BOTANICAL PUBLICATIONS, 1912.

PRODROMUS FLORÆ BRITANNICÆ, by F. N. WILLIAMS. Part 9. March 1912. pp. 477-532. 2s 9d. Rhamnaceæ—Euphorbia. Among the novelties included are Geranium sylvaticum, var. eglandulosum, Celak., Salop, Radnor: Callitriche platycarpa, vars. uliginosa and paludosa, Kütz: C. stagnalis, var. rivularis, Kütz: C. intermedia, Part 10. Sept. 1912. pp. 533-604, 3s 4d. var. lacustris, Will. On page 551 it is stated that Tilia Euphorbiaceæ—Droseraceæ. europaea cannot be raised from seed. Prof. Somerville, of Oxford, showed me some seedlings which had come up in his garden in 1910. Under Hypericum quadrangulum both H. dubium and H. undulatum are put down as varieties, the type being H. acutum—a Benthamian treatment. The Holyhead Rock-rose is described as Tuberaria Breweri, Willk., the Jersey plant being T. annua, Spach. Viola montana, L., is put as a variety (Kützingiana, R. & F.) of V. stagnina. V. lutea, var. sudetica, Koch, is given. The Viola banatica of Miss C. E. Palmer is described as a var. of "Grex V. arvensis," under the name vectensis, Will.

THE TREES OF GREAT BRITAIN AND IRELAND, by H. J. ELWES, F.R.S., and A. HENRY, M.A. Vol. VI. Edinburgh, 1912. Privately printed. It includes 16 species of Picea, 20 of Junipers, 16 Magnolias, 2 Halesias, 3 species of Morus, and 12 of Eucalyptus. In this handsome volume a large number of exotic trees are described: there is also a description of Juniperus communis, under which J. sibirica, Burgsdorf, is reduced to the var. nana, Loudon, 2489, 1838. But the earlier combination according to the citation given is that of var. saxatilis, Pallas, Flor. Ross., of 1788. The authors state that seeds of nana sown at Berlin produced seedlings resembling the common Juniper in all respects. Similarly, plants of the common Juniper from Fontainebleau which were cultivated by Bonnier on Mont Blanc at an elevation of 6800 feet assumed the habit of nana in three years. Two teratological varieties are alluded to: one, thiocarpus, Asch. and Graeb., in which the three scales at the apex of the fruit do not close but gape, showing the seeds inside: the other, coronata, Sanio, in which the points of the scales unite together and form a projection at the The semi-naturalised Robinia and Laburnum summit of the fruit. are included. Of the genus Prunus our native species P. avium, P. Cerasus, and P. Padus are described, and also Pyrus communis, of

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which *P. cordata* is made a variety. We also have descriptions of *P. Malus* and its var. *mitis*, Wallr. under a new name, *pumila*, Henry, and *P. aucuparia*, but we find no mention of the Irish yellow-berried plant, var. *flava*.

THE FLORA OF BRISTOL, being an account of all the Flowering Plants, Ferns and their Allies, that have at any time been found in the district of the Bristol Coalfields: with introductory sketches of the Topography and biographical notices of botanists connected with Bristol during the past 350 years. James Waller White, F.L.S, 3 plates, Map, pp. viii, 722. Price 12/6. Wright & Sons, Bristol. Our valued member is to be warmly congratulated upon producing so complete and useful a Flora. It contains a mass of information of great interest and value not only to the local botanist, but to the general worker and student of field botany. One point requires explanation. In my communication to Mr Linton I did not say that all Epilobium hybrids are fertile, but that some of them are. With regard to the status of Spiraea Ulmaria var. denudata, it would appear quite evident that some observers have not really mastered the distinction between the two plants, and that certain criticisms apply rather to forms of S. Ulmaria than to the variety.

A SHORT FLORA of CAMBRIDGESHIRE, chiefly from an ecological standpoint, with a history of its chief Botanists. A. H. Evans, M.A., etc. *Proc. of Camb. Phil. Soc.* xvi. part iii. pp. 197-284. Camb. Univ. Press, Dec. 1911. A concise and excellent work. Fryer's record for *Rosa villosa* had better be deleted.

