewater between Dunadry Bridge and Lough Neagh 1920, *Tomlinson*. Confined to this stream.

R. trichophyllus Chaix. Frequent. *Fl.* 2, *Sup.* 145. DO, AN, LD.

- [*R. Drouetii* F. Schultz. Error. *Fl.* 290. DO, AN, —.]
- R. heterophyllus** Fries. Frequent. *Fl.* 2, *Sup.* 145. DO, AN, LD.
- R. peltatus** Fries. Frequent. *Fl.* 3, *Sup.* 145. DO, AN, LD.
 Derry—Bann at Kilrea 1894 (*Leebody*)—*Stewart MS.* Lakelet between
 Moneymore and Magherafelt (*Tomlinson*)—*B.N.F.C.* vi, 60.
- var. **truncatus** Hiern. *Sup.* 145. DO, —, —.
 Down—Clanrye River at Sheepbridge, and Loughbrickland (*Lett*)—
W.B.E.C. 1895. Aughnadarragh Lake (*Waddell*)—*W.B.E.C.*
 1904.
- var. **floribundus** (Bab.) *Sup.* 145. DO, —, —.
 Down—Loughbrickland (*Lett*)—*W.B.E.C.* 1895.
- var. **elongatus** F. Schultz. DO, —, —.
 Down—Canal near Scarva (*Lett*)—*W.B.E.C.* 1894.
- R. penicillatus** Dum. Frequent. *Fl.* 2, *Sup.* 145. DO, AN, LD.
 Down—Clanrye River near Sheepbridge 1901 (*Lett*)—*I.N.* xii, 28.
 Antrim—Main River at Glarryford and Larne Water above Larne
 (*Tomlinson*)—*B.N.F.C.* vi, 60.
- [*R. Baudotii* Godr. Error. *Fl.* 290, *Sup.* 145. DO, AN, —.]
- [*R. tripartitus* DC. Error. *Fl.* 290. —, AN, —.]
- R. hederaceus** L. Common. *Fl.* 3, *Sup.* 146. DO, AN, LD.
- R. sceleratus** L. Frequent. *Fl.* 3. DO, AN, LD.
 Derry—Not rare in this county as stated in *Flora, Houston*. Bellarena;
 common in north (*Leebody*)—*I.T.B.* Common about Coleraine,
Henry. Roe Mouth, *Lilly*.
- R. Flammula** L. Common. *Fl.* 3, *Sup.* 145. DO, AN, LD.
- [*R. reptans* L. Error. *Fl.* 290. —, AN, —.]
- R. Lingua** L. Rare. *Fl.* 4, *Sup.* 146. DO, AN, LD.
 Down—Belvoir Park 1898 (*R. Standen*)—*Stelfox*. Rathmullan and
 Lough Cowey (*Praeger*)—*I.N.* xi, 201; xii, 254.
 Antrim—River Bush, *Henry*.
 Derry—Still at Magilligan (central portion) 1917 (*Lilly*)—*Praeger*.

- R. Auricomus** L. Frequent. *Fl.* 4, *Sup.* 146. DO, AN, LD.
Down—Rare in this county—*I. T. B.* Roadside between Milltown and Edenderry, *Stelfox*.
Antrim—Frequent.
Derry—Frequent about Kilrea, *Houston*.
- R. acris** L. Common. *Fl.* 4, *Sup.* 146. DO, AN, LD.
var. **tomophyllus** (Jord.) *Sup.* 146. DO, —, —.
var. **Boraeanus** (Jord.) —, AN, —.
Antrim—Near Portrush (*Druce*)—*I. N.* xxi, 235.
var. **Steveni** (Andrz.) —, AN, —.
Antrim—Glenarm (*Druce*)—*I. N.* viii, 198.
- R. repens** L. Very common. *Fl.* 4, *Sup.* 146. DO, AN, LD.
- R. bulbosus** L. Common. *Fl.* 4. DO, AN, LD.
- [*R. hirsutus* Curtis. Error. *Fl.* 291. DO, AN, LD.]
- [*R. parviflorus* L. Casual. *Fl.* 271. —, AN, —.]
- [*R. arvensis* L. Casual. *Fl.* 271. —, AN, —.]
- R. Ficaria** L. Common. *Fl.* 4. DO, AN, LD.
- Caltha palustris** L. Common. *Fl.* 5. DO, AN, LD.
var. **Guerangerii** (Bor.)
Antrim—Field east of Colin Glen above bridge, 1899—*Stewart MS.*
- [*Trollius europæus* L. Error. *Fl.* 291. —, AN, —.]
- [*Helleborus viridis* L. Escape. *Fl.* 271. DO, AN, —.]
- [*Aquilegia vulgaris* L. Escape. *Fl.* 271, *Sup.* 146. DO, AN, —.]

BERBERIDACEÆ.

- [*Berberis vulgaris* L. Planted. *Fl.* 271. DO, —, —.]

NYMPHÆACEÆ.

- Nuphar luteum** Smith. Frequent. *Fl.* 5. DO, AN, LD.

Nymphæa alba L. *Fl.* 5, *Sup.* 146.

DO, AN, LD.

Rare in AN, frequent elsewhere.

Antrim—Pond near Dunadry Station (*Tomlinson*,—*B.N.F.C.* v, 440.
Lissanure Castle—*B.N.F.C.* 1908.

PAPAVERACEÆ.

Papaver somniferum L. *Sup.* 147.

DO, —, —.

Down—Apparently naturalised on stony beach at Tara in Ards (*Praeger*)—*I.N.* xxvii, 118.

P. Rhæas L. Rare and local. *Fl.* 6, *Sup.* 147.

DO, AN, LD.

Down—Downpatrick, Millin Bay, and about Portaferry (*Praeger*)—*I.N.* vi, 280; xii, 254; xxvii, 118.

P. dubium L. Abundant in DO, less so in AN and LD. *Fl.* 6. DO, AN, LD.

P. Argemone L. Rare. *Fl.* 6.

DO, AN, LD.

Down—Tyrella, Rathmullan, Killough Harbour, Knockinelder, and near Portaferry (*Praeger*)—*I.N.* xi, 201; xxvii, 118.

Antrim—Near Lisburn (*D. Moore*—*Cyb.* I and II.

Derry—Still at Magilligan 1916, *Henry*.

P. hybridum L. Rare. *Fl.* 6, *Sup.* 146.

DO, —, —.

Down—Minerstown, Rathmullan, and Tyrella (*Praeger*)—*I.N.* xi, 201.

Meconopsis cambrica Vig. Very rare. *Fl.* 7, *Sup.* 147. DO, AN, LD.

Antrim—Still at Fairhead 1921 (*J. R. H. Greeves*). Still at Ardclinis, 1921, *Praeger*.

Derry—Refound at Magilligan Braes on Woodtown side of first stream east side of Eagle Hill 1916, *Henry*; also in 1917, *Tomlinson*, *Praeger*—*I.N.* xxvi, 169.

Glaucium flavum Crantz. Local. *Fl.* 7, *Sup.* 147.

DO, —, —.

Down—Near Rostrevor, 1808 (*Templeton*)—*Stewart MS.* Between Greencastle and Kilkeel—*Ir. Fl.* Still at Greencastle, 1906—*B.N.F.C.*, v, 488. Near Portaferry—*Corry MS.* At intervals from Tyrella to Rossglass and from Millin Bay to Newcastle (in Ards) (*Praeger*)—*I.N.* xi, 201; xii, 254. North of Newcastle—*Corry MS.*; still there 1908—*B.N.F.C.*, vi, 151.

Chelidonium majus L. Escape. *Fl.* 7.

DO, AN, LD.

FUMARIACEÆ.

Corydalis lutea DC. Escape. *Fl.* 271. DO, AN, —.
 Antrim—Dervock, on old wall near fountain 1915, *Henry*. Still at
 Crumlin 1920, *Praeger and Stelfox*.

[*C. claviculata* DC. Error. *Fl.* 291. DO, —, —.]

NOTE—The Culmore station (see *I.N.*, xix, 137), though politically in
 Derry, is botanically in Donegal, the River Foyle forming the
 boundary.

Fumaria. In 1903 and 1904 Miss Knowles and Mr. Praeger procured speci-
 mens of Irish Fumitories from various sources, and submitted them
 to Mr. H. W. Pugsley for determination. The records for our
 district verified by Mr. Pugsley are here followed by the mark !.
 See *I.N.* xiii, 33 and xiv, 156.

Fumaria capreolata L. Frequent. *Fl.* 8, *Sup.* 147. DO, AN, I.D.
 Down—Warrenpoint, coloured form, 1897 ! (*Stewart*). Ballynahinch !
Herb. Trin. Coll. Dublin. Many other stations !
 Antrim—Carriekfergus, 1894 ! *Knowles*. Ballymoney, 1904 ! *D. C.*
Campbell. Larne, 1904 ! *Carrothers*. Island Magee, 1904 ! *Lilly*.
 Possibly a native. The only Fumitory sometimes found in wild ground.

F. purpurea Pugsley. ? Rare. DO, AN, —.
 Down—Lenaderg, 1904 ! *Davies*. Near Shaw's Bridge, 1904 ! *Car-*
rothers.
 Antrim—Glenmore, 1859 ! *Davies*. Antrim 1904 ! *Tomlinson*. Larne
 (Druce)—*I.N.* xxi, 235.

F. Borci Jord. Frequent. *Fl.* 8. DO, AN, —.
 Down—Ballylesson 1872 ! *Stewart*. Comber, 1904 ! *Carrothers*.
 Antrim—Malone 1892 ! *Stewart*. Antrim, 1904 ! *Adams*.
 var. *serotina* Clavand. DO, —, —.
 Down—Saintfield 1903 (*Waddell*)—*W.B.E.C.* 1901.

F. confusa Jord. Common. *Fl.* 8. DO, AN, I.D.
 Down—Saintfield, shade form, 1893 ! *Waddell*. Many other stations !
 Antrim—Rathlin 1882 ! and Malone 1892 ! *Stewart*. Cushendun
 1904 ! *Brenan*.
 Derry—Bellarena 1904 ! *Leebody*.

- var. *hibernica* Pugsley. DO, AN, LD.
 Down—Many stations !
 Antrim—Drains Bay north of Larne 1904 ! and Island Magee 1904 !
Lilly.
 Derry—Bellarena, 1904 ! *Leebody.*
 Apparently confined to Ireland, where it is almost as widely distributed
 as the type.

- [*F. muralis* Sonder. Error. *Fl.* 8, *Sup.* 147. DO, AN, — .
 See *I.N.*, xiv, 162.]

- F. officinalis* L. Common. *Fl.* 8, *Sup.* 147. DO, AN, LD.
 Down—Ballylesson, 1877 ! *Stewart.* Ballynahinch !—*Herb. Trin. Coll.*
Dublin. Many other stations. !
 Antrim—Glenmore 1895 ! *Davies.* Near Larne 1904 ! *Lilly.*
 [*F. densiflora* DC. Casual. DO, AN, — .
 Down—Potato field near Dundonald Cemetery, 1920, *Chase.*
 Antrim—Larne 1912 (*Druce*)—*I.N.* xxi, 235.]

CRUCIFERÆ.

- Cheiranthus Cheiri* L. Rare. *Fl.* 272, *Sup.* 147. DO, AN, — .
Nasturtium officinale R.Br. Common. *Fl.* 9. DO, AN, LD.
N. sylvestre R.Br. One area. *Fl.* 291. DO, — , — .
 Down—Near Inch Abbey, 1898, *Waddell and Stewart.* Between
 Downpatrick and the bridge, 1915, *Beunnett.* Abundant all along
 the River Quoile in the Downpatrick neighbourhood—*Waddell* in
I.N. xxiv, 188.
N. palustre DC. Frequent. *Fl.* 9, *Sup.* 147. DO, AN, LD.
N. amphibium R.Br. Frequent. *Fl.* 9. DO, AN, LD.
Barbarea vulgaris R.Br. Frequent. *Fl.* 9, *Sup.* 147. DO, AN, LD.
 Probably a native.
 var ***arcuata*** (Reichb). DO, — , — .
 Down—Drumbridge 1894 (*Stewart*)—*G.I.T.B.*
B. intermedia Boreau. Frequent. *Fl.* 9, *Sup.* 148. DO, AN, LD.

[*B. præcox* R.Br. Rare. *Fl.* 291, *Sup.* 148. DO, —, —.
Down—Churchtown near Strangford (*Praeger*)—*I.N.* xiv, 27.]

Arabis hirsuta Scop. Rare. *Fl.* 10, *Sup.* 148. DO, AN, LD.
Down—Still at Dundrum Castle, 1914, *Tomlinson*.
Antrim—Torr Head on chalk 1910 (*Tomlinson*).—*I.N.* xix, 237.
Derry—Still at Benevenagh 1917, *Praeger*. Still abundant at Benone
1917, *Tomlinson*. Abundant at Doaghs, Magilligan, 1920, *Lilly*.

[*A. perfoliata* Lam. Casual. *Fl.* 272. —, AN, —.]

Cardamine amara L. Rare, spreading. *Fl.* 10, *Sup.* 148. DO, AN, LD.
Down—Still at Belvoir Park 1921, *B.N.F.C.*
Antrim—Derriaghy (*Hanna and Carrothers*)—*B.N.F.C.* v, 139.
Shane's Castle Park west of Main River, abundant; and still at
Massereene 1912, *Tomlinson*.
Derry—Marsh by Lough Neagh north of Ballyronan, *Tomlinson*.

C. pratensis L. Very common. *Fl.* 10. DO, AN, LD.

C. hirsuta L. Common. *Fl.* 10. DO, AN, LD.

C. flexuosa With. Common. *Fl.* 10. DO, AN, LD.

[*C. impatiens* L. Planted. *Fl.* 272. —, AN, —.]

[*Alyssum maritimum* L. Escape. *Fl.* 272. DO, —, —.]

[*A. calycinum* L. —, —, LD.
Derry—Fields at Magilligan 1897 (*Lechody*)—*B.N.F.C.* iv, 443; still
there 1910, *Henry*.]

Draba muralis L. Local, spreading. *Fl.* 273. DO, AN, LD.
Down—Abundant in and near gardens at Hillsborough 1918, *Foster*.
Antrim—Old bridge near Arnoy 1896, and Templepatrick, 1903—
B.N.F.C. Taylorstown near Ahoghill 1917, *McGaw*.
Derry—Walls at Umbra 1905 (*Lett and Waddell*)—*W.B.E.C.* 1906.
Movagh 1913, *Houston*.

D. incana L. Very rare. *Fl.* 12, *Sup.* 148. —, AN, LD.
Antrim—At 500 feet at Murlough Bay on chalk 1907, *Stelfox*. Torr
Head on chalk 1910 (*Tomlinson*).—*I.N.* xix, 237. Coast one mile
west of Torr Head 1921, *J. R. H. Greaves*.

Derry—Still at Benone (Magilligan) and Benevenagh, 1917, *Præger*.
Sea-level at Benone, to 1,100 feet at Benevenagh.

Erophila vulgaris DC. (*Draba verna* L.). *Fl.* 12, *Sup.* 149. DO, AN, LD.

Frequent near the sea, rare inland.

Down—Lenaderg and Scarva (*Davies*)—*I.N.* xi, 181. Hillsborough and Lawrence town 1919, *Foster*.

Antrim—Templepatrick 1912, *Wear*. Kellswater, *Megaw*.

Above are all inland stations and generally on or near a railway.

Cochlearia officinalis L. Common on coasts. *Fl.* 13. DO, AN, LD.

var. **alpina** (*Watson*). Rare. *Fl.* 13. —, AN, LD.

C. danica L. Rare. *Fl.* 13, *Sup.* 149. DO, AN, LD.

Down—Walls of Ardtole Church near Ardglass—*B.N.F.C.* vi, 575.
Donaghadee Harbour 1914, *Carrothers*.

Antrim—Ballygally Head (*Templeton*)—*Corry MS.* Skerries (*Moore MS.*)—*Cyb.* II.

C. anglica L. Very rare. *Fl.* 291. —, —, LD.

Derry—New buildings near Londonderry 1895 (*Leebody*)—*B.N.F.C.* iv, 443.

[*Hesperis matronalis* L. Escape. *Fl.* 272. DO, AN, —.]

Sisymbrium Thalianum Gay. Local. *Fl.* 11, *Sup.* 148. DO, AN, LD.

Down—Lenaderg and Scarva 1902 (*Davies*)—*IN* xi, 181. On wall at Ballykinler 1909 (*Carrothers and Tomlinson*)—*IN* xix, 102. On wall near Donard Lodge 1913, *Stelfox*. Oglesgrove Nursery, Hillsborough 1918, *Foster*.

Antrim—Frequent on or near the basaltic escarpment. Cushendun (*Brenan*)—*Stewart MS.* Ballymena 1899 (*Knowles*)—*I.T.B.* Torr Head 1911, and Little Deer Park, Glenarm, 1914—*B.N.F.C.* Sawt Hill, *Tomlinson*.

Derry—Benevenagh 1913, *Stelfox*. Doaghs, Magilligan, 1920, *Lilly*.
Native on the basaltic escarpment in Antrim and Derry.

S. officinale Scop. Common. *Fl.* 11. DO, AN, LD.

[*S. Sophia* L. Casual. *Fl.* 11. DO, AN, —.]

Down—Victoria Park 1906 (*Carrothers*)—*B.N.F.C.* v, 472. Ballymaggee 1913, *Stelfox*.

Antrim—Greenisland (*Mrs. White Spinner*)—*I.T.B.* Larne 1920, *Bennett*.]

- S. Alliaria** Scop. Frequent. *Fl.* 11, *Sup.* 148. DO, AN, LD.
Antrim—Glenoe—*B.N.F.C.* vi, 595. Tullymullan near Ballymena,
Megaw.
- [*Erysimum cheiranthoides* L. Casual. *Sup.* 148. —, AN, —.]
- [*Camelina sativa* L. Alien. *Fl.* 273, *Sup.* 149. DO, AN, LD.]
- Subularia aquatica** L. Very rare. *Fl.* 14. DO, AN, LD.
Confined to Lough Neagh basin and connections; not seen since 1870.
- [*Brassica oleracea* L. Escape. *Fl.* 272. —, AN, —.]
- B. Rapa* L. var. *Briggsii*. Wats. (*B. campestris* auct.) *Fl.* 11. DO, AN, LD.
Common.
- [*B. nigra* Koch. (*Sinapis nigra* L.). *Fl.* 12. —, AN, LD.
Antrim—Larne (*Morc*)—*I.T.B.*]
- B. Sinapis* Visiani. (*Sinapis arvensis* L.) *Fl.* 12. DO, AN, LD.
Very common.
- B. alba* Boiss. (*Sinapis alba* L.) Local. *Fl.* 12, *Sup.* 148. DO, —, LD.
Down—Ardglass 1892 (*Praeger*)—*I.T.B.* Rossglass, Killough, Bally-
hornan, Bar Hall Bay, and Newcastle (in the Ards) (*Praeger*)—*I.N.*
xi, 201; xii, 254.
Derry—Downhill to Magilligan 1917, *Praeger*.
- [*Diplotaxis tenuifolia* DC. Casual. *Fl.* 272. —, AN, —.]
- Capsella Bursa-pastoris** Mœnch. Very common. *Fl.* 14. DO, AN, LD.
- Senebiera didyma* Pers. Rare. *Fl.* 273, *Sup.* 149. DO, AN, —.
Down—Strangford Quay (*Praeger*)—*I.N.* xxvii, 118.
Antrim—Ballycastle, *Tomlinson*.
The Portstewart plant of 1st Suppl. is *S. Coronopus*—*I.T.B.*
- S. Coronopus** Poir. Frequent. *Fl.* 15, *Sup.* 149. DO, AN, LD.
Antrim—Shore near Macedon Point 1917, *Carrothers*.
- [*Lepidium sativum* L. Escape. *Fl.* 273. —, AN? —.]
- [*L. campestre* R.Br. Rare. *Fl.* 13, *Sup.* 149. DO, AN, LD.
Derry—Toome, roadside near bridge 1906—*B.N.F.C.* v, 481.]

L. hirtum Smith (*L. Smithii* Hook.). *Fl.* 14, *Sup.* 149. DO, AN, LD.
Local.

Common in Down, rarer in Antrim and Derry.

Derry—Errigal Banks (*Praeger*)—*I.T.B.* Still near Roe Bridge, Limavady 1916, *Lilly*; and at Coleraine 1916, *Henry*. Magherafelt and Desertmartin 1918, *Stelfox*.

L. Draba L. Naturalized. DO, AN, —.

Down—Lenaderg by Bann 1907 (*Davies*),—*B.N.F.C.* vi, 11. Comber (*Carrothers*)—*B.N.F.C.* vi, 60.

Antrim—Carrickfergus (near Eden) 1900—*B.N.F.C.*

May be considered naturalized—*I.N.* xiii, 4, 8.

[*Thlaspi arvense* L. Casual. *Fl.* 13, *Sup.* 149. DO, AN, LD.

Down—Ballymagee 1915, *Stelfox*. Campbell College 1920, *Bennett and Chase*. Still at Killowen 1920, *Chase*.

Antrim—Ballymena (*Knowles*)—*I.T.B.* Still at Waterfoot (Redbay) 1918, *Megaw*.]

Teesdalia nudicaulis R.Br. DO, AN, —.

Down—Lambeg 1899 (*Davies*)—*I.N.* viii, 161. Ballykinler, abundant in sandy fields (*Praeger*)—*I.N.* xi, 201.

Antrim—Glenmore 1898 (*Davies*)—*I.N.* vii, 198; viii, 161.

Probably native at Ballykinler, and at its only Ulster station outside our district—Washing Bay in Tyrone—from which latter place the Lambeg and Glenmore plants are believed to have come with sand for building.

Crambe maritima L. Extremely rare. *Fl.* 15. DO, AN, —.

Down—South Bay (south of Tara Point in Ards) 1902 (*S. A. Moore*)—*I.N.* xii, 254. Decreasing.

Cakile maritima Scop. Local. *Fl.* 15, *Sup.* 149. DO, AN, LD.

Raphanus Raphanistrum L. Not rare. *Fl.* 15, *Sup.* 150. DO, AN, LD.

R. maritimus Sm. Rare. *Fl.* 16, *Sup.* 150. DO, AN, —.

Down—From two miles N. of Ballywalter to Greenisland; Portavogie, Cloughy, N. of Kearney, N. of Newcastle (Ards), Rossglass Chapel, Murphys town, and S. of Kilclief Castle (*Praeger*)—*I.N.* vi, 280; xi, 201; xii, 254; xxvii, 118.

Antrim—Camlough 1898 (*Adams*)—*Stewart MS.* Still at Curran of Larne 1919, *Praeger*.

RESEDACEÆ.

[*Reseda suffruticulosa* L. Escape. *Fl.* 273. DO, AN, —.]

R. lutea L. Established at least at Ballycastle. *Fl.* 273, *Sup.* 150. —, AN, —.

R. Luteola L. Frequent. ? Native. *Fl.* 16. DO, AN, LD.

CISTACEÆ.

[*Helianthemum vulgare* Gaertner. Planted. *Fl.* 273. —, AN, —.]

VIOLACEÆ.

Viola palustris L. *Fl.* 16, *Sup.* 150. DO, AN, LD.

V. odorata L. *Fl.* 17. DO, AN, LD.

Down—Greyabbey (*Knowles* — *I.T.B.* Rostrevor 1898, *Stelfox*).

[*V. hirta* L. type. Error. *Fl.* 291. —, AN, —.]

var. **V. calcarea** Gregory. Rare. DO. —, —.

Down—Dundrum sandhills 1902 (*Waddell*)—*W.B.E.C.* 1904.

V. Riviniana Reichb. (as *V. sylvatica* Fries, in *Flora*). DO, AN, LD.
Common. *Fl.* 17, *Sup.* 150.

var. **flavicornis** Forster. Rare. *Fl.* 17. DO, —, —.

V. Reichenbachiana Bor. Rare. *Fl.* 17. DO, AN, —.

Down—By Polramer Lake—*Stewart MS.* Lagan at Edenderry 1913
(*Carrothers*)—*I.N.* xxii, 19.

V. canina L. Rare. *Fl.* 17, *Sup.* 150. DO, AN, LD.

Down—Here and there abundant on shores of Lecale; frequent in Ards
(*Praeger*)—*I.N.* xi, 201; xii, 264. Dundrum (*Waddell*)—*W.B.E.C.*
1904.

Antrim—Still at Selshan 1915—*B.N.F.C.*

Derry—Benone (Magilligan) 1917, *Praeger*. Lough Neagh west of
Toome 1918, *Stelfox*.

V. tricolor L. Common. *Fl.* 17. DO, AN, LD.

- V. saxatilis** Schmidt, var. **lepidæ** (Jord.). DO, —, —.
Down—Ballywalter 1913 (*Widdell*)—*B.E.C.* 1913.
- V. arvensis* Murr. Common. *Fl.* 17. DO, AN, LD.
- V. Curtisii** Forst. Common. *Fl.* 17, *Sup.* 150. DO, AN, LD.
- V. obtusifolia** Jord. —, AN, —.
Antrim—Near Larne 1912 (*Druce*)—*I.N.* xxi, 235.
- [*V. lutea* Hudson. Error. *Fl.* 17, 292. DO, AN, —.]

POLYGALACEÆ.

- Polygala vulgaris** L. Common. *Fl.* 18, *Sup.* 151. DO, AN, LD:
var. **grandiflora** Bab. Very rare. *Fl.* 19, *Sup.* 151. —, —, LD.
var. **oxyptera** (Reich). *Fl.* 19. DO, AN, —.
- P. serpyllacea** Weihe. Common on hills. *Fl.* 19, *Sup.* 151. DO, AN, LD.
- [*P. calcarea* F. Schultz. Error. *Fl.* 292. —, AN, —.]
- [*P. austriaca* Crantz. Error. *Fl.* 292. —, AN, —.]

CARYOPHYLLACEÆ.

- [*Dianthus deltoides* L. Error. *Fl.* 273. —, AN, —.]
- Saponaria officinalis* L. Not rare. *Fl.* 274, *Sup.* 152. DO, AN, LD.
Down—St. John's Point 1906—*B.N.F.C.*
Antrim—Roadside at Killane near Ahoghill 1917, *Megaw.*
Derry—Near Toome Bridge (*Druce*)—*I.N.* viii, 198.
- Silene Cucubalus* Wibel. (*S. inflata* Sm.) *Fl.* 20, *Sup.* 152. DO, AN, LD.
Frequent.
- S. maritima** With. Common. *Fl.* 20, *Sup.* 152. DO, AN, LD.
- [*S. Armeria* L. Escape. *Fl.* 274. —, AN, LD.]

- S. anglica* L. Rare. *Fl.* 20, xxxii, *Sup.* 152. DO, AN, LD.
 Down—Glassdrumman (*Tomlinson*)—*B.N.F.C.* vi, 60.
 Antrim—Portrush sandhills 1916, *Henry*.
 Derry—Bellarena (*Leebody*)—*I.T.B.* Still abundant at Magilligan 1917, *Tomlinson*.
- S. acaulis** L. One station. *Fl.* 20. —, —, LD.
 Derry—Still very abundant at Benevenagh, especially on screes above Bellarena and on the cliffs at their eastern extremity, where it makes a fine display towards the end of May.
 A white variety has been noted by Mr. Lilly, and shades from pale pink to deep purple occur.
- [*S. noctiflora* L. Very rare. *Fl.* 20, *Sup.* 152. DO, AN, LD.
 Down—Near Saintfield (*Redmond*)—*Stewart MS.* Ballymagee, *Stelfox*.
 Antrim—Railway at Curran of Larne 1895 (*Praeger*)—*B.N.F.C.* ix, 443.
 Derry—Magilligan (*Herb. D. Moore*)—*Cyb.* 11: still there 1916, *Henry*.]
- [*S. dichotoma* Ehrh. Casual. *Sup.* 152. DO, —, —.]
- Lychnis vespertina** Sibth. *Fl.* 21, *Sup.* 152. DO, AN, LD.
 Local. ? Native.
 Down—Near Dundrum 1899—*B.N.F.C.* iv, 531.
 Antrim—Derriaghy—*Fl. Ulst.* Fields near Portrush 1916, *Henry*.
 Derry—Fields between Coleraine and Portrush 1916, *Henry*. Myroe near Magilligan, *Lilly*.
- L. diurna** Sibth. Frequent. *Fl.* 21, *Sup.* 152. DO, AN, LD.
- L. Flos-cuculi** L. Common. *Fl.* 21. DO, AN, LD.
- [*L. Githago* Scop. Frequent. *Fl.* 21, *Sup.* 152. DO, AN, LD.]
- Cerastium tetrandrum** Curtis. *Fl.* 25, *Sup.* 153. DO, AN, LD.
 Frequent.
- C. semidecandrum** L. Frequent. *Fl.* 24. DO, AN, LD.
 Down—Newcastle (*Davies*)—*I.T.B.* Cloughy Bay (*Praeger*)—*I.N.* xii, 254.
 Antrim—Portrush Golf Links 1916, *Wear*.
 Derry—Benevenagh at 1,100 feet (*Hart*)—*I.T.B.* Still at Benone Magilligan) 1917, *Praeger*.

- C. glomeratum** Thuill. Common. *Fl.* 24. DO, AN, LD.
- C. triviale** Link. Very common. *Fl.* 24, *Sup.* 153. DO, AN, LD.
 var. **hirsutum** Fries. —, AN, —.
 Antrim—Glenariffe 1912 (*Druce*)—*I.N.* xxi, 236.
 var. **longirostre** Wich. To this, Mr. Druce thinks, must be referred the plants on maritime rocks at Giant's Causeway—*I.N.* xxi, 235.
 var. **holosteoides** Fries. Very rare. *Sup.* 153. —, —, LD.
- [*C. alpinum* L. Error. *Fl.* 292. —, AN, —.]
- C. arvense** L. Very rare. *Fl.* 25. DO, AN, —.
- Stellaria media** Vill. Very common. ? Native. *Fl.* 24. DO, AN, LD.
- S. Holostea** L. Common. *Fl.* 24. DO, AN, LD.
- S. palustris** Retz. One station. DO, —, —.
 Down—Plentiful at Lough Keelan east of Downpatrick 1902 (*Praeger*)
 —*I.N.* xi, 201.
- S. graminea** L. Common. *Fl.* 24. DO, AN, LD.
- S. uliginosa** Murr. Common. *Fl.* 24, *Sup.* 153. DO, AN, LD.
- Arenaria verna** L. Local. *Fl.* 23, *Sup.* 153. —, AN, LD.
 Antrim—Glenariffe and Cushendall 1809 (*Templeton*)—*Stewart MS.*
 Knockdhu; and still at Agnew's Hill 1907, *Tomlinson*. Giant's
 Causeway, *Henry*. Still at Lurigethan 1918, *Megaw*.
 Derry—Portstewart; and still at Benevenagh 1916, *Henry*.
- A. trinervia** L. Frequent. *Fl.* 23, *Sup.* 153. DO, AN, LD.
- A. serpyllifolia** L. Frequent. *Fl.* 23, *Sup.* 153. DO, AN, LD.
- A. leptoclados** Guss. Rare. *Fl.* 24. DO, AN, —.
 Down—Killough Bay (*Davies*)—*I.N.* vii, 246.
- A. peploides** L. Common on coast. *Fl.* 23. DO, AN, LD.

- Sagina maritima** Don. Frequent. *Fl.* 22, *Sup.* 153. DO, AN, LD.
 Down—Frequent in Ards (*Praeger*)—*I.N.* xii, 264.
 Antrim—Portrush (*Druce*)—*I.N.* viii, 198.
 Derry—Magilligan (*Leebody*)—*I.T.B.*
 " First found in Ireland by Robert Brown, at Ballycastle, Antrim, in 1795"—*Cyb.* 11.
- S. apetala** L. Not rare. *Fl.* 21, *Sup.* 152. DO, AN, LD.
 Antrim—Gravelly ground, Whiterock (*Stewart*)—*Stewart MS.*
 Derry—By Bann opposite Toome 1918, *Stelfox*.
- S. ciliata** Fries. Very rare. *Fl.* 22, *Sup.* 153. DO, AN, —.
- S. procumbens** L. Very common. *Fl.* 21. DO, AN, LD.
- S. subulata** Presl. Rare. *Fl.* 22. —, AN, —.
 Antrim—Still at Fair Head 1921, *Chase*. Still near Muck Island 1920, *Bennett*.
- S. nodosa** Fenzl. Frequent. *Fl.* 22, *Sup.* 153. DO, AN, LD.
 var. **moniliformis** Lange. —, —, LD.
 Derry—Magilligan sandhills (*Waddell*)—*W.B.F.C.* 1913.
- Spergula arvensis** L. Very common. *Fl.* 26. DO, AN, LD.
 Apparently the two forms *vulgaris* Boenn., and *saliva* Boenn. are about equally common—*G.I.T.B.*
- Spergularia rubra** Presl. Very rare. *Fl.* 25, *Sup.* 154. DO, AN, LD.
 Down—On railway at Lenaderg, and from Banbridge to Laurencetown (*Davies*)—*I.N.* xi, 181; xii, 272. Still at Lough Island Reavy 1919, *Bennett*.
 Antrim—Dunluce (*Druce*)—*I.T.B.* The station "Lough Beg SE. of Toome" of *Flora* should read N, not SE.
 Derry—Still at Lough Neagh W. of Toome 1918, *Stelfox*.
- S. salina** Presl. Frequent. *Fl.* 25, *Sup.* 154. DO, AN, LD.
- S. media** Presl. (*S. marginata* Kittel). Common. *Fl.* 25. DO, AN, LD.
- S. rupestris** Lebel. Frequent. *Fl.* 25. DO, AN, —.
 Antrim—Mouth of Sixmilewater on Lough Neagh (*Davies*)—*I.T.B.*
 The only inland station.

PORTULACÆÆ.

- Montia fontana** L. Common. *Fl.* xxxi, *Sup.* 168. DO, AN, LD.
Both forms, *minor* (Gmel.) and *rivularis* (Gmel.), are found in all of our counties, the latter chiefly about the mountains—*G.I.T.B.*
- M. lamprosperma** Cham. Rare. DO, —, —.
Down—Hills above Newcastle (*Druce*)—*I.N.* xviii, 92; xxi, 236.

ELATINACÆÆ.

- Elatine hexandra** DC. Rare. *Fl.* xxxii, 19. DO, AN, LD.
Down—Lough Brickland (*Lett*)—*W.B.E.C.* 1895. Carrickmannan Lough (*Waddell*)—*W.B.E.C.* 1901.
- E. Hydropiper** L. Very rare. *Fl.* 19, *Sup.* 151. DO, —, —.
Down—Lough Brickland (*Lett*)—*W.B.E.C.* 1895. A few paces above 10th lock on Lagan Canal (about 1 mile below Lisburn) *Davies*—*I.N.* vii, 259.

HYPERICACÆÆ.

- Hypericum Androsæmum** L. *Fl.* 27, *Sup.* 154. DO, AN, LD.
Frequent, but sparingly.
- [*H. elatum* Ait. Planted. *Fl.* 274. DO, —, —.
Down—Ditch between Maghera and Dundrum, in quantity, 1891—*Stewart MS.*]
- H. perforatum** L. Frequent. *Fl.* 28, *Sup.* 154. DO, AN, LD.
var. **angustifolium** DC. —, AN, —.
Antrim—Whitewell quarries—*Stewart MS.*
- H. dubium** Leers, var. **maculatum** Bab. *Fl.* 28, *Sup.* 155. DO, AN, LD.
Rare.
Antrim—Broughshane 1895 (*Brenan*)—*Stewart MS.* The Loopagh near Cullybackey 1917, *Megarv.*
Derry—Ballykelly 1896 (*Leebody*)—*I.N.* iv, 443. Near Formoyle (*Druce*)—*I.N.* xxi, 235.
- H. tetrapterum** Fries. Common. *Fl.* 28. DO, AN, LD.
- H. humifusum** L. Frequent. *Fl.* 28, *Sup.* 155. DO, AN, LD.

H. pulchrum L. Common. *Fl.* 29, *Sup.* 155. DO, AN, LD.

H. hirsutum L. One station. *Fl.* 29, xxxiv. , AN, — .
Antrim—Last seen at Macedon, very sparingly, 1909, *Tomlinson*.

[*H. montanum* L. Error. *Fl.* 292. DO, —, —.]

H. elodes L. Rare. *Fl.* 29, *Sup.* 155. DO, AN, LD.
Down—Groomsport (*Hanna*)—*Stewart MS.* Marsh 2 miles E. of
Dundrum (*Praeger*)—*I.V.* xi, 201. Still at Conlig 1919, *Stelfox*.
Antrim—Woodburn Glen 1899 (*Hanna*)—*Stewart MS.*
Derry—Still at Enagh Lough 1896 (*Leebody*)—*I.T.B.*

MALVACEÆ

Lavatera arborea L. *Fl.* 27, *Sup.* 154. DO, AN, — .
Rare in native habitats.

Down—Killough (*Stewart*)—*I.T.B.* Greencastle—*B.N.F.C.* v, 488.
Antrim—On high rocks at west end of Rathlin (*Miss Gage*)—*Fl. Ulst.* ;
still there—*Praeger*. Whitepark Bay (*Knowles*)—*I.T.B.* Still at
Sheep Island 1913, *Henry*.

Native on maritime cliffs in Antrim. Its standing in Down is doubtful.

Malva moschata L. Rare. *Fl.* 26, *Sup.* 154. DO, AN, LD.
Down—Ballygrainey quarry near Bangor (*Milligan*)—*B.N.F.C.* vi, 204.
Drumbo Rectory in hay field, *Stelfox*.

Antrim—One plant at Whiterocks near Portrush 1916, *Henry*. Still at
Crumlin 1899 (*Knowles*)—*I.T.B.*

M. sylvestris L. Common. *Fl.* 26. DO, AN, LD.

M. rotundifolia L. Rare. *Fl.* 27, *Sup.* 154. DO, AN, LD.
Down—Downpatrick (*Praeger*)—*I.T.B.*
Derry—Portstewart (*Knowles*)—*I.T.B.*

TILIACEÆ.

[*Tilia europæa* L. Planted. *Fl.* 273. DO, AN, LD.]

LINACEÆ.

- Radiola linoides** Roth. Rare. *Fl.* 32, xxxii, *Sup.* 156. DO, AN, LD.
Down—Sandhills at Newcastle (*Druce*)—*I.N.* viii, 198. Kirkecubbin 1919, *Bennett*.
- Linum catharticum** L. Common. *Fl.* 32. DO, AN, LD.
- [*L. usitatissimum* L. Escape from cultivation. *Fl.* 275. DO, AN, LD.]

GERANIACEÆ.

- [*Geranium sanguineum* L. Very rare. *Fl.* 30. DO, AN, — .
Antrim—Cavehill Quarry 1917, *Carrothers*.
There is no evidence that the plant has ever occurred in the North-east except as an escape.]
- [*G. striatum* L. Escape. *Fl.* 274, *Sup.* 155. DO, AN, LD.
Down—Ditchbank near railway bridge on ascent to Scrabo—*Corry MS.* Dundonald (*Robinson*)—*B.N.F.C.* v, 472. On railway bank west of Donaghadee 1907 (*Tomlinson*)—*B.N.F.C.* vi, 60.]
- G. Phaeum* L. Escape, becoming established. *Fl.* 274. DO, AN, — .
Down—Ballykinler (*Praeger*)—*I.T.B.* Dundonald (*Robinson*)—*B.N.F.C.* v, 472. Dromore—*B.N.F.C.* vi, 363.
Antrim—Near Skerry (*Knowles*)—*I.T.B.* Roadside on Sheephead Hill north of Ligoniel, *Tomlinson*.
- G. sylvaticum** L. One area. *Fl.* 29, *Sup.* 155. DO, AN, — .
Down—Naturalized in abundance in Hillsborough demesne—*Foster*.
Antrim—Woody mountains about Knapper and Cairncastle, and about Ballinleg—*Ir. Fl.* Bank between Knockdhu and Scawt Hill 1898 (*Hanna*)—*Stewart MS.* Still plentiful in Little Deerpark at Glenarm 1916, *Jas. Glover*. Confined in Ireland to an area of about 20 square miles about Cairncastle and Glenarm.
- G. pratense** L. One area. *Fl.* 30, *Sup.* 155. —, AN, — .
Antrim—Cavehill Quarry (escape) 1905, H. L. Orr. Old Cavehill Road near reservoir, outside a garden hedge, evidently an escape 1908, *Wear*. Abundant at Ballycastle Harbour near a garden 1917, *Praeger*. As a native confined in Ireland to Whitepark Bay and its vicinity.

- G. pyrenaicum* L. Rare. *Fl.* 30, xxxii, *Sup.* 155. DO, AN, LD.
 Down—Conlig 1898 (*Hanna*)—*Stewart MS.*; still there 1919, *Stelfox and Wear*.
 Antrim—Not seen at Whitewell since formation of new Bellevue Gardens.
 Derry—Coleraine in a lane 1900 to 1910, has disappeared 1916, *Henry*.
- G. molle* L. Common. *Fl.* 30. DO, AN, LD.
- [*G. pusillum* L. Very rare. *Fl.* 293. DO, AN? .
 Down—Roadside near farm S.E. of Bangor 1908 (*S. A. Moore*)—*B.N.F.C.* vi, 204.]
- [*G. rotundifolium* L. Error? *Fl.* 293. —, AN, LD.]
- G. dissectum* L. Common. *Fl.* 30. DO, AN, LD.
- G. columbinum* L. Rare, probably native. *Fl.* 293. DO, AN? — .
 Down—Base of wall in lane near N.W. edge of Lough Cowey 1903 (still there 1918, *Praeger*), and roadside one mile S. of Strangford 1918 (*Praeger*)—*I.N.* xii, 254; xxvii, 118. Plentiful in and near field quarry one mile S. of Bangor near lane between Ballymagee and Primacy road 1916 (*R. A. Phillips*)—*Stelfox*. Roadside near Kilelief 1921, *Bennett and Chase*.
- G. lucidum* L. Frequent. *Fl.* 30, *Sup.* 155. DO, AN, LD.
 Down—Helen's Bay 1902; Stormont Castle; near Ballywalter and S.E. of Bangor (*S. A. Moore*)—*I.N.* xii, 28. Killeen (*Stewart*)—*I.N.* xii, 28. Between Donaghadee and Millisle, *Tomlinson*. Doubtfully native in Down.
 Antrim—Agnew's Hill; and still at Torr Head 1910, *Tomlinson*. Native on the basalt.
 Derry—Magilligan (*Leebody*)—*I.T.B.*
- G. Robertianum* L. Very common. *Fl.* 31. DO, AN, LD.
- Erodium cicutarium* L'Hérit. *Fl.* 31, *Sup.* 156. DO, AN, LD.
 Frequent on coast.
 Down—Moyallon near left bank of Bann, an inland station (*Davies*—*I.N.* xi, 123. Still at mouth of Six Mile River 1913, *Bennett*.
 var. *glandulosum* Bosc. DO, AN, — .
 Down—Newcastle 1912 (*Druce*)—*I.N.* xxi, 325.
 Antrim—Portrush 1912 (*Druce*)—*I.N.* xxi, 325.

E. moschatum L'Hérit. Very rare. *Fl.* 31, *Sup.* 156. DO, AN, — .
 Down—Coney Island at Killough, and good colony at base of Audley's
 Castle at Strangford (*Præger*)—*I.N.* xi, 201 ; xxvii, 118. Still at
 Dundrum 1915, *Carrothers*.

E. maritimum L'Hérit. Very rare. *Fl.* 32, *Sup.* 156. DO, AN, LD.
 Down—Near Dundrum—*B.N.F.C.* iv, 531. Still there 1921, *Megaw*.

Oxalis Acetosella L. Common. *Fl.* 32. DO, AN, LD.

[*O. corniculata* L. Escape. *Fl.* 274. —, AN, —.]

[*O. stricta* L. Escape. *Fl.* 275. —, AN, —.]

AQUIFOLIACEÆ.

Ilex Aquifolium L. Frequent. *Fl.* 93, *Sup.* 183. DO, AN, LD.

CELASTRACEÆ.

Euonymus europæus L. Frequent. *Fl.* 33, *Sup.* 156. DO, AN, LD.

RHAMNACEÆ.

Rhamnus catharticus L. *Fl.* 33, xxxiv, *Sup.* 136, 156. —, AN, LD.
 Very rare.

Antrim—Refound at Hog Park west of Selshan Harbour, 1915—
B.N.F.C. Connell Point on Lough Beg; and still at Creagh
 Bog 1918, *Stelfox*.

R. Frangula L. Very rare. *Fl.* 34, xxxiv, *Sup.* 157. DO, AN, — .

ACERACEÆ.

[*Acer Pseudo-platanus* L. Common. *Fl.* 274. DO, AN, LD.]

A. campestre L. Frequent. *Fl.* 274. DO, AN, LD.

LEGUMINOSÆ.

- Ulex europæus** L. Common. *Fl.* 34, *Sup.* 157. DO, AN, LD.
- U. Gallii** Planch. *Fl.* 34, *Sup.* 157. DO, AN, LD.
Frequent in DO, rare elsewhere.
Antrim—Rathlin Island (*Templeton*); sown by Mr. Gage in 1790
Corry MS.
- [*U. nanus* Forster. Error. *Fl.* 293. —, —, —.]
- Cytisus scoparius** Link. Frequent. *Fl.* 35, *Sup.* 157. DO, AN, LD.
- Ononis repens** L. Frequent on coast. *Fl.* 35, *Sup.* 157. DO, AN, LD.
Antrim—Portrush golf links 1910, seems to have disappeared now 1916,
Henry. Still at Red Bay 1920, *Bennett*.
Derry—Movaghaner near Kilrea 1913, *Houston*.
var. **horrida** Lange. *Sup.* 157. DO, —, —.
- [*O. spinosa* L. Error. *Fl.* 35, *Sup.* 157. DO, —, —.]
- Trigonella ornithopodioides** DC. Very rare. *Fl.* 276. DO, —, —.
Down—Coney Island, Ardglass and Sheepland Harbour 1902 (*Fitzg. r*)
I.N. xi, 201.
- [*Medicago sativa* L. Escape from cultivation. *Fl.* 275, *Sup.* 157. DO, AN, —.]
- [*M. falcata* L. Casual. *Fl.* 275. —, AN, —.]
- M. lupulina** L. Frequent. *Fl.* 35, *Sup.* 157. DO, AN, LD.
- [*M. denticulata* Willd. Error. *Fl.* 293. DO, —, —.]
- [*M. maculata* Sibth. Very rare. DO, AN, —.
Down—Near old pier at Ardglass 1902 (*Praeger*)—*I.N.* xi, 201.
Antrim—White Rocks, 1919, *Miss Florence Wilson*.]
- [*Melilotus alba* Desr. Casual. *Fl.* 275. DO, —, —.]
- [*M. officinalis* Lamk. Casual. *Fl.* 275, *Sup.* 157. —, AN, —.]
- M. arvensis** Wallr. Becoming naturalized. *Fl.* 275, *Sup.* 158. DO, AN, —.

- [*M. parviflora* Lamk. Casual. *Fl.* 275, *Sup.* 158. DO, AN, — .
Antrim—Grove Green, Lisburn, 1898 (*Davies*)—*I.N.*, viii, 51.]
- Trifolium pratense** L. Common. *Fl.* 36. DO, AN, LD.
- T. medium** L. *Fl.* 36, *Sup.* 158. DO, AN, LD.
Rare in DO, frequent elsewhere.
- T. arvense** L. *Fl.* 36, *Sup.* 158. DO, AN, LD.
Rare, but locally abundant.
Down—Lough Cowey in Ards (*Praeger*)—*I.N.* xii, 254.
Antrim—Still on Portrush sandhills, plentiful, 1916, *Henry*.
Derry—Still in great abundance at Magilligan, 1917, *Tomlinson*. Port-
stewart Golf Links 1921, *J. R. H. Greaves*.
- T. striatum** L. Rare. *Fl.* 37. DO, AN, — .
Down—At intervals from Rossglass to Ballyhornan; shore below Ard-
glass Presbyterian Church, 1902; N.E. of Corn Mill at Mill
Quarter Bay, $\frac{1}{4}$ mile N. of Kilelief Castle, $\frac{1}{4}$ mile S.E. of Quintin
Castle, and $\frac{1}{4}$ mile S. of Kearney (*Praeger*)—*I.N.*, xi, 201;
xxvii, 118.
Antrim—Castle Chichester—*Fl. Ulst.* Refound at Whitehead from
tunnel to Cloghan Harbour, 1902 (*Praeger*)—*I.N.*, xi, 201.
- [*T. scabrum* L. Error? *Fl.* 293. DO, — , LD.
Down—Near Ardglass Harbour (*Templeton's MS. Journal*)—*Waddell*.
Never refound, but quite possibly correct.]
- [*T. hybridum* L. Frequent. *Sup.* 158. DO, AN, LD.]
- T. repens** L. Very common. *Fl.* 37. DO, AN, LD.
- [*T. resupinatum* L. Casual. *Fl.* 293, *Sup.* 158. DO, AN, — .]
- [*T. agrarium* L. Casual. DO, AN, — .
Down—Fields at Drumbo 1897 (*Davies*)—*B.N.F.C.* Frequent in
Lecale (*Praeger*)—*I.N.*, xi, 201. Lough Money near Downpatrick
1917, *C. E. Robertson and Wear*.
Antrim—Larne and Dunluce (*Templeton*); Whitehead and Randalstown
(*Ferguson*)—*Fl. Ulst.* S. of Whitehead between railway and road
1902 (*Praeger*)—*I.N.*, xi, 201.]
- T. procumbens** L. Frequent. *Fl.* 37, *Sup.* 158. DO, AN, LD.

- T. dubium** Sibth. Common. *Fl.* 37. DO, AN, LD.
- T. filiforme** L. Very rare. *Fl.* 293. DO, —, —.
 Down—On rocks below Ardglass Presbyterian Church 1902 (*Praeger*)—*I.N.* xi, 201. S. of Ballyedock Lodge (opposite Kilclief), $\frac{1}{4}$ mile N. of Long Port, raised beach at Ballyquinton Point, 1918. "I think certainly native in these stations" (*Praeger*)—*I.N.* xxvii, 118.
- Lotus corniculatus** L. Common. *Fl.* 37. DO, AN, LD.
 var. **crassifolius** Pers. *Fl.* 37, *Sup.* 158. DO, AN, LD.
 Down—Newcastle 1898 (*Druce*)—*G.I.T.B.*
 Antrim—Shore at Garron Tower 1918, *Megaw*.
- [*L. tenuis* Waldst. & Kit. Casual. *Fl.* 276. —, AN? —.]
- L. uliginosus** Schkuhr (*L. pilosus* Beeke). DO, AN, LD.
 Frequent. *Fl.* 38, *Sup.* 158.
- [*Onobrychis sativa* Lamk. Relic of cultivation. *Fl.* 276. DO, AN, —.]
- Vicia hirsuta** Koch. Frequent. *Fl.* 38. DO, AN, LD.
- [*V. tetrasperma* Moench. Relic of cultivation. *Fl.* 276. DO, AN, LD.]
- V. Cracca** L. Common. *Fl.* 39. DO, AN, LD.
- V. Orobus** DC. Very local. *Fl.* 38, *Sup.* 159. —, AN, —.
 Antrim—Tait's Hill 1903, Spennin Hill, Lower Ballygowan Hill (in great profusion), Ballyholey near station, and Skerrywherry (abundant) (*Lilly*)—*I.N.*, xv, 267; xvii, 162. Irish Hill, *Tomlinson*.
 All the County Antrim stations are within a radius of about $4\frac{1}{2}$ miles.
- V. sylvatica** L. *Fl.* 38, *Sup.* 159. DO, AN, LD.
 Rare in DO, less so in AN and LD.
 Down—Glassdrumman on pebbly beach 1907, *Tomlinson*.
 Antrim—Quarries and glen at Carnlough—*Stewart MS.*; still there 1920—*Praeger and Stelfox*. Fairhead (*Knowles*)—*I.T.B.* Torr Head, flowers pure white, *Tomlinson*. Whitepark Bay, *Henry*. Head of Carr's Glen, *H. L. Orr*. Bellevue Gardens, *Wear*.
 Derry—Still at Magilligan (Benone and Tircrevan) 1916, *Henry*.
 var. **condensata** Druce. —, AN, —.
 Antrim—Whitepark Bay 1912 (*Druce*)—*I.N.*, xxi, 235.

- V. sepium** L. Common. *Fl.* 39, *Sup.* 159. DO, AN, LD.
 [*V. sativa* L. Relic of cultivation. *Fl.* 276. DO, AN, LD.]
- V. angustifolia** L. Frequent. *Fl.* 39, *Sup.* 159. DO, AN, LD.
- V. lathyroides** L. Rare. *Fl.* 39, *Sup.* 159. DO, AN, LD.
 Antrim—Point at entrance of Woodburn River, Belfast Bay 1809 (*Templeton*)—*Stewart MS.* Portrush 1919, *Wear*.
 Derry—Still at Benone (Magilligan) 1917, *Praeger*.
 NOTE.—The late date (July 2) and unsuitable habitat render it unlikely that the Fair Head plant of Proc. B.N.F.C. 1904-5, p. 278, belongs to this species.
- [*V. bithynica* L. Casual. *Fl.* 276. —, AN, —.]
- [*Lathyrus Aphaca* L. Casual. *Fl.* 276. —, AN, —.
 Antrim—At Stranmillis till 1903, station now built on 1920, *Carrothers*.]
- L. pratensis** L. Common. *Fl.* 39. DO, AN, LD.
- L. palustris** L. Very rare. *Fl.* 40. —, AN, —.
 Antrim—Still at Selshan in marshy meadow to west of bridge 1920—*Praeger and Stelfox*. Confined in our district to Lough Neagh basin.
- L. macrorrhizus** Wimm. Frequent. *Fl.* 40. DO, AN, LD.
 var. *tenuifolius* Roth. Rare. *Fl.* 40, *Sup.* 159. DO, —, —.

ROSACEÆ.

- Prunus spinosa** L. Common. *Fl.* 40, *Sup.* 159. DO, AN, LD.
- P. insititia* L. Frequent. *Fl.* 276, *Sup.* 159. DO, AN, LD.
- P. Avium** L. Frequent. *Fl.* 41, *Sup.* 159. DO, AN, LD.
- P. Cerasus* L. Frequent. *Fl.* 277, *Sup.* 160. DO, AN, LD.
 Down—Lecale 1902 (*Praeger*)—*I.N.* xi, 210. Bangor and Comber 1919, *Bennett and Chase*.
 Antrim—Wild on Ram's Island (*Templeton in Whitla MS.*)—*Corry MS.* Hedge near Carnmoney graveyard 1894—*Stewart MS.*
 Frequent in central Antrim, but clearly not native, 1920, *Praeger and Stelfox*.

- P. Padus** L. Rare. *Fl.* 40, *Sup.* 159. DO, AN, LD.
 Antrim—Glenariffe 1809 (*Templeton*)—*Stewart MS.* Skerry (*Knowles*)
 —*I.T.B.* Still at Glenariffe 1901 (*D'Arcy*)—*I.N.* x, 192; and
 Sallagh Braes 1911 (*R. A. Phillips*)—*Stelfox*. By Cranney and
 Pollan Burns above Carnlough (*Praeger and Stelfox*)—*I.N.* xxix, 95.
 Derry—Ballynagowan near Desertmartin 1903 (*John Rodgers*)—*Stewart*
MS. Still in valley of the Roe above Limavady—*B.N.F.C.*
 1909; and at Errigal Banks 1918, *Stelfox*.

[*Spiræa salicifolia* L. Escape. *Fl.* 277. DO, —, LD.]

S. Ulmaria L. Common. *Fl.* 41. DO, AN, LD.

S. Filipendula L. Escape. *Fl.* 277. DO, —, —.

RUBUS.

For the new records in the following list we are indebted mainly to the paper in the *Irish Naturalist* referred to below. Most of the other records were sent in by the late Rev. C. H. Waddell, who read the draft copy and wrote the following note:—

“The brambles in this List are arranged according to Rev. W. Moyle Rogers’ “Handbook of British Rubi,” 1900, except that sub-species are put as varieties as in the London Catalogue. The specimens, with few exceptions, have been seen by Mr. Rogers, and this is signified by the mark ! A few which he has not noted in these counties and some older records which require confirmation, are put in italics. See an important paper in *Irish Naturalist*, 1901, p. 213, “Some North-East Ireland Rubi” by Rev. W. Moyle Rogers, F.L.S.”

Rubus idæus L. Common. *Fl.* 44, *Sup.* 161. DO, AN, LD.

R. fissus Lindley. Rare. *Fl.* 44. DO, —, LD.

R. suberectus Anders. Rare. *Fl.* 44, *Sup.* 161. DO, —, LD.

R. Rogersii Linton. Very local *Sup.* 161. DO, AN, LD.

Down—Gillhall ! *Lett.*¹ Aghaderg, *Lett and Rogers.*¹

Antrim—Toomebridge 1898 (*Druce*)—*I.T.B.*

Derry—Toomebridge 1898 ! (*Druce*) *I.N.* viii, 200.

“Not common, widely spread in heathy places”—*Waddell*.

¹*I.N.* x, 214.

- R. plicatus** Wh. & N. Locally abundant. *Fl.* 44, *Sup.* 161. DO, AN, LD.
 Down—Anaclone 1896 ! *Lett and Waddell*.¹ Banbridge, *Rogers*.¹
 Antrim—Ballymena, Cushendall and Giant's Causeway 1901, *F. A. Rogers*.¹
 Derry—Lough Neagh 1898 (! Dr. Focke) (*Druce*)—*I.N.* ix, 1.
- R. nitidus** Wh. & N. *Sup.* 161. DO, —, —.
- R. carpínifolius** Wh. & N. *Fl.* 45, *Sup.* 161. DO, AN. —.
- R. incurvatus** Bab. —, AN, —.
 Antrim—Near Toomebridge 1898 (! Dr. Focke) (*Druce*)—*I.N.* ix, 1.
 "A plant from North Antrim collected by S. A. Stewart was so named. There is some doubt about this species in the district, Mr. Rogers has not seen any."—*Waddell*.
- R. Lindleianus** Lees. Local. *Sup.* 162. DO, AN, LD.
 Down—Saintfield, *Waddell*.¹
 Antrim—Cushendall and Giant's Causeway, *F. A. Rogers*.¹ Glynn, *Rogers*.¹
- R. erythrinus** Genev. *Sup.* 162. —, —, LD.
- R. rhamnifolius** Wh. & N. Frequent. *Fl.* 44, *Sup.* 162. DO, AN, LD.
 Down—Aghaderg ! *Lett*.¹ Aghnadarragh near Saintfield ! *Waddell*.¹
 var. **Bakeri** (F. A. Lees). DO, —, —.
 Down—South of Killough 1897 ! (*Waddell*)—*W.B.E.C.* 1900. Aghnadarragh (*Waddell*)—*W.B.E.C.* 1902.
- R. nemoralis** P. J. Muell. *Sup.* 162. DO, —, —.
 var. **glabratus** Bab. *Sup.* 162. DO, —, —.
- R. pulcherrimus** Neum. Common everywhere. *Sup.* 162. DO, AN, LD.
 Antrim—Larne ! *Shoolbred*.¹ Near Giant's Causeway ! *Bailey*; also *F. A. Rogers*.¹ Glynn, *Rogers*.¹
 Derry—Toomebridge (*Druce*)—*I.N.* viii, 200.
- [*R. Muenteri* Marss. Doubtful. *Sup.* 162. —, AN? —.]
- R. villicaulis** Koehl. *Fl.* 45, *Sup.* 162. DO, AN, LD.
 Derry—Toomebridge (*Druce*)—*I.N.* ix, 1.

¹*I.N.* x, 214.

- R. Selmeri** Lindeb. Common. *Sup.* 162. DO, AN, LD.
 Down—Anacloone, *Rogers*.¹
 Antrim—Cavehill and Glenarm (*Druce*)—*I.N.* viii, 200. Cushendall
 and Giant's Causeway ! *Bailey*; also *F. A. Rogers*.¹
 Derry—Toomebridge (*Druce*)—*I.N.* viii, 200.
- R. gratus** Focke. *Sup.* 163. —, —, LD.
 The Glendun plant under this species in the 1st Suppl. Mr. Rogers
 believes to be *R. Selmeri*—*I.N.* x, 215.
- R. argentatus** P. J. Muell. Rare. DO, —, —.
 Down—Aghaderg 1901, *Lett and Rogers*.¹
 var. **robustus** (P. J. Muell). DO, —, —.
 Down—Killaney and Doran's Rock near Saintfield (*Waddell*)—
W.B.E.C. 1903.
- R. rusticanus** Merc. Common near sea. *Fl.* 44. DO, AN, LD.
 Down—Annaghdroghal ! Comber ! and Castle Espie ! *Waddell* ¹
 Ballintaggart ! and Aghaderg ! *Lett*.¹
- R. pubescens** Weihe. *Fl.* 41, *Sup.* 163. DO ? —, LD.
 The Saintfield record in 1st Suppl. needs confirmation. "Doubtfully
 thus named by me"—*Rogers* in *I.N.* x, 215.
- [*R. silvaticus* Wh. & N. *Sup.* 163. DO ? —, —.
 Mr. Rogers considers that records under this species in 1st Suppl. need
 confirmation.—*I.N.* x, 215].
- R. myricae** Focke, var. **hesperius** Rogers. Rare. DO, —, —.
 Down—Lane north of Banbridge 1901, *Lett and Rogers*.¹
- R. macrophyllus** Wh. & N. aggr. *Fl.* 45, *Sup.* 163. DO, AN, LD.
 Antrim—Between Glenarm and Glenariffe (! Dr. Focke) (*Druce*)—*I.N.*
 ix, 1.
 Derry—Between Magilligan and Umbra (*Bailey*)—*B.E.C.* 1896.
- var. **umbrosus** Arrh. *Fl.* 45. DO, AN, —.
 Antrim—Colin Glen (*Stewart*)—*Journ. Bot.* 1891.
- var. **Schlechtendallii** (Weihe). *Fl.* 45, *Sup.* 163. DO, —, —.
 Down—Anacloone and Banbridge, *Lett and Rogers*.¹
 "One of the most abundant and characteristic brambles in this part of
 Ireland."—*Rogers*.

¹ *I.N.* x, 215.

- var. **macrophylloides** (Genev.) DO, —, —.
Down—Aghaderg (*Lett*)—*W.B.E.C.* 1903.
- var. **amplificatus** (Læes). *Fl.* 45. DO, AN, —.
- R. Salteri** Bab. *Fl.* 45. DO, —, LD.
- R. Grabowskii** Genevier. *Fl.* 45. —, AN, —.
- R. micans** Gren. and Godr. Locally frequent. *Sup.* 163. DO, AN, —.
Down—Aghaderg, Anacлоне and Banbridge 1901, *Lett and Rogers*.¹
Saintfield ! *Waddell*.
Antrim—Ballymena about 2 miles on Larne Road 1901 ! *F. A. Rogers*.¹
- R. hirtifolius** Muell and Wirtg.
var. **danicus** (Focke). DO, —, —.
Down—Aghaderg 1903 (*Lett*)—*W.B.E.C.* 1903.
- var. **mollissimus** (Rogers). DO, —, LD.
Down—Aghaderg ! *Lett*.² Saintfield ! *Waddell*.²
Derry—Cross roads from Carnal Ridge and Portrush 1896 ! *Bailey-B.E.C.* 1896.
- R. pyramidalis** Kalt. Frequent. *Fl.* 45, *Sup.* 163. DO, AN, —.
Down—Aghaderg ! *Lett*.² Ballynanny and Anacлоне, *Lett and Rogers*.²
Antrim—Cave Hill ! *Druce*.² Cushendall ! *F. A. Rogers*.²
A very large variety of this with immense prickles is very common in Co. Down.—*Waddell*.
- R. leucostachys** Schleich. *Fl.* 44, *Sup.* 163. DO, AN, LD.
Down—Aghaderg, Anacлоне and Banbridge, *Lett and Rogers*.² Saintfield, *Waddell*.
“Not common in Co. Down except a form with dark shining concave leaves which Dr. Focke named for me *andegavensis*. Mr. Rogers places it under *leucostachys* as a form.”—*Waddell*.
- [*R. criniger* Linton (as *R. Gelertii* Frider var. *criniger* Linton in *Suppl.*). *Sup.* 163.
The Aghaderg plant placed under this name in 1st *Suppl.* should be withdrawn. Mr. Rogers considers it to be *R. Lettii*. See *I.N.* xiv, 7 ; and *Journ. Bot.* 1901, p. 381].

¹*I.N.* x, 215. ²*I.N.* x, 216.

- R. Lettli** Rogers. Very common in Down. DO, —, —.
 Down—Saintfield 1896 ! *Waddell*.¹ Aghaderg ! Lisnagade ! Anacлоне !
 and Banbridge ! *Lett*.¹
 For description of this species see *I.N.* x, 216. "It has been found
 later on in England" — *Waddell*.
- R. Boræanus** Genev. DO, —, LD.
 Down—Aghaderg ! *Lett*.² "Probably this species, but if so, untypical"
 — *Rogers*.
 Derry—Near Portrush (*Bailey*) ; "form allied to this species"
W.B.E.C. 1896.
- R. cinerosus** Rogers. Rare. DO, —, —.
 Down—Caskum near Aghaderg 1901, *Lett and Rogers*.²
- R. mucronatus** Blox. Local. *Fl.* 46, *Sup.* 163. DO, AN, LD.
 Down—Knock Iveagh ! *Herb. Lett* ; "apparently this," *Rogers*.²
 Aghaderg, *Lett and Rogers*.² Edenderry, typical, *Rogers*.²
 Antrim—Cave Hill ! *Druce*.²
 Derry—By Lough Neagh ! [Toome 1898] (*Druce*)—*I.T.B.*
- R. Gelertii** Frider. —, AN, —.
 Antrim—Glynn 1901, "in considerable quantity," *Rogers*.²
- R. anglosaxonicus** Gelert. —, AN, —.
 Antrim—Larne 1898 (! Dr. Focke) (*Druce*)—*I.N.* ix, 1.
 var. **vestitifomis** Rogers. DO, —, —.
 Down—Anacлоне 1901, *Lett and Rogers*.²
- R. infestus** Weihe. *Fl.* 46. DO, —, LD.
 Derry—Cross roads to Carnal Ridge and Portrush 1896 (*Bailey*)—*B.E.C.*
 1896.
- R. Borreri** Bell-Salt. Locally abundant. DO, —, —.
 Down—Aghaderg and Anacлоне 1901, *Lett and Rogers*.² Aughnadarragh,
 strong form, not typical, *Waddell*.
- R. Drejeri** G. Jensen. —, AN, —.
 Antrim—Glynn, by quarries, typical, 1901, *Rogers*.²
 var. **Leyanus** Rogers. *Sup.* 163. DO, AN, LD.
 Antrim—Near Toomebridge 1898 (! Dr. Focke) (*Druce*)—*I.N.* ix, 1.
 Derry—Near Toomebridge 1898 (! Dr. Focke) (*Druce*)—*I.N.* ix, 1.

¹*I.N.* x, 216. ²*I.N.* x, 217.

- var. **hibernicus** Rogers. Locally common. DO, —, —.
Down—Saintfield 1894 ! *Waddell*.¹ Aghaderg ! and Lisnagade ! 1896, *Lett*.¹ Anacloone and Banbridge, *Lett and Rogers*.¹
- var. **dunensis** Rogers. DO, —, —.
Down—Caskum and Aghaderg 1901 ! *Lett and Waddell*. Saintfield and Aghnadarragh ! *Waddell*.
“One of the few earlier flowering and most abundant brambles in west Down.”—*Rogers*. For description of this var. see *I.N.* x, 217.
- R. radula** Weihe. *Fl.* 46, *Sup.* 164. DO, AN, LD.
Down—Tollymore Park ! *Druce*.² Lisnagade ! *Lett*.²
Antrim—Giant’s Causeway ! *Bailey*.² Cave Hill ! *Druce*.²
- var. **echinatoides** Rogers. DO, AN, —.
Down—Aghaderg 1901, *Lett and Rogers*.²
Antrim—Near Giant’s Causeway 1896 (*Bailey*)—*I.T.B.* Glenarm ! *Lett* ; also *Druce*.² Cave Hill ! *Druce* ; also *Waddell*.²
- R. echinatus** Lindl. *Sup.* 164. —, AN, —.
- [*R. rudis* Wh. & N. Doubtful. *Fl.* 294, *Sup.* 164. DO? AN? —.
The Aghaderg Glebe record in the 1st Suppl. has been transferred to *R. radula* var. *echinatoides*.—*I.N.* x, 219.]
- R. oigoclados** M. & L. var. **Newbouldii** Rogers. *Fl.* 46. DO, —, LD.
Local.
Down—Aghaderg 1895 (*Lett*)—*W.B.E.C.* 1895 ; also *Rogers* in 1901.²
Anacloone and Banbridge, *Lett and Rogers*.²
Derry—Kilrea (as *R. denticulatus* in Flora)—*Cyb.* II.
- R. regillus** Ley. Rare. DO, —, —.
Down—Gillhall demesne 1896 ! *Lett*.²
- R. Lejeunei** Wh. & N. *Fl.* 46. —, AN, —.
- R. Griffithianus** Rogers. —, AN, —.
Antrim—Cave Hill 1898 (! Dr. Focke) (*Druce*)—*I.N.* ix, 1.
- R. Babingtonii** Bell-Salt. DO, —, —.
Down—Drumero 1896 ! *Waddell in herò.* *Lett*.²

¹*I.N.* x, 217. ²*I.N.* x, 219.

- R. mutabilis** Genev. DO, —, —.
 Down—Lisnagade 1900! *Lett.*¹ Only Irish station.
 “Hardly typical, making some approach towards subsp. *nemorosus* Genev.”—*Rogers.*
- [*R. Bloxamii* Lees. Doubtful. *Fl.* 294. —, AN,² —.]
- R. fuscus** Wh. & N. *Sup.* 164. DO, —, —.
- R. pallidus** Wh. & N. *Fl.* 46, *Sup.* 164. DO, —, —.
- R. scaber** Wh. & N. *Sup.* 164. DO, —, —.
- R. foliosus** Wh. & N. *Fl.* 46. DO, —, LD.
 Derry—Between Kilrea and Garvagh (*Moore*)—*Cyb.* I.
- R. rosaceus** Wh. & N. *Sup.* 164. DO, —, —.
 var. **hystrix** (Wh. & N.) *Sup.* 164. —, AN, —.
- R. horridicaulis** P. J. Muell. DO, —, —.
 Down—Loughbrickland (*Lett*)—*W.B.E.C.* 1895. Crossgar, Aughnadarragh and Saintfield demesne (*Waddell*)—*W.B.E.C.* 1895.
- R. Koehleri** Wh. & N. *Fl.* 46, *Sup.* 164. DO, AN, —.
 Down—Aghaderg, *Lett* and *Rogers.*¹ “Not a common species in Co. Down.”—*Waddell.*
 var. **cognatus** (N. E. Brown). DO, —, —.
 Down—Aghaderg 1896 (*Lett*)—*W.B.E.C.* 1896 and 1899. Ballintaggart and Whinny Hill (*Lett*)—*Cyb.* II.
- R. dasyphyllus** Rogers. DO, —, LD.
 Down—Near Aghaderg (*Lett*)—*I.T.B.* Saintfield, *Waddell.*
 Derry—Toomebridge (*Druce*)—*I.T.B.*
 “Apparently the most abundant and generally distributed glandular bramble in N. Ireland, as in N. England.”—*Rogers.*¹
- R. Marshalli** Focke and Rogers, var. **semiglaber** Rogers. DO, —, —.
 Down—Aughnadarragh and Saintfield 1894 (*Waddell*)—*W.B.E.C.* 1900.
- [*R. glandulosus* Bellardi. Doubtful. *Fl.* 294. —, AN, LD.]

¹ *I.N.* x, 219.

- R. humifusus** Weihe. *Fl.* 46. —, —, LD.
- R. hirtus** W. & K. var. **Kaltenbachii** (Metzch.). *Sup.* 164. DO, —, —.
- R. dumetorum** Wh. & N. *Sup.* 164. —, AN, —.
 var. **diversifolius** (Lindl.) *Sup.* 164. DO, —, —.
 var. **fasciculatus** P. J. Muell. *Fl.* 47. DO, —, LD.
- R. corylifolius** Sm. aggr. *Fl.* 46, *Sup.* 164. DO, AN, LD.
 Down—Castlewellan! *Stewart*.¹ Aghaderg (*Lett*)—*W.B.E.C.* 1897
 and 1900. Lisnadalgin and Saintfield (*Waddell*)—*W.B.E.C.* 1900.
 Antrim—Cairncastle! *Stewart*. Cushendall! *Bailey*.¹ Larne to
 Giant's Causeway, frequent, *F. A. Rogers*.¹
- var. **sublustris** (Lees). *Fl.* 46, *Sup.* 165. DO, AN, LD.
 Down—Lisnadalgin near Saintfield! *Waddell*.
- var. **cyclophyllus** (Lindeb.). *Fl.* 47, *Sup.* 165. DO, AN, LD.
 (as var. *conjungens*).
 Down—Aghaderg (*Lett*)—*W.B.E.C.* 1900. Saintfield (*Waddell*)—*W.B.E.C.* 1903.
 This variety is "widely distributed and variable."—*Rogers*.
- R. scabrosus** Muell. *Fl.* 47. —, AN, —.
- R. cæsius** L. Very rare. *Fl.* 47. DO, AN, —.
 Down—Benderg 1901—*B.N.F.C.* v, 11.
 Antrim—Ram's Island 1812 (*Templeton's MS. Journal*)—*Stewart MS.*
 Larne to Giant's Causeway, fairly common, *F. A. Rogers*.¹
- var. **ligerinus** Genevier. *Fl.* 47. —, AN, —.
- R. saxatilis** L. *Fl.* 47, *Sup.* 165. DO, AN, LD.
 Local in DO, frequent elsewhere.
- [*R. Chamæmorus* L. *Sup.* 165.
 The record is withdrawn from County Derry as Mr R. M. Barrington
 found, on revisiting the station, that the plant is confined to County
 Tyrone.—*I.N.* xiii, 4.]
- Dryas octopetala** L. Two stations. *Fl.* 47. —, AN, LD.
 Antrim—Knockdhu basaltic cliffs at 1,100ft., having northern exposure,
 1884 (*Lett*)—*I.N.* vi, 280, &c. Still abundant 1914, *Stelfox*.
 Derry—Still at Benevenagh 1917, *Praeger*.

¹ *I.N.* x, 220.

- Geum urbanum** L. Common. *Fl.* 48. DO, AN, LD.
- G. urbanum** × **rivale** (= *intermedium* Ehrh.). —, AN, LD.
Local. *Fl.* 48, *Sup.* 165.
Antrim—Glencoe 1912, *Miss S. Blackwood*. Ahoghill; near Cushendall;
and still in Shane's Castle woods 1919, *Megaw*. Carnlough Glen
(*Praeger and Stelfox*)—*I.N.* xxix, 95.
Derry—Linnavady—*B.N.F.C.* 1895. Plentiful at Errigal Glen 1901
(*Stewart*)—*Stewart MS.* Garvagh Demesne (*Knowles*)—*B.N.F.C.*
iv, 443. Dundarg near Coleraine 1913, *Henry*.
- G. rivale** L. Rare in DO, common elsewhere. *Fl.* 48, *Sup.* 165. DO, AN, LD.
- Fragaria vesca** L. Common. *Fl.* 43. DO, AN, LD.
- [*F. elatior* Ehrh. Planted. *Fl.* 277. —, AN, —.]
- Potentilla Fragariastrum** Ehrh. Common. *Fl.* 43. DO, AN, LD.
- P. Tormentilla** Neck. Common. *Fl.* 43. DO, AN, LD.
- P. Tormentilla** × **procumbens** (= *P. suberecta* Zim.). DO, AN, —.
Sup. 161.
- P. procumbens** Sibth. Frequent. *Fl.* 43, *Sup.* 161. DO, AN, LD.
Down—Frequent in Ards (*Praeger*)—*I.N.* xii, 264.
Antrim—Ballycastle (*Praeger*)—*I.N.* vi, 301. Bushmills 1896—*Stewart*
MS. Cullybackey (*Knowles*)—*I.T.B.* Ballymena, Carnlough
and Agnew's Hill, *Praeger and Stelfox*.
- P. reptans** L. Frequent. *Fl.* 43, xxxii, *Sup.* 161 DO, AN, LD.
- P. Anserina** L. Common. *Fl.* 43. DO, AN, LD.
- P. palustris** Scop. (*Comarum palustre* L.) *Fl.* 43. DO, AN, LD.
Frequent.
- Alchemilla arvensis** Scop. Common. *Fl.* 42. DO, AN, LD.
- A. vulgaris** L. Common. *Fl.* 42, *Sup.* 160. DO, AN, LD.