The vars. longibracteata of Carex disticha, chlorostachya of C. Goodenovii, and hirtiformis of C. hirta are in Fryer's Herbarium from Chatteris, as well as Equisetum palustre var. polystachion.

The Genus Iris. W. Rickatson Dykes. Demy folio, 246: with 47 coloured drawings by F. H. Round, one coloured plate of seeds by Miss Cardew. Camb. Univ. Press, 1912. Six guineas nett. The coloured plates of this handsome volume are very good. The varieties of *Iris Pseudacorus* the author considers to be "various combinations of unit characters which might be proved to behave in accordance with Mendelian principles." The var. *Bastardi* he mentions as having been found in a field near Llanfairfechan. He says a certain

proportion of seedlings of the golden-yellow type are pale yellow flowered forms. No reference is made to the var. citrina of Iris foetidissima, nor to the English habitat of I. spuria, for as such he named the Lincoln Iris I sent him last June: but the figure does not well represent the English form, and the treatment of spuria as a whole does not commend itself. The book is an important addition to the literature of a beautiful and popular genus.

THE SCOTTISH BOTANICAL REVIEW. Quarterly. Edited by McTaggart Cowan, Jun. Neill & Co., Edinburgh. 7/6 per annum. Vol. I. 1912.

British Aquatic Plants. Carex helvola. Scottish forms of Sparganium. Recent additions to the Caithness Flora. Saxifraga Hirculus, etc., in Caithness. Arthur Bennett.

Linnaeus Flora Anglica. G. Claridge Druce questions the validity of citations from this work to supersede the names in the *Species Plantarum*, and doubts the wisdom of bringing it into the arena of botanical citation, since it is ignored by Linnaeus in any of his works. pp. 154-161.

Kenfig Burrows. An Ecological Study. M. Y. O. H. Orr, p. 209.

This Journal, we regret to hear, is to be discontinued.

British Trees, including the finer Shrubs for Garden and Woodland. By the late Rev. C. A. Johns, B.A. Edited by E. T. Cook and W. Dallimore. Routledge [1912] 7/6 net.

FLORA OF BANFFSHIRE. By W. G. CRAIB. In the Transactions of the Banff Field Club. 1911.

SUMMIT FLORA OF BREADALBANE RANGE. A valuable paper by our member Patrick Ewing, *Journ. Nat. Hist. Soc. of Glasgow* 1912, p. 48.

FLORA OF THE CULBIN SANDS. P. EWING. l.c. Nov. 1912.

PLANT ASSOCIATIONS OF FLAMBOROUGH HEAD. T. W. WOOD-HEAD, Ph.D. Naturalist 1912, p. 219.

THE NEW PHYTOLOGIST. Polymorphism in the flowers of Silene maritima, E. J. Salisbury 1912, p. 7.

International Phyto-geographical Excursion in the British Isles, p. 25. Prof. H. C. Cowles. Prof. Jean Massart. Prof. C. A. M. Lindman. Prof. E. A. Rübel, Viola silvestris, var. pseudo-mirabilis. The Shingle Beach as a Plant habitat, Prof. Oliver, pp. 73-79. C. H. Ostenfeld, Nymphaea alba var. occidentalis, Ost. (vice N. candida); Erica Mackayi × Tetralix = E. Praegeri, Ost.; Scirpus caespitosus var. germanicus and var. austriacus; Azolla filiculoides. Prof. P. Graebner. Prof. F. E. Clements, pp. 114-127.

Sir Joseph Hooker and Charles Darwin: the history of a forty years' friendship, Prof. A. C. Seward.

Prof. O. Drude, a paper of great interest treating *inter alia* of the origin of British Flora, pp. 354-363.

Origin of species in *Hieracium*, C. H. Ostenfeld.

Additional Floristic notes, including *Euphrasia fennica*, Kil.; *Mentha rubra*, var. *raripila*, Briq., &c., G. C. Druce.

On the Inheritance of Certain Characters in the Common Groundsel (Senecio vulgaris) and its Segregates. By A. H. Trow, D.Sc., F.L.S. Journal of Genetics ii., 1912, pp. 239-276, with 24 figures