About 1900 Mr. Praeger collected specimens of the *A. vulgaris* group from various parts of Ireland, and submitted them to Rev. E. F. Linton. These he named, and the records belonging to District XII are given below, and indicated by the sign !—See *I.N.* ix, 92.

var. **pratensis** (Schmidt) (= *A. vulgaris* L., *sensu restricto*). DO, AN, — .
Down—Near Holywood 1885 ! *Praeger*.

Antrim—Near Belfast ! *Stewart*. Dunloy ! and White Park Bay !
Praeger. Sallagh Braes (*Waddell*)—*W.B.E.C.* 1897.

var. **alpestris** (Schmidt). DO, AN, LD.

(*A. vulgaris* L. var. *glabra* M. & K. (nec DC.)).

Down—Saintfield (*Waddell*)—*W.B.E.C.* 1896.

Antrim—Near Belfast ! *R. P. Murray*. Squire's Hill, *Stewart*. Dun-
severick ! *Praeger*. Sallagh Braes (*Waddell*)—*W.B.E.C.* 1897.

This is the common form in the North of Ireland.—*Stewart MS.*

var. **filicaulis** (Buser). DO, AN, LD.

Down—Scrabo Hill 1898 (*Praeger*)—*G.I.T.B.*

Antrim—Cave Hill ! *Stewart*. Hannahstown 1889—*Stewart MS.*

Knockagh ! *Praeger*. Sallagh Braes (*Waddell*)—*W.B.E.C.* 1897.
Wiley's Fort 1902—*B.N.F.C.* v, 87.

Derry—Benevenagh ! *Stewart*. Castledawson 1903—*Stewart MS.*

var. **minor** (Huds.) (= *A. filicaulis* var. *vestita* Buser). DO, AN, — .

Sup. 160.

Antrim—Garron Tower (*Druce*)—*I.N.* xxi, 236.

Agrimonia Eupatoria L. Rare in DO. *Fl.* 41, *Sup.* 160. DO, AN, LD.

A. odorata Mill. Rare. *Fl.* 42, *Sup.* 160. DO, AN, — .

Down—At Grannagh Bay near Portaferry, and Ballyfinragh Lough in
Ards ; north end of Reagh Island in Strangford Lough (*Praeger*)—
I.N. xii, 254 ; xiii, 225.

Antrim—Still at Glenarm 1898 (*Druce*)—*I.T.B.*

[*Poterium Sanguisorba* L. Casual. *Fl.* 294, *Sup.* 160. —, AN, —.]

P. officinale Hook. fil. (= *Sanguisorba officinalis* L.). DO, AN, LD.

Rare. *Fl.* 41, *Sup.* 160.

Antrim—Ardelinis one mile N. of Carnlough (*Adams*)—*I.N.* viii, 58.
Still there 1921 by coast road about Bottle Point (*Praeger*)—*I.N.*
xxx, 80.

[*Acaena Sanguisorbae* Vahl. Escape. DO, —, —.]

Down—Seems to be naturalizing itself at Rostrevor 1921 (*Praeger*)—
I.N. xxx, 99.]

ROSA.

Most of the new records in this list were supplied to us by the late Rev. C. H. Waddell who also looked over the draft copy and wrote the accompanying note. The final arrangement and nomenclature were suggested by Lt. Col. Wolley-Dod, who kindly revised the list on the lines of his latest suggestions on this difficult group. The present list follows the order of his "Revised Arrangement of British Roses" 1920, and he has named most of those in the list. A few have been named by Rev. A. Ley. A record followed by the sign ! indicates that it has been named by one or other of these authorities.

MR. WADDELL'S NOTE.

The arrangement of British Roses given below is far from complete and not so advanced as that of the Brambles. Much has still to be done in correlating British and Continental species. Some of our forms do not exactly correspond with the Continental forms under which they have been placed and the names given in these cases are provisional.

The group *involuta* is widely spread in Co. Antrim. There are many forms of the groups *glauca*, *tomentosa* and *mollis* in the district; *coriifolia* is not common; *canina* forms do not appear to be so numerous as in England. Now that the older species have been split up into subspecies older records will require re-examination.

Reference should be made to the following papers by Lt. Col. Wolley-Dod, which appeared as Supplements to the *Journal of Botany* and have been published separately.

"Subsection Eu-canina of the Genus Rosa" 1908. "The British Roses (excluding Eu-canina)" 1910. "A List of British Roses" 1911 (which gives the distribution at that date in Irish counties). "A Revised Arrangement of British Roses" 1920. Also a paper by Rev. A. Ley in *Journal of Botany* 1907 p. 200 on "Roses of the Mollis-tomentosa Group."—C.H.W.

Rosa arvensis Huds. *Fl.* 50, *Sup.* 167.

DO, AN, LD.

Antrim—In plenty between Crumlin and the Lough side 1812 (*Templeton's MS. Journal*)—*Stewart MS.* Still at Glenariffe and Glendun, scarce 1893 (*Shoolbred*)—*I.N.* iii, 148.

[var. *bibracteata* (Bast). Doubtful. *Sup.* 167.

—, AN, —.

"Your plant is more probably *R. arvensis* f. *major* Coste, which is usually mis-called *R. bibracteata*"—*A. H. Wolley-Dod.*]

R. spinosissima L. Frequent. *Fl.* 48, *Sup.* 165.

DO AN, LD.

forma **pimpinellifolia** (L.)

Antrim—With red fruit, rocks by river at Bushmills—*Stewart MS.*

var. **ciphiana** (Sibb.) *Fl.* 48, *Sup.* 165.

—, AN, LD.

“The pale rose coloured form of *pimpinellifolia* is often so named. I believe true *ciphiana* with deep rose flowers is only a garden form.”—*Note by Lt. Col. Wolley-Dod.* The same authority in “A List of British Roses” says “The true plant of Sibbald . . . has flowers variegated with deep or pale rose and white, not uniformly rose.” This corresponds with note in *Flora*.

R. involuta Sm. (*spinosissima* × *villosa*) aggr.

DO, AN, LD.

Fl. 49, *Sup.* 165.

Antrim—Glenarm Park near Castle (! Crépin) (*Lett and Waddell*)—*I.N.* vii, 167. Undercliff at Knockagh 1895 (*Stewart*)—*Stewart MS.*

forma **Sabini** (Woods). *Fl.* 49, *Sup.* 166.

DO? AN, LD.

Antrim—Quarry bank at Straidkilly near Carnlough 1910, *Waddell*! Skerry near Broughshane (*Stelfox*), and Skerrywherry (*Praeger and Stelfox*)—*I.N.* xxix, 95.

forma **Doniana** (Woods). *Fl.* 49.

—, AN, LD.

Derry—Derrynoid near Draperstown 1896 (*Stewart*)—*Waddell*!

forma **gracilis** (Woods).

—, —, LD.

Derry—Bennedy Glen near Dungiven (*Moore* in *Fl. Ulst.*)—*Waddell*.

forma **Robertsoni** Baker. *Fl.* 49.

—, —, LD.

forma **gracilescens** Baker. *Fl.* 49.

, AN, LD.

R. hibernica Templ. (*spinosissima* × *canina*). *Fl.* 48.

DO, AN, LD.

Rare.

Templeton was the first to name this plant. See *Journ. of Bot.* 1907.

forma **glabra** Baker. *Sup.* 165.

DO? AN, —.

Antrim—Bellair Hill north of Carnlough (*Waddell*)—*B.E.C.* 1910.

“Specimens of the plant from Tillysburn sent to the Club [*B.E.C.*] in a previous year were said to be the type, not this variety.”—*Waddell*.

forma **Wilsoni** (Borrer). *Fl.* 49.

—, AN, LD.

Antrim—Knockagh (*Stewart*)—*Waddell*. See Wolley-Dod's “List of British Roses,” p 8.

forma **laevigata** Baker. *Fl.* 49.

—, AN, LD.

R. spinosissima × **rubiginosa**, forma **Moorei** Baker.

—, —, LD.

Fl. 49.

R. canina L. Aggregate. Very common. *Fl.* 50.

DO, AN, LD.

- R. lutetiana** Lem. Very common — *Waddell*. *Sup.* 166. DO, AN, — .
 var. **sphaerica** (Gren.). DO, AN, — .
 Down—Ballyholme Bay (*Waddell*) — *W.B.E.C.* 1911.
 Antrim—Ardelinis, *Waddell*! W. of Greencastle, *Wear*.
 var. **transitoria** R. Kell. —, AN, — .
 Antrim—W. of Greencastle 1919, *Wear*!
 var. **globularis** (Franch). —, AN, — .
 Antrim—S. of Bellevue Gardens, Whitewell, 1919, *Wear*!
 var. **dumalis** (Bechst.). Common. *Sup.* 166. DO, AN, LD.
 Down—Saintfield 1895 (*Waddell*)—*I.N.* vii, 167.
 Antrim—Glenarm 1898 (*Druce*)—*I.N.* viii, 198. W. of Greencastle,
 1919, *Wear*!
 Derry—Eglinton (*Leebody*)—*I.T.B.*
 Other records could be given.
 forma **rubelliflora** (Rip.). —, AN, — .
 Antrim—Cave Hill 1909, *Waddell*.
 var. **sphaeroidea** (Rip.). DO, AN, — .
 Down—Near Ballyholme Mill 1919, *Stelfox*!
 Antrim—S. of Bellevue Gardens, Whitewell, 1919, *Wear*!
 var. **biserrata** (Mérat). DO, AN, — .
 Down—Road hedge opposite Ballyholme Water Mill, 1919, *Stelfox*!
 Antrim—Cave Hill 1909, *Waddell*!
 var. **erlostyla** (Déségl. and Rip.). DO, —, — .
 Down—Hedge near Ballyholme Mill 1919, *Stelfox*!
 var. **viridicata** (Pug.). DO, AN, — .
 Down—Saintfield demesne (*Waddell*)—*B.E.C.* 1911.
 Antrim—Ballyrudder 1894 (*Stewart*)—*Waddell*! Toome, a biserrate
 form (*Waddell*)—*B.E.C.* 1909.
 var. **recognita** Rouy. DO, —, — .
 Down—Lane S. of Ballymagee 1919, *Stelfox*!
 var. **verticillacantha** (Mérat). DO, AN, — .
 Down—Aughnadarragh Lake and near Saintfield (! Crépin) (*Waddell*)—
I.N. vii, 167.
 Antrim—S. of Bellevue Gardens, Whitewell, 1919, *Wear*!
 var. **marginata** Baker. *Fl.* 50. —, —, LD.
R. dumetorum Thuill. *Sup.* 166. DO, AN, LD.
 Down—Saintfield, *Waddell*! Grey Abbey (*Waddell*)—*B.E.C.* 1914.
 Derry—Toomebridge 1898 (*Druce*)—*I.N.* viii, 198.

- forma **trichoneura** (Rip.). DO, —, LD.
 Down—Hedge near Saintfield station 1909, *Waddell*!
 Derry—Above Portglenone bridge 1919, *Wear*!
- forma **semiglabra** (Rip.). DO, —, —.
 Down—Grey Abbey (*Waddell*)—*W.B.E.C.* 1915.
- var. **platyphylla** (Rau.). DO, —, —.
 Down—Mount Stewart and Grey Abbey (*Waddell*)—*B.E.C.* 1914.
 “Either this or *spharocarpa*.”
- R. glauca** Vill. aggregate. *Sup.* 166. DO, AN, LD.
 Down—Aughnadarragh 1894, Saintfield vicarage and demesne, (!Crépin)
 (*Waddell*)—*I.N.* vii, 167.
 Antrim—Cave Hill 1898 (*Druce*)—*I.N.* viii, 198. Toome 1909,
Waddell!
 Derry—Errigal Banks, and by River Roe (!Crépin) (*Moore* in *Herb.*
Glasnevin)—*Cyb.* II. Near Lough Neagh 1898 (*Druce*)—*I.N.*
 viii, 198.
- R. Reuteri** Godet.
- var. **subcristata** Baker. *Sup.* 166. DO, AN, LD.
 Down—Saintfield 1906 (*Waddell*)—*W.B.E.C.* 1906.
 Antrim—Waterloo near Larne 1895 (*Stewart*)—*Waddell*!
 Derry—Derrynoid near Draperstown 1896 (*Stewart*)—*Waddell*!
- forma **myriodonta** Chr. DO, —, —.
 Down—Saintfield 1909 (*Waddell*)—*Wolley-Dod's List of British Roses*,
 p. 29.
- var. **fugax** (Gren.). DO, —, —.
 Down—Saintfield 1905 (*Waddell*)—*List of British Roses*, p. 29.
- var. **stephanocarpa** (Déségl. and Rip.). DO, —, —.
 Down—Saintfield 1906 (*Waddell*)—*W.B.E.C.* 1906.
- var. **subcanina** Christ. —, AN, —.
 Antrim—Toome 1909, *Waddell*!
- var. **coriifolia** (Fries). *Fl.* 50. DO, —, LD.
 Down—Ballymagee 1919, Stelfox!
 “It is strange that *coriifolia* so widely spread in Scotland seems to be
 rare in N.E. Ireland.”—*Waddell*.
- var. **pruniosa** (Baker). *Fl.* 50. —, —, LD.
- R. tomentella** Lem. *Sup.* 166. —, AN, —.

[*R. pomifera* Herrm. *Sup.* 165.

DO, AN, —.

Down—Hedge at roadside near Loughbrickland 1895 (*Lett*)—*Waddell*!]

R. mollis Sm. *Fl.* 49, *Sup.* 166.

DO, AN, LD.

Down—Saintfield 1895 (*Waddell*)—*I.T.B.* Grey Abbey, *Waddell*!

Antrim—Ballycastle 1897 (*Præger*)—*I.T.B.* Cranfield—*B.N.F.C.* 1897. Harbour Island (*Druce*)—*I.N.* viii, 198. S. of Bellevue Gardens (probably Stewart's Whitewell station) 1919, *Wear*!

Derry—Garvagh, *Waddell*!

var. **cærulea** (Woods).

—, AN, —.

Antrim—Cave Hill 1894 (*Stewart*)—*Waddell*!

var. **nuda** Druce.

—, AN, —.

Antrim—Cave Hill 1898 (*Druce*)—*I.N.* viii, 198.

var. **pseudo-rubiginosa** (Lejeune).

DO, —, —.

Down—Ballymagee 1919, Stelfox!

R. omissa Déségl.

Antrim—Toome 1909, *Waddell*! Bellair Hill near Carnlough (*Waddell*)—*B.E.C.* 1910. Whitepark Bay (*Druce*)—*I.N.* xxi, 235.

forma **resinosoides** (Crépin).

DO, AN, —.

Down—Aghnadarragh 1906, *Waddell*! Doran's Rock near Saintfield (*Waddell*)—*W.B.E.C.* 1910.

Antrim—Bellair Hill near Carnlough (*Waddell*)—*B.E.C.* 1910.

var. **Sherardi** (Davies).

DO, AN, —.

Down—Saintfield 1895, *Waddell*.

Antrim—Glenariffe 1895 (*Stewart*); Bushmills 1898 (*Druce*)—*Waddell*! W. of Greencastle, and S. of Bellevue Gardens, Whitewell, 1919, *Wear*!

forma **submollis** (Ley.).

DO, AN, —.

Down—Aghnadarragh 1909, and Saintfield 1911, *Waddell*! Grey Abbey (*Waddell*)—*W.B.E.C.* 1915. Roadside near Bangor a little north of Ballygrainey and near Ballyholme Mill 1919, *Stelfox*.

Antrim—Glenariffe 1896 (*Stewart*)—*Waddell*. Carnlough (*Waddell* in *Herb. Wolley-Dod*)—*Wolley-Dod*.

var. **subglobosa** (Smith). *Fl.* 50.

—, AN, —.

Antrim—Bushmills 1898 (*Druce*)—*I.N.* viii, 198.

[var. **farinosa** (Bechstein).

DO, —, —.

Down—Co. Down—*Ley* in *Journal of Botany* 1907, p. 200.

Col. Wolley-Dod has queried the occurrence of this variety in our islands.]

R. suberecta Ley.

DO, AN, LD.

Down—Ballynahinch 1894 (*Stewart*)—*Waddell*! Ballymacaramery near Saintfield 1907, and quarries in Grey Abbey demesne 1915, *Waddell*!

Antrim—Co. Antrim—*Ley* in *Journ. of Bot.* 1907, p. 206.

Derry—Co. Londonderry—*Ley* in *Journ. of Bot.* 1907, p. 206.

R. tomentosa Sm. Common as aggr. *Fl.* 50, *Sup.* 166. DO, AN, LD.

Down—Near Saintfield 1897 (Crépin) (*Waddell*)—*I.N.* vii, 167. Grey Abbey, *Waddell*. Ballyholme Mill and lane between Ballygrainey Road and Primacy at Bangor, 1919, Stelfox!

var. **cuspidatoides** (Crép.).

—, AN, —.

Antrim—Lough Neagh at Cranfield 1896, "a form approaching this var." (*Stewart*)—*Waddell*!

forma **pseudo-cuspidata** (Crép.).

DO, —, —.

Down—Near Saintfield Railway Station 1911 (*Waddell*)—*B.E.C.* 1911. Mount Stewart 1915 (*Waddell*)—*W.B.E.C.* 1915.

var **scabriuscula** (Sm.). *Sup.* 166.

DO, AN, —.

Down—Saintfield 1895 (*Waddell*)—*W.E.B.C.* 1895. Near Ballyholme Mill 1919, Stelfox!

R. rubiginosa L. (= *R. apricorum* Rip.). *Fl.* 50, *Sup.* 166. DO, AN, LD.
Rare.

Down—Doran's Rock near Saintfield 1897 (!Crépin) (*Waddell*)—*I.N.* vii, 167. In Lecale and frequent in Ards (*Praeger*)—*I.N.* xi, 240; xii, 264. Portaferry and Grey Abbey, *Waddell*. Mount Stewart (*Waddell*)—*Herb. Wolley-Dod*. Ballygrainey quarry S. of Bangor 1919, Stelfox!

Antrim—Stony margin of Lough Neagh at Cranfield 1896—*Stewart MS.* Ballymena 1899 (*Knowles*)—*I.T.B.*

Derry—Coleraine 1896 (*Leebody*)—*I.T.B.*

var. **comosa** (Rip.).

DO, —, —.

Down—Mount Stewart 1914 (*Waddell*)—*W.B.E.C.* 1914. Grey Abbey Rectory (*Waddell*)—*Herb. Wolley-Dod*. Ballygrainey quarry near Bangor 1919, Stelfox!

forma **comosella** (Déségl. and Rip.).

DO, —, —.

Down—Garden hedge Ballymagee 1919, *Stelfox*!

[*R. micrantha* Sm. Error. *Fl.* 50, *Sup.* 166.

—, AN, —.]

[*R. inodora* Fries. Error. *Fl.* 294.

—, AN, —.]

[*R. cinnamomea* L. Planted. *Fl.* 277.

—, —, LD.]

[*R. lutea* Link. Planted. *Fl.* 277. —, AN, —.]

Pyrus Aria Ehrh. Very rare. *Fl.* 51, *Sup.* 167. DO? AN, LD.
 Antrim—Still at Little Deerpark, Glenarm, abundant and thriving 1914,
Wear. Garron Point on stream from Galboly Lough (*Praeger and*
Stelfox)—*I.N.* xxix, 95.
 Derry—Refound at Magilligan Braes on first stream east of Eagle Hill
 1916, *Tomlinson*; and on Woodtown cliffs half a mile S.W. of
 last station 1917, *Praeger*. See *I.N.* xxvi, 169.
 All the local records appear to be referable to *P. rupicola* Syme.

P. Aucuparia Ehrh. Frequent. *Fl.* 51, *Sup.* 167. DO, AN, LD.

[*P. communis* L. Planted. *Fl.* 277. —, AN, —.]

P. Malus L. Rare in wild state. *Fl.* 51, *Sup.* 167. DO, AN, LD.

Antrim—Creagh Bog (large trees) and Connell Point near Toome 1918,
 and shore of Lough Neagh E. of Harbour Island, 1920, *Stelfox*.

"Among our native plants the crab tree (*Malus*) may be reckoned;
 it grows spontaneously in the neighbourhood of Lough Neagh, along the
 whole extent of the coast from Portinore to Toome, in some places to be a
 very large tree."—*Doubourdieu*: "Statistical Survey of Antrim," 1812.

The native plant is var. *acerba* (DC.)

Crataegus Oxyacantha L. *Fl.* 51, *Sup.* 167. DO, AN, LD.

Very common.

The relative frequency of the two forms *oxyacanthoides* Thuill., and
monogyne Jacq., has not been worked out.—See *G.I.T.B.*

SAXIFRAGACEÆ.

Saxifraga oppositifolia L. Benevenagh only. *Fl.* 59. —, —, LD.

Derry—Still at Benevenagh 1922, *Bennett and Chase*.

S. stellaris L. Rare. *Fl.* 57, *Sup.* 169. DO, —, LD.

Down—Glen River valley, *Tomlinson*.

Derry—Still on Dart, on shady rocks, 1915, *Lilly*.

S. Geum L. Escape. *Fl.* 279. DO, AN, —.

Down—Woods at Portavoe Demesne 1915, *Stelfox*.

Antrim—Glen on west branch of Forth River—*B.N.F.C.* iv, 419.

- [*S. umbrosa* L. Escape. *Fl.* 279. DO, AN, — .
Down—Corry's Glen $2\frac{1}{2}$ miles N.N.E. of Hillsborough, a garden variety, *Stelfox*.]
- S. Hirculus** L. Very rare. *Fl.* 58. —, AN, — .
Antrim—On Garron Plateau about $\frac{1}{2}$ mile E. of top of Crocknavar and $\frac{1}{2}$ mile W. of Mr. Praeger's original station 1914 (*Stelfox and Wear*)—*I.N.* xxiii. 229. Sparingly $\frac{3}{4}$ mile N.N.E. of Colin Top 1920 (*Praeger and Stelfox*)—*I.N.* xxix, 95.
Repeated search has been made for it in recent years at Lough Naroon, but so far without success.
- S. aizoides** L. One area. *Fl.* 58. —, AN, — .
Antrim—North of Torr Head on damp schistose rocks on escarpment 1910, *Tomlinson*. Still at Murlough 1913, *Stelfox*.
- S. tridactylites** L. Rare. *Fl.* 59, *Sup.* 169. DO, AN, LD.
Down—Wall of 11th Lock (below Lisburn) (*Davies*)—*I.N.* vii, 148.
Antrim—Weir near "The Island," Lisburn (*Davies*)—*I.N.* vii, 148.
Portrush sandhills 1919, *Wear*.
Derry—On wall at Castlerock 1902, *Stelfox*. Sandhills at Castlerock 1922, *Bennett and Chase*. Downhill and Magilligan, abundant, *Tomlinson*.
- [*S. granulata* L. Planted. *Fl.* 59. DO, AN, LD.
Antrim—Castle Upton 1916—*B.N.F.C.*
Only the double form has been found.]
- S. hypnoides** L. Not rare. *Fl.* 58, *Sup.* 169. —, AN, LD.
var. **gemmifera** Syme.
Antrim—Glenariffe (D'Arcy)—*I.N.* x, 192. Knockdhu (*Lilly*)—*I.N.* xvii, 162. Still at Torr Head 1911—*B.N.F.C.* vi, 491.
Derry—Still at Benevenagh 1914, *Stelfox*.
var. **sponhemica** (Gmel.). Not rare. *Fl.* 59. —, AN, LD.
"*S. sponhemica* more common than true *S. hypnoides* in my experience."—*A. W. Stelfox*.
- Chrysosplenium oppositifolium** L. *Fl.* 59, *Sup.* 169. DO, AN, LD.
Common.
- [*C. alternifolium* L. Error. *Fl.* 294. —, AN, —.]

- Parnassia palustris** L. Frequent in north. *Fl.* 60, *Sup.* 169. —, AN, LD.
 Antrim—Cushendall—*Fl. Ulst.* Still at Torr Head 1911, and Ballycastle 1915—*B.N.F.C.*
 Derry—Between Portstewart and Bann 1905, *Tomlinson*. Castlerock Golf Links 1914, *Mrs. S. Macoun*. Downhill to Magilligan 1917, *Præger*.
 var. **condensata** Travers and Wheldon. —, AN, —.
 Antrim—Whitepark Bay 1912 (*Druce*)—*I.N.* xxi, 235.

- [*Ribes Grossularia* L. Escape. *Fl.* 278. DO, AN, LD.]
 [*R. rubrum* L. Escape. *Fl.* 279. —, AN, LD.]
 [*R. nigrum* L. Escape. *Fl.* 278. DO, AN, LD.]

CRASSULACEÆ.

- Cotyledon Umbilicus** L. *Fl.* 57. DO, AN, LD.
 Common in DO, frequent elsewhere.
- Sedum Rhodiola** DC. Rare. *Fl.* 56, *Sup.* 168. DO, AN, —.
 Antrim—Still at Fairhead 1921, *J. R. H. Greeves*; and at Glenariffe 1920, *Bennett*.
- S. Telephium* L. Rare. *Fl.* 56, *Sup.* 169. DO, AN, LD.
 Down—Ballylessan (*Dickson*)—*Corry MS.* Shore near Kirkcubbin 1905, *Lilly*. Near Ballymagee 1918, *Stelfox*. Mountstewart 1916—*B.N.F.C.* Hillsborough demesne 1916, *Foster*.
 Antrim—Ferris's Point on Island Magee—*Corry MS.* Craigbilly (*Knowles*)—*I.T.B.* Gloonan and Taylorstown near Ahoghill, *Megaw*. Still at Shane's Castle 1906—*B.N.F.C.* v, 482.
 Derry—Roadside at Killure near Coleraine 1916, *Henry*.
 "All the N. of I. plants I have seen are *S. Fabaria* Koch"—*R. Ll. Præger*.
- S. album* L. Planted or escape. *Fl.* 278. —, AN, —.
 Antrim—By shore at Shane's Castle—*Corry MS.* Roadside near Portmoon—*B.N.F.C.* Exc. 1913. Between road and sea at Ballygally Head 1912, *Stelfox*.
 [var. *micranthum* Bast. Planted. *Fl.* 278. —, AN, —.
 Doubtfully correct—*R. Ll. Præger*.]

- [*S. dasyphyllum* L. Planted. *Fl.* 278. —, AN, —.]
- S. anglicum** Huds. Common. *Fl.* 56, *Sup.* 169. DO, AN, LD.
- S. acre** L. Common. L. *Fl.* 57. DO, AN, LD.
- S. reflexum* L. Established. *Fl.* 57. DO, AN, LD.
 Antrim—Rocks in Glenariffe (*Tate*)—*Cyb.* I *Suppl.* Shore at Cranfield
 —*Stewart MS.* Rathlin Island (*Miss Gage*)—*Corry MS.* Still at
 Antrim 1916, *Joseph Maxwell*.
- S. rupestre* L. Established. *Fl.* 57. —, AN, LD.
 Antrim—Glenariffe 1898 (*Adams*)—*I.N.* viii, 58. Planted there by Miss
 Hassard—*Rev. S. A. Brenan* in *I.N.* x, 229.
- [*Sempervivum tectorum* L. Planted. *Fl.* 278. DO, AN, LD.]

DROSERACEÆ.

- Drosera rotundifolia** L. *Fl.* 18, *Sup.* 150. DO, AN, LD.
 Common in bogs.
- D. anglica** Huds. Locally abundant. *Fl.* 18, *Sup.* 15.. DO, AN, LD.
- D. intermedia** Hayne. Very rare. *Fl.* 18, *Sup.* 151. DO, —, —.

HALORAGACEÆ.

- Hippuris vulgaris** L. Frequent. *Fl.* 55, *Sup.* 168. DO, AN, LD.
- Myriophyllum verticillatum** L. Very rare. *Fl.* 55. —, AN, —.
- M. spicatum** L. Frequent. *Fl.* 55, *Sup.* 168. DO, AN, LD.
 Derry—Magilligan 1917, *Praeger*.
- M. alterniflorum** DC. Common. *Fl.* 55. DO, AN, LD.
- Callitriche verna** L. Aggregate. Common. *Fl.* 126. DO, AN, LD.
- C. vernalis** Koch.

Though there is some doubt it seems probable that the *C. verna* of the *Flora* refers to this segregate only and not to the aggregate, since the other segregates are given.

C. stagnalis Scop. Frequent. *Fl.* 126, *Sup.* 195. DO, AN, LD.

The commonest of the Irish Callitriches—*Cyb.* II.

C. hamulata Kuetz. Frequent. *Fl.* 126, *Sup.* 195. DO, AN, LD.

var. **pedunculata** DC. *Fl.* 127, *Sup.* 195. DO, —, —.

C. obtusangula Le Gall. DO, AN, —.

Down—Marsh at rear of Queen's Quay 1876 (*Stewart*) *Stewart MS.*
Victoria Park in brackish ditch 1898 (*Druce and Stewart*); Killough
1899 (*Stewart*)—*I.N.* viii, 114. The Victoria Park plant may be
this or a hybrid with *C. vernalis*; see *W.B.E.C.* 1900—*Waddell*.
Cotton Moss 1921, *Chase*.

Antrim—Drain by Lough Neagh at Three Islands in good flower and
fruit 15th July 1900 (*Stewart*)—*Stewart MS.*

C. autumnalis L. Rare. *Fl.* 127, xxxiii, *Sup.* 195. DO, AN, LD.

Antrim—Portmore Lake 1898 (*Davies*)—*Stewart MS.* Harbour Island
in Lough Neagh (*Waddell*)—*W.B.E.C.* 1909.

LYTHRACEÆ.

Peplis Portula L. Frequent. *Fl.* 52, *Sup.* 167. DO, AN, LD.

Lythrum Salicaria L. Common. *Fl.* 52. DO, AN, LD.

[*L. Hyssopifolia* L. Casual. DO, —, —.

Down—Ballymagee 1916, *Stelfox*. One plant appeared in 1916, and
several in 1917, on a path cut through a field in which oats had been
grown in 1910; not seen afterwards.

The only other Irish record of this plant is from Co. Wexford, not since
found there—See *Ir. Fl.*, *Fl. Hib.* and *Cyb. Hib.*]

ONAGRACEÆ.

Epilobium angustifolium L. Rare. *Fl.* 53, *Sup.* 167. DO, AN, LD.

Antrim—Woodburn Glen 1811 (*Templeton*)—*Stewart MS.* Lough
Rocks near Dunloy, *Carrothers and Tomlinson*. Knockdhu,
Tomlinson. Still at Murlough 1900 (*Mrs. Swan*)—*I.T.B.* Torr
Head 1911—*B.N.F.C.* Agnew's Hill (*Prueger and Stelfox*)—*I.N.*
xxix, 95. Ardelinis 1920, *Bennett*.

Derry—Croaghan Rocks near Coleraine, *Henry*. Several bogs between
Cookstown and Coagh (abundant in Ballyloughan bog) 1915, *Greer*

The lowland stations are mostly due to escapes.

- E. hirsutum** L. Common. *Fl.* 53. DO, AN, LD.
- E. parviflorum** Schreb. Common. *Fl.* 53. DO, AN, LD.
- E. montanum** L. Common. *Fl.* 53. DO, AN, LD.
var. **humile**. Rare. *Fl.* 53. —, AN, —.
- E. roseum** Schreb. *Fl.* 54, 277. DO, AN, —.
Down—Ballyskeagh near bridge over canal 1897 (*Davies*)—*I.N.* vii, 7, 41. Drumbo 1897 (*Davies*)—*Stewart MS.*
Antrim—Glenmore and Ballydrain 1897 (*Davies*)—*I.N.* vii, 7, 41.
- [**E. tetragonum** L. Casual. *Fl.* 277. DO, —, —.]
- E. obscurum** Schreb. Common. *Fl.* 53. DO, AN, LD.
- E. obscurum** × **palustre**. Rare. *Sup.* 167. —, AN, —.
- E. palustre** L. Frequent. *Fl.* 54, *Sup.* 167. DO, AN, LD.
- Ænothera biennis** L. Escape. *Fl.* 278. —, AN, —.
Antrim—Ballast pit on railway at Moylina near Antrim, 1906, *Knowles*.
- Circeæ lutetiana** L. Common. *Fl.* 54. DO, AN, LD.
- C. alpina** L. Rare. *Fl.* 54, *Sup.* 168. DO, AN, LD.
Antrim—Cranfield 1896—*Stewart MS.* Ballymena (*Knowles*)—*I.T.B.*
Carnlough Glen (*Præger and Stelfox*)—*I.N.* xxix, 95.
Derry—Errigal Banks, *Tomlinson*.
- var. **intermedia** (Ehrh.). *Fl.* 55, *Sup.* 168. DO, AN, LD.

UMBELLIFERÆ.

- Hydrocotyle vulgaris** L. Common. *Fl.* 60, *Sup.* 169. DO, AN, LD.
- Eryngium maritimum** L. Rare. *Fl.* 60, *Sup.* 169. DO, AN, LD.
Down—Still at Kirkiston 1903 (*Præger*)—*I.N.* xii, 254. Still at Newcastle, sparingly, 1921, *Chase*.
Antrim—Portrush Golf Links 1909, sparingly; also one plant in 1907 south of Golf Hotel near Moore's Derry station, not seen since, *Weur*. Still at Red Bay 1920, *Bennett*.
Derry—Magilligan, one plant (*Tomlinson*)—*I.N.* xxix, 75; several plants 1920, *Tomlinson*.

- Sanicula europæa** L. Common. *Fl.* 60, *Sup.* 169. DO, AN, LD.
- Conium maculatum** L. Locally common. *Fl.* 68, *Sup.* 172. DO, AN, LD.
Antrim—Rani's Island 1812 (*Templeton's MS. Journal*)—*Stewart MS.*
- Smyrniium Olusatrum** L. Frequent. *Fl.* 68, *Sup.* 172. DO, AN, LD.
- [**Rupleurum rotundifolium** L. Casual. . AN, — .
Antrim—Stranmillis felt-works, *Currothers.*]
- Apium graveolens** L. Rare. *Fl.* 61, *Sup.* 170. DO, AN, LD.
Down—Comber 1900 (*Praeger*) *I.T.B.*
Derry—Portglenone (*Knowles*)—*I.T.B.* Still at Broomhall 1894
(*Leebody*)—*I.T.B.* Banks of Roe at Ballyhenry, 1919, *Lilly.*
- A. nodiflorum** Reichb. fil. Common. *Fl.* 61. DO, AN, LD.
[var. *repens* Hook. fil. ? Error. *Fl.* 61, *Sup.* 170.]
- A. inundatum** Reichb. fil. Frequent. *Fl.* 61, *Sup.* 170 DO, AN, LD.
- A. nodiflorum** × **inundatum** Rare. *Fl.* 62, *Sup.* 170. DO, AN, LD.
(= *A. nodiflorum* var. *Moorei* Syme.).
Down—Pond near Dundrum Castle—*B.N.F.C.* iv, 531
Antrim—Still at Selshan 1915, *Wear.*
- Cicuta virosa** L. Frequent. *Fl.* 61, *Sup.* 169. DO, AN, LD.
Down—Drumaran Lough, Tullylish and Drumnacaddy Lough (*Davies*)—*I.N.* xii, 272.
Antrim—Selshan and Gawley's Gate—*B.N.F.C.* 1915.
- Carum verticillatum** Koch. *Fl.* 62, xxxii, *Sup.* 170. DO? AN, LD.
Very rare.
[Down—Pasture on border of lake, Ballyalloly House (*Tate*)—*Fl. Belf.*?]
Antrim—Carnsampsen near Ballycastle (*Praeger and Carr*)—*B.N.F.C.* iv, 433.
Derry—Formoyle Hill at 800 ft. elevation (*Druce*)—*I.N.* xxi, 235.
Abundant by tributary of the Roe at General Bridge, Feeny 1914, *Lilly.* Field between Coleraine and Portstewart by Cromore Road ; and still abundant at Coleraine 1916, *Henry.*
- C. Carui** L. Escape. *Fl.* 279, *Sup.* 170. DO, AN, LD.

- [*Petroselinum sativum* Hoffm. Escape. *Fl.* 279, *Sup.* 170. DO, —, LD.
Down—Possibly established on stony beach at Tara in Ards (*Praeger*)—*I.N.* xxvii, 118.]
- [*P. segetum* Koch. Doubtful. *Fl.* 294. —, —, LD.]
- [*Falcaria vulgaris* Bernh. Casual. DO, —, —.
Down—Strangford Lough 1912 (*Dr. F. W. Stansfield*)—*I.N.* xxii, 18;
xxiii, 20.]
- Slum latifolium*** L. *Fl.* 63, *Suppl.* 136. —, AN, LD.
Not seen recently. The Lough Neagh area records alone appear to be correct.
- S. angustifolium*** (*S. erectum* Huds.). *Fl.* 63, *Sup.* 170. DO, AN, LD.
Rare.
Down—Near Strangford, frequent in *Lecale* and common in marshes in south of Ards (*Praeger*)—*I.N.* vi, 280; xi, 210; xii, 254. Lough Money near Downpatrick 1917, *Wear*.
Derry—Moneymore and Ballyronan—*Fl. Ulst.*
- Ægopodium Podagraria* L. Abundant. *Fl.* 62. DO, AN, LD.
- Pimpinella Saxifraga*** L. Frequent. *Fl.* 63, *Sup.* 170. DO, AN, LD.
- Conopodium denudatum*** Koch. (*Bunium flexuosum* With.) DO, AN, LD.
Frequent. *Fl.* 62.
- Myrrhis odorata* Scop. Frequent. *Fl.* 67, *Sup.* 172. DO, AN, LD.
Antrim—Ballymena (*Knowles*)—*I.T.B.*
Derry—Bellaghy—*Fl. Ulst.* Downhill to Magilligan 1917, *Praeger*.
- Chærophyllum temulum*** L. Very rare. *Fl.* 67. —, AN, LD.
Antrim—Still at Derrymore 1915—*B.N.F.C.* 1915. Derryclone 1916, *Houston*. Hog Park at Selshan (*Praeger and Stelfox*)—*I.N.* xxix, 95.
- [*C. sativum* Lamk. Casual. *Fl.* 280. —, AN, —.]
- Scandix Pecten-Veneris* L. Local. *Fl.* 66, *Sup.* 172. DO, AN, LD.
Down—Clay Lake (*Praeger*)—*I.T.B.*
- Anthriscus vulgaris*** Pers. Infrequent. *Fl.* 67, *Sup.* 172. DO, AN, LD.
- A. sylvestris*** Hoffm. Very common. *Fl.* 67. DO, AN, LD.

Feniculum vulgare All. Escape. *Fl.* 65. DO, AN, —,
Down—Near Rostrevor (Carrothers)—*B.N.F.C.* vi, 11.

Crithmum maritimum L. Rare. DO, AN, —.
Down— $\frac{1}{4}$ mile N. of Kearney Point 1896 (*S. A. Moore*); Carnalea 1896 (*Gulbransen*)—*B.N.F.C.* iv, 433. St. John's Point 1898 (*R. Welch*)—*B.N.F.C.* iv, 447. Frequent from St. John's Point to Phennick Point (*Praeger*)—*I.N.* xi, 201. Groomsport to Orlock (*Porter*)—*I.N.* xii, 197. Ardglass Harbour—*B.N.F.C.* v, 291. $\frac{1}{4}$ mile S. of Kearney Point (*Praeger*) *I.N.* xxvii, 118. Killard 1921, *Miss Elsie Seaver*.
Antrim—Near Garron Point 1903 (*Lilly*)—*I.N.* xii, 245.

Enanthe fistulosa L. Rare. *Fl.* 64, *Sup.* 171. DO, AN, LD.
Down—Ellis's Cut—*B.N.F.C.* vi, 503.
Antrim—Selshan 1915—*B.N.F.C.* 1915. Portmore Lough, *Houston*.
Derry—Magilligan, *Lilly*.

[*Æ. pimpinelloides* L. Error. *Fl.* 294.

Æ. Lachenalii C. Gmel. Rare. *Fl.* 64, *Sup.* 171. DO, AN, LD.
Down—Frequent in Lecale and Ards; coast inside Launches in Strangford Lough (*Praeger*)—*I.N.* xi, 210; xii, 264; xiii, 225. Orlock Point—*B.N.F.C.* vi, 273. S. of Donaghadee 1917, *Megaw*.

Æ. crocata L. Common. *Fl.* 64. DO, AN, LD.

Æ. Phellandrium Lam. Frequent. *Fl.* 64, *Sup.* 171. DO, AN, LD.

[*Æthusa Cynapium* L. Not rare. *Fl.* 64, *Sup.* 171. DO, AN, LD.
Down—Lane to Dundrum Castle, *S. A. Moore*.

Antrim—By path to Cavehill, *Stewart MS.* Field by Crumlin River, 1878—*Corry MS.* Ahoghill, *Megaw*. Still at Cushendall 1920, *Bennett*.

Derry—Moneymore and Ballyronan—*Fl. Ulst.*].

[*Silaus pratensis* Bess. Error or casual. *Fl.* 65, *Sup.* 171. —, —, LD?
Probably an error. See *Cyb.* II.]

[*Meum Athamanticum* Jacq. ? Error. *Fl.* 279. —, AN, —,]

- Ligusticum scoticum** L. Rare. *Fl.* 65, *Sup.* 171. DO, AN, LD.
 Down—Rocks below Bangor 1809 (*Templeton*)—*Stewart MS.* Grooms-
 port to Orlock (*Porter*)—*I.N.* xii, 197. At and north of Butterlump
 Rock near Ballyhalbert, the most southerly record (*Praeger*)—*I.N.*
 xii, 254. Still at Donaghadee 1905 (*Carrothers*)—*B.N.F.C.* v, 372.
 Antrim—"Isle of Magee, among rocks about one mile from the northern
 shore" 1810 (*Templeton's MS. Journal*)—*Waddell.* Island Magee
 at Skernahan Point 1896, Barr's Point 1908, and shore near Drum-
 nasole 1915, *Lilly.* Larne (*W. H. Robinson*)—*B.N.F.C.* vi, 11.
 Portrush sandhills, *Tomlinson.* Still at Garron 1918, *Megaw.*
- Angelica sylvestris** L. Common. *Fl.* 65, *Sup.* 171. DO, AN, LD.
 [*Archangelica officinalis* Hoffm. —, AN, —.]
 Antrim—In old quarry in cliffs between Ballintoy and Carrick-a-rede
 (*Bailey*)—*B.E.C.* 1896.]
- Peucedanum Ostruthium** Koch. Escape. *Fl.* 279, *Sup.* 171. DO, AN, LD.
 Down—About Hilltown, in strong colonies (*Praeger*)—*I.N.* xxiv, 135.
- [*P. sativum* Benth. (= *Pastinaca sativa* L.). *Fl.* 279, *Sup.* 171. DO, AN, LD.
 Down—Still north of Comber River 1918, *Carrothers.*]
- Heracleum Sphondylium** L. *Fl.* 66, *Sup.* 171. DO, AN, LD.
 Very common.
- [*Coriandrum sativum* L. Casual. *Fl.* 280. —, AN, —.]
- Daucus Carota** L. Very common. *Fl.* 66. DO, AN, LD.
- [*D. gummiifer* Lamk. Doubtful. *Fl.* 294. DO, —, —.]
- Caucalis Anthriscus** Huds. (= *Torilis anthriscus* Gaert.). DO, AN, LD.
 Common. *Fl.* 16.
- C. nodosa** Scop. (= *T. nodosa* Gaert.). *Fl.* 66, *Sup.* 172. DO, AN, LD.
 Rare except in DO.
 Down—Bishop's Mill N. of Portaferry (*Praeger*)—*I.N.* vi, 280.
 Antrim—Ballycastle (*Hincks*)—*Fl. Ulst.* Whitepark Bay (*Praeger*)—*I.T.B.*
- [*Torilis infesta* Sprengel. Error. *Fl.* 295. DO, —, —.]

ARALIACEÆ.

Hedera Helix L. Common. *Fl.* 68, *Sup.* 172. DO, AN, LD.

CORNACEÆ.

[*Cornus sanguinea* L. Planted. DO, —, —.
Down—Dromore 1910—*B.N.F.C.* vi, 363.]

CAPRIFOLIACEÆ.

Adoxa Moschatellina L. Very rare. *Fl.* 69. —, AN, —.
Antrim—Still in Deer Park, Cave Hill, under friendly shelter of fallen rocks 1919, *Tomlinson*.

Sambucus nigra L. Frequent. *Fl.* 70. DO, AN, LD.
[var. *laciniata* Mill. Planted. DO, —, —.
Down—Roadside near Mount Stewart 1891 (*Jas. Wilson*); no doubt planted there—*Stewart MS.*].

S. Ebulus L. Frequent. *Fl.* 69, xxxii, *Sup.* 172. DO, AN, LD.
Down—Tollymore Park—*B.N.F.C.* v, 384.
Antrim—N.E. face of Black Mountain—*Fl. Belf.*; still there in plenty 1919, *Robert Bell*.
Derry—Near Magherafelt 1918, *Stelfox*.

Viburnum Opulus L. Frequent. *Fl.* 70, *Sup.* 173. DO, AN, LD.
Derry—Kilcattan near Comber 1809 (*Templeton*)—*Stewart MS.*

[*V. Lantana* L. Planted, now destroyed. *Fl.* 280. —, AN, —.]

Lonicera Periclymenum L. Common. *Fl.* 70, *Sup.* 173. DO, AN, LD.

[*L. Xylosteum* L. Escape. *Fl.* 280. —, AN, —.
Antrim—Glencoe 1912—*B.N.F.C.* vi, 595.]

RUBIACEÆ.

Galium boreale L. Not rare, but local. *Fl.* 71, *Sup.* 173. —, AN, LD.
Antrim—Ram's Island 1812 (*Templeton*)—*Stewart MS.* Cranfield—*B.N.F.C.* iv, 417. Eastern branch of Inver River in Glenariffe, and river bank near Kellswater station, *Tomlinson*. In wood and meadow at the Loopagh near Cullybackey, *Megaw*. Still at Agnew's Hill and Glenwherry 1920, *Praeger and Stelfox*.

- G. Crucjata** Scop. Very rare. *Fl.* 71, *Sup.* 173. DO, —, —.
 [Down—By side of footpath in an avenue at Annadale, Belfast 1908
 (*Carmody*)—*I.N.* xvii, 138; disappearing 1916, *Carrothers*.]

The standing of this plant in Ireland remains quite obscure.

- G. verum** L. Very common. *Fl.* 72. DO, AN, LD.
 var. **litorale** Bréb. DO, —, —.
 Down—Sandhills at Newcastle 1898 (*Druce*)—*I.N.* viii, 199.

- G. erectum** Huds. Rare. DO, AN, LD.
 Down—Aghaderg Glebe 1897 (*Lett*)—*Waddell*. Rowallane (*Redmond*
and Waddell)—*B.N.F.C.* iv, 443. Kilmore House near Lurgan—*B.N.F.C.* 1915.
 Antrim—Glenarm, *Holden and Dickie*. Glenmore, *Davies*. Whitewell,
Stewart. Cullybackey, *Buick*; also *Knowles*.
 Derry—Castle Dawson 1902 (*MacMillan*)—*Stewart MS.*
 The records above, with the exception of those for Kilmore and Castle
 Dawson, have been transferred from *G. Mollugo*. See *I.N.* vi, 259;
 also *B.N.F.C.* iv, 433.

- G. Mollugo** L. Very rare. *Fl.* 72, *Sup.* 173. DO, AN, LD.
 Down—Lenaderg (introduced) 1903 (*Davies*)—*I.N.* xii, 272.
 Antrim—Lawn of manse at Antrim 1898 (*Adams*)—*I.N.* viii, 58. Lawn
 at Garron Tower 1918, *Megaw*.
 Derry—Cromore Road between Coleraine and Portrush 1916, *Henry*.
 See note to *G. erectum* above.
 var. **angustifolium** G. Beck.
 Antrim—Near Cavehill 1898 (*Druce*)—*I.N.* viii, 199.

- G. saxatile** L. Common. *Fl.* 72. DO, AN, LD.

- G. sylvestre** Poll. *Fl.* 295. —, AN, —.
 A specimen in the National Herbarium is labelled in Dr. Moore's
 handwriting:—"G. pusillum [= *G. sylvestre*]. Rare. Observed near
 Fair Head and on Lurigedan Mtn., near Cushendall, July 1836" *I.N.*
 xvii, 322. Mr. Megaw has recently found the plant in one of Dr.
 Moore's stations.
 Antrim—Lurigethan Mountain and Ardclinis 1918 (*Megaw*)—*I.N.* xxvii,
 164. Garron Point in gully on stream from Lough Galboly
 (*Praeger and Stelfox*)—*I.N.* xxix, 95. Cushenilt Glen near Ard-
 clinis, and cliffs S.E. of Callisnagh Bridge in Glenariffe (*Praeger*)—*I.N.* xxx, 80.

- G. palustre** L. Very common. *Fl.* 72. DO, AN, LD.
 var. **Witheringii** (Sm.).
 Probably this is much commoner than the type, which appears to be
 very rare in Ireland—*G.I.T.B.*
- [*G. uliginosum* L. Error? *Fl.* 295. —, AN, —.]
- G. Aparine** L. Very common. *Fl.* 72. DO, AN, LD.
- [*C. tricornis* Stokes. Casual. DO, —, —.
 Down—Railway between Belfast and Kinnegar 1906 (*Carrothers*)—*I.N.*
 xv, 255.]
- Asperula odorata** L. Frequent. *Fl.* 71 DO, AN, LD.
- [*A. arvensis* L. Casual. —, AN, —.
 Antrim—Waste ground near Kilroot 1900 (*Mrs. Coulter*)—*Stewart MS.*]
- Sherardia arvensis** L. Frequent. *Fl.* 71, *Sup.* 173. DO, AN, LD.

VALERIANACEÆ.

- Valeriana officinalis** L. aggr. *Fl.* 72, *Sup.* 173. DO, AN, LD.
 Frequent.
- V. Mikanii** Wats. DO, AN, LD.
 Antrim—Bush River above Bushmills—*Stewart MS.*
 Derry—Errigal Glen—*Stewart MS.*
- V. sambucifolia** Mikan. *Sup.* 174. DO, AN, —.
 “The prevailing Irish plant is *V. sambucifolia* Mik.”—*Cyb.* II.
- [*V. pyrenaica* L. Planted. *Fl.* 280. —, AN, —.]
- Centranthus ruber* DC. Escape. *Fl.* 280. DO, —, —.
- Valerianella olitoria** Poll. Frequent. *Fl.* 72, *Sup.* 174. DO, AN, LD.
- V. carinata* Lois. *Fl.* 280, *Sup.* 174. DO, —, —.
 Established in one station (Dundonald).
- [*V. Auricula* DC. DO, —, —.
 Down—Fields near Lough Doo and Lough Cowey in Ards 1903
 (*Praeger*)—*I.N.* xii, 254].

- [*V. dentata* Poll. Rare. *Fl.* 73, *Sup.* 174. DO, AN, LD.
 Down—Ballyculter dam near Strangford 1897—*Stewart MS.* Frequent
 in Lecale and Ards (*Praeger*)—*I.N.* xi, 210; xii, 264. Kirk-
 cubbin 1905, *Lilly*.
 Antrim—Fields by Crumlin River 1878—*Corry MS.*]

DIPSACEÆ.

- Dipsacus sylvestris** Huds. Rare. ? Native. *Fl.* 73. DO, AN, — .
 Down—Lenaderg by River Bann (*Darries*)—*I.N.* xii, 272. Still at
 Greencastle 1906—*B.N.F.C.* 1906. Downpatrick rath 1921, and
 on shore of Quoile at Fairy Lodge (but near a garden) 1921, *Bennett*
and Chase.
 Antrim—Quarry one mile N.E. of Moira 1907 (*Foster*)—*I.N.* xvii, 37.
- Scabiosa Succisa** L. Very common. *Fl.* 73, *Sup.* 174. DO, AN, LD.
- S. arvensis** L. Local. *Fl.* 73, *Sup.* 174. DO, AN, LD.
 Down—Ballyholme, on waste ground, *Stelfox*.
 Antrim—Abundant by railway banks of Parkmore line—*Stewart MS.*
 Derry—Railway between Coleraine and Portstewart, *Henry*.
 This plant seems common in Lecale and Mid-Antrim.

COMPOSITÆ.

- Eupatorium cannabinum** L. *Fl.* 74, *Sup.* 174. DO, AN, LD.
 Rather rare.
 Down—Cliffs at Bloody Bridge, *Tomlinson*. Still at Killough 1906—
B.N.F.C. 1906.
 Antrim—Great Deer Park at Glenarm 1808 (*Templeton*)—*Stewart MS.*
 Dunmurry and Whitehead—*Fl. Ulst.* Abundant on rocky shores of
 Lough Neagh, *Tomlinson*. Glendun below viaduct 1918, *Megaw*.
 Still at Red Bay 1920, *Bennett*.
 Derry—Still abundant about Magilligan 1916, *Tomlinson*.
- Solidago Virgaurea** L. Frequent. *Fl.* 75, *Sup.* 175. DO, AN, LD.
 var. **angustifolia** Koch. *Sup.* 175. DO, —, — .
 [var. *cambrica* (Huds.). Withdrawn from Flora. *Fl.* 75, *Sup.* 175].
- Bellis perennis** L. Very common. *Fl.* 75. DO, AN, LD.

- Aster Tripolium** L. Common on coast. *Fl.* 75. DO, AN, LD.
- Erigeron acris** L. One station. *Fl.* 75, *Sup.* 175. DO, —, —.
- Filago germanica** L. Not rare. *Fl.* 76, *Sup.* 175. DO, AN, LD.
Down—Lough Island Reavy (*Praeger*)—*I.T.B.*
Derry—Shore of Lough Neagh at Toome (*Corry*)—*Corry MS.* Bella-
rena (*Leebody*)—*I.T.B.*
- F. minima** Fries. Locally abundant. *Fl.* 76, *Sup.* 175. DO, AN, LD.
- Antennaria dioica** R. Brown. Frequent. *Fl.* 77, *Sup.* 175. DO, AN, LD.
- Gnaphalium uliginosum** L. Common. *Fl.* 76. DO, AN, LD.
- [*G. luteo-album* L. Escape or error. *Fl.* 295. —, AN, —.]
- G. sylvaticum** L. Frequent. *Fl.* 77, *Sup.* 175. DO, AN, LD.
- Inula Helenium* L. Established. *Fl.* 76, *Sup.* 175. DO, AN, LD.
Antrim—Ballymacush near Broughshane (*Stewart*)—*Corry MS.* Car-
ninny (*Knowles*)—*I.T.B.* Shores of Lough Beg, *Tomlinson*.
Derry—Magilligan, *Tomlinson*.
- Pulicaria dysenterica** Gærtn. Common. *Fl.* 76. DO, AN, LD.
- Bidens cernua** L. Frequent. *Fl.* 80, *Sup.* 176. DC, AN, LD.
var. **radiata** DC. *Fl.* 81, *Sup.* 176. DO, AN, —.
Down—Marsh at Lough Aghery (*Davies*)—*Stewart MS.* Drain on N.
side of canal at Kilmore 1917, *Houston*.
- B. tripartita** L. Rather rare. *Fl.* 80, *Sup.* 176. DO, AN, LD.
Down—Frequent in Ards (*Praeger*)—*I.N.* xii, 264. Lough Money near
Downpatrick 1917, *Wear*.
Antrim—Sluggan Bog 1898 (*Adams*)—*Stewart MS.*
Derry—By Bann above Portglenone 1917, *Megaw*.
- Achillea Millefolium** L. Common. *Fl.* 77. DO, AN, LD.
- A. Ptarmica** L. Common. *Fl.* 77. DO, AN, LD.
- [*A. tomentosa* L. Casual. *Fl.* 281. DO, —, —.]

- Anthemis Cotula* L. Casual. *Fl.* 281. DO, AN, — .
 The local records for *Matricaria Chamomilla* are referable to *A. Cotula*—*I.T.B.* 175.

[*A. arvensis* L. Introduced with seed. *Fl.* 281, *Sup.* 175. DO, AN, — .]

- A. nobilis** L. Very rare. *Fl.* 78. DO, AN, LD.
 Antrim—High up on Trostan on disused road (*D'Arcy*)—*I.N.* x, 192.
 Dooish Point on Lough Beg 1918, *Stelfox*.

Chrysanthemum segetum L. Common. *Fl.* 79, *Sup.* 176. DO, AN, LD.

C. Leucanthemum L. Common. *Fl.* 78. DO, AN, LD.

C. Parthenium Pers. Escape. *Fl.* 281. DO, AN, — .
 Down—In the western parts of the county (*Harris's Down* 1744)—*Stewart MS.*]

Matricaria inodora L. Common. *Fl.* 78. DO, AN, LD.

var. **salina** Bab. Frequent. *Fl.* 78, *Sup.* 175. DO, AN, LD.

Antrim—Gravelly shore at Portrush 1897—*Stewart MS.*

var. **maritima** (L). *Sup.* 176. —, AN, — .

[*M. Chamomilla* L. Error. *Fl.* 78, *Sup.* 176. DO, AN, — .

So far as is known, all the local records for this species should be transferred to *Anthemis Cotula*.]

M. discoidea DC. Spreading rapidly. DO, AN, LD.

Down—Lane to Castlereagh Hills 1913, *Wear.* Rostrevor 1916, and Bangor 1917, *Megaw.* Newtownards and Crossgar 1917, *Bennett.* Frequent in Hilltown district 1921 (*Praeger*)—*I.N.* xxx, 101.

Antrim—Roadside N.W. of Larne 1911, *Carrothers and Tomlinson.* Several farm places, &c., near Carnmoney 1916, *Wear.* Gawley's Gate, about Ballymena and up to 500ft. in lanes N. of Carnlough: appears now widespread in Antrim (*Praeger and Stelfox*)—*I.N.* xxix, 95.

Derry—Toome Bridge, 1917, *Megaw.*

First observed in Ireland near Dublin in 1894. It is rapidly spreading over the country—*Cyb.* II. and *I.T.B.*

Tanacetum vulgare L. Frequent. *Fl.* 79, *Sup.* 176. DO, AN, LD.

- Artemisia Absinthium* L. Escape. Fl. 281. DO, AN, —.
- A. vulgaris** L. Common. Fl. 79. DO, AN, LD.
- [*A. campestris* L. Casual, now gone. Fl. 281. —, AN, —.]
- A. maritima** L. One station. Fl. 295. DO, —, —.
Down—At and south of Corbet Head 1902 (*Praeger*)—*I.N.* xi, 209.
- Tussilago Farfara** L. Common. Fl. 74, *Sup.* 174. DO, AN, LD.
- Petasites fragrans* Presl. Established. Fl. 280, *Sup.* 174. DO, AN, —.
- P. officinalis** Mœnch. Common. Fl. 74, *Sup.* 174. DO, AN, LD.
- P. albus* Gaertn. Established. Fl. 280. DO, —, —.
- Doronicum Pardalianches* L. Escape. Fl. 281. DO, AN, —.
- Senecio vulgaris** L. Very common. Fl. 79. DO, AN, LD.
var. **radiatus** Koch. —, AN, —.
Antrim—Abundant at Larne Aluminium Works (*Praeger*)—*I.N.* xxi, 179.
- S. sylvaticus** L. Frequent. Fl. 79, *Sup.* 176. DO, AN, LD.
- [*S. viscosus* L. Casual, now gone. Fl. 281. —, AN, —.]
- S. Jacobæa** L. Very common. Fl. 80. DO, AN, LD.
var. **fosciculosus** (Jord.). DO, —, —.
Down—Groomsport 1886 (*Stewart*)—*G.I.T.B.* Bar Hall Bay in Ards
(*Praeger*)—*I.N.* xii, 254.
- S. aquaticus** Huds. Common. Fl. 80. DO, AN, LD.
- S. saracenicus* L. Established. Fl. 282, *Sup.* 176. DO, AN, LD.
Down—Roadside between Comber and Castle Espie 1913, *Carrothers*.
The Saintfield plant of 1st Suppl. is referred by E. S. Marshall
to the form *S. Fuchsii*—*Journ. Bot.* 1913, p. 305.
- Carlina vulgaris** L. Rare. Fl. xxxi. DO, AN, —.
Down—Rathmullan 1898 (*Praeger*)—*B.N.F.C.* iv, 433. Dundrum
1901 (*Praeger*)—*I.N.* xi, 48.

- [*Arctium majus* Bernh. ? Error. *Fl.* 81, 295. —, AN, —.]
- A. nemorosum** Lej. *Fl.* 81, *Sup.* 177. DO, AN, LD.
- A. minus** Bernh. *Fl.* 81, *Sup.* 177. DO, —, —.
Down—Marino 1885 (*Praeger*)—*I. T. B.*
var. **majuscula** Hartm. *Sup.* 177. —, AN, —
- A. intermedium** Lange. *Fl.* 81, *Sup.* 177. DO, AN, LD.
Down—Copeland Island (*Moffat*)—*I. T. B.*
Derry—Toome Bridge (*Druce*)—*I. T. B.*
- A. Newbouldii** Ar. Benn. Rare. —, AN, —.
Antrim—Gobbins 1903 (*Praeger*)—*I. N.* xii, 289 : xiii, 3, 8, 13.
- Carduus pyncephalus** Jacq. (= *C. tenuiflorus* Curt.). DO, AN, LD.
Frequent on coast. *Fl.* 82.
- [*C. nutans* L. Casual. *Fl.* 282. —, AN, LD.]
- C. crispus* L. var. *acanthoides* (L). Rare. *Fl.* 82, *Sup.* 177. DO, AN, LD.
Doubtfully native.
Down—Old church at St. John's Point 1896, and Rossglass 1902 (*Praeger*)—*B. N. F. C.* iv, 433 ; *I. N.* xi, 209.
Derry—Moneymore—*Fl. Ulst.* Still at Magilligan (Benone) 1917, *Praeger*.
- Cnicus lanceolatus** Willd. *Fl.* 82. DO, AN, LD.
Common.
- [*C. eriophorus* Roth. ? Error. *Fl.* 296.]
- C. palustris** Willd. Very common. *Fl.* 82, *Sup.* 177. DO, AN, LD.
- C. pratensis** Willd. *Fl.* 83, xxxii, *Sup.* 177. DO, AN, LD.
Rare, locally abundant.
Antrim—Lough Naroon, sparingly ; abundant at and near Craigs W. of Dunloy ; and still abundant at the Causeway headlands 1916, *Tomlinson*. Between Larne and Ballygally below escarpment, *Stelfox*. Garry bog near Ballymoney, and Lough Beg, *Megaw*. Killagan (*Praeger and Stelfox*)—*I. N.* xxix, 95.

Derry—Abundant on mountains between Dungiven and Garvagh 1809 (*Templeton*)—*Stewart MS.* Donnell Hill, very abundant, and Kilrea, *Houston*. Between Portstewart and Portrush, *Tomlinson*.

C. palustris pratensis (= *C. Forsteri* Smith). *Fl.* 83. —, —, LD.
Rare.

C. arvensis Hoffm. Common. *Fl.* 82. DO, AN, LD.
var. **mitis** Koch. —, AN, LD.

Antrim—Aghadowey (*Waddell*)—*W.B.E.C.* 1895.

Derry—Toome Bridge (*Druce*)—*G.I.T.B.*

var. **setosus** (Bess). DO, AN, LD.

Down—Lambeg 1900 (*Davies*)—*I.N.* ix, 19.

Antrim—Refuse heap at Distillery, Belfast (*Hanna*—*W.B.E.C.* 1897. Portglenone, *Megue*.

Derry—Road between Kilrea and Garvagh 1898 (*Stewart and Knowles*)—*I.N.* ix, 219. Castle Dawson 1904 (*MacMillan*)—*Stewart MS.*

[*Onopordum Acanthium* L. Casual. *Sup.* 178. —, AN, —.]

[*Silybum Marianum* Gaertn. Escape. *Fl.* 282, *Sup.* 178. DO, AN, LD.]

Saussurea alpina DC. One station. *Sup.* 177. DO, —, —.
Confined to Slieve Muck in the Mourne Mountains.

[*Centaurea Jacea* L. Casual. *Fl.* 295.

Mr. C. E. Britton reports that a specimen of Templeton's collecting labelled "Ireland" in Smith's herbarium in the Linnean Society is *C. Jacea*. This is presumably the plant referred to in Flora, as above.]

C. nigra L. Common. *Fl.* 81. DO, AN, LD.

[*C. Scabiosa* L. Weed of cultivation. *Fl.* 296. DO, —, —.
Down—Wheat field at Tyrella 1902 (*Præger*)—*I.N.* xi, 209].

C. Cyanus L. Frequent. *Fl.* 82. DO, AN, LD.

- [*Cichorium Intybus* L. Rare. *Fl.* 83, *Sup.* 178. DO, AN, LD.
 Down—Near Killough—*B.N.F.C.* 1898. Island More in Strangford L. 1921, *J. R. H. Greeves*.
 Antrim—Cullybackey (*Knowles*)—*I.T.B.* Gloonan and Drumraw near Ahoghill, *Megaw*.
 Derry—Abundant in field at Castlerock 1916, *Henry*. Abundant at Ballymaghin near Bellarena, *Lilly*.]
- Lapsana communis** L. Common. *Fl.* 83. DO, AN, LD.
- Picris echinoides* L. Very rare. *Fl.* 84. —, AN, —.
- Crepis virens** L. Common. *Fl.* 85, *Sup.* 178. DO, AN, LD.
 var. **agrestis** (W. & K.). DO, —, —.
 Down—Greyabbey in meadows (*Waddell*)—*W.B.E.C.* 1913.
- C. biennis* L. Naturalized. *Fl.* 283, *Sup.* 178. DO, AN, —.
 Down—Railway between Banbridge and Mullafarnaghan (*Davies*)—*I.N.* xii, 271.
 Antrim—Ballymena, spreading 1899 (*Knowles*)—*I.T.B.* Now very common about Carnlough (*Præger*)—*I.N.* xxx, 81.
- [*C. hieracioides* W. & K. Error. *Fl.* 296. —, AN, —.]
- C. paludosa** Moench. Frequent. *Fl.* 85, *Sup.* 179. DO, AN, LD.
- Hieracium Pilosella** L. Common. *Fl.* 85. DO, AN, LD.
- [*H. Auricula* L. —, AN, —.
 Antrim—Whitewell on spoil bank of limestone quarry 1897 (*Stewart*)—*B.E.C.* 1902 and 1910.]
- [*H. aurantiacum* L. Escape. *Fl.* 283. DO, AN, —.]
- H. anglicum** Fries. Frequent. *Fl.* 85, *Sup.* 179. DO, AN, LD.
 Down—Still at Tollymore 1911 (*Waddell*)—*B.N.F.C.* vi, 494.
 Antrim—Glendun (*Brenan*)—*I.N.* xviii, 149. Still at Cave Hill 1911 (*Waddell*)—*B.N.F.C.* vi, 494.
 Derry—Still at Benevenagh 1893 (*Shoolbred*)—*I.T.B.*

- var. **acutifolium** Backh. *Fl.* 86, *Sup.* 179. DO, AN, LD.
 Antrim—Agnew's Hill and Sallagh Braes 1893 (*Stewart*)—*B. E. C.* 1895.
 Derry—Benevenagh 1900 (*Lett and Waddell*)—*I. N.* xviii, 149.
 Umbra Glen 1900 (*Lett*)—*Stewart M.S.*
- var. **cerinthiiforme** Backh. —, AN, —.
 Antrim—Cliffs of Cave Hill (*Stewart*)—*Stewart M.S.*
- var. **longibracteatum** F. J. Hanb. *Sup.* 179. —, AN, —.
 Antrim—Sallagh Braes (*Stewart*)—*B. E. C.* 1895.
- var. **decipiens** Syme. *Fl.* 86. —, AN, —.
- H. flocculosum** Backh. Very rare. *Fl.* 87, *Sup.* 179. DO, AN, —.
 Antrim—Basaltic cliffs at Kinbane (*Praeger*)—*I. N.* xii, 311.
- H. iricum** Fr. Rare. *Fl.* 86, *Sup.* 179. —, AN, LD.
 Antrim—North face of Slemish (*Hanbury*)—*I. N.* v, 118. Ballintoy
 (*Brenan*)—*I. N.* xviii, 150. Still at Glenariffe 1893 (*Shoolbred*)
I. N. iii, 167; and Garron Tower 1900 (*Leebody*)—*I. T. B.*
 Derry—Still at Benevenagh 1900 (*Lett and Waddell*)—*B. E. C.* 1900.
- H. senescens** Backh. One station. DO, —, —.
 Down—Tollymore Park, on rocks by lower part of Shimna River
 1900 (*Waddell*)—*I. N.* x, 120.
 “An interesting discovery, being the first time that one of the
alpina group of Hawkweeds has been found in Ireland.”—*I. T. B.*
- [*H. nigrescens* Willd. Doubtful. *Fl.* 296. DO, —, —.]
- H. Leyi** F. J. Hanb. *Sup.* 179. —, —, LD.
- H. Schmidtii** Tausch. *Sup.* 179. DO, AN, —.
 Antrim—Ballintoy 1895 (*Brenan*)—*I. N.* v, 127.
- H. lasiophyllum** Koch. *Fl.* 86, *Sup.* 179. DO, AN, LD.
- H. rubicundum** F. J. Hanb. *Sup.* 179. —, AN, —.
- H. argenteum** Fr. *Sup.* 180. DO, —, —.
- H. Sommerfeltii** Lindeb. *Sup.* 180. DO, —, LD.
 Down—Hare's Gap 1889 (*Praeger*)—*I. N.* xii, 311.

- [*H. hypochaeroides* Gibs. —, —, LD.
Derry—Benevenagh, "looks very like this," 1900 (*Lett*)—*W.B.E.C.* 1900.]
- H. hibernicum** F. J. Hanb. DO, —, —
Fl. 86 (as *H. argenteum* Fr.), *Sup.* 180.
- H. pachyphyllum** Purchas. *Sup.* 180. DO, AN, LD.
Down—*Linton's British Hieracia* and *B.E.C.* 1900—*I.N.* xv, 53.
Derry—Benevenagh 1900 (*Lett and Waddell*)—*B.E.C.* 1900.
- H. stenolepis** Lindeb. *Sup.* 180. —, AN, LD.
Antrim—Carnlough Glen, sparingly—*Stewart MS.*
- H. silvaticum** Gouan. *Fl.* 87, *Sup.* 180. DO, AN, LD.
var. **cordigerum** Norrl.
Derry—Benevenagh (*Lett and Waddell*)—*I.N.* xviii, 150.
var. **microcladium** Dahlst.
Down—Tollymore Park (*Waddell*)—*B.E.C.* 1901.
Antrim—Newtown Crommelin 1895 (*Brenan*)—*I.N.* v, 27; xviii, 150.
Derry—Garvagh 1895 (*Brenan*)—*I.N.* v, 27; xviii, 150.
- H. pellucidum** Laestad. DO, —, —.
Down—Wall at Gilford demesne 1899 (*Lett*)—*W.B.E.C.* 1899. Old walls at Grey Abbey (*Waddell*)—*W.B.E.C.* 1912.
- H. serratifrons** Almq. var. **cinderella** Ley. DO, —, —.
Down—Rowallane near Saintfield (*Waddell*)—*W.B.E.C.* 1906.
This is the plant that was recorded in the 1st Suppl. under *H. sciaphilum*. After having been variously named, it was identified by the Rev. A. Ley as his var. *cinderella*. Revs. W. R. Linton and E. S. Marshall agree in the identification. For description see *I.N.* xvi, 350.
- [*H. rubiginosum* F. J. Hanb. —, AN, LD.
Antrim—Glendun 1886, and Ballintoy 1895 (*Brenan*)—*Waddell*.
Derry—Garvagh 1895 (*Brenan*)—*Waddell*.
Referred to this species with hesitation, from imperfect specimens, by Rev. E. F. Linton—*I.N.* xviii, 150.]

- H. rivale** F. J. Hanb. var. **dasythrix** Linton. DO, —, —.
Down—By Shimna River in Tollymore Park 1905 (*Waddell*)—*I.N.* xviii, 150.
- H. sagittatum** Lindeb. var. **subhirtum** F. J. Hanb. DO, —, —.
Down—Pigeon Rock Mountain and Eagle Mountain at 1400—1,500ft. 1890 (*Praeger*)—*I.N.* xii, 311.
- H. euprepes** F. J. Hanb. *Sup.* 180. DO, AN, LD.
Down—Mourne Mountains [*Stewart and Praeger* circa 1890]—*W. R. Linton's British Hieracia.* (See *I.N.* xviii, 82.)
Antrim—Whitewell Quarry spoil bank in plenty 1896, Knock Dhu and Cranfield—*Stewart MS.* Still on Cave Hill 1908 (*Waddell*)—*I.N.* xviii, 150.
- H. caesium** Fr. Rare. *Fl.* 87, *Sup.* 180. —, AN, LD.
- H. farrense** F. J. Hanb. *Sup.* 179. —, AN, —.
- H. vulgatum** Fr. *Fl.* 87, *Sup.* 180. DO, AN, LD.
Down—Wall near Waringstown (*Lett*)—*W. B. E. C.* 1901.
- H. Orarium** Lindeb. —, AN, —.
Antrim—*Linton's British Hieracia.* (See *I.N.* xv, 53.)
- [*H. sciaphilum* Uechtr. Error. *Sup.* 180. DO, —, —.]
The record under this name in the 1st Suppl. is transferred to *H. serratifrons* var. *cinderella*, q.v.]
- H. gothicum** Fr. *Fl.* 87, *Sup.* 181. —, AN, —.
- H. rigidum** Hartm. var. **Stewartii** F. J. Hanb. *Sup.* 181. DO, —, —.
A variety named after the late S. A. Stewart and described in *Journ. of Botany* 1892, p. 369.
- H. prenanthoides** Vill. Very rare. *Fl.* 88. —, —, LD.
- H. strictum** Fr. Very rare. *Fl.* 88. —, AN, LD.
- H. corymbosum** Fr. *Fl.* 88, *Sup.* 181. DO, AN, LD.
Antrim—Ballintoy (*Brenan*)—*I.N.* xviii, 150.

- H. auratum** Fr. *Sup.* 181. DO, AN, —.
Down—Weir below Banbridge 1902 (*Davies*)—*I.N.* xi, 323.
Antrim—Garron Point (*Brenan*)—*I.N.* xviii, 150.
- H. crocatum** Fr. Not rare. *Fl.* 88, *Sup.* 181. DO, AN, LD.
- H. sabaudum** L. var. *boreale* (Fr.). Rare. *Fl.* 89, *Sup.* 181. DO, AN, LD.
Antrim—Still on Cave Hill 1890 (*Praeger*)—*I.T.B.*
Derry—Near Kilrea 1912 (*Houston*)—*Carrothers*.
- H. umbellatum** L. Rare. *Fl.* 88. DO? AN, LD.
[Down—"Templeton said he found this sp. in Tollymore Park, Co. Down. White said it grew in Mourne Mts."—*Stewart MS.*].
Antrim—Abundant on Cushendall Road below Parkmore 1895—*Stewart MS.*
- var. **linariifolium** Wallr. —, AN, —.
Antrim—Glenariffe 1894 (*Brenan*)—*I.N.* xviii, 150.
- var. **filifolium** Fr. *Fl.* 88. —, AN, —.
Antrim—Harper's [Harbour] Island in Lough Neagh—*Backhouse Monograph*.
- var. **coronopifolium** Fr. —, AN, —.
Antrim—Cushendun 1895 (*Brenan*)—*I.N.* xviii, 150.
- Hypochaeris glabra** L. One station. —, —, LD.
Derry—Magilligan Flats, 1900 (*Lett and Waddell*)—*I.N.* ix, 244.
- H. radicata** L. Common. *Fl.* 83. DO, AN, LD.
- Leontodon hirtus** L. Very rare. *Fl.* 83, *Sup.* 178. DO, AN, —.
Down—Between Ardglass and Killough 1898, and Lenadarg 1903 (*Davies*)—*I.N.* vii, 245; xii, 272. Tillysburn to Kinnegar, and Strand Lough at Killough (*Praeger*)—*I.N.* xi, 201, 209.
Rostrevor House 1921 (*Praeger*)—*I.N.* xxx, 101.
- [*L. hispidum* L. Error. *Fl.* 84, *Sup.* 178. —, —, LD.]
- L. autumnale** L. Common. *Fl.* 84, *Sup.* 178. DO, AN, LD.
var. **pratensis** (Koch). DO, AN, LD.
Down—Slieve Donard—*Fl. Ulst.* Slieve Bearnagh (*Hart*)—*Cyb.* II.
Antrim—Cave Hill and Black Mountain—*Fl. Ulst.*
Derry—Benevenagh (*D. Moore*)—*Cyb.* II.

- Taraxacum officinale** Web. *Fl.* 84, *Sup.* 178. DO, AN, LD.
 Very common.
 var. **erythrospermum** (Andrz.). *Fl.* 84. —, AN, —.
 var. **palustre** (DC.) *Fl.* 84, *Sup.* 178. DO, AN, —.
- [*Lactuca virosa* L. Casual. DO, AN, —.
 Down—Waste places in Victoria Park (*Carrothers*)—*B.N.F.C.* v, 472.
 Antrim—Whitehead (*Rev. Canon W. P. Carmody*—*B.N.F.C.* vi, 575.)]
- [*L. muralis* Fresen. DO, —, —.
 Down—Near Rostrevor 1913, *Megaw*; also *Waddell*—*I.N.* xvi, 12.
 Still there 1920—*G. E. C. Maconchy*.]
- Sonchus oleraceus** L. Very common. *Fl.* 85. DO, AN, LD.
 var. **runcinatus** Cross. and Germ. —, AN, —.
 Antrim—Larne (*Druce*)—*I.N.* xxi, 235.
- S. asper** Hoffm. Common. *Fl.* 85. DO, AN, LD.
- S. arvensis** L. Common. *Fl.* 85. DO, AN, LD.
- [*Tragopogon pratensis* L. —, AN, —.
 Antrim—Railway from Balmoral to Windsor 1910, *Carrothers*. Larne Harbour, *Megaw*.]
- T. porrifolium* L. Naturalized. *Fl.* 282, *Sup.* 178. DO, AN, —.
 Down—On chalk quarry debris near Moira [county not given] 1851 (*Rev. J. A. Kerr*)—*Stewart MS.* Established on river bank N. of Warrenpoint (*Waddell*)—*I.N.* xxvi, 12.

CAMPANULACEÆ.

- Lobelia Dortmanna** L. Very rare. *Fl.* 89, *Sup.* 181. DO, AN, LD.
 Down—Castlewellan, *Templeton's MS. Journal.* Still there (at Altnadua Lake) 1919, *Bennett*.
 Antrim—Abundant in lakelet on Garron Plateau $\frac{1}{4}$ mile W. of Lough Fine (*Praeger and Stelfox*)—*I.N.* xxix, 95. Still abundant in Craighfad Lough (*Praeger*)—*I.N.* xxx, 81.
 Derry—Plentiful in Lough Fea 1910, *Thomas Greer*.
 Refound in Lough Neagh (but near Lurgan, a few miles outside our district) by *Carrothers* in 1920.

- Jasione montana** L. Common. *Fl.* 89, *Sup.* 181. DO, AN, LD.
 [*C. Trachelium* L. DO, —, —.
 Hillsborough demesne 1920, possibly naturalized, *Foster.*]
[Campanula latifolia L. Planted. *Fl.* 283. DO, —, —.]
C. rapunculoides L. Established. *Fl.* 283, *Sup.* 181. DO, —, —.
 Down—Side of field near Murlough House 1913, *M. K. Wear.*
C. rotundifolia L. Common. *Fl.* 90, *Sup.* 181. DO, AN, LD.
[C. Rapunculus L. Casual, now gone. *Fl.* 283. —, AN, —.]

VACCINIEÆ.

- Vaccinium Vitis-Idæa** L. Rare. *Fl.* 91, *Sup.* 182. DO, AN, LD.
 Antrim—Top of Slievenanee 1809 (*Templeton MS. Journal*)—*Stewart MS.* North face of Slemish (*Hart*)—*I.N.* v, 188. Sallagh Braes—*B.N.F.C.* vi, 381. “The Island” Sluggan Bog (*Adams*)—*I.N.* viii, 158. Knock Dhu and bog near Magherabeg, *Tomlinson*. Above Glarryford at, and N.W. of, Cunningham’s Dam 1916, *Wear*. Still at Agnew’s Hill 1920, *Stelfox*. Summit of Colin Top; 1 m. S.W. of Cleggan Lough: and still at Sluggan Bog 1920 (*Praeger and Stelfox*)—*I.N.* xxix, 95. Still on Slievenanee 1920, *Bennett*.
V. Myrtillus L. Common. *Fl.* 91. DO, AN, LD.
V. Oxycoccus L. Rare. *Fl.* 91, *Sup.* 182. DO, AN, LD.
 Antrim—Ballydivity Bog near Ballymoney 1870 (*H. C. Hart*)—*Stewart MS.*; still there 1916, *Henry*. Sluggan Bog (*Adams*)—*I.N.* viii, 58. Slemish (*Knowles*)—*I.T.B.* Garry Bog near Ballymoney, *Henry*. Abundant in Magherabeg and Kellswater Bogs: common in moorland and low-level bogs, *Tomlinson*. In wet bogs over whole of Garron Plateau 1920 (*Praeger and Stelfox*)—*I.N.* xxix, 95.
 Derry—Still plentiful about Kilrea 1914, *Houston*.

ERICACEÆ.

- Arctostaphylos Uva-ursi** Spreng. *Fl.* 90, *Sup.* 182. DO? AN, —.
 Very rare.
 Antrim—On western face of Skerrywherry 1908 (*Lilly*)—*I.N.* xvii, 162. Agnew’s Hill, one fine plant (*Stelfox*)—*I.N.* xxii, 19. Escarpment facing westward S.E. of Lough Naroon; abundant and fine (*Praeger and Stelfox*)—*I.N.* xxix, 95.

- Andromeda Polifolia** L. Very rare. *Fl.* 90. DO, AN, —.
 Down—Still at Cotton Moss but decreasing and certain to disappear through cutting of bog 1916, *Bennett and Stelfox*.
 Antrim—Sharvogue's Bog near Kellswater Station 1916 (*Megaw*)—*I.N.* xxv, 99. This bog has been acquired, and is being drained and cut, by a commercial company and with it the plant may disappear before long.
- Calluna vulgaris** Salisb. Common. *Fl.* 90. DO, AN, LD.
 var. **erikae** Aschers. —, AN, LD.
 Antrim—Cushendall (*Druce*)—*I.N.* xxi, 238.
 Derry—Formoyle Hill (*Druce*)—*I.N.* xxi, 238.
- Erica Tetralix** L. Common. *Fl.* 90, *Sup.* 182. DO, AN, LD.
- E. cinerea** L. Common. *Fl.* 91, *Sup.* 182. DO, AN, LD.
 [*E. stricta* Andr. Error. *Fl.* 296.]
 [*Pyrola rotundifolia* L. Error. *Fl.* 296. DO, AN, LD.]
- P. media** Sw. Rare. *Fl.* 91, *Sup.* 182. DO, AN, LD.
 Antrim—Skerry (*Knowles*)—*I.T.B.* Tait's Hill, Lower Ballygowan Hill, Skerrywherry and Carrickfergus Common, *Lilly*. Lough Rocks near Lough Naroon, *Carrothers and Tomlinson*. Ballybracken, Ballyboley (probably Templeton's Highwood station), Ballyutogue above Ligoniel and at the Broadstone west of Dunloy, *Tomlinson*. Above Glarryford at Cunningham's dam 1916, *Bennett and Stelfox*. Several places on hills about Ligoniel, *Carrothers*.
 Derry—Craighall near Garvagh 1916, *Henry*. Still at Errigal Banks 1918, *Stelfox*.
- P. minor** L. Rare. *Fl.* 92, *Sup.* 182. DO, AN, LD.
 Down—Carnagaver 1916, *Stelfox*.
 Antrim—Cave Hill and Squire's Hill; and still at Crow Glen 1917, *Carrothers*. Lough Rocks near Lough Naroon (*Carrothers and Tomlinson*)—*B.N.F.C.* vi, 60. Hannahstown, *Tomlinson*. Still at Slemish 1898 (*Knowles*)—*I.T.B.* Still above Whitewell, several fine colonies; what is probably this species is plentiful on the open moor at same elevation, where it did not flower 1913-16, *Wear*. Still at Glenariffe 1920, *Bennett*.
 Derry—Still at Errigal Banks 1918, *Stelfox*. Slopes of Carntogher 1917 (*Miss Clark*)—*Greer*.

- P. secunda** L. Very rare. *Fl.* 92, *Sup.* 182. —, AN, LD.
 Antrim—Knock Dhu (probably Dr. Moore's Sallagh Braes station) 1910 (*Stelfox*)—*I.N.* xix, 223, 227. Gorge on Cranny Burn a little above its junction with Pollan Burn (*Praeger and Stelfox*)—*I.N.* xxix, 95.
 Derry—A specimen of this plant is in the Belfast Museum labelled “Derry, Mr. Brown”; this may have been Robert Brown, who lived in Derry about 1801 or 1802—*I.N.* x, 171.

MONOTROPACEÆ.

- [*Monotropa Hypopitys* L. Error. *Fl.* 296. DO, —, —.]

PLUMBAGINACEÆ.

- [*Statice Limonium* L. Error. *Fl.* 298. DO, —, —.]
- S. rariflora** Drej. (= *S. Bahusiensis* Fr.). DO, AN, —.
 Rare. *Fl.* 118, *Sup.* 193.
 Down—Still at Dundrum 1894 (*Waddell*)—*W.B.E.C.* 1894.
- S. occidentalis** Lloyd. Very rare. *Fl.* 298. DO, —, —.
 Down—Abundant on headland N. of Legnaboe (N. of Ardglass) 1902 (*Praeger*)—*I.N.* xi, 209.
 [var. *Dodartii* (Gir.). Error. *Fl.* 298. DO, —, —.]
- Armeria maritima** Willd. Common on coast. *Fl.* 118. DO, AN, LD.
 The late Mr. Clement Reid suggested (*in litt.*) that our alpine plant may prove to be *A. arctica* or *A. sibirica*—*Stelfox*.
 var. *linearifolia* (Later). —, AN, —.
 Antrim—Common at Portrush and Whitepark Bay (*Druce*)—*I.N.* xxi, 235.

PRIMULACEÆ.

- Hottonia palustris** L. Very rare. *Fl.* 114, *Sup.* 192. DO, AN, —.
 This plant is still at Everogue's Bridge at Crossgar, 1921. The part of the Bog Meadows where it grew having been acquired by the G.N. Railway Coy. for a depot it is feared that it and others such as *Carex Pseudo-cyperus* have disappeared from this habitat.
- Primula vulgaris** Huds. *Fl.* 115, *Sup.* 192. DO, AN, LD.
 Very common.

P. officinalis Jacq. (= *P. veris* L.). Rare. *Fl.* 115, *Sup.* 192. DO, AN, LD.
Down—Well established in open fields in many places near Rostrevor
(*Præger*)—*I.N.* xxii, 120.

Derry—Dungiven and Derrynoid demesne (*Moorz*)—*Cyb.* I, and *I.T.B.*
Possibly not native in any of the above stations.

***Lysimachia vulgaris* L.** *Fl.* 115, *Sup.* 192. DO, AN, LD.
Locally abundant.

Down—Ellis's Cut 1911—*B.N.F.C.* vi, 273, 503.

Antrim—Lough Neagh at Glenavy—*B.N.F.C.* iv, 586.

Derry—Becoming common by Bann at Coleraine 1916, *Henry*.

I. Nummularia L. Local. *Fl.* 115, *Sup.* 192. DO, AN, LD.

Down—Campbell College grounds and still at Ballyvalloy 1914, *Bennett*.

Antrim—Between Magheramorne and Glynn and between Cranfield and
Rabbit Point (*Tomlinson*)—*B.N.F.C.* v, 440. Shane's Castle
1906, and Selshan 1915—*B.N.F.C.* Swamp above 1st lock on
Lagan, *G. E. C. Maconchy*.

Derry—Still by R. Bann, above and below Coleraine 1916, *Henry*.

***L. nemorum* L.** Common. *Fl.* 116. DO, AN, LD.

***Glaux maritima* L.** Common on seashore. *Fl.* 116. DO, AN, LD.

***Anagallis arvensis* L.** Common. *Fl.* 116. DO, AN, LD.

var. *cœrulea* (Schreb.). *Fl.* 116, *Sup.* 192. DO, AN, LD.

Down—Near Balleevy (*Miss E. Malone*)—*Cyb.* II.

***A. tenella* L.** Frequent. *Fl.* 116, *Sup.* 192. DO, AN, LD.

***Centunculus minimus* L.** Rare. *Fl.* 117, xxxii, *Sup.* 192. DO, AN, LD.

Down—Still near Comber 1900 (Waddell)—*I.T.B.* Kirkcubbin 1918,
Bennett.

Derry—Still at Magilligan (ventral portion) 1917, *Præger*.

***Samolus Valerandi* L.** Frequent. *Fl.* 117, *Sup.* 193. DO, AN, LD.

OIEACEÆ.

***Fraxinus excelsior* L.** Frequent. *Fl.* 93, *Sup.* 183. DO, AN, LD.

Ligustrum vulgare L. Common. *Fl.* 93. DO, AN, LD.

APOCYNACEÆ.

[*Vinca major* L. Escape. *Fl.* 283. DO, AN, —.]

[*V. minor* L. Escape. *Fl.* 283. DO, AN, —.]

GENTIANACEÆ.

- [*Chlora perfoliata* L. Casual, now gone. *Fl.* 284. DO, —, —.]
- Erythræa Centaurium** Pers. Common. *Fl.* 94. DO, AN, LD.
 var. **capitata** (Koch). *Sup.* 183. —, AN, LD.
 Derry—Portstewart, evidently this (*Waddell*)—*I.N.* xxiii, 21.
- [*E. latifolia* Smith. Error. *Fl.* 297. DO, —, LD.]
- E. littoralis** Fries. Rare. *Fl.* 297. DO? —, LD.
 Derry—Portstewart 1913 (*Waddell*)—*I.N.* xxiii, 21.
- E. pulchella** Fries. Very rare. *Fl.* 93. DO, —, —.
- [*Gentiana Amarella* L. Doubtful. *Fl.* 94, *Sup.* 183. —, AN, LD.]
- G. campestris** L. Frequent. *Fl.* 94, *Sup.* 183. DO, AN, LD.
 var. **baltica** (Murb.). DO, —, —.
 Down—Newcastle sandhills 1898 (*Druce*)—*I.N.* viii, 199. Ballykinler
 1900 (*Waddell*)—*W.B.E.C.* 1902.
- Menyanthes trifoliata** L. *Fl.* 95, *Sup.* 183. DO, AN, LD.
 Locally common.
- Limnanthemum nymphaoides* L. Naturalized. *Fl.* 284. —, AN, LD.

POLEMONIACEÆ.

- [*Polemonium coruleum* L. Escape. *Fl.* 284. —, —, LD.]

BORAGINACEÆ.

- Cynoglossum officinale** L. Rare. *Fl.* 96, *Sup.* 183. DO, —, —.
- Symphytum officinale* L. Escape. *Fl.* 96, *Sup.* 184. DO, AN, LD.
- S. tuberosum* L. Planted. *Fl.* 284, *Sup.* 184. DO, AN, —.
- [*Borago officinalis* L. Escape. *Fl.* 284, *Sup.* 184. DO, AN, LD.
 Down - St. John's Point—*B.N.F.C.* v, 487.]
- Anchusa sempervirens* L. Rare. *Fl.* 96, *Sup.* 184. DO, AN, LD.
 Down - Woods near Bangor (*S. A. Moore*)—*B.N.F.C.* vi, 205. Cul-
 cave near Hillsborough—*Foster*.
 Antrim - Clinty (*Knowles*)—*I.T.B.* Roadside at Craigs west of Dun-
 loy, *Tomlinson*.
 Derry—Still abundant at Roe Park 1916, *Henry*.

- Lycopsis arvensis* L. Common by coast. *Fl.* 96. DO, AN, LD.
- Mertensia maritima** Gray. Very rare. *Fl.* 97, *Sup.* 184. DO, AN, LD.
Down—From Rossglass Point to Rathmullan Point (*Praeger*)—*I.N.* xi, 209. East end of Knockinelder Bay (*S. A. Moore*)—*I.N.* xii, 263. North of Newcastle—*B.N.F.C.* vi, 151.
Derry—Near Castlerock 1919 (*Mss. Spence*)—*Green*.
- Myosotis caespitosa** Schultz. Common. *Fl.* 99. DO, AN, LD.
- M. palustris** With. Frequent. *Fl.* 98, *Sup.* 184. DO, AN, LD.
var. **strigulosa** (Reichb.). *Sup.* 185. —, AN, —.
- M. repens** Don. Frequent. *Fl.* 98, *Sup.* 185. DO, AN, LD.
Down—Newtownards 1864—*Darragh MS.* Serabo, 1920, *Bennett*.
Antrim—Glenariffe—*Corry MS.* Murlough and Fairhead (*Praeger*)—*I.N.* vi, 301; and *I.T.B.* Agnew's Hill, Carnlough, Cushendall and Parkmore 1920, *Praeger and Stelfox*.
- [*M. sylvatica* Hoffm. ? Error. *Fl.* 297. —, AN, —.
- M. arvensis** Lamk. Common. *Fl.* 99. DO, AN, LD.
var. **umbrosa** Bab. —, AN, —.
Antrim—Base of hills between Cavehill and Carrickfergus, Sallagh Braes and Glenarm (*Moore*)—*Cyb.* I. and II.
- M. collina** Hoffm. Rare. *Fl.* 99, *Sup.* 185. DO, AN, LD.
Antrim—Still at Portrush 1920, *Wear*.
Derry—Downhill—*B.N.F.C.* vi, 361.
- M. versicolor** Reich. Common. *Fl.* 99. DO, AN, LD.
- Lithospermum officinale** L. Rare. *Fl.* 98. —, AN, LD.
Antrim—Hilltown [? Milltown] Derriaghy—*Fl. Belf.* Still at Whitehead on chalk 1905, *Tomlinson*; S. of Whiterock 1918, *Robt. Bell*.
- [*L. arvense* L. Very rare. *Fl.* 98, *Sup.* 184. DO, AN, —.]
- Echium vulgare** L. Rare. *Fl.* 97, *Sup.* 184. DO, AN, LD.
Down—Fields between Newcastle and Tollymore Park (*Herb. Nat. Hist. Soc.*)—*Fl. Ulst.* Fields between Maghera and Monycarra Bridge, and by Shimna below Tollymore Park (*Dickson*)—*Corry MS.* Tyrella (*Praeger*)—*I.T.B.*
Antrim—Shore near Kilroot station—*Stewart MS.*; near Carrickfergus station—*B.N.F.C.* iv, 576.

CONVOLVULACEÆ.

- Calystegia sepium** Br. (= *Convolvulus sepium* L.) DO, AN, LD.
Common. *Fl.* 95.
- C. Soldanella** Br. (= *Convolvulus Soldanella* L.) DO, AN, — .
Rare. *Fl.* 95.
Down—Greencastle 1906, *S. A. Moore*. Portavogie Harbour: and still at Newcastle sparingly 1920, *Tomlinson*.
Antrim—Still at Cushendun, sparingly 1915, *Lilly*; and Bushfoot, plentiful 1916, *Henry*.
- Convolvulus arvensis** L. *Fl.* 95, xxxii. *Sup.* 183. DO, AN, LD.
Frequent.
- Cuscuta Epithymum* Murr. DO, — , — .
Down—Killard Point, on Thyme and Lady's Bedstraw, not near cultivation 1911, and Kirkiston sandhills 1914 (*Waddell*)—*B.N.F.C.* vi, 485; vii, 145.
In July 1918, Mr. Praeger found plants of *Cuscuta*, "too immature to name," at Ballyedock Lodge (opposite Kilclief)—probably this species—*I.N.* xxvii, 118.
[var. *Trifolii* (Bab.).
Down—Gransha near Moneyreagh (*Herb. Hyndman*)—*Stewart MS.*]
- [*C. Epilinum* Weihe. Relic of cultivation. *Fl.* 284. DO, AN, LD.]

SOLANACEÆ.

- Solanum Dulcamara** L. Frequent. *Fl.* 100, *Sup.* 185. DO, AN, LD.
- [*S. nigrum* L. Casual. *Fl.* 99. DO, AN, — .
Down—Grounds of Lismachan House, Belmont, *J. R. H. Greeves*, 1917.
Antrim—Field near Glenmore 1896 (*Davies*, *Stewart MS.* Green-island and Glenarm, casual—*I.T.B.*]
- [*Atropa Belladonna* L. Casual. *Fl.* 284. — , AN, — .]
- Hyoscyamus niger** L. Rare. *Fl.* 100, *Sup.* 185. DO, AN, LD.
Down—Still on N. shore of Killard Point 1918 (*Praeger*)—*I.N.* xxvii, 118.
Derry—Still at Magilligan in two places, viz., central portion 1917, *Lilly*, and Benone 1917, *Tomlinson*.

SCROPHULARIACEÆ.

- Verbascum Thapsus* L. Rare. *Fl.* 101, *Sup.* 186. DO, AN, LD.
Antrim—Magheramorne 1905, *Lilly*.
- Erinus alpinus* L. Established. *Sup.* 186. DO, —, —.
- Linaria Cymbalaria* Mill. Common. *Fl.* 102. DO, AN, LD.
- L. repens** Mill. *Fl.* 102 (*sub L. minor*), xxxii, xxxiv, *Sup.* 186. DO, AN, —.
Very rare.
Down—Still at Killowen in abundance 1920, *G. E. C. Maconchy*.
Antrim—Curran of Larne among stones of ditch 1810 (*Templeton's MS. Journal*)—*Waddell*.
- L. repens** × **vulgaris** (= *L. sepium* Allman). Rare. DO, —, —.
Down—Killowen Point 1907 (*Carrothers*)—*B.N.F.C.* vi, 11.
- L. vulgaris** Mill. Rare. *Fl.* 102, *Sup.* 186. DO, AN, LD.
Down—Frequent in Lecale (*Praeger*)—*I.N.* xi, 210. Maze 1914, *Foster*.
Antrim—Galgorm (*Knowles*)—*I.T.B.*
Derry—Kilrea, *Houston*. Road from Coleraine to Garvagh at two places, *Henry*. Still at Magilligan 1917 (*Praeger*)—*I.T.B.* Near Cookstown 1920, *Greer*.
- [*Antirrhinum majus* L. Escape. *Fl.* 285. DO, AN, —.]
- [*A. Orontium* L. Casual. *Fl.* 285. DO, —, —.]
- Scrophularia aquatica** L. Very rare. *Fl.* 103, *Sup.* 186. DO, AN, LD.
Down—Narrow-water between ferry and Milltown; and still at Warrenpoint 1916, *Waddell*.
Antrim—Shane's Castle park (*Rev. M. H. Collis*)—*Stewart MS.*
Derry—Still at Coleraine 1916, *Henry*.
- [*S. umbrosa* Duni. Error. *Fl.* 297. —, AN, —.]
- S. nodosa** L. Common. *Fl.* 103. DO, AN, LD.
- [*S. Scorodonia* L. Error. *Fl.* 297. DO, AN, —.]

- Mimulus guttatus* DC. (as *M. luteus* L. in *Flora*). DO, AN, LD.
Fl. 285, *Sup.* 187.
 Down Hillsborough park 1893 (*W. H. Patterson*)—*Stewart MS*; still there 1920, *Foster*. Mouth of Moygannon river 1916, *Waddell*.
 Derry—Roepark by river 1916, *Hzar*. Near Bellarena; still at Coleraine and spreading 1916, *Henry*. Abundant on sides of streams in S.W. Derry, *Greer*.
- [*M. moschatus* Douglas. DO, —, —.
 Down—In small stream in Tollymore park 1898 (*Druce*)—*I.N.* viii, 199.]
- Digitalis purpurea*** L. Frequent. *Fl.* 102, *Sup.* 186. DO, AN, LD.
- Veronica hederifolia* L. Frequent. *Fl.* 106, *Sup.* 188. DO, AN, LD.
- V. agrestis* L. Common. *Fl.* 106. DO, AN, LD.
- V. polita* Fries. Frequent. *Fl.* 106, *Sup.* 188. DO, AN, LD.
 Down—Killyleagh 1920, *C. D. Chase*.
 Antrim—Ballymena (*Knowles*)—*I.T.B.*
 Derry—Magilligan (Benone) 1917, *Praeger*.
- V. Tournefortii* C. Gmel. (= *V. Buxbaumii* Ten.). DO, AN, LD.
 Frequent. *Fl.* 106, *Sup.* 188.
- V. peregrina* L. Rare. *Fl.* 285. —, AN, LD.
 Derry—Fields at Magilligan 1897 (*Leebody*)—*I.N.* v, 247; still there (Benone) 1917, *Praeger*.
- V. arvensis*** L. Common. *Fl.* 106. DO, AN, LD.
- V. serpyllifolia*** L. Common. *Fl.* 106, *Sup.* 188. DO, AN, LD.
- V. officinalis*** L. Common. *Fl.* 106. DO, AN, LD.
 var. ***glabra*** Bab. DO, AN, —.
 Antrim—Agnew's Hill [as var. *rigida*] (*Templeton's M.S. Journal*)—*Waddell*; still there, and also a small pink-flowered form 1920 (*Praeger and Stelfox*)—*I.N.* xxix, 95.
 var. ***hirsuta*** (Hopkirk).
 Very rare in the north (*Dr. Moore*)—*Fl. Ulst.*
- V. Chamædrys*** L. Very common. *Fl.* 105. DO, AN, LD.
- V. montana*** L. Frequent. *Fl.* 105, *Sup.* 188. DO, AN, LD.

- V. scutellata** L. Frequent. *Fl.* 104, *Sup.* 187. DO, AN, LD.
- V. Anagallis** L. Not rare. *Fl.* 105, *Sup.* 187. DO, AN, LD.
- V. Beccabunga** L. Common. *Fl.* 105. DO, AN, LD.
- Euphrasia officinalis** L. Common. *Fl.* 104, *Sup.* 187. DO, AN, LD.
- E. brevipila** Burn. & Grem. DO, AN, LD.
 Down—Greypoint 1885 (*Praeger*)—*G.I.T.B.* Saintfield and Aughnadarragh (*Waddell*)—*H.B.E.C.* 1898. Campbell College 1919 (*vide* G. C. Druce), *Bennett*.
 Antrim—Glenarm and Cave Hill 1898 (*Druce*)—*G.I.T.B.*
 Derry—Toomebridge 1898 (*Druce*)—*G.I.T.B.*
- E. stricta** Host. —, AN, LD.
 Antrim—Bushmills 1912 (*Druce*)—*I.N.* xxi, 238.
 Derry—Formoyle 1912 (*Druce*)—*I.N.* xxi, 238.
- E. gracilis** Fr. *Sup.* 187. DO, AN, LD.
 Down—Butterlump rock near Ballyhalbert 1903 (*Praeger*)—*I.N.* xii, 263.
 Antrim—Hills above Carnlough—*Stewart MS.*
 Derry—Formoyle 1912 (*Druce*)—*I.N.* xxi, 238.
- E. occidentalis** Wettst. DO, —, —.
 Down—Tollymore park 1898 (*Druce*)—*G.I.T.B.*
- E. curta** Wettst. DO, AN, LD.
 Down—Newcastle 1912 (*Druce*)—*I.N.* xxi, 238.
 Antrim—Bushmills and Whitepark Bay 1912 (*Druce*)—*I.N.* xxi, 238.
 Derry—Formoyle 1912 (*Druce*)—*I.N.* xxi, 238.
- var. **glabrescens** Wettst. DO, AN, —.
 Down—Newcastle 1898 (*Druce*)—*G.I.T.B.*
 Antrim—Lough Neagh 1898; and Portrush 1912 (*Druce*)—*G.I.T.B.* and *I.N.* xxi, 238.
- Bartsia Odontites** Huds. Common. *Fl.* 104. DO, AN, LD.
- var. **serotina** (Reichb.). *Sup.* 187. —, AN, —.
- var. **verna** (Reichb.). —, AN, —.
 Antrim—Glenarm 1912 (*Druce*)—*I.N.* xxi, 238.
- Pedicularis palustris** L. Common. *Fl.* 104. DO, AN, LD.
- P. sylvatica** L. Very common. *Fl.* 104. DO, AN, LD.

- Rhinanthus Crista-galli** L. *Fl.* 104, *Sup.* 187. DO, AN, LD.
Very common.
- var. **fallax** W. & G. —, AN, —.
Antrim—Near Toomebridge 1898 (*Druce*)—*I.N.* viii, 129; x, 121.
- R. monticola** Druce. Very rare. —, —, LD.
Derry—Formoyle Hill 1912 (*Druce*)—*I.N.* xxi, 238.
- Melampyrum pratense** L. Frequent. *Fl.* 103, *Sup.* 186. DO, AN, LD.
var. **latifolium** Bab. *Sup.* 187. —, AN, —.
var. **montanum** Johnst. *Sup.* 187. DO, AN, LD.
Derry—Errigal Glen 1901 (*Stewart*) *Stewart MS.*
- var. **hians** Druce. DO, AN, —.
Down—Tollymore park, abundant by river, 1898 (*Druce*)—*I.N.* viii, 199.
Antrim—Glenariffe abundant 1898 (*Druce*)—*I.N.* viii, 199.
- M. sylvaticum** L. Rare. *Fl.* 104, xxxii, *Sup.* 187. DO? AN, LD.
Antrim—Still at Glenariffe 1920, *Bennett*. Carnlough Glen below water-fall (*Praeger and Stelfox*)—*I.N.* xxix, 95.
Derry—Kilcotton 1809 (*Templeton*)—*Stewart MS.* Lane on north side of Errigal banks, *Tomlinson*; and still in the glen 1913, *Houston*.

OROBANCHACEÆ.

- [*Orobanche major* L. Error. *Fl.* 297. —, AN, —.]
- O. rubra** Sm. Locally frequent. *Fl.* 100, *Sup.* 185. DO, AN, LD.
Down—Killard Point 1911 (*Waddell*)—*I.N.* xxi, 134, and *B.N.F.C.* vi, 485.
Antrim—Whitepark Bay 1897 (*Praeger*)—*I.T.B.* N. side of Glenariffe (*D'Arcy*)—*I.N.* x, 192. Murlough Bay; cliffs near Whitewell, *Wear*. Ballycastle, *Miss Gibson*. Still at Cave Hill, two places, 1916, *Tomlinson*.
Derry—Common on basaltic debris between Downhill and Magilligan. *Tomlinson*. On sands about Downhill 1917, *Praeger*.
- [*O. minor* Sm. Introduced. *Fl.* 285, *Sup.* 185. DO, —, LD.
Down—New Cemetery at Dundonald 1906 (*Robinson*)—*B.N.F.C.* v, 473. Portnacoo N. of Ardglass, a large colony on *Trifolium hybridum* 1922, *Chase and Bennett*.
Derry—Coleraine, one plant in waste corner 1916, and in field at Benone (Magilligan) in 1913, not seen in 1916, *Henry*.]

- Lathræa Squamaria** L. Frequent. *Fl.* 100, *Sup.* 186. DO, AN, LD.
Down—Stormount Castle 1921, *Bennett and Chase*.
Antrim—Glenalina, Carr's Glen, Graymount and Alexandra Park (all near Belfast); and Crebilly demesne, *Tomlinson*. Hills near Crow Glen, *Carrothers*. Cullybackey, *Megaw*.
Derry—Magilligan, and still at Garvagh, 1916, *Henry*.

LENTIBULARIACEÆ.

- Utricularia vulgaris** L. Not rare. *Fl.* 113, *Sup.* 191. DO, AN, LD.
Down—Frequent in Lecale and Ards (*Praeger*)—*I.N.* xi, 210; xii, 264.
Antrim—Process (*Knowles*)—*I.T.B.*
- U. minor** L. Not rare. *Fl.* 114, *Sup.* 191. DO, AN, LD.
Down—Frequent in Lecale and Ards (*Praeger*)—*I.N.* xi, 210; xii, 264.
Antrim—Ballyscullion Bog near Lough Beg, *Megaw*. Still near Lough Naroon 1920, *Praeger and Stelfox*.
Derry—Frequent in bogs about Kilrea, *Houston*.
- U. intermedia** Hayne. Very rare. *Fl.* 114, *Sup.* 191. DO? AN, LD.
Antrim—Still in various places west of Lough Naroon 1920 (*Praeger and Stelfox*)—*I.N.* xxix, 95.
- Pinguicula vulgaris** L. Locally common. *Fl.* 113, *Sup.* 191. DO, AN, LD.
- P. lusitanica** L. Not rare. *Fl.* 113, *Sup.* 191. DO, AN, LD.
Down—W. side of river running from Devil's Brewing Pan near Tollymore Park wall (*Templeton*)—*Corry MS.* Ballynahinch Water (*Templeton*)—*Fl. Ulst.* Cotton Moss 1864—*Darragh MS.*
Antrim—Frequent.
Derry—Gore's Glen near Eglinton (*Leebody*)—*Stewart MS.* Craighall Rocks near Kilrea, *Houston*. Bog near Drumsurn, *Lilly*. Summit of Magilligan Mountain 1920—*Tomlinson*.

VERBENACEÆ.

- [*Verbena officinalis* L. Casual. *Fl.* 285, *Sup.* 191. DO, —, —.
Down—Newtownards 1864—*Darragh MS.*]

LABIATÆ.

- [*Mentha rotundifolia* Huds. Escape. *Fl.* 285, *Sup.* 188. DO, AN, LD.]
[*M. alopecuroides* Hull. *Sup.* 188. DO, —, —.
Down—Dunny Water Bridge 1885 (*Hart*; also *Praeger*)—*G.I.T.B.*]

- [*M. sylvestris* L. Error. *Fl.* 297. DO, —, —.]
- [*M. viridis* L. Escape. *Fl.* 285, *Sup.* 188. DO, AN, —.]
- M. piperita* L. aggr. Rare. *Fl.* 107, *Sup.* 188. DO, AN, LD.
Down—Saul dam 1897 (*Stewart*)—*Stewart M.S.*
Antrim—Still at Massereene Park 1900 (*Praeger*)—*I.T.B.*
- [*M. officinalis* Hull. —, AN, —.
Antrim—Carnmoney 1897 (*Waddell*)—*W.B.E.C.* 1897.]
- M. hirsuta** Huds. (as *M. aquatica* L. in *Flora*). *Fl.* 107. DO, AN, LD.
Common.
- M. sativa** L. Common. *Fl.* 107. DO, AN, LD.
var. **paludosa** (Sole). *Sup.* 189. —, —, LD.
var. **subglabra** Baker. DO, —, —.
Down—Knock Iveagh 1894 (*Lett*)—*W.B.E.C.* 1894.
var. **rubra** (Smith). *Sup.* 188. DO, —, —,
- M. arvensis** L. Frequent. *Fl.* 107. DO, AN, LD.
- M. Pulegium** L. Very rare. *Fl.* 107, *Sup.* 189. DO, AN, LD.
- Lycopus europæus** L. Frequent. *Fl.* 108, *Sup.* 189. DO, AN, LD.
- Origanum vulgare* L. Rare. *Fl.* 108, *Sup.* 189. DO, AN, LD.
Down—Near Rostrevor 1907 (*Currothers*)—*B.N.F.C.* vi, 11.
Antrim—Antrim 1886 (*Redmond*)—*I.T.B.* Walls of Templepatrick
graveyard 1904—*B.N.F.C.* v, 288. As the plant is not found at
Templepatrick, Co. Down, it is evident that this is Mr. Hanna's
station (see 1st Suppl.)—*Tomlinson*.
- Thymus Serpyllum** L. Very common. *Fl.* 108, *Sup.* 189. DO, AN, LD.
var. **Linnæanus** Gren. & Godr. —, AN, —
Antrim—Cave Hill 1898 (*Druce*)—*I.N.* viii, 200.
var. **præcox** (Opiz). —, AN, —.
Antrim—Cave Hill 1898 (*Druce*)—*I.N.* xviii, 284.
- T. Chamædrys** Fries. DO, —, LD.
Down—Killough 1902 (*Praeger*)—*I.N.* xxii, 110.
Derry—Downhill to Magilligan 1917, *Praeger*.

[*Calamintha Acinos* Clairv. Error. *Fl.* 297. —, —, —.]

[*C. Clinopodium* Benth. Casual. DO, —, —.
Down—Near St. John's Point 1917, *Bennett*.]

[*C. officinalis* Moench. Very rare. *Fl.* 108. —, AN, —.
Never refound.]

Nepeta Cataria L. Rare. *Fl.* 109, *Sup.* 189. DO, AN, LD.
Derry—Near Downhill station *Fl. Ulst.* Still at Benone (Magilligan)
1916, *Tomlinson*.
The Cloughey Bay record in 1st Suppl. belongs to *Ballota nigra*—*Waddell*.

N. Glechoma Benth. Common. *Fl.* 109. DO, AN, LD.

Scutellaria galericulata L. Rare. *Fl.* 108, *Sup.* 189. DO, AN, LD.
Down—Copeland Island 1895 (*Davies*)—*Stewart MS.* Above Hilltown
(*Waddell*)—*I.T.B.* North of Kearney and at Lough Cowey in
Ards (*Praeger*)—*I.N.* xii, 263.
Antrim—Near Cullybackey, *Megaw*. Gawley's Gate, *Houston*. Mouth
of Sixmilewater, *Wear*.

Prunella vulgaris L. Very common. *Fl.* 109. DO, AN, LD.

Stachys Betonica Benth. Very rare. *Fl.* 111, *Sup.* 190. —, AN, LD.
Antrim—Near an old fort in Shane's Castle woods by Lough Neagh
(*Corry*)—*Corry MS.* Whitewell near Broughshane 1896 (*Brenan*)
—*B.N.F.C.* iv, 433.

S. palustris L. Common. *Fl.* 111. DO, AN, LD.

S. palustris × **sylvatica** (= *S. ambigua* Sm.). *Sup.* 190. DO, AN, LD.
Antrim—1 mile N. of Carnlough (*Praeger and Stelfox*)—*I.N.* xxix, 95
Derry—Ballyronan—*Fl. Ulst.*

S. sylvatica L. Common. *Fl.* 111. DO, AN, LD.

S. arvensis L. Rare. *Fl.* 112, *Sup.* 190. DO, AN, LD.
Down—Ballyculter dam near Strangford 1897 (*Hanna*)—*Stewart MS.*
Frequent in Lecale and Ards (*Praeger*)—*I.N.* xi, 210; xii, 264.
Fields about Bangor 1918, *Stelfox*.
Antrim—Near Cookstown Junction 1901 *Stewart MS.* Kilcurry near
Aghoghill 1918, *Megaw*.
Derry—Still at Kilrea 1894 (*Praeger*)—*I.T.B.*

- [*Galeopsis Ladanum* L. ? Error. *Fl.* 298. —, AN, —.]
- [*G. dubia* Leers (= *G. ochroleuca* Lamk.). Casual. *Fl.* 298. —, —, LD.
Derry—Shore of Lough Neagh west of Toome, one plant, 1918, *Stelfox*.]
- G. versicolor* Curt. Rare. *Fl.* 111, *Sup.* 190. DO, AN, LD.
Antrim—Abundant in fields at Creagh Bog, Toome, 1918, *Stelfox*. Garry Bog near Ballymoney, *Megaw and Bennett*.
Derry—Near Toome plentiful 1898 (*Druce*)—*I.N.* viii, 199. Still above Dungiven (at Banagher) 1916, *Lilly*.
- G. Tetrahit* L. Common. *Fl.* 111. DO, AN, LD.
var. *bifida* (Boenn.). —, AN, LD.
Antrim—Toome 1898 (*Druce*—*I.N.* viii, 199.
Derry—Toome 1898 (*Druce*)—*I.N.* viii, 199.
var. *nigricans* Breb. —, AN, LD.
Antrim—Lough Beg 1898 (*Druce*)—*I.N.* viii, 199.
Derry—In potato field by Lough Neagh 1898 (*Druce*)—*I.N.* viii, 199.
- [*Leonurus Cardiaea* L. —, AN, —.
Antrim—Cranfield Point 1897—*B.N.F.C.* iv, 433].
- Lamium amplexicaule* L. Frequent. *Fl.* 109, *Sup.* 189. DO, AN, LD.
Down—Roddens (*Herb. Belfast Nat. Hist. Soc.*)—*Fl. Ulst.* Frequent in Lecale (*Praeger*)—*I.N.* xi, 210.
Antrim—New Forge *Dr. Holden*—*Corry MS.* Crebilly (*Knowles*)—*I.T.B.* Near Ahoghill, *Megaw*.
Derry—Benone (Magilligan), *Tomlinson*.
- L. intermedium* Fries. Frequent. *Fl.* 110, *Sup.* 189. DO, AN, LD.
- L. hybridum* Vill. Rare. *Fl.* 110, *Sup.* 190. DO, AN, LD.
Down—Ballykinler, Rossglass and Killough (*Praeger*)—*I.N.* xi, 209. Dundonald 1920, *C. D. Chase*.
Antrim—Rathlin Island (*Gage*)—*Fl. Ulst.* Cullybackey (*Knowles*)—*I.T.B.*
- L. purpureum** L. Common. *Fl.* 110. DO, AN, LD.
- L. album* L. Frequent. *Fl.* 110, *Sup.* 190. DO, AN, LD.
- [*L. Galeobdolon* Crantz. Error. *Fl.* 297. DO, —, —.]

Ballota nigra L. (as *B. alba* L. in *Flora*). *Fl.* 112, *Sup.* 190. DO, AN, LD.
Rare.

Down—Between Ballynahinch and Seaforde (*Templeton*)—*Fl. Ulst.*
Coney Island near Killough 1898 (*Davies*)—*I.T.B.* Cloughiey
Bay, abundant, *Bennett and Waddell*. Ballyholme 1916, *Stelfox*.

Antrim—Hedge sides on Island Magee (*Tate*)—*Fl. Belf.* Curran of
Larne 1898 (*Adams*)—*Stewart M.S.* Randalstown (*Knowles*)—*I.T.B.*

[*Tencrium Scordium* L. Error. *Fl.* 298. DO, —, —.]

T. Scorodonta L. Common. *Fl.* 112, *Sup.* 191. DO, AN, LD.

Ajuga reptans L. Common. *Fl.* 113. DO, AN, LD.

PLANTAGINACEÆ.

Plantago major L. Common. *Fl.* 119. DO, AN, LD.
var. **intermedia** (Gilib.). *Sup.* 193. —, AN, —.

[*P. media* L. Introduced. *Fl.* 298. DO, AN, LD.

Down—Lenaderg 1903 (*Davies*)—*I.N.* xii, 272. Belvoir Park, well
established 1908 (*Miss Florence Wilson*)—*I.N.* xvii, 205.

Antrim—Curran of Larne 1889 (*Praeger*)—*B.N.F.C.* v, 312. Lambeg
1895 (*Davies*)—*Stewart M.S.* Lawn at Lisburn (*Davies*)—*I.N.*
iv, 433. Ballymena (*Knowles*)—*I.T.B.* Stranmillis (*Carothers*)—*B.N.F.C.* vi, 204.

Derry—Bellarena 1897 (*Leebody*)—*B.N.F.C.* iv, 433.]

P. lanceolata L. Very common. *Fl.* 118, *Sup.* 193. DO, AN, LD.

P. maritima L. Common. *Fl.* 118. DO, AN, LD.

Antrim—Inland N. of Glarryford station (*Praeger and Stelfox*)—*I.N.*
xxix, 95.

P. Coronopus L. Common. *Fl.* 118. DO, AN, LD.

var. **sabrina** Cardew and Baker.

Antrim—Giant's Causeway; identical with or approaching this variety
(*Druce*)—*I.N.* xxi, 238.

Littorella lacustris L. Common. *Fl.* 119, *Sup.* 193. DO, AN, LD.

ILLECEBRACEÆ.

- Scleranthus annuus** L. Frequent. *Fl.* 26, *Sup.* 154. DO, AN, LD.
 Down—Kinnegar, and frequent in Lecale (*Praeger*)—*I.N.* xi, 210.
 Drumawhey near Bangor, *Megaw*.
 Antrim—Bushfoot (*Swan*)—*I.T.B.*
 Derry—Lough Enagh (*Leebody*)—*I.T.B.* Sandy fields by Bann opposite
 Toome 1918, *Stelfox*.

CHENOPODIACEÆ.

- [*Chenopodium polyspermum* L. Casual. *Fl.* 298. —, AN, —.
 Antrim—Near Ardmore Point on Lough Neagh 1906 (*Adams*)—*I.N.*
 xviii, 120].
- [*C. Vulvaria* L. Casual. *Fl.* 286. —, AN, —.]
- C. album* L. Common. *Fl.* 119. DO, AN, LD.
- [*C. ficifolium* Sm. Casual. *Fl.* 299. —, AN, —.
 Antrim—Lisburn 1900 (*Davies*)—*I.N.* x, 22.]
- [*C. murale* L. Casual. *Fl.* 299. —, AN, —.
 Antrim—Ballyruder near hen-run 1897 (*Praeger*)—*B.N.F.C.* iv, 433.]
- [*C. hybridum* L. Error. *Fl.* 299. —, AN, —.]
- [*C. urbicum* L. Error. *Fl.* 299. —, AN, —.]
- C. rubrum** L. Rare. *Fl.* 120. DO, AN, —.
 Down—S. of Woburn House and for a mile along shore at Ballyferris
 Point; and still near Ballywalter 1903 (*Praeger*)—*I.N.* xii, 263.
 Near Dundrum bridge 1920, *C. D. Chase*.
- C. Bonus-Henricus* L. Rather rare. *Fl.* 120, xxxii, *Sup.* 193. DO, AN, LD.
- Beta maritima** L. Local. *Fl.* 120, xxxiii, *Sup.* 193. DO, AN, LD.
 Down—Portaferry abundant, and frequent in Lecale (*Praeger*)—*I.N.*
 vi, 280; xi, 210; xii, 263. Mouth of Shimna river at Newcastle
 (*Davies*)—*I.N.* xii, 272. Still at Benderg (1901), and Greencastle
 (1906)—*B.N.F.C.*
 Antrim—Fairhead (*Swan*)—*I.T.B.*
 Derry—Shore east of Portstewart, very sparingly, *Tomlinson*.
- Atriplex littoralis** L. Local. *Fl.* 121. DO, AN, —.
 [var. *marina* (L.). Doubtful. *Fl.* 299. DO? —, —.]

- A. patula* L. **aggr.** DO, AN, LD.
Down—Killough 1897 (*Waddell*)—*W.B.E.C.* 1897.
- A. erecta* Huds. *Fl.* 121, *Sup.* 193. DO, AN, LD.
Down—Millisle and Mealough, on cultivated and waste land—*Stewart MS.*
- A. angustifolia* Sm. Common. *Fl.* 121. DO, AN, LD.
- A. hastata* L. Common. *Fl.* 121. DO, AN, LD.
- A. deltoidea* Bab. Frequent. *Fl.* 121. DO, AN, LD.
var. **salina** Bab. *Fl.* 121, *Sup.* 194. DO, AN, LD.
- A. Babingtonii* Woods. Frequent. *Fl.* 121. DO, AN, LD.
Down—Killough and Groomsport (*Waddell*)—*W.B.E.C.* 1897.
Antrim—Antrim coast 1912 (*Druce*)—*I.N.* xii, 238.
- A. farinosa* Dum. Locally abundant. *Fl.* 121, *Sup.* 194. DO, AN, LD.
Down—Benderg, frequent from Minervastown to Dundrum, abundant from Millisle to Cloughey, and at Killelief (*Fraeger*)—*I.N.* xi, 209; xii, 263; xxvii, 118. Mouth of Shinna River at Newcastle (*Davies*)—*I.N.* xii, 272. Ballykinler (*Waddell*)—*I.T.B.*
Antrim—Whitepark Bay (*Fraeger and Carr*)—*B.N.F.C.* vi, 301.
Derry—Downhill 1917, *Fraeger*.
- A. portulacoides* L. Rare. *Fl.* 121, *Sup.* 194. DO, —, —.
Down—Rossglass, Killough, opposite Gunn's Island, north of Portaferry, half a mile north of Ballyquintin Point, Green Island near Portavogie, (the most northerly station in Ireland) and Strangford Lough west of Shamrock Island (*Fraeger*)—*I.N.* xi, 209; xii, 263; xxvii, 118. Mouth of Shinna River at Newcastle (*Davies*)—*I.N.* xii, 270. South of Portaferry 1905, *Tomlinson*, and 1920, *Fraeger*. Ballyhornan 1921, *Miss Elsie Seaver*.
- Salicornia herbacea* L. Common. *Fl.* 120. DO, AN, LD.
- S. dolichostachya* Moss. DO, —, —.
Down—Comber estuary 1921, *Bennett*.
The *Salicornia* segregates have not yet been worked out in our district, but the above and *S. herbacea* s.s. have been identified by Dr. E. J. Salisbury from the Comber estuary; also a doubtful hybrid between the two.
- [*S. radicans* Sm. Error. *Fl.* 299. DO, —, —.]
- Suaeda maritima* Dum. Frequent. *Fl.* 119. DO, AN, LD.
- Salsola Kali* L. Frequent. *Fl.* 119, *Sup.* 193. DO, AN, LD.

POLYGONACEÆ.

- Polygonum Convolvulus* L. Common. *Fl.* 124. DO, AN, LD.
 var. *subalatum* V. Hall. DO, —, —.
 Down—Saintfield 1893, Crossgar and Magheralin (*Waddell*). Donaghadee (*Stewart*)—*I.N.* iv, 305. Greyabbey, the common form there (*Waddell*)—*W.B.E.C.* 1913. Between Millisle and Ballyferris Point (in fields and wastes), Ballyholme and Groomsport—*Stewart MS.* (as *pseudo-dumetorum*).
- P. aviculare** L. aggr. Very common. *Fl.* 123. DO, AN, LD.
 var. **agrestinum** (Jord.). DO, —, —.
 Down—Dundrum 1895 (*Waddell*)—*I.N.* iv, 305.
 var. **vulgatum** Syme. DO, —, —.
 Down—Killough 1895 (*Waddell*)—*I.N.* iv, 305.
 var. **arenastrum** (Bor) DO, —, —.
 Down—Saintfield 1895 (*Waddell*)—*I.N.* iv, 305.
 var. **rurivagum** (Jord.). DO, —, —.
 Down—Killough 1895 (*Waddell*)—*I.N.* iv, 305. Saintfield (*Waddell*)—*W.B.E.C.* 1898 and 1909.
 var. **heterophyllum** Lindon. DO, —, —.
 Down—Greyabbey 1914 (*Waddell*)—*B.E.C.* 1914.
 var. **littorale** (Link.). *Fl.* 123, *Sup.* 194. DO, —, LD.
- P. Rafi** Bab. Rather rare. *Fl.* 124, *Sup.* 195. DO, AN, LD.
 Down—Frequent in Lecale and Ards (*Praeger*)—*I.N.* xi, 210; xii, 264. Still at Greencastle 1906—*B.N.F.C.*; and Ballyholme 1911, *Waddell*.
 Antrim—Sandy shore at Kilroot—*Stewart MS.*
 Derry—Downhill 1917, *Praeger*.
- [*P. maritimum* L. Error. *Fl.* 300. DO, —, —.]
- P. Hydropiper** L. Common. *Fl.* 123. DO, AN, LD.
 var. **densiflorum** Braun.
 Down—Saintfield 1895 (*Waddell*)—*I.N.* iv, 305.
- P. minus** Huds. Rare. *Fl.* 123. DO, AN, LD.
 Antrim—By Lough Neagh half mile west of Sixmylewater 1900 (*Davies*)—*I.N.* ix, 219.

- P. mite** Schrank. Very rare. —, AN, —.
 Antrim—Shore between Sixmilewater and Shane's Castle 1900 (*Davies*)
 — *I.N.* x, 68.
- P. Persicaria** L. Very common. *Fl.* 123. DO, AN, LD.
 var. **biforme** Wahl. —, AN, —.
 Antrim—Near Lisburn 1901 (*Davies*)—*Stewart MS.*
 var. **glandulosa** V. Bosch. DO, —, —.
 Down—Ballynahinch 1886 (*Praeger*)—*G.I.T.B.*
 var. **incanum** auct. DO, —, —.
 Down—Warrenpoint town reservoir 1890 (*Praeger*)—*G.I.T.B.*
- [*P. lapathifolium* L. Frequent. *Fl.* 123, *Sup.* 194. DO, AN, LD.
 Down—Castlereagh Hill—*Stewart MS.* Greengraves near Dundonald
 1920, *Bennett*.
 Derry—Bann near Coleraine 1916, *Henry*.
 The record for "Warrenpoint town reservoir" has been transferred to
P. Persicaria var. *incanum*.—*G.I.T.B.*]
- [*P. maculatum* Trim. & Dyer. Casual. *Fl.* 300, *Sup.* 194. DO, —, —.
 Down—Opposite Rough Island in Strangford Lough 1918, *Bennett*.]
- P. amphibium** L. Common. *Fl.* 123. DO, AN, LD.
- P. Bistorta* L. Escape. *Fl.* 286, *Sup.* 194. DO, AN, LD.
 Down—Saintfield and graveyard at Knock (*Waddell*)—*I.N.* iv, 433.
 Antrim—Ballymena (*Knowles*)—*I.T.B.*
 Derry—Two places near Coleraine 1916, *Henry*.
- [*P. sachalinense* Schmidt. Escape. —, AN, —.
 Antrim—Lisburn, between mill-race and Lagan 1896 (*Davies*)—*I.N.*
 v. 310.]
- [*Fagopyrum esculentum* Moench. Escape. *Fl.* 286. DO, —, —]
 (*P. Fagopyrum* in *Flora*).
- Rumex conglomeratus** Murr. Common. *Fl.* 122. DO, AN, LD.
- R. sanguineus* L. Very rare. *Sup.* 194. DO, AN, —.
 Down—Helen's Bay golf links, in a wood, 1916, *Megaw*.

- R. nemorosus** Schrad. (= *R. viridis* Sibth.). *Fl.* 122. DO, AN, LD.
Common.
- [*R. palustris* Sm. Error. *Fl.* 299. —, AN, LD.]
- R. obtusifolius** L. Very common. *Fl.* 122. DO, AN, LD.
- R. crispus** L. Very common. *Fl.* 122. DO, AN, LD.
[var. *acutus* L. ? Error. *Fl.* 300].
- R. Hydrolapathum** Huds. Rare. *Fl.* 122, xxxiii, *Sup.* 194. DO, AN, LD.
Down—Newtownards 1864—*Darragh MS.* Loughinisland (*B.N.F.C.* 1889)—*Stewart MS.* Killough, frequent in Lecale (*Praeger*)—*I.N.* vi, 280; xi, 210.
Derry—Near Bellaghy—*Fl. Ulst.*
- R. Acetosa** L. Common. *Fl.* 122, *Sup.* 194. DO, AN, LD.
- R. Acetosella** L. Very common. *Fl.* 123, *Sup.* 194. DO, AN, LD.
var. **angiocarpus** (Murb.). —, AN, —.
Antrim—Garron Tower 1912 (*Druce*)—*I.N.* xxi, 238.

ELÆAGNACEÆ.

- [*Hippophae rhamnoides* L. Planted. DO, —, —.
Down—On both sides of Causeway between Dundrum and Murlough, *Wear.*]

EUPHORBIACEÆ.

- Euphorbia Helioscopia* L. Common. *Fl.* 124. DO, AN, LD.
- [*E. hiberna* L. Garden specimens. *Fl.* 300. —, —, —.]
- [*E. Cyparissias* L. Escape. *Fl.* 286. DO, —, —.]
- E. Paralias** L. Rare. *Fl.* 125. DO, AN, —.
Down—Tyrella (*Praeger*)—*I.T.B.* Rossglass—*B.N.F.C.* v, 487. Still at Cranfield 1906, and north of Newcastle 1908—*B.N.F.C.*
- E. portlandica** L. Rare, locally abundant. *Fl.* 125. DO, AN, —.
Down—Still at Greencastle 1906—*B.N.F.C.*
Antrim—Still plentiful at Portrush and Bushfoot 1916, *Henry*.

- E. Peplus* L. Common. *Fl.* 125. DO, AN, LD.
- E. exigua* L. Rare, locally abundant. *Fl.* 125, *Sup.* 195. DO, AN, LD.
Down—Ardglass and Killough (*Davies*)—*I.N.* vii, 246. Frequent in
Ards (*Praeger*)—*I.N.* xii, 246.
Antrim—Near Cookstown Junction 1898 (*Adams*)—*Stewart MS.* Near
Aghalee (*Carrothers*)—*B.N.F.C.* vi, 575. Portrush above Cloughor,
Wear. Taylorstown near Ahoghill, *Megaw.*
- [*E. Lathyrus* L. *Fl.* 286. DO, AN, —.
Down—Donaghadee 1864—*Darragh MS.*
Antrim—Roadside near Carn Hill (*Wm. MacMillan*)—*Stewart MS.*]
- Mercurialis perennis* L. Very rare. *Fl.* 125, *Sup.* 195. DO, AN, —.
Antrim—Refound at junction of Craighan Burn with Shesk River near
Ballycastle 1906, *Tomlinson* (Altaferna Glen record of *Fl. Ulst.*).
Galgorm Castle, by avenue to farm yard 1912 (*S. Smyth*)—*Megaw.*
Only in demesne woods.

URTICACEÆ.

- Ulmus montana* With. Frequent, native in glens. *Fl.* 128. DO, AN, LD.
Antrim—Colin glen (*Templeton*); Glenarm Deer Park, &c. (*Thompson*);
and frequent in northern glens of Antrim (*Moore*)—*Cyb.* I. and II.
On rocks in glen 1 mile N. of Carnlough; "I consider a native"
R. L.P.—*I.N.* xxix, 95.
- U. suberosa* Ehrh. Common. *Fl.* 287. DO, AN, LD.
- [*Humulus Lupulus* L. *Fl.* 286, *Sup.* 196. DO, AN, —.
Antrim—Well established near Rock Ryan at Portrush, *Wear.*]
- [*Cannabis sativa* L. Casual. *Fl.* 286. —, AN, —.]
- Urtica dioica* L. Very common. *Fl.* 128. DO, AN, LD.
- U. urens* L. Common. *Fl.* 127. DO, AN, LD.
- Parietaria officinalis* L. Frequent. *Fl.* 127, *Sup.* 196. DO, AN, LD.

MYRICACEÆ.

- Myrica Gale* L. *Fl.* 132, *Sup.* 197. DO, AN, LD.
Frequent, locally abundant.

CUPULIFERÆ.

[<i>Betula verrucosa</i> Ehrh. Error. <i>Fl.</i> 300.	DO, AN, —.]
B. pubescens Ehrh. Frequent. <i>Fl.</i> 132, <i>Sup.</i> 197.	DO, AN, LD.
Alnus glutinosa Medic. Common. <i>Fl.</i> 132.	DO, AN, LD.
Corylus Avellana L. Common. <i>Fl.</i> 133, <i>Sup.</i> 197.	DO, AN, LD.
Quercus Robur L. Common. <i>Fl.</i> 132, <i>Sup.</i> 197.	DO, AN, LD.
<i>Castanea vul'garis</i> Lam. Planted. <i>Fl.</i> 287.	DO, AN, LD.
<i>Fagus sylvatica</i> L. Common, not native. <i>Fl.</i> 287.	DO, AN, LD.

SALICINÆ.

<i>Salix pentandra</i> L. Frequent. <i>Fl.</i> 128, <i>Sup.</i> 196.	DO, AN, LD.
<i>S. triandra</i> L. Rare. <i>Fl.</i> 129, <i>Sup.</i> 196.	DO, AN, —.
Antrim—On left bank of Sixmilewater about quarter mile from mouth 1916 (probably Stewart's station), <i>Wear</i> .	
<i>S. fragilis</i> L. aggr. Frequent. <i>Fl.</i> 287.	DO, AN, LD.
<i>S. Russelliana</i> Sm. <i>Fl.</i> 287.	DO, AN, LD.
<i>S. decipiens</i> Hoffm. <i>Fl.</i> 287.	—, —, LD.
<i>S. alba</i> L. Frequent. <i>Fl.</i> 129.	DO, AN, LD.
<i>S. alba</i> × <i>triandra</i> (<i>S. undulata</i> Ehrh.). Planted. <i>Fl.</i> 287.	—, AN, LD.
<i>S. purpurea</i> L. Rare. <i>Fl.</i> 129, <i>Sup.</i> 196.	DO, AN, LD.
Antrim—Bog N.E. of Randalstown 1901 (<i>Stewart</i>)— <i>Stewart MS.</i>	
Derry—By the Bann near Coleraine (<i>Moore</i>)— <i>Cyb.</i> I. and II	
<i>S. purpurea</i> × <i>viminalis</i> (<i>S. rubra</i> Huds.). <i>Fl.</i> 287.	DO, AN, LD.
<i>S. viminalis</i> L. Not rare. <i>Fl.</i> 129.	DO, AN, LD.
<i>S. Lapponum</i> L. Error. <i>Fl.</i> 300.	—, AN, —.]

- S. Caprea** L. Frequent. *Fl.* 130, *Sup.* 197. DO, AN, LD.
 Antrim—Bog north of Randalstown — *Stewart MS.*
 Derry—Downhill 1917, *Praeger*.
- S. aurita** L. Very common. *Fl.* 130, *Sup.* 197. DO, AN, LD.
 [*S. aurita* × *repens* (*S. ambigua* Ehrh.). Error. *Fl.* 300. —, AN, LD.]
- S. cinerea** L. Very common. *Fl.* 130. DO, AN, LD.
 forma **aquatica** (Sm.). Common. *Fl.* 130. DO, AN, LD.
S. cinerea × *viminalis* (*S. Smithiana* Willd.). DO, AN, LD.
Fl. 129, *Sup.* 196.
S. cinerea × *phylicifolia* (*S. laurina* Sm.). *Fl.* 130. —, AN, LD.
- S. nigricans** Sm. Rare. *Fl.* 130. —, AN, LD.
- S. phylicifolia** L. Rare. *Fl.* 130. —, AN, LD.
- S. repens** L. Common. *Fl.* 131, *Sup.* 197. DO, AN, LD.
 forma **prostrata** (Sm.). Common. *Fl.* 131. DO, AN, —.
 forma **incubacea** Syme. *Fl.* 131. —, —, LD.
 forma **argentea** (Sm.). *Fl.* 131. DO, —, —.
- S. herbacea** L. Rare. *Fl.* 131, *Sup.* 197. DO, AN, LD.
 Antrim—In Templeton's MS. Journal the Slievenanee plant is described
 as "a gigantic variety"—*Haddell*; still there near little cairn
 north of summit 1901 (*D'Arcy*)—*I.N.* x, 192; and in 1920,
Bennett.
 Derry—Refound at Benevenagh 1892, and still there 1917, *Praeger*.
- [*Populus alba* L. Planted. *Fl.* 237. DO, AN, —.]
- P. tremula** L. Native in hilly districts. *Fl.* 131, *Sup.* 197. DO, AN, LD.
 Down—Hedge in old lane from Ballymagee to Primacy at Bangor 1916,
Stelfox.
 Antrim—Still at Fairhead 1917, *Praeger*.
 Derry—Still at Umbra rocks 1917, *Tomlinson*; also *Praeger*.
- [*P. deltoides* Marsh. Common. DO, AN, LD.
 Common in Down, Antrim and Derry. "The most recently planted
 black poplars belong to this species," 1912 (*Druce*)—*I.N.* xxi, 238.]

EMPETRACEÆ.

Empetrum nigrum L. Frequent. *Fl.* 124, *Sup.* 195. DO, AN, LD.

CERATOPHYLLACEÆ.

Ceratophyllum demersum L. Rare. *Fl.* 126, *Sup.* 195. DO, AN, LD.

Down—In Ards at Lough Cowey, Lough Doo and Ballyherly Lough (*Praeger*)—*I.N.* xii, 263.

[*C. submersum* L. Error. *Fl.* 300. DO. —, —.]

CONIFERÆ.

[*Juniperus communis* L. Error. *Fl.* 300. —, AN, —.]

J. nana Willd. Rare. *Fl.* 133, *Sup.* 197. DO, AN, LD.

Antrim—Garron plateau at cairn $\frac{1}{2}$ mile W. of Craigatinnel (*Praeger and Stelfox*)—*I.N.* xxix, 95. Still at Glenariffe on cliffs 1901 (*D'Arcy*)—*I.N.* x, 192.

Derry—Hell's Hole above Magilligan 1914, *Stelfox and Wear*. Down-hill; and still at Benevenagh 1917, *Praeger*.

[*J. sabina* L. Error. *Fl.* 301, *Sup.* 198.] DO, —, —.

Taxus baccata L. Extremely rare. *Fl.* 133, *Sup.* 197. —, AN, LD.

Antrim—Refound in Glenariffe 1901 (*D'Arcy*; also *Brenan*)—*I.N.* x, 192, 229.

Derry—Refound at Magilligan on Woodtown cliffs $\frac{3}{4}$ mile W.S.W. of Eagle Hill 1917 (*Praeger*)—*I.N.* xxvi, 169.

Pinus sylvestris L. Common. *Fl.* 134, 288. DO, AN, LD.

HYDROCHARIDEÆ.

Elodea canadensis Mich. Common. *Fl.* 135, 288. DO, AN, LD.

Hydrocharis Morsus-ranæ L. *Fl.* 134, *Sup.* 198. DO, AN, —.

Very rare.

Down—At and south-east of Lough Cowey and at Bishop's Mill dam (*Praeger*)—*I.N.* xii, 263.

Antrim—Lough Neagh at Crumlin (*Templeton*)—*Fl. Ulst.* Still at Gawley's Gate, and in drains south of Portmore 1920, *Praeger and Stelfox*.

Seldom flowers in our district.

SPIRANTHES ROMANZOFFIANA.

To face p. 91.]

[E. J. Bedford, photo.

[*Stratiotes aloides* L. *Fl.* 288.

—, AN, —.

Antrim—Mill dam at Woodburn 1894 (*P. F. Gulbransen*)—*Stewart MS.*]

ORCHIDACEÆ.

Malaxis paludosa Sw. Very rare. *Fl.* 140.

—, AN, —.

Neottia Nidus-avis Rich. Rare. *Fl.* 138, *Sup.* 199. DO, AN, LD.

Down—Still at Tollymore park 1890 (*Praeger*)—*I. T. B.*; and Belvoir park 1908—*B. N. F. C.* vi, 137.

Antrim—Near Portglenone (*Moore*)—*Cyb.* I. Redhall glen 1899 (*Hanna*)—*Stewart MS.* Garron Tower (*Leebody*)—*I. T. B.* Magheramorne glen 1918 (*Jos. Maxwell*)—*Carrothers.* Still at Shane's Castle 1906—*B. N. F. C.*; and Muckamore 1907, *Tomlinson.* Carnlough glen below waterfall (*Praeger and Stelfox*)—*I. N.* xxix, 95.

Derry—Valley of the Roe at Limavady—*B. N. F. C.* iv, 271. Wood at Umbra 1918, and still at Errigal glen 1907, *Tomlinson.*

Listera cordata Br. Rather rare. *Fl.* 138, *Sup.* 199. DO, AN, LD.

Down—Slieve Bingian 1885 (*D'Arcy*)—*Cyb.* II. Slieve Commedagh, *Bennett.*

Antrim—Black Mountain 1809 (*Templeton*)—*Stewart MS.* Carnsamps near Ballycastle (*Praeger*)—*I. N.* vi, 301. Foot of Lurigethan 1899, and Garron plateau 1910—*B. N. F. C.* Near Kellswater station 1916—*Tomlinson* in *I. N.* xxv, 99. Above Dunloy (*Carrothers and Tomlinson*)—*B. N. F. C.* vi, 60. Shane Hill, Wolf Hill and Sheaphead Hill above Ligoniel (*Tomlinson*)—*B. N. F. C.* vi, 60.

L. ovata Br. Common. *Fl.* 138.

DO, AN, LD.

Spiranthes Romanzoffiana Cham. Very local. *Sup.* 199. DO, AN, LD.

Down—Kilmore townland by Lough Neagh 1911 (*Carrothers*)—*I. N.* xx, 184.

Antrim—Between Antrim and Toome 1901 (*West*)—*I. N.* x, 171. Masereene Park 1907, on an island near north shore of Lough Neagh 1912, and frequent both on north shore of Lough Neagh and on and near shores of Lough Beg, *Tomlinson.*

Derry—Widely distributed in suitable places, generally flats liable to flood, on the west side of the Bann and Lough Beg, *Tomlinson.* East side of Bann at Coleraine between bridges 1910 (*W. W. Nicholson*)—*Carrothers*; not seen there since 1911, *Henry.* Portglenone, *Megaw.* Still in plenty about Kilrea in several places 1915, *Houston.*

This is the most interesting plant in our local flora. Widely spread across North America (and extending into Kamtschatka), it was from 1810 till 1892 known in Europe only from the neighbourhood of Castle-town Berehaven in West Cork. In the latter year it was discovered in Co. Armagh, and has since been shown to occur in all the five counties (Down, Antrim, Derry, Tyrone, Aimagh) which border on that lake, extending up the Upper Bann to above Portadown, and down the Lower Bann to Coleraine. Its European centre of distribution has thus been changed from S.W. to N.E. Ireland. In many places round Lough Neagh it occurs in tolerable abundance. Considerable doubt has been expressed recently as to whether the Ulster plant is identical with that from Cork and Kerry. Examination by experts leaves it doubtful whether either is Chamisso's N. American plant. For its relation to *S. stricta* Rydberg, a recently described American segregate, see "Irish Nat.," xv, 188. The whole matter is under investigation at present.

- Cephalanthera ensifolia** Rich. *Fl.* 139. DO? AN, — .
Extremely rare.
Not seen in the district for over 70 years.
[*C. pallens* Reich. Error. *Fl.* 301. — , AN, — .]
- Epipactis latifolia** All. Frequent. *Fl.* 139, *Sup.* 199. DO, AN, LD.
var. **media** (Fries.). *Fl.* 139. — , AN, — .
Antrim—Stranmillis—*Fl. Ulst.* Redhall demesue 1906 (*S. A. Moore*)
—*B.N.F.C.* v, 489.
- E. palustris** Crantz. Very rare. *Fl.* 139. DO, AN, LD.
Derry—Wet meadow between Magilligan station and coast 1908 (*Adams*)
—*I.N.* xviii, 53. Doaghs at Magilligan, one plant, 1912—*Lilly*.
Abundant in damp hollows in several places on Magilligan sandhills
1920, *Tomlinson*.
- Orchis pyramidalis** L. Rather rare. *Fl.* 288, *Sup.* 198. DO, AN, LD.
Down—East of Murphystown and from Killard Point to Mill Quarter
Bay (*Praeger*)—*I.N.* xi, 209. Near Rathmullan Point (*Tomlinson*)
—*I.N.* xv, 218; xvi, 321. Near Ringsallan (*Carrothers*)—*B.N.F.C.* vi, 11. Mount Stewart (*Dallman*)—*I.N.* xvi, 350.
Antrim—Cave Hill quarry (*Tomlinson*)—*I.N.* xv, 218. Portrush golf
links 1909, *Wear*. Near Golf Hotel, Portrush 1916, *Henry*. Near
Aghalee—*B.N.F.C.* vi, 599. Whitepark Bay—*B.N.F.C.* 1915.
Derry—East side of Bann near mouth 1910 (*W. W. Nicholson*)—*Carrothers*. Downhill to Magilligan 1917, *Praeger*.
- O. mascula** L. Common. *Fl.* 135. DO, AN, LD.

- O. incarnata** L. Frequent. *Fl.* 136, *Sup.* 198. DO, AN, LD.
O. incarnata L. *sensu stricto*. DO, AN, — .
 Apparently frequent in the district. It is abundant on shores of Lough Neagh, and occurs in North Down; but as it has not been sought for, its range and frequency are uncertain.
- O. praetermissa** Druce. DO, AN, LD.
 Seems to be common throughout the area. Occurs in all three counties in both lowland and upland situations.
- O. purpurella** Stephenson. Perhaps not rare. —, AN, — .
 Antrim—A plant collected near Dunloy in July 1920 by Praeger and Stelfox has been identified by Rev. T. Stephenson as his form *b* of this species.
- O. latifolia** L. Perhaps not rare —, AN, — .
 Antrim—Plants collected in July 1920 on the eastern slope of Knocklayd and near Dunloy by Praeger and Stelfox have been named by Rev. T. Stephenson true *latifolia* L.
- O. maculata** L. aggr. Common. *Fl.* 136. DO, AN, LD.
O. Fuchsii Druce.
 Apparently widespread, but more lowland than the next.
- O. ericetorum** E. F. Linton.
 Distribution not yet worked out; certainly common upon the Antrim hills.
 Hybrids between the above segregates are of frequent occurrence where the plants grow together, but they have not yet been studied locally.
- Habenaria conopsea** Benth. *Fl.* 136, *Sup.* 198. DO, AN, LD.
 Rather rare.
 Antrim—Abundant in the county.
 Derry—Still abundant near Umbra 1916, *Henry*. Downhill 1917, *Praeger*.
- H. albida** Br. Rather rare. *Fl.* 136, *Sup.* 198. DO, AN, LD.
 Antrim—Top of Knockagh near east end—*Fl.* *Ulst.* S.W. base of Slemish (*Hart*)—*I.N.* v, 27. Skerry (*Knowles*)—*I.T.B.* Fairhead (*Carrothers*)—*B.N.F.C.* v, 372. Rabbit Rock above Dunloy (*Carrothers and Tomlinson*)—*B.N.F.C.* vi, 60. Ballyboley, Irish Hill, Wolf Hill, Sheephead Hill (above Ligoniel), above Whitewell, Craigs W. of Dunloy and Skerry Rock above Clough, *Tomlinson*.

Tait's Hill 1904, Spennin Hill 1904, Ballygowan Hill 1906 and Skerrywherry 1908 (all west of Larne) (*Lilly*)—*I.N.* xv, 267; xvii, 162. Near Glenshesk 1909, *Henry*. Tully Hill near Ahoghill, *Megaw*. Westward-facing scarp S.E. of Lough Naroon (*Praeger and Stelfox*)—*I.N.* xxix, 95.

Derry—Craighall Rocks near Kilrea 1910, *Houston*. Near Benevenagh 1917 (*Lilly*)—*Praeger*.

H. viridis Br. Rare, locally frequent. *Fl.* 137, *Sup.* 198. DO, AN, LD.

Down—Newtownards 1864—*Darragh MS.* West of Killard Point (*Praeger*)—*I.N.* xi, 209; xvii, 118. Ballyholme mill dam 1915, *Foster*.

Antrim—Cave Hill—*B.N.F.C.* 1871-2. Common above Colin Glen—*Corry MS.*; still there 1919, *G. E. C. Maconchy*. Agnew's Hill 1895 (*Stewart*)—*Stewart MS.* Ballyboley, Hyde Park, N.W. of Ballycastle and frequent in Killead parish (*Tomlinson*)—*B.N.F.C.* vi, 60. Slemish—*B.N.F.C.* vii, 100. Loan Hill near Cullybackey 1917, *Megaw*. Wolf Hill, *Carrothers*. Near Ardclunis 1920, *Bennett*. Lurigethan 1920 (*C. D. Chase*)—*Bennett*.

Derry—Downhill 1890 (*Leebody*)—*Stewart MS.*; still there 1919, *Tomlinson*.

H. bifolia Br. Rather rare. *Fl.* 137, *Sup.* 199. DO, AN, LD.

Down—Tollymore Park (*Praeger*)—*I.T.B.* Mahee Island—*B.N.F.C.* vi, 24.

Antrim—Agnew's Hill 1895 (*Hanna*)—*Stewart MS.* Clinty Hill (*Knowles*)—*I.T.B.* Carnsamps near Ballycastle (*Praeger*)—*I.N.* vi, 301. Lissanure 1908, and Slemish 1913—*B.N.F.C.* Hills south of Portballintrae 1898, *Stelfox*. Craigs—*B.N.F.C.* vii, 281.

Derry—Downhill 1917, *Praeger*.

H. chloroleuca Ridley (= *H. chlorantha* Bab.). DO, AN, LD.

Frequent. *Fl.* 137, *Sup.* 199.

IRIDACEÆ.

[*Iris foetidissima* L. Escape. *Fl.* 288. DO, AN, LD,

Down—Clandeboyne (*Praeger*)—*I.T.B.*]

I. Pseud-acorus L. Very common. *Fl.* 140. DO, AN, LD.

Var. *acoriiformis* (Bor.) is apparently the usual Irish form—*G.I.T.B.*

Sisyrinchium angustifolium Mill. ? Escape. —, AN, —.

Antrim—Shane's Castle 1906—*B.N.F.C.* v, 481.

AMARYLLIDACEÆ.

Leucojum æstivum L. ? Escape.

—, AN, —.

Antrim—Lough Neagh two miles south of Antrim 1909 (*Tomlinson*)—*I.N.* xv, 70; xvii, 34.

LILIACEÆ.

[*Allium vineale* L. ? Error. *Fl.* 142.

DO? AN? —.

Mr. John Adams has shown that the Sixmilewater plant recorded under this species is *A. oleraceum*. He was unable to procure a specimen from Shane's Castle, the only other place from which the plant has been recorded for a long time—*I.N.* xviii, 52, 111.]

A. oleraceum L. One area. ? Native.

—, AN, —.

Antrim—In some plenty by the Sixmilewater above Antrim 1886—*D. Redmond*; still there at three places between Moylena and the G.N. Railway bridge 1909 (*Adams*)—*I.N.* xviii, 52, 111.

See note on the preceding species.

A. ursinum L. Frequent. *Fl.* 142, *Sup.* 200.

DO, AN, LD.

Scilla verna Huds. Frequent. *Fl.* 142, *Sup.* 200.

DO, AN, LD.

Down—Abundant on outer shore of Ards, and frequent on inner shore, on rocky knolls, up to Kirkcubbin (*Praeger*)—*I.N.* xii, 263.

S. nutans Sm. (= *Endymion nutans* Dum.). *Fl.* 143.
Common.

DO, AN, LD.

[*Colchicum autumnale* L. Escape, now gone. *Fl.* 288.

DO, —, —.]

Narthecium ossifragum Huds. Common. *Fl.* 143.

DO, AN, LD.

JUNCACEÆ.

Juncus bufonius L. Common. *Fl.* 144.

DO, AN, LD.

var. *ranarius* Nees.

DO, —, —.

Down—Newcastle (*Druce*)—*I.N.* xii, 238.

J. squarrosus L. Common. *Fl.* 144, *Sup.* 201.

DO, AN, LD.

[*J. compressus* Jacq. Error. *Fl.* 301.

—, —, LD.]

J. Gerardi Lois. Common. *Fl.* 144.

DO, AN, LD.

- J. tenuis* Willd. Very rare. DO, —, —.
Down—Victoria Park, Belfast 1899 (*Stewart*)—*I.N.* xii, 108; xiii, 43.
Ballymagee on garden path 1919, *Stelfox*.
- J. glaucus** Ehrh. Rare. *Fl.* 143, *Sup.* 200. DO, AN, LD.
Down—Near Strangford, Lough Cowey in Ards, Strangford Lough from Harry's Island westward, raised beach east of Shark Island and White Hills near Strangford (*Praeger*)—*I.N.* vi, 280; xii, 263; xiii, 225; xxvii, 118.
Antrim—Stranmillis (*Rev. Geo. Robinson*)—*Corry MS.*; still there 1921, *Carrothers*. Old Park dam, sparingly, *Wear*.
Derry—Magilligan (Benone) 1917—*Praeger*.
- J. effusus** L. Very common. *Fl.* 143, *Sup.* 200. DO, AN, LD.
J. effusus × **glaucus** (= *J. diffusus* Hoppe.). *Fl.* 301. DO, —, LD?
Very rare.
Down—Strangford Lough at raised beach east of Shark Island 1904 (*Praeger*)—*I.N.* xiii, 225.
- J. conglomeratus** L. Very common. *Fl.* 143. DO, AN, LD.
- J. maritimus** Lam. Frequent. *Fl.* 143, *Sup.* 200. DO, AN, LD.
- J. supinus** Moench. Rather rare. *Fl.* 144, *Sup.* 200. DO, AN, LD.
Down—Hillsborough Park 1917, *Wear*.
Antrim—Glenariffe (*Brenan*); Sluggan bog near Randalstown—*Stewart MS.* Killybegs bog 1918, *Megaw*.
- [*J. nigritellus* D. Don. Doubtful. *Fl.* 301. —, AN, —.]
- J. obtusiflorus** Ehrh. Rare. *Fl.* 144, *Sup.* 200. DO, —, —.
Down—Marsh at St. John's Point (*Stewart*)—*Corry MS.* Killough—*B.N.F.C.* iv, 475. Frequent on coast and in marshes of Lecale, marshes between Portaferry and Cloughey, and coast of Strangford Lough inside the launches (*Praeger*)—*I.N.* xi, 209; xii, 263; xiii, 225.
- J. lamprocarpus** Ehrh. Very common. *Fl.* 144. DO, AN, LD.
- J. acutiflorus** Ehrh. Very common. *Fl.* 144, *Sup.* 200. DO, AN, LD.
- Luzula vernalis** DC. (= *L. pilosa* Willd.). Local. *Fl.* 145. DO, AN, LD.

L. maxima DC. (= *L. sylvatica* Bich.). Common. *Fl.* 145. DO, AN, LD.

L. campestris DC. Common. *Fl.* 145. DO, AN, LD.

L. erecta Desv. (= *L. multiflora* Lej.). Common. *Fl.* 145. DO, AN, LD.

The relative frequency of the two forms *umbellata* and *congesta* might be observed. "Both are probably universal"—*G.I.T.B.*

[*L. albida* DC. var. *rubella*. DO, —, —.

Down—Lenaderg on border of plantation 1903 (*Davies*)—*I.N.* xii, 272.]

TYPHACEÆ.

Typha latifolia L. Frequent. *Fl.* 145, *Sup.* 201. DO, AN, LD.

T. angustifolia L. Very rare. *Fl.* 146, *Sup.* 201. DO, AN, —.

Down—In Ards at Bishop's Mill 1897, Lough Doo, Lough Cowey (in great abundance) and Ballyfinragh Lough (*Praeger*)—*I.N.* vi, 280; xii, 263; xxvii, 118.

Antrim—Still profuse at Portmore 1898 (*Davies*)—*Stewart MS.*

Sparganium ramosum Huds. Common. *Fl.* 146. DO, AN, LD.

var. **microcarpum** Neuman. *Sup.* 201. DO, —, —.

S. simplex Huds. Frequent. *Fl.* 146, *Sup.* 201. DO, AN, LD.

S. affine Schnizl. (as *S. natans* in *Flora*). *Fl.* 146, *Sup.* 201. DO, AN, LD.

Rare.

Down—Cotton Moss and S.E. of Lough Cowey (*Praeger*)—*I.T.B.*; *I.N.* xii, 263.

Antrim—Still at Fairhead 1897 (*Praeger*)—*I.T.B.* Lakelet $\frac{1}{2}$ mile W. of Lough Fine (Garron Plateau) and Loughnafanogy near Parkmore (*Praeger and Stelfox*)—*I.N.* xxix, 95.

S. minimum Fries. Very rare. *Fl.* 147, *Sup.* 201. DO, AN, —.

Down—Near Ballymenagh House in Lecale, at and south of Lough Cowey, and Ballynahinch Junction (*Praeger*)—*I.N.* xi, 209; xii, 263; xiii, 227.

ARACEÆ.

Arum maculatum L. Common. *Fl.* 147, *Sup.* 202. DO, AN, LD.

- Acorus Calamus* L. Escape. *Fl.* 288, xxxiv, *Sup.* 202. DO, AN, —.
 Down—Still near Ballynahinch (at Montalto) 1893 (*Praeger*)—*I. T. B.*
 “The Cuts” at Newport near Hillsborough, but apparently gone
 now from lakes at Hillsborough (Templeton’s station), *Foster*.
 Antrim—Has now extended to below 2nd lock of Lagan Canal 1916
 (*Carrothers*)—*B. N. F. C.* vi, 204.

LEMNACEÆ.

- Lemna trisulca** L. Common. *Fl.* 147. DO, AN, LD.
L. minor L. Very common. *Fl.* 147. DO, AN, LD.
L. gibba L. Rare. *Fl.* 147. DO, AN, LD.
 Down—Sparingly along Lough Neagh at Kilmore and abundant in drains
 at Annaghdroghal, *Houston*.
 Derry—Near Magilligan 1897 (*Leebody*)—*B. N. F. C.* iv, 433.
L. polyrrhiza L. Introduced. *Fl.* 288. DO, AN, —.
 Down—In canal immediately below Shaw’s Bridge 1919, *Megaw*.
 Antrim—Still in ditch above 1st lock of Lagan Canal 1919, *G. E. C.*
Maconchy.

ALISMACEÆ.

- Alisma Plantago** L. Common. *Fl.* 141. DO, AN, LD.
 forma **natans**.
 Antrim—Toomebridge (! Prof. Gluck) (*Druce*)—*I. N.* xix, 237.
A. ranunculoides L. Common. *Fl.* 141. DO, AN, LD.
 [*Elisma natans* Buchenau. Error. *Fl.* 301. DO, —, —.]
Sagittaria sagittifolia L. Rare. *Fl.* 141, xxxiii, *Sup.* 200. DO, AN, LD.
 Down—Scarva (*Praeger*)—*I. T. B.* Ellis’s Cut—*B. N. F. C.* vi, 503.
 Antrim—Lough Neagh south of Staffordstown station, *Tomlinson*.
 Derry—Still very frequent on Bann 1895 (*Praeger*)—*I. T. B.*
Butomus umbellatus L. Rare. *Fl.* 141, *Sup.* 200. DO, AN, LD.
 Down—Between Tillysburn and Kinnegar 1920, *J. R. H. Greeves*.
 Antrim—Glenavy (*Waddell*)—*I. T. B.* Lough Neagh south of Staffords-
 town station; spreading rapidly around shores of Lough Neagh,
Tomlinson. Portglenone, Bann near Kilrea and in swamp and
 drains near Lough Beg, *Megaw*. Toome 1918, *Stelfox*.
 Derry—Toome, 1918, *Stelfox*.

NAIADACEÆ.

- Triglochin palustre** L. Common. *Fl.* 142. DO, AN, LD.
T. maritimum L. Common by sea shore. *Fl.* 141. DO, AN, LD.
Potamogeton natans L. Very common. *Fl.* 148. DO, AN, LD.
 var. **ovaliformis** Fieber. *Fl.* 148 —, AN, —.
P. polygonifolius Pourr. Common. *Fl.* 148, *Sup.* 202. DO, AN, LD.

[*P. Kirkii* Syme.

The Edinburgh Herbarium contains a specimen labelled in Dr. Moore's handwriting, "*Potamogeton* species nearest to *P. heterophyllus*? but different apparently. Growing in rather deep water in Lough Neagh, Co. Antrim.—D M." Mr. Fryer and Dr. Boswell found the plant to be *P. Kirkii*. There is some doubt as to whether this specimen was properly labelled, and that doubt can only be removed by finding the plant in Lough Neagh. The only undoubted Irish record is from Maam in Co. Galway.—See *I.N.* xviii, 83; and Fryer's *Potamogetons of the British Isles*.]

- P. plantagineus** Duer. Rare. *Fl.* 301. DO, AN? LD?
 Down—In Lecale at Rathmullan marsh; near Ballymenagh House and Tobermoney; and in Ards in a marsh between Portaferry and Cloughey (*Praeger*)—*I.N.* xi, 209; xii, 263.
 [Antrim—Not infrequent in bog ditches (*Moore*)—*Cyb.* I and II.
 Derry—At Magilligan (*Moore*)—*Cyb.* I and II.
 Not refound in Antrim or Derry, and probably these records are erroneous.]

- P. rufescens** Schrad. Frequent. *Fl.* 148, *Sup.* 202. DO, AN, LD.
 [*P. lanceolatus* Sm. Error. *Fl.* 302. DO, AN, —.]

- P. heterophyllus** Schreb. Rare. *Fl.* 148. DO, AN, LD.
 Down—Pool by Lough Neagh near Annaghydroghal (*Waddell*)—*I.N.* xxi, 134.
 Antrim—Lough Neagh at Glenavy 1900—*B.N.F.C.* Harbour Island, Lough Neagh (*Waddell*)—*B.É.C.* 1911. Selshan 1919, *Bennett*.
 Derry—Bann near Toome (*Druce*)—*I.N.* viii, 199. Still at Kilrea 1893 (*Praeger*)—*I.T.B.* Abundant in Lough Beg near Toome [county not stated], a very attenuated form with peduncle sometimes a foot long—*Stewart MS.*

- var. **pseudo-nitens** Bennett. Very rare. *Fl.* 149. —, AN, —.
- P. nitens** Weber. Very rare. *Fl.* 149, *Sup.* 202. DO, AN, —.
Antrim—Dunadry 1884 (*Stewart in Herb. Ar. Bennett*)—*I.T.B.*
- P. lucens** L. Frequent. *Fl.* 149, *Sup.* 202. DO, AN, LD.
var. **borealis** Tiselius. Now lost. *Fl.* 149. —, AN, LD.
var. **longifolius** Gay. *Sup.* 202. —, AN, —.
Antrim—Lagan Canal near Lisburn 1894—*Stewart MS.*
- [*P. decipiens* Nolte. Doubtful. DO, —, —.
Down—Magheralin 1897 (*Waddell*)—*I.N.* xxi, 134. Named from a poor specimen. Mr. Arthur Bennett says: "Probably this."]
- P. Zizii** Roth. Rare. *Fl.* 149, *Sup.* 202. DO, AN, LD.
Down—Lough Neagh near Lurgan 1913, *Bennett.*
- P. praelongus** Wulf. Rare. *Fl.* 149. —, AN, LD.
Derry—Port Lough 1902 (*Leebody*)—*I.N.* xiv, 29.
- P. perfoliatus** L. Common. *Fl.* 150. DO, AN, LD.
- P. crispus** L. Common. *Fl.* 150. DO, AN, LD.
var. **serratus** Huds. *Fl.* 150. —, AN, LD.
- P. crispus** × **perfoliatus** (= *P. Cooperi* Fryer). DO, AN, —.
Down—Lagan at Magheralin 1897 (! *Ar. Bennett*) (*Waddell*)—*I.N.* xxi, 134; also, iii, 124.
Antrim—Co. Antrim—*Fryer's Patamogetons of the British Isles.*
- [*P. crispus* × *praelongus* (= *P. undulatus* Wölg.). *Sup.* 202.
Mr. Fryer says that the Sixmilewater plant of 1st Suppl. thus recorded had better be named *P. Cooperi*—*B.E.C.* 1895.]
- [*P. zosterifolius* Schum. Error. *Fl.* 302. DO, —, —.]
- P. obtusifolius** Mert. & Koch. Rare. *Fl.* 150, *Sup.* 202. DO, AN, LD.
Down—Frequent in Ards (*Praeger*)—*I.N.* xii, 264. Still at Ballyalloy 1914, *Bennett and Wear,*
Antrim—Still at Portmore 1898 (*Davies*)—*Stewart MS.*
Derry—Lough Beg (*Moore*)—*Cyb.* I.

- [*P. mucronatus* Schrader. ? Error. *Fl.* 302. DO, AN, —.]
- P. pusillus** L. Common. *Fl.* 150. DO, AN, LD.
var. **tenuissimus** Koch. Common. *Fl.* 150. DO, AN, LD.
- P. panormitanus** Biv. Rare. —, AN, —.
Antrim—Off Harbour Island in Lough Neagh 1909 (*Waddell*)—*I.N.* xxviii, 106.
- [*P. trichoides* Cham. Error. *Fl.* 303. DO, —, —.]
- P. pectinatus** L. Frequent. *Fl.* 150. DO, AN, LD.
- P. flabellatus** Bab DO, —, —.
Down—Drains at Strand Lough, Killough 1902 (*Praeger*)—*I.N.* xi, 209.
Still there 1920, *Bennett*.
- Ruppia maritima** L. aggr. Rare. *Fl.* 151, *Sup.* 203. DO, AN, LD.
R. spiralis Hartm. (as *R. maritima* in *Flora*). DO, AN, LD.
Rare. *Fl.* 151, *Sup.* 203.
Down—Brackish pool at Comber 1886 (*Stewart in Herb.*)—*Cyb.* II.
Still at Castle Espie 1921, *Carrothers*.
Antrim—Magheramorne 1897 (*Stewart in Herb.*)—*Cyb.* II.
R. rostellata Koch. Rare. *Fl.* 151, *Sup.* 203. DO, —, LD.
- Zannichellia palustris** L. aggr. Rare. *Fl.* 151. DO, AN, LD.
Antrim—Portmore Lough, probably the var. *repens* (*Davies*)—*W.B.E.C.* 1898.
Derry—Portstewart (*Knowles*)—*I.T.B.*
- Z. brachystemon** Gay. DO, —, —.
Down—Downpatrick (under aggr. in *Flora*) 1880 (*Stewart*); near Kirkcubbin (under aggr. in 1st Suppl.) 1890 (*Praeger*)—*Cyb.* II and *I.T.B.*
- Z. macrostemon** Gay. —, AN, —.
Antrim—Portmore 1898 (*Davies*); pond in Belfast Botanic Gardens 1900 (*Stewart*)—*Stewart MS.*
- Z. polycarpa* Nolte. Very rare. *Fl.* 151. DO, —, —.
Not reported recently from its only station, which is on reclaimed ground.

- Zostera marina** L. Common. *Fl.* 152. DO, AN, LD.
 var. **angustifolia** Hornem. DO, —, LD.
 Down—Common in Strangford Lough 1902 (*Praeger*)—*G.I.T.B.*
 Abundant in Strangford Lough opposite Greyabbey 1916 (*Waddell*)
 —*I.N.* xxvi, 12.
 Derry—Between Portrush and Black Rocks (as drift) 1918, *Wear*.
Z. nana Roth. Very rare. DO, —, —.
 Down—Strangford Lough between Mid Island and Greyabbey 1916
 (*Waddell*)—*I.N.* xxvi, 12. North end of Inner Bay at Dundrum
 1914—*B. M. Griffiths*.

ERIOCAULACEÆ.

- [*Eriocaulon septangulare* With. Error. *Fl.* 301. —, AN, —.]

CYPERACEÆ.

- Eleocharis acicularis** Brown. *Fl.* 154, *Sup.* 203. DO, AN, LD.
 Not rare.
 Antrim—Lough Beg (*Praeger*)—*I.T.B.* Still there (in drains) 1919,
Megaw. Near Selshan at Hog Park and Lady Bay, *Houston*.
E. palustris Br. Common. *Fl.* 153. DO, AN, LD.
E. uniglumis Link. Very rare. *Fl.* 153. DO, —, LD.
 Down—Salt marsh near Killough and Groomsport (*Davies*)—*I.N.* vii,
 245; ix, 219. Strand Lough at Killough (*Praeger*)—*I.N.* xi, 209.
 Derry—Magilligan 1895 (*Praeger*)—*I.T.B.*
E. multicaulis Sm. Not rare. *Fl.* 153. DO, AN, LD.
 Down—Rostrevor Mountain and Slieve Bingian 1808 (*Templeton*)—
Stewart MS. Saintfield (*Waddell*)—*I.T.B.* Marsh east of Ard-
 keen in Ards (*Praeger*)—*I.N.* xi, 204.
 Antrim—Foot of Lurigethan—*B.N.F.C.* iv, 528. Agnew's Hill 1896
 —*Stewart MS.* Common on Garron plateau 1920, *Praeger and*
Stelfox.
Scirpus pauciflorus Lightf. Rare. *Fl.* 155, *Sup.* 204. DO, AN, LD.
 Down—Bloody Bridge (*Waddell*)—*I.T.B.* Common in marshy ground
 in Lecale (*Praeger*)—*I.N.* xi, 204.
 Antrim—Colinward above Whitewell 1917. Cushendall, Lurigethan
 and Ardclinis 1918, *Megaw*.

- S. cæspitosus** L. Common. *Fl.* 155. DO, AN, LD.
- S. fluitans** L. Frequent. *Fl.* 156, *Sup.* 204. DO, AN, LD.
- S. Savii** Seb. and Maur. Not rare. *Fl.* 156, *Sup.* 204. DO, AN, LD.
Antrim—Near Carnlough 1898 (*Adams*)—*Stewart MS.*
- S. setaceus** L. Frequent. *Fl.* 156, *Sup.* 204. DO, AN, LD.
Down—St. John's Point 1902—*Stewart MS.*
Antrim—Slemish; dam near 2nd lock on Lagan—*Fl. Ulst.*; still near 2nd lock 1919, *G. E. C. Maconchy.* Garron plateau east of Crocknavar, *Stelfox and Wear.* Near Kenbane Head, *Foster.* Lady Bay near Selshan, *Houston.*
Derry—Lake side near Kilrea, *Houston.*
- S. lacustris** L. Frequent. *Fl.* 155, *Sup.* 204. DO, AN, LD.
- S. Tabernæmontani** Gmel. Rare. *Fl.* 155, *Sup.* 204. DO, AN, LD.
Derry—Still on Bann below Coleraine 1917, *Praeger.*
- S. maritimus** L. Frequent. *Fl.* 154, *Sup.* 203. DO, AN, LD.
Antrim—Selshan—*B.N.F.C.* 1915.
var. **compactus** Krock. DO, —, —.
Down—Ringfad near Killough 1902 (*Hanna*)—*Stewart MS.*
- S. sylvaticus** L. Frequent. *Fl.* 154, *Sup.* 204. DO, AN, LD.
Antrim—Lagan side near 2nd Lock—*Fl. Ulst.*; still abundant there in swamp 1919, *G. E. C. Maconchy.*
- S. rufus** Schrad. (as *Blysmus rufus* Link in *Flora*). DO, AN, LD.
Rare. *Fl.* 156, *Sup.* 204.
Down—Salt marsh beyond Seacliffe at Bangor—*Fl. Belf. Shore* W. from Bangor and at Tillysburn (*Millen*)—*Fl. Ulst.* Salt marsh at Killough (*Davies*)—*I.N.* vii, 245. Ballyhorgan and Killard in Lecale; frequent in Ards (*Praeger*)—*I.N.* xi, 209; xii, 264. Between Bangor and Groomsport 1917, *Megaw.*
Antrim—"In Co. Antrim but I forgot to notice its habitat"—*Wade Rav.* On salt and marshy ground occasionally covered by high water near Ballintoy 1797 (*Brown MS.*)—*Cyb. II*; still there in 1895 (*Bréanán*)—*I.N.* v, 27. Still at Cushendall 1918, *Megaw.*
Derry—Mouth of River Roe (*Leebody*)—*I.T.B.*

- Eriophorum vaginatum** L. Common. *Fl.* 157. DO, AN, LD.
- E. angustifolium** Roth. (= *E. polystachion* L.). DO, AN, LD.
 Very common. *Fl.* 157.
 var. **elatius** Koch. *Sup.* 204. DO, AN, —.
 Down—Bog at Ballygowan 1898 (*Milligan*)—*Stewart MS.*
 Antrim—Bog at Cookstown Junction 1896 (*Hanna*)—*Stewart MS.*
- E. latifolium** Hoppe. Very rare. *Fl.* 157. —, AN, —.
- Rhynchospora alba** Vahl. *Fl.* 153, *Sup.* 203. DO, AN, LD.
 Infrequent.
 Derry—Between Toome and Ballyronan—*Fl. Ulst.*
 var. **sordida**. Rare. *Fl.* 153, *Sup.* 203. DO, AN, —.
- Schoenus nigricans** L. Frequent. *Fl.* 152, *Sup.* 203. DO, AN, LD.
- Cladium Mariscus** Br. Very rare. *Fl.* 152, *Sup.* 203. DO, AN, —.
 Down—Near Strangford at lake on north side of White Hills and
 in marsh N.E. of Churchtown; three miles from Killough on
 Downpatrick road and in marsh S.E. of Lough Cowey (*Praeger*)
 —*I.N.* vi, 219; ix, 158; xi, 209; xii, 263. Still at Altnadua
 Lake 1919, *Bennett*.
- Carex dioica** L. Local. *Fl.* 157, *Sup.* 205. DO, AN, LD.
 Down—Mountains above Annalong 1900 (*Davies*)—*Stewart MS.*
 Antrim—Carnlough hills—*Stewart MS.* Colinward and The Flush,
 Wear. Frequent on Garron Plateau 1920, *Praeger and Stelfox*.
- [*C. Davalliana* Sm. Error. *Fl.* 303. DO, —, —.]
- C. pulcaris** L. Common. *Fl.* 157. DO, AN, LD.
- C. pauciflora** Lightf. One area. *Sup.* 205. —, AN, —.
 Antrim—Mountain lakelet above Carnlough 1898 (*Adams*)—*I.N.*
 viii, 58. Plentiful on margin of Lough Fine above Carnlough
 1899 (*Adams*)—*Stewart MS.* (These possibly refer to one
 station). About 20 stations and often in abundance on Garron
 Plateau in area enclosed by line Parkmore—Loughnacally—
 The Trosks—Craigfad Loughs—Cranny Lough—Lough Garve
 —and Parkmore (*Praeger and Stelfox*)—*I.N.* xxix, 95.
- C. disticha** Huds. Frequent. *Fl.* 157, *Sup.* 205. DO, AN, LD.

- C. arenaria** L. Frequent. *Fl.* 158, *Sup.* 205. DO, AN, LD.
 Down—Refound near Giant's Ring, opposite Ballylesson Nat. School 1896, and in bog by Lagan one mile above Lisburn in great quantity 1901 (*Davies*)—*I.N.* v. 270; xi, 218. Abundant in marshes throughout Lecale, and in Ards S.E. of Lough Cowey (*Praeger*)—*I.N.* xi, 209; xii, 263. Very abundant at Ballyalloy 1914, *Bennett*.
 Antrim—Marsh near junction of Lambeg and Lisburn roads with Derriaghy road 1902 (*Davies*)—*I.N.* xi, 218.
 Derry—Kilrea 1894 (*Knowles*)—*Stewart MS.*
- C. paniculata** L. Frequent. *Fl.* 159, *Sup.* 205. DO, AN, LD.
 Down—In Lecale at Churchtown near Strangford, Tobermoney, Bright and Billee; and marsh N.E. of Portaferry (*Praeger*)—*I.N.* xi, 209; xii, 264.
- C. vulpina** L. Frequent. *Fl.* 158, *Sup.* 205. DO, AN, LD.
 Antrim—Shore of Lough Neagh near Three Islands 1922, *Stelfjox*.
 var. *littoralis* Nolte. DO, —, —.
 Down—Shore of Strangford Lough (*Druce*)—*I.N.* xix, 11.
- C. muricata** L. Rare. *Fl.* 158, *Sup.* 205. —, AN, —.
 Antrim—Roadside near basalt quarry on Hannahstown road (*Hanna*)—*B.N.F.C.* v, 283. Junction of Hannahstown and Whiterock roads, *Carrothers*. Plentiful in fields N. of Graymount and N.W. of Staghall dairy farm, and sparingly at several other places in the neighbourhood of Greencastle, *Wear*. Still at Macedon 1919, *Bennett*.
 The Macedon station is being converted into building plots. All the local stations are within a few miles of Belfast. They all refer to *C. contigua* Hoppe. The Giant's Causeway record of Watt (*I.T.B.*) appears to be referable to *C. vulpina*.
- C. divulsa** Good. Very rare. DO, AN, —.
 Down—Between Blackstaff and Saltwater bridges south of Kirkcubbin 1903 (*Praeger*)—*I.N.* xii, 264. Killyleagh, and a few plants on Bradshaw's Brae near Newtownards 1920, *Bennett*.
 Antrim—South end of Island Magee 1921, *Megaw*.
- C. echinata** Murr. Very common. *Fl.* 159. DO, AN, LD.
- C. remota** L. Common. *Fl.* 159. DO, AN, LD.

- [*C. axillaris* Good. Error. *Fl.* 303. DO, —, —.]
- C. elongata** L. One station. *Fl.* 159, 303. —, AN, —.
Still awaits re-finding at Lough Neagh.
- C. curta** Good. (= *C. canescens* L.). *Fl.* 160, *Sup.* 205. DO, AN, LD.
Frequent.
- C. ovalis** Good. (= *C. leporina* L.). *Fl.* 160, *Sup.* 206. DO, AN, LD.
Frequent.
- C. Guxbaumii** Wahl. One station. *Fl.* 161. —, AN, —.
Not seen since 1886. See *I.N.* xxix, 104.
- C. Hudsonii** Ar. Bennett (= *C. stricta* Good.). DO, AN, LD.
Rare. *Fl.* 160, *Sup.* 206.
Down—Marsh two miles east of Dundrum 1902 (*Praeger*)—*I.N.* xi, 209.
Antrim—Portmore Park “among the bushes on the southern side of the Isthmus,” growing with Marsh Fern—*Templeton's MS. Journal*. Selshan Harbour (*B.N.F.C.*)—*I.N.* xxiv, 153.
Selshan Wood 1919, *Stelfox and Wear*. Shanport near Lurgan 1919, *Bennett*.
Derry—Lough Beg (*Druce*)—*I.T.B.*
- C. acuta** L. Rare. *Fl.* 160, *Sup.* 206. DO, AN, LD.
Down—Still at Dromore 1910—*B.N.F.C.* v, 364.
Antrim—“Dunadry, Co. Antrim, June 1881” (*Vowell Collection in Herb. Nat. Mus. Dublin*)—*Stelfox*. Selshan Harbour (*Praeger and Stelfox*)—*I.N.* xxix, 95. Still at Portmore, 1919, *Megaw*.
- C. rigida** Good. Very rare. *Fl.* 161, *Sup.* 206. DO? —, LD.
Derry—Dart Mountain 1892 (*Praeger*)—*I.T.B.*
- C. aquatilis** Wahl. var. *elatior* Bab. Rare. *Sup.* 206. —, AN, —.
Antrim—Braid River near Ballymena and both sides of the Main River from Hillmount to Slatt Bridge (*Knowles*)—*B.N.F.C.* iv, 433. Main River near Kellswater station (probably the *C. acuta* record “Ballindraid” of D. Moore, which his herbarium shows belongs to *C. aquatilis*), *Tomlinson*. Main River at Glarryford station (*Praeger and Stelfox*)—*I.N.* xxix, 95.

- C. vulgaris** Fries. (= *Goodenovi* Gay). *Fl.* 161, *Sup.* 206. DO, AN, LD.
Common.
- var. **juncella** (Fries). DO, AN, —.
Down—By lake in Hillsborough Park 1894 (*Waddell*)—*W.B.E.C.* 1898.
Antrim—Ballintoy 1895 (*Brenan*)—*B.N.F.C.* v, 27. Frequent
—*Praeger and Stelfox*.
- var. **chlorostachya** Aschers. —, —, LD.
Derry—Formoyle 1912 (*Druce*)—*I.N.* xxi, 238.
- var. **strictiformis** Kuk. —, AN, —.
Antrim—Toomebridge (*Druce*)—*I.N.* xix, 11.
- var. **elator** Lange, forma **angustifolia**. —, AN, —.
Antrim—Harbour Island 1898 (*Druce*)—*I.N.* viii, 199.
- C. glauca** Scop. Very common. *Fl.* 163, *Sup.* 207. DO, AN, LD.
- C. irrigua** Sm. One area. —, AN, —.
Antrim—Bog at head of Glenariff near Parkmore 1901 (*Miss Ellinor D'Arcy*)—*I.N.* x, 165. In broad drain $\frac{2}{3}$ mile E.N.E. of Evish Lough; abundant on S.E. side of Lough Garve and in wet bog $\frac{1}{4}$ mile S.E. of Cranney Lough (all on Garron Plateau), (*Praeger and Stelfox*)—*I.N.* xxix, 95.
- C. limosa** L. Rare. *Fl.* 162, *Sup.* 206. DO, AN, LD.
Antrim—Bog by lake at Fairhead (*Templeton's MS. Journ.*)—*Waddell*. Sluggan Moss (*Bell*)—*B.N.F.C.* vi, 204. East of Crocknavar on Garron Plateau 1914, *Stelfox and Wear*. Sharvogue's Bog near Kellswater station, *Megaw*. Common on Garron Plateau; and still abundant at Sluggan Bog and Lough Naroon 1920 (*Praeger and Stelfox*)—*I.N.* xxix, 95.
- C. pilulifera** L. Frequent. *Fl.* 163, *Sup.* 207. DO, AN, LD.
- C. præcox** Jacq. Frequent. *Fl.* 163, *Sup.* 207. DO, AN, LD.
- C. pallescens** L. Rather rare. *Fl.* 162, *Sup.* 206. DO, AN, LD.
Down—Hillsborough Park 1919, *Foster*. Campbell College 1920, *Bennett*.
Antrim—Glenariff 1895—*Stewart MS.* Cullybackey (*Knowles*)—*I.T.B.* Carr's Glen, *Wear*. Ahoghill and near Lough Beg below Toome, *Megaw*. Colin Glen, *Bennett and Megaw*.
Derry—Ness Glen 1809 (*Templeton*); Garvagh Glen 1901 (*Stewart*)—*Stewart MS.*

- C. panicea** L. Very common. *Fl.* 162. DO, AN, LD.
- C. pendula** Huds. Rare. *Fl.* 162, *Sup.* 207. DO, AN, —.
 Down—Hillsborough demesne, probably introduced, *Foster and Wear*.
 Antrim—Colin Glen 1808 (*Templeton*)—*Stewart MS.* Glenavy River 1878—*Corry MS.* Upper part of Bog Meadows south of Stockman's Lane 1908, *Wm. Porter*.
- C. strigosa** Huds. Rare. *Fl.* 162, *Sup.* 207. DO, AN, —.
 Antrim—Colin Glen 1808 (*Templeton*)—*Stewart MS.* Still there 1918, *Bennett and Megaw*. Carr's Glen (*Currothers*)—*B.N.F.C.* vii, 9. Still at Shane's Park (near Randalstown) 1919, *Megaw*.
- C. sylvatica** Huds. Common. *Fl.* 165. DO, AN, LD.
- C. lævigata** Sm. Rather rare. *Fl.* 165, *Sup.* 207. DO, AN, LD.
 Down—Still at Hillsborough Park (by lake) 1917, *Wear*. Near Hillsborough station (by stream from park), *Miss A. B. Foster*.
 Antrim—Cullybackey (*Knowles*)—*I.T.B.* Still on Lagan near Belfast in field below 2nd lock 1919, *G. E. C. Maconchy*.
 Derry—Valley of the Roe near Limavady—*B.N.F.C.* iv, 271.
- C. binervis** Smith. Frequent. *Fl.* 164, *Sup.* 207. DO, AN, LD.
- C. distans** L. Frequent. *Fl.* 164, *Sup.* 207. DO, AN, LD.
- [*C. punctata* Gaud. Error. *Fl.* 303. DO, —, —.]
- C. Hornschuchiana** Hoppe. Frequent. *Fl.* 164, *Sup.* 207. DO, AN, LD.
- C. extensa** Good. Not rare. *Fl.* 164, *Sup.* 207. DO, AN, LD.
 Down—Between Crawfordsburn and Bangor—*Fl. Ulst.* Frequent in Ards (*Praeger*)—*I.N.* xii, 264.
 Antrim—Belfast Lough (*Moore*)—*Cyb. I.* Portrush 1909, *Wear*. Still at Cushendall 1918, *Megaw*. Shore of Lough Neagh at mouth of Six-mile-water 1916-17, *Bennett*.
 Derry—Bellarena (*Leebody*)—*I.T.B.* Shore east of Portstewart 1917, *Megaw*.
- var. **latifolia** Boeck. DO, —, —.
 Down—Shore of Strangford Lough (*Druce*)—*I.N.* xix, 11.

- C. flava** L. Common. *Fl.* 163. DO, AN, LD.
 var. **leptocarpa** (Tausch). *Fl.* 163. —, AN, —.
 Antrim—Near Harbour Island (*Druce*)—*I.N.* viii, 199.
 The Irish plant is usually this variety—*Cyb. II.*
- var. **œdocarpa** And. —, AN, LD.
 Antrim—Lough Beg 1898 (*Druce*)—*I.N.* viii, 199.
 Derry—Lough Beg 1898 (*Druce*)—*G.I.T.B.*
- var. **cyperoides** Marss. —, —, LD.
 Derry—By shore from Toome to Ballyronan (*Stewart*)—*Stewart MS.*
- C. Ederi** Retz. Rare. *Fl.* 163, *Sup.* 207. DO, AN, LD.
 “The sedge so called by British botanists is not the right plant but *C. flava* var. *cyperoides* Marss. . . . My Toome plant is exactly *cyperoides*.”—*Stewart MS.* Accordingly it has been transferred thereto.
 Down—By Lough Neagh near Lurgan 1899 (*Hanna*)—*Stewart MS.*
- forma **canaliculata** Callme.
 Antrim—Toomebridge by Lough Neagh (*Druce*)—*I.N.* xix, 11.
- C. filiformis** L. Rare. *Fl.* 303, *Sup.* 208. DO, AN, —.
 Down—North-west of White Hills near Strangford 1897; and abundant in marshes throughout Lecale (*Praeger*)—*I.N.* vi, 219; xi, 209. Sparingly over several acres of wet bog at 1,000 ft., head of valley of Rowan-tree River, Mourne Mountains 1921 (*Praeger*)—*I.N.* xxx, 102.
 Antrim—Covers acres of wet bog on Garron Plateau in area enclosed by line Parkmore—Loughnacally—Loughnatrosk—Lough Garve—and Parkmore, fruiting only in water and on lake margins (*Praeger and Stelfox*); and site of Cleggan Lough near Broughshane (*Stelfox*)—*I.N.* xxix, 95.
- C. hirta** L. Frequent. *Fl.* 165, *Sup.* 208. DO, AN, LD.
- C. Pseudo-cyperus** L. Very rare. *Fl.* 165. —, AN, —.
 Antrim—In deep drains south of Portmore Lough (*Tomlinson*)—*I.N.* xix, 103.
- C. paludosa** Good. Very rare. *Fl.* 166, *Sup.* 208. DO, —, LD.
 Down—“In a little lake or old moss hole about two miles south-east of Kilmore (*Templeton's MS. Journal*); it is Kilmore near Crossgar that is referred to—*Waddell*. Marshy places by Lough Neagh shore 1900 (*Davies*)—*I.N.* ix, 219.

- C. riparia** Curtis. Rare. *Fl.* 166, *Sup.* 208. DO, AN, LD.
 Down—Belvoir Park 1900 (*Hanna*); Groomsport 1901 (*S. A. Moore*)—*Stewart MS.* Strand Lough near Killough (*Praeger*)—*I.N.* ix, 158; xi, 210. Still at Kilmore in drains alongside canal 1917, *Houston*.
 Antrim—Lissanoure Castle—*B.N.F.C.* 1908. Still at Portmore Lough (west side) 1917, *Houston*. South of Portmore 1921, *Bennett and Chase*. Selshan Harbour (*Praeger and Stelfox*)—*I.N.* xxix, 95.
- C. ampullacea** Good. (*C.=rostrata* Stokes). DO, AN, LD.
 Common. *Fl.* 166, *Sup.* 208.
 var. **robusta** Sonder. *Sup.* 208. DO, —, —.
 var. **elatio**r Boott. DO, AN, —.
 Down—Hillsborough Park 1919, *Megaw*.
 Antrim—Gawley's Gate 1919, *Stelfox*. Portmore Lough 1919, *Megaw*.
- C. vesicaria** L. Frequent. *Fl.* 166, *Sup.* 208. DO, AN, LD.

GRAMINEÆ.

- [*Phalaris canariensis* L. Casual. *Fl.* 289. DO, AN, LD.]
- P. arundinacea** L. Common. *Fl.* 167. DO, AN, LD.
- Anthoxanthum odoratum** L. *Fl.* 167, *Sup.* 208. DO, AN, LD.
 Very common.
- Alopecurus geniculatus** L. Common. *Fl.* 168. DO, AN, LD.
- A. pratensis** L. *Fl.* 167, *Sup.* 208. DO, AN, LD.
 Frequent, locally abundant.
- Milium effusum** L. Rare. *Fl.* 168, *Sup.* 209. DO, AN, LD.
 Down—Killeen Glen 1920, *Bennett*.
 Antrim—Cullybackey (*Knowles*)—*Stewart MS.*
 Derry—Wood at Carrickhue 1896 (*Leebody*)—*B.N.F.C.* iv, 433.
 Gore's Glen near Eglinton 1898 (*Leebody*)—*Stewart MS.*
- Phleum pratense** L. Very common. *Fl.* 167. DO, AN, LD.

- P. arenarium** L. Rare, locally abundant. *Fl.* 167. DO, AN, LD.
 Down—Tyrella (*Praeger*)—*I.T.B.* Benderg—*B.N.F.C.* v, 11.
 Antrim—Still at Portrush 1920, *Wear*.
 Derry—Bellarena (*Leebody*)—*I.T.B.* Still at Magilligan (Benone) 1917, *Praeger*.
- Agrostis canina** L. Frequent. *Fl.* 169, *Sup.* 209. DO, AN, LD.
 “As this grass has been found fairly common, the note in *Flora* is unnecessary, and we may accept Templeton’s record without reserve. S.A.S. 1898”—*Stewart MS.*
 var. **mutica** Doell. —, AN, —.
 Antrim—Sharvogues Bog near Kellswater station 1917, *Megaw*.
- A. alba** L. Common. *Fl.* 170, *Sup.* 209. DO, AN, LD.
 var. **stolonifera** (L.). Frequent. *Fl.* 170. DO, AN, LD.
 var. **maritima** Meyer. DO, —, —.
 Down—N.W. of Portaferry 1903 (*Praeger*)—*I.N.* xii, 264.
 var. **coarctata** (Hoffm.). —, AN, LD.
 Antrim—Harbour Island in Lough Neagh (*Druce*)—*B.E.C.* 1898.
 Lough Beg (*Druce*)—*I.N.* viii, 199.
 Derry—Toomebridge (*Druce*)—*B.E.C.* 1898.
- A. vulgaris** With. Common. *Fl.* 170, *Sup.* 209. DO, AN, LD.
 var. **pumila** (L.). Not rare. *Fl.* 170, *Sup.* 209. DO, AN, LD.
 Antrim—Between Toomebridge and Lough Beg, at Loopagh near Cullybackey, and Garron Head above Galboly, *Megaw*.
 var. **aristata** (Parn.). —, AN, —.
 Antrim—Gravelly shore of Lough Neagh at the Three Islands 1900 —*Stewart MS.*
 var. **diffusa** Linton. DO, —, —.
 Down—Peaty mountain-side near Castlewella 1897 (*Waddell*)—*W.B.E.C.* 1898. “I have only seen this form from the drier parts of Hants peat moss, and with its spreading stems and dwarf habit it might be distinguished as var. *diffusa*.”—*E. F. Linton*.
- Calamagrostis Epigeios** Roth. *Fl.* 169, *Sup.* 209. —, —, LD.
 Very rare.
 Derry—Refound at Formoyle Hill 1895 (*Knowles and Praeger*)—*B.N.F.C.* iv, 433.

- C. stricta** Nutt. var. **Hookeri** (Syme). —, AN, LD.
 Very rare. *Fl.* 169, *Sup.* 209.
 Antrim—Grove by shore at Massereene Park 1906 (*Davies*)—*Stewart MS.*
- [*C. lanceolata* Roth. Error. *Fl.* 304. —, AN, —.]
- Psamma arenaria** R. & S. Common on coast. *Fl.* 168. DO, AN, LD.
- Aira caryophyllæa** L. Common. *Fl.* 171. DO, AN, LD.
- A. præcox** L. Common. *Fl.* 171, *Sup.* 210. DO, AN, LD.
- Deschampsia cæspitosa** Beauv. (= *Aira cæspitosa* L.). DO, AN, LD.
 Common. *Fl.* 170.
- D. flexuosa** Trin. (= *A. flexuosa* L.). *Fl.* 170, *Sup.* 210. DO, AN, LD.
 Frequent.
- Holcus mollis** L. Frequent. *Fl.* 170, *Sup.* 209. DO, AN, LD.
- H. lanatus** L. Very common. *Fl.* 170, *Sup.* 209. DO, AN, LD.
- Trisetum flavescens** Beauv. *Fl.* 171, *Sup.* 210. DO, AN, LD.
 Rather rare.
 Down—Ormeau Park near riverside, *Wear.* Campbell College 1920, *Bennett.*
 Antrim—Woodburn (*Hanna*); near Cookstown Junction (*Adams*); Hannahstown and Whitewell quarry (*Stewart*)—*Stewart MS.*
 By the canal near Moira, *S. A. Moore.* Still at Whitewell in new Bellevue Gardens, 1915, *Wear.* Ballee bog near Ballymena and slopes of Glenariffe on north side, *Megaw.* Collinward 1915, *Bennett.*
- Avena pubescens** Huds. Not rare. *Fl.* 171, *Sup.* 210. DO, AN, LD.
 Down—Killough 1920, *Bennett.*
 Antrim—Tullyhill near Ahoghill, *Megaw.* Hill west of Glarryford, above Whitewell and in Crow Glen, *Wear.*
 Derry—Errigal Glen 1901, *Stewart*—*Stewart MS.*
- [*A. pratensis* L. Error. *Fl.* 304. —, AN, —.]
- [*A. strigosa* Schreb. *Fl.* xxxi, *Sup.* 210. DO, AN, LD.]
- [*A. fatua* L. *Fl.* 304, *Sup.* 210. —, AN, —.]

- Arrhenatherum avenaceum** Beauv. (= *A. elatius* L.). DO, AN, LD.
Very common. *Fl.* 172.
- Triodia decumbens** Beauv. Frequent. *Fl.* 172, *Sup.* 210. DO, AN, LD.
- Phragmites communis** Trin. *Fl.* 168, *Sup.* 209. DO, AN, LD.
Frequent.
- Cynosurus cristatus** L. Very common. *Fl.* 176. DO, AN, LD.
- Koeleria cristata** Pers. Rather rare. *Fl.* 172, *Sup.* 210. DO, AN, LD.
Down—Frequent in Lecale and Ards (*Praeger*)—*I.N.* xi, 210 ; xii, 264.
Antrim—Portrush (*Druce*)—*I.N.* viii, 199. Brown's Bay, Island Magee (*Waddell*)—*W.B.E.C.* 1908. Plentiful on Ballycastle golf links, *Wear*.
Derry—Black Rocks near Portrush, *Wear*.
- Molinia cærulea** Moench. Frequent. *Fl.* 173, *Sup.* 211. DO, AN, LD.
- Catabrosa aquatica** Beauv. *Fl.* 176, *Sup.* 211. DO, AN, LD.
Frequent.
Down—Kinnegar and frequent in Lecale and Ards (*Praeger*)—*I.N.* xi, 201 ; xii, 264. Near Campbell College 1921, *Bennett*.
Antrim—Dam near second lock on Lagan, *Fl. Ulst.* ; still there 1918, *Bennett*. Blackhead (*Stewart*)—*Corry MS.* Garry bog near Ballymoney, *Megaw*.
- var. **littoralis** Parn. DO, —, —.
Down—Sandy shore below Tyrella 1902 (*Praeger*)—*I.N.* xi, 210.
- Melica uniflora** Retz. Frequent. *Fl.* 172, *Sup.* 210. DO, AN, LD.
Antrim—By river below Glenavy—*B.N.F.C.* iv, 586. Abundant in wood above new Bellevue Gardens near Whitewell, on east side of Carnmoney Hill and at Cullybackey, *Wear*.
Derry—Valley of the Roe near Limavady—*B.N.F.C.* vi, 258.
- [*M. montana* Huds. (as *M. nutans* L. in *Flora*). —, AN, —.]
Error. *Fl.* xxxiii.
- Dactylis glomerata** L. Very common. *Fl.* 176. DO, AN, LD.
- Briza media** L. Frequent. *Fl.* 175, *Sup.* 211. DO, AN, LD.

- Poa annua** L. Very common. *Fl.* 173, *Sup.* 211. DO, AN, LD.
- [*P. alpina* L. Error. *Fl.* 304. —, —. LD.]
- P. nemoralis** L. Rare. *Fl.* 173. DO, AN, LD.
 Down—On walls at Lord Kilmurray's 1808 (*Templeton*): "This is Knockchree"—*Stewart MS.* Ivy Lodge, Newry (*Lett*); Saintfield (*Waddell*)—*I.N.* viii, 142. Stormont 1899 (*Stewart*): Clandeboy 1902 (*Præger*)—*Stewart MS.* King's Castle at Ardglass and Myra Castle (*Præger*)—*I.N.* xi, 210; *I.T.B.* Lenaderg (*Davies*)—*I.N.* xii, 272. Greyabbey churchyard wall (! Hackel) (*Waddell*)—*B.E.C.* 1913. Rockfield near Dundonald, *Wear.* Campbell College, 1920, *Bennett*.
 Antrim—Muckamore 1893 (*Waddell*)—*I.N.* viii, 113. On Dublin Road near Lisburn (*Davies*)—*I.N.* xi, 213. Ballymena (*Knowles*)—*I.T.B.* Lissanoure Castle—*B.N.F.C.* 1908. Galgorm (roadside and demesne); between Drumbridge and Malone Road; and still at Garron Tower 1918, *Megaw*.
- var. **coarctata** Gaud. DO, —, —.
 Dawn—Abundant on wall at Greyabbey churchyard 1903 (*Præger*)—*I.N.* xii, 264.
- P. compressa** L. Rare. *Fl.* 174. DO, AN, LD.
 Down—Wall near Hillsborough church (gone in 1920—*Foster*) and Knocknagor near Laurencetown station (*Davies*)—*I.N.* viii, 224; xi, 181. Debris in quarry between Holywood town and waterworks 1918, *Megaw*.
 Antrim—Lisburn near site of old castle, and Ballyvorally near Glenavy (*Davies*)—*I.N.* viii, 224; ix, 219. Wall near Doagh (*Hanna*)—*I.N.* ix, 269. Near Collinward 1919, *Bennett*.
 Derry—About half a mile north of "old walls" of Derry (*Leebody*)—*I.N.* ix, 232.
- P. pratensis** L. Very common. *Fl.* 174, *Sup.* 211. DO, AN, LD.
- var. **subcœrulea** (Sm.). DO, AN, —.
 Down—Newcastle (*Druce*)—*I.N.* xxi, 238.
 Antrim—Portrush (*Druce*)—*I.N.* xxi, 238.
- P. trivialis** L. Very common. *Fl.* 174. DO, AN, LD.
- Glyceria fluitans** R.Br. Common. *Fl.* 174, *Sup.* 211. DO, AN, LD.

- G. plicata** Fries. Very rare. DO, —, LD.
 Down—Marshes of Victoria Park 1902 (*Lett and Waddell*)—*B.E.C.* 1902. Carrstown Burn near Millin Bay in Ards (*Praeger*)—*I.N.* xii, 264.
 Derry—Ditch at Formoyle Hill 1895 (*Praeger*)—*B.N.F.C.* iv, 433.
- G. aquatica** Smith. Very rare. *Fl.* 174. DO, AN, —.
 Antrim—"In a drain at Craunmore, sparingly, planted there by Templeton, I think," 1895—*Stewart MS.*
- G. maritima** M. & K. (= *Sclerochloa maritima* Lindl.). DO, AN, LD.
 Common. *Fl.* 174.
- G. festucaeformis** Heynh. Strangford Lough mainly. DO, —, —.
 Down—Shore between Kilkeel and Annalong 1890; on stony shores of Strangford Lough from Marlfield Bay to Old Man's Head, north of Blackstaff River near Kirkenubbin, east shore of Ringhaddy peninsula and near quay, from Killyleagh to Delamont (abundant); and found on every island of Strangford Lough visited where conditions were favourable, namely, two or three inches of gravel resting on drift and grazing cattle absent; also on rocks on shore south of Cloghy Bay (*Praeger*)—*I.N.* xii, 255; xiii, 225, 259; xiv, 19, 169. A little north-west of Portaferry (*Waddell*)—*I.N.* xiv, 19; also 1918—*Praeger*.
- G. distans** Wahlb. (= *Sclerochloa distans* L.). DO, AN, LD.
 Frequent. *Fl.* 175, *Sup.* 211
 [*Festuca procumbens* Kunth (= *Sclerochloa procumbens* Beauv.). —, AN, —.
 Casual. *Fl.* 174].
- F. rigida** Kunth (= *S. rigida* Link). *Fl.* 175, *Sup.* 211. DO, AN, —.
 Rare.
 Down—Lisburn and on wall near Banbridge station (*Davies*)—*I.N.* xi, 181, 184, 322. Wall between Downpatrick and Ballyalton and wall at Holywood station, *Wear*. On railway at Killough 1920, *Bennett*.
- F. rottbœlloides** Kunth (= *S. loliacea* Woods). DO, AN, LD.
 Rather rare. *Fl.* 175, xxxiii, *Sup.* 211.
 Down—Frequent in Ards (*Praeger*)—*I.N.* xii, 264.
 Antrim—Still at Ballycastle Bay (*Travis*)—*B.E.C.* 1913. Sea wall at White Rocks near Portrush, *Wear*. Still at Rathlin 1913, Olderfleet 1913, and Portrush 1920, *Wear*.
 Derry—Castlerock 1888 (*Praeger*)—*I.T.B.*

- [*F. uniglumis* Soland. Error. *Fl.* 304. DO, AN, —.]
- [*F. Myuros* L. Error. *Fl.* 304. —, AN, LD.]
- F. sciuroides** Roth. Frequent. *Fl.* 176, xxxiv, *Sup.* 211. DO, AN, LD.
- F. ovina** L. Common. *Fl.* 177, *Sup.* 211. DO, AN, LD.
 var. *tenuifolia* Sibth. *Sup.* 211. DO, —, —.
 var. *duriuscula* L. *Sup.* 212. —, AN, —.
- F. rubra** L. Common. *Fl.* 177, *Sup.* 212. DO, AN, LD.
- F. sylvatica** Vill. Very rare. *Fl.* 177, *Sup.* 212. DO, AN, LD.
 Down—Rademon 1899 (*Hanna*)—*Stewart MS.*
 Antrim—Carnlough glen below waterfall (*Praeger and Stelfox*)—*I.N.* xxix, 95.
 Derry—Errigal Banks 1894 (*Praeger*)—*I.T.B.*
- F. elatior** L. Common. DO, AN, LD.
- F. pratensis** Huds. Common. *Fl.* 178. DO, AN, LD.
- F. elatior** × **Lolium perenne** (*F. loliacea* Huds.). *Fl.* 178. —, AN, —.
 Antrim—Field near sea below Whiteabbey 1917, *Wear.* Mouth of Sixmilewater 1918, *Megaw.*
- F. arundinacea** Schreb. Rare. *Fl.* 177, *Sup.* 212. DO, AN, LD.
 Down—Several islands in Strangford Lough 1918, *Praeger.*
 Antrim—Lane near sea above Greenisland 1918, *Wear.* Loopagh near Cullybackey 1917, *Megaw.* Harbour Island near Toome (*Praeger and Stelfox*)—*I.N.* xxix, 95. Mouth of Sixmilewater 1918, *Bennet.*
 Derry—Castlerock 1890 (*W. Kennedy*)—*Stewart MS.*
- Bromus giganteus** L. (= *Festuca gigantea* Vill.). DO, AN, LD.
 Frequent. *Fl.* 177, *Sup.* 212.
 Antrim—Abundant in Carnlough Glen—*Stewart MS.* Between Moira and Aghalee and in lane near Portmore lake 1919, *Megaw.*
- var. **triflorus** Syme. *Fl.* 177. —, AN, —.
 Antrim—Lower Colin Glen, sparingly with type 1901—*Stewart MS.*
- B. asper** Murr. Common. *Fl.* 178. DO, AN, LD.

- B. sterilis** L. Rare. *Fl.* 178, *Sup.* 212. DO, AN, LD.
Down—Ballynoe, Tyrella, Rossglass, Killough and Portaferry (*Praeger*)
I.N. xi, 210; xii, 261. Still at Marino 1922, *Praeger*. Island
Mahee near holy well 1919, *Wear*. Cherryvalley near Comber,
1918, *Bennett*. Near Knock 1921, *Bennett and Chase*.
Derry—Kilrea (*Leebody*)—*I.T.B.*
- [*B. secalinus* L. Casual. *Fl.* 289, *Sup.* 212. DO, AN, LD.
Antrim—Near Ahoghill sparingly in field 1918, *Megaw*.]
- B. racemosus** L. Frequent. *Fl.* 178, *Sup.* 212. DO, AN, LD.
Down—Rathfriland (*Waddell*)—*W.B.E.C.* 1900.
- B. mollis** L. Common. *Fl.* 178. DO, AN, LD.
- [*B. arvensis* L. Casual. *Fl.* 289. —, AN, —.]
- Brachypodium sylvaticum** R. & Schult. *Fl.* 178. DO, AN, LD.
Common.
- Lolium perenne** L. Very common. *Fl.* 180. DO, AN, LD.
- [*L. italicum* Braun. Escape. *Fl.* 289. DO, AN, LD.]
- [*L. linicola* Sonder. Escape. *Fl.* 289. DO, —, LD.]
- [*L. temulentum* L. Rare. *Fl.* 180, *Sup.* 213. DO, AN, LD.
var. *arvense* (With.). *Fl.* 180. DO, AN, LD.]
- Agropyron caninum** Beauv. (= *Triticum caninum* L.). DO, AN, —.
Rare. *Fl.* 179, *Sup.* 212.
Antrim—Craigbilly 1900 (*Knowles*)—*I.T.B.* Whiterock Road near
Belfast 1919, *Megaw*.
- A. repens** Beauv. (= *T. repens* L.). Common. *Fl.* 179. DO, AN, LD.
var. **aristatum** Doell.
Down—Strangford Lough opposite Shark Island 1904 (! *Ar. Bennett*)
(*Praeger*)—*I.N.* xiii, 225.
- [*A. pungens* R. & S. (= *T. pungens* Persoon). Error. *Fl.* 304. DO, —, —.]
- A. junceum** Beauv. (= *T. junceum* L.). *Fl.* 179, *Sup.* 213. DO, AN, LD.
Frequent.

- A. acutum** Roem. & Schult. (= *T. acutum* DC.). *Sup.* 213. DO, AN, — , Rare.
- Lepturus filiformis** Trin. Rare. *Fl.* 179, *Sup.* 213. DO, AN, LD.
Down—Shore west of Rostrevor 1900 (*Stewart*)—*Stewart MS.* Kilmough, frequent in Ards, and coast of Strangford Lough inside Lanches (*Praeger*)—*I.N.* xi, 210; xii, 264; xiii, 225. Groomsport, *Megaw*. Still in Victoria Park 1900 (*Waddell*)—*W.B.E.C.* 1900.
- Nardus stricta** L. Common. *Fl.* 168, *Sup.* 208. DO, AN, LD.
- Hordeum sylvaticum** Huds. One station. —, AN, — .
Antrim—On rocks overhanging river in glen near Carnlough 1898 (*Adams*)—*I.N.* viii, 58. Not seen since—see *I.N.* xxix, 99.
- H. secalinum** Schreb. (= *H. pratense* Huds.). DO, AN, — .
Very rare. *Fl.* 179.
Extinct—sites now built over.
- [*H. murinum* L. Casual. *Fl.* 289, *Sup.* 213. DO, AN, —.]
- Elymus arenarius* L. Very rare. —, AN, — .
Antrim—Ballycastle old harbour abundant 1912 (*Praeger*)—*I.N.* xxi, 179. White Rocks near Portrush sparingly just above high water mark 1915, and a fine colony close to Portrush 1917, *Wear*.
- FILICES.**
- Hymenophyllum tunbridgense** Sm. *Fl.* 188, *Sup.* 216. DO? AN, — .
Very rare.
Antrim—Glendun (*Templeton's MS Journal*)—*Waddell*. This may have been either of the two species as they had not then been distinguished, and both have been found there since.
- H. unilaterale** Bory. Rare. *Fl.* 189, *Sup.* 216. DO, AN, LD.
Down—Still at Tollymore Park 1911, *Tomlinson*.
Antrim—Bottom of a chasm on summit of Fairhead (*Praeger*)—*I.N.* vi, 301. Still at Glenariffe, plentiful 1901 (*D'Arcy*)—*I.N.* x, 192.
Derry—Ligovallon Pot between Garvagh and Dungiven 1913, *Houston*.
- [*Adiantum Capillus-Veneris* L. Error. *Fl.* 305, *Sup.* 216. DO, AN, —.]
- Pteris aquilina** L. Very common. *Fl.* 188, *Sup.* 216. DO, AN, LD.

Cryptogramme crispa Br. Very rare. *Fl.* 183, *Sup.* 214. DO, AN, LD.
Down—Hillsborough Park (*Foster*)—*I.N.* xii, 36. Apparently self-sown, but impossible as a permanent habitat.

Antrim—Among fallen rocks below Fairhead 1897 (*D'Arcy*)—*Cyb.* II.
Still on Slievenance 1920, *Bennett*. One clump on N. side and another on S.E. face of Big Trosk at 1,100—1,150 ft. (*Praeger and Stelfox*)—*I.N.* xxix, 95. A clump on a dry-built wall at 900 ft. by Pollan Burn near Carnlough 1921 (*Praeger*)—*I.N.* xxx, 80.

Blechnum Spicant With. Common. *Fl.* 188, *Sup.* 216. DO, AN, LD.

[*Asplenium fontanum* Bernh. Error. *Fl.* 305. —, AN, —.]

A. Adiantum-nigrum L. Frequent. *Fl.* 186, *Sup.* 215. DO, AN, LD.

var. **acutum** (Bory). Very rare. *Fl.* 186, *Sup.* 215. DO, —, —.
See *Praeger* in *I.N.* xxviii, 13.

A. marinum L. Frequent. *Fl.* 187, xxxiii, *Sup.* 216. DO, AN, LD.

Down—North of Ardglass, one clump (*Praeger*)—*I.N.* xi, 210. Ardtole old church near Ardglass—*B.N.F.C.* vi, 575. South of Killough coastguard station (*Foster*)—*B.N.F.C.* vi, 405. Rocks at Bloody Bridge 1914, *Tomlinson*.

Antrim—Murlough Bay (*Praeger*)—*I.T.B.* Muck Island—*B.N.F.C.* v, 149. Cave east of Port Braddon 1913, *Wear*. Round coast from Larne to Ballycastle, *Tomlinson*.

Derry—Still at Downhill and Castlerock 1915, *Tomlinson*.

A. Trichomanes L. Frequent. *Fl.* 187, *Sup.* 216. DO, AN, LD.

A. Ruta-muraria L. Common. *Fl.* 187, *Sup.* 216. DO, AN, LD.

[*A. septentrionale* Hoffm. Escape. DO, —, —.]

Down—Rowallane, Saintfield, on wall near garden, almost certainly of garden origin 1912 (*Phillips*)—*I.N.* xxi, 150.]

Athyrium Filix-foemina Roth. *Fl.* 186, *Sup.* 215. DO, AN, LD.
Very common.

Ceterach officinarum Willd. *Fl.* 188, xxxiii, *Sup.* 216. DO, AN, LD.
Not rare.

Down—Bridge at Scarva and wall at Corbet Lough (*Davies*)—*I.N.* xi, 181; xii, 272. Crossgar and Saintfield (*Waddell*)—*I.N.* xxi, 134. Belvoir Park—*B.N.F.C.* vi, 137. S.W. wall of Clandeboye demesne, *Stelfox*. Sea wall near Warrenpoint; and still at Donaghadee and Dundrum 1915, *Tomlinson*. Blackstaff Bridge south of Tullymurry, and between Comber and Dundonald 1920, *Bennett*. Still at Banbridge 1915—*B.N.F.C.*

Antrim—Walls at Castle Upton demesne and Holestone 1900 (*Hanna*)—*Stewart MS.* Buckna, Ballyvesey, Ballymartin near Templepatrick, and Ballinderry (*Tomlinson*)—*B.N.F.C.* vi, 60. Lismoyne on Old Lisburn Road, *Porter*. Glenwherry, *Lilly*.

Derry—Wall at Boom Hall two miles below Londonderry 1889 (*Wm. Kennedy*)—*Stewart MS.* Bridge over Agivey River west of Garvagh (*Tomlinson*)—*B.N.F.C.* v, 440. Wall at Learmount Rectory, *Lilly*. White Water Bridge near Draperstown (*Thomas Greer*)—*Praeger*. Old bridge at east base of Eagle Hill, *Praeger*.

Scolopendrium vulgare Sm. Common. *Fl.* 187. DO, AN, LD.

Cystopteris fragilis Bernh. Rare. *Fl.* 186, *Sup.* 215. DO, AN, LD.
Down—Lenaderg (*Davies*)—*I.N.* xi, 181. Wall south of Hillsborough, *Foster*.

Antrim—Fairhead—*B.N.F.C.* v, 278. Torr Head, *Tomlinson*. Still at Sallagh Braes 1910—*B.N.F.C.* vi, 381. Aghalee Bridge 1919, and still at Retreat 1920, *Bennett*.

var. **dentata** Hook. *Fl.* 186. —, AN, —.

Antrim—Head of Glenariff (*Moore*)—*Cyb.* II.

Aspidium aculeatum Sw. (*Polystichum aculeatum* Roth). DO, AN, LD.
Frequent. *Fl.* 185, *Sup.* 215.

A. angulare Kit. (*P. angulare* Newm.). Common. *Fl.* 185. DO, AN, LD.

Lastrea Thelypteris Presl. Very rare. *Fl.* 184, *Sup.* 214. —, AN, LD.

Derry—Doaghs at Magilligan, fairly abundant in a marsh 1916, *Lilly*.

The following extracts from Templeton's MS. Journal may be helpful in the hunt for this fern at Portmore:—" *Athyrium Thelypteris* and *Carex stricta*, among the bushes on the southern side of the Isthmus." Again, " *Phegopteris Thelypteris* plentiful among wood and bushes in the low parts of Portmore Park on the side of Lough Neagh, Co. Antrim."

L. Oreopteris Presl. Not rare. *Fl.* 184, *Sup.* 215. DO, AN, LD.

Down—Tullynasoo Mountain—*B.N.F.C.* v, 477.

Antrim—Slemish (*Knowles*)—*I.T.B.* Glenballyemon (*D'Arcy*)—*I.N.* x, 192. One seedling in Loughnafanogy near Parkmore (*Praeger and Stelfox*)—*I.N.* xxix, 95. Still in Glendun 1920, *Bennett*.

Derry—Ness Glen 1809 (*Templeton*)—*Stewart MS.*

L. Filix-mas Presl. Common. *Fl.* 184, *Sup.* 215. DO, AN, LD.

var. **Borreri** Newm. Common. *Sup.* 215. DO, AN, LD.

var. **abbreviata** Bab. *Sup.* 215. DO, —, —.
Down—"The only locality where I have seen undoubted '*Lastrea propinqua*' is the Mourne Mountains."—*Praeger in G.I.T.B.*

L. spinulosa Presl. Very rare. *Fl.* 185, *Sup.* 215. DO, AN, LD.
Down—At and half a mile north of Wolf Island bog 1903 (*Praeger*)—*I.N.* xii, 264; still there 1915, *Waddell and Bennett*. Drum-
lough Moss south of Hillsborough 1917, *Foster*.
Antrim—Sluggan Bog near Randalstown (abundant) and N. of Killybegs
near Ballymena (*Praeger and Stelfox*)—*I.N.* xxix, 95.

L. dilatata Presl. Common. *Fl.* 185, *Sup.* 215. DO, AN, LD

L. æmula Brackn. Frequent. *Fl.* 185, *Sup.* 215. DO, AN, LD.
Down—Roadside near Groomsport Road railway station—*Corry MS.*
Tonaghmore Hill near Saintfield (*Waddell*)—*W.B.E.C.* 1900.
Antrim—Below cliffs at Fairhead—*Newman's British Ferns*, 1844 ed.
p. 226. Near Portrush (*Phillips*)—*Corry MS.* Glenballyemon
(*D'Arcy*)—*I.N.* x, 192. Skerry Rock—*B.N.F.C.* vi, 27.
Derry—Ness Glen 1898 (*Leebody*)—*Stewart MS.* Eglinton (*Leebody*)—
I.T.B. Lignapeiste Glen 1913, *Foster*.

Polypodium vulgare L. Common. *Fl.* 183, *Sup.* 214. DO, AN, LD.

var. **serratum** Willd. —, AN, —
Antrim—Rungill Glen near Gleno—*B.N.F.C.* vi, 595.

var. **semilacerum** Link. *Fl.* 183. —, AN, —.
Antrim—Deer Park, Cave Hill (*Marshall*)—*B.N.F.C.* v, 253. Still in
Redhall Glen—*B.N.F.C.* v, 488.

P. Dryopteris L. *Fl.* 184, *Sup.* 214. —, AN, —.
One station only. ? Extinct.

P. Phegopteris L. Not rare. *Fl.* 183, *Sup.* 214. DO, AN, LD.
Down—Tollymore Park, *Marshall*.
Antrim—Glenarm [Glenann] River half a mile from Cushendall (*Tem-
pleton*)—*Fl. Ulst.* Glenariff, luxuriant (*D'Arcy*)—*I.N.* x, 192.
Near N. and S.E. sides of Big Trosk and N.E. slopes of Little Trosk
(*Praeger and Stelfox*)—*I.N.* xxix, 95.
Derry—Ness Glen 1809 (*Templeton*)—*Stewart MS.* Errigal Glen
(*Praeger*)—*B.N.F.C.* v, 440.

- Osmunda regalis** L. Rare. *Fl.* 189, *Sup.* 216. DO, AN, LD.
 Down—Side of lake about one mile from Castlewellan on Rathfriland Road (*Templeton*)—*Corry MS.* Drumlough Bog near Hillsborough 1898 (*Davies*)—*Stewart MS.* Moneygreer Bog near Ballygowan and Creevy Lough near Saintfield (*Waddell*)—*I.N.* xxi, 134. Lakelet west of Cloughy, *Tomlinson*. Drumawhey near Bangor, one plant, *Megaw*.
 Antrim—Fairhead (*Carrothers*)—*B.N.F.C.* v, 372. In fair abundance in bog between Selshan and Gawley's Gate and bog south-east of Toome, *Tomlinson*.
 Derry—Ballyloughan bog between Cookstown and Coagh 1917, *Thomas Greer*.

- Ophioglossum vulgatum** L. *Fl.* 190, *Sup.* 217. DO, AN, LD.
 Frequent.
 Down—Rathmullan (*Templeton's MS. Journal*)—*Waddell*.
 Antrim—Frequent in Carnlough district 1921 (*Praeger*)—*I.N.* xxx, 81.

- Botrychium Lunaria** Sw. *Fl.* 189, xxxiii, *Sup.* 217. DO, AN, LD.
 Not rare.

EQUISETACEÆ.

- Equisetum maximum** L. Common. *Fl.* 181. DO, AN, LD.
E. arvense L. Very common. *Fl.* 181. DO, AN, LD.
E. arvense × **limosum** (= *E. litorale* Kuhl.). DO, AN, —.
 Down—Near Hilltown by Rocky River between its junctions with the Shanky and the Bann 1917 (*Praeger*)—*I.N.* xxvi, 141, 171. Mill dam $\frac{1}{2}$ mile S.E. of Hilltown 1921 (*Praeger*)—*I.N.* xxx, 102.
 Antrim—Railway cutting E. of Killybegs near Ballymena (*Praeger and Stelfox*)—*I.N.* xxix, 95.
E. pratense Ehrh. Rare. *Fl.* 181, *Sup.* 213. —, AN, —.
 Antrim—Glendoon [Glendun] near Cushendall (*Moore*)—*Newman's History of British Ferns*, 2nd. ed. (1844) p. 64. Crow Glen 1893 (*Stewart*)—*Stewart MS.*; still there 1920, *Bennett*. Still at S.W. base of Divis on bank of stream opposite Divis Lodge 1919, *G. E. C. Maconchy*. By mineral railway S.E. of Callisnagh Bridge in Glenariff 1921 (*Praeger*)—*I.N.* xxx, 80.
E. sylvaticum L. Frequent. *Fl.* 181, *Sup.* 213. DO, AN, LD.

- E. palustre** L. Common. *Fl.* 182. DO, AN, LD.
 var. **polystachium** Weigel. *Sup.* 213. —, AN, —.
 var. **nudum** Newm. *Sup.* 214. —, AN, LD.
 Derry—Magilligan (*Lett and Waddell*)—*W.B.E.C.* 1904.
- E. limosum** L. Common. *Fl.* 182, *Sup.* 213. DO, AN, LD.
 var. **fluviatile** (L.). Common. *Fl.* 182. DO, AN, LD.
- E. hyemale** L. Rare. *Fl.* 182, *Sup.* 214. DO, AN, LD.
 Down—Lenaderg by the Bann (*Davies*)—*I.N.* xi, 181. A form which regularly produces several alternate lateral cones grows by the Rocky River in the Mourne Mountains (*Praeger*)—*I.N.* vii, 117, and xxx, 102.
- E. trachyodon** Braun. Very rare. *Fl.* 182, *Sup.* 214. —, AN, LD.
- E. variegatum** Schleich. Extremely rare. *Fl.* 182. —, —, LD.

LYCOPODIACEÆ.

- Lycopodium Selago** L. Common. *Fl.* 192, *Sup.* 218. DO, AN, LD.
- L. clavatum** L. Not rare. *Fl.* 191, *Sup.* 217. DO, AN, LD.
 Antrim—Glenshesk (*Hopkins*)—*I.T.B.* Plateau between Parkmore and Lurigethan (*D'Arcy*)—*I.N.* x, 192. Ballyutogue above Ligoniel and Skerry Rock between Slough and Slievenanee; and still at Slievenanee 1910, *Tomlinson*. Inver River, Glenariff—*B.N.F.C.* vi, 366.
 Derry—Near Lough Fea; and still on Slieve Gallion 1907, *T. Greer*.
- L. alpinum** L. Rare. *Fl.* 191, *Sup.* 217. DO, AN, LD.
 Antrim—Inver River, Glenariff—*B.N.F.C.* vi, 366. Very abundant about Little Trosk (*Praeger and Stelfox*); Orra Beg (1,050 ft.) (*Stelfox*)—*I.N.* xxix, 95. Crocknavar 1920, *Bennett*. Still on Slievenanee 1920, *Bennett*.
 Derry—Still on Slieve Gallion 1907, *T. Greer*; and on Dart, abundant on north side, not on top, 1914, *Lilly*.

SELAGINELLACEÆ.

- Selaginella selaginoides** Gray (= *S. spinosa* Beauv.). DO, AN, LD.
 Frequent. *Fl.* 192, *Sup.* 218.
 Antrim—Slievenanee 1809 (*Templeton*)—*Stewart MS.*

- Isoetes lacustris** L. Rare. *Fl.* 191, *Sup.* 217. DO, AN, LD.
 Down and Antrim—Near Lough Neagh in small stream at Annaghdroghal
 which separates the two counties (*Davies*)—*I.N.* viii, 206.
 Antrim—Still abundant in Craigfad Lough (*Praeger*)—*I.N.* xxx, 81.

MARSILEACEÆ.

- Pilularia globulifera** L. *Fl.* 190, *Sup.* 217. —, AN, LD.
 Extremely rare.

CHARACEÆ.

- Chara fragilis** Desv. Frequent. *Fl.* 192, *Sup.* 218. DO, AN, —.
 [var. *Hedwigii* Kuetz. *Fl.* 305, *Sup.* 218.
 Mr. Groves is of opinion that none of our local forms belong here.]
 var. **capillacea** Coss. & Germ. *Fl.* 192. DO, —, —.
 Down—Glassdrumman (*Davies*)—*G.I.T.B.*
 Mr. Groves thinks it possible that all our local *C. fragilis* records
 belong to *C. delicatula* as now understood by him. His recent work on
 these plants tends to widen the definition of *C. delicatula* and to restrict
 that of *C. fragilis*.
C. delicatula (Braun). *Fl.* 192, *Sup.* 218. DO, AN, LD.
 Down - Lough Neagh 1898 (*Davies*)—*G.I.T.B.* Conlig 1919, *Stelfox*.
 Antrim—Lough Beg (*Praeger*)—*G.I.T.B.* River at Toomebridge 1909
 (*Druce*)—*B.E.C.* 1909.
 Derry—River at Toomebridge 1909 (*Druce*)—*B.E.C.* 1909.
 var. **barbata** (Gaut.). *Fl.* 192, *Sup.* 218. DO, AN, —.
 Down—Pond in Ormeau Park 1880 (*Stewart*)—*W.B.E.C.* 1910.
C. aspera Willd. Rare. *Fl.* 192, *Sup.* 218. DO, AN, LD.
 Down—Tullyratty (*Davies*)—*I.T.B.*
 var. **subinermis** Kuetz. *Fl.* 192, *Sup.* 218. —, AN, LD.
 var. **lacustris** H. & J. Groves. *Sup.* 218. DO, AN, —.
 Down—Lough Neagh (*Davies*)—*G.I.T.B.*
C. desmacantha Groves & Bullock-Webster. DO, —, —.
 Down—Money Lake 1891 (*Praeger*); Tullyratty (*Davies*)—*I.T.B.*

- C. aculeolata** Kuetz. (*C. polyacantha* Braun). Rare. *Fl.* 193. DO, —, —.
 Down—Plentiful in pools in Rathmullan marsh 1902 (*Praeger*)—*I.N.* xi, 110. Marsh at White Hills near Strangford 1918 (*Praeger*)—*I.N.* xxvii, 118.
- C. contraria** Kuetz. *Sup.* 219. DO, —, LD.
- C. hispida** L. Rare. *Fl.* 193, *Sup.* 219. DO, —, LD.
- C. rudis** Leonh. *Fl.* 193, *Sup.* 219. DO, —, —.
- C. vulgaris** L. Frequent. *Fl.* 193, *Sup.* 219. DO, AN, LD.
 var. **longibracteata** Kuetz. *Fl.* 193, *Sup.* 219. DO, AN, —.
 var. **papillata** Wallr. DO, —, —.
 Down—Victoria Park, Belfast 1902 (*Lett and Waddell*)—*W.B.E.C.* 1902.
- [*Tolypella nidifica* Leonh. *Fl.* 193. —, AN, —.
 Though named by Prof. Braun, this record is doubtful, as there is no fruit on the specimens. See Groves and Bullock-Webster, "British Charophyta," i, 140.]
- Nitella translucens** Agardh. *Fl.* 193, xxxiii, *Sup.* 219. DO, AN, LD.
 Rare.
- N. opaca** Agardh. Frequent. *Fl.* 194, *Sup.* 219. DO, AN, LD.
 Down—Saintfield (*Waddell*)—*W.B.E.C.* 1898.
 Antrim—Rathlin Island (! H. & J. Groves) (*D. Moore*)—*I.N.* iv, 41.

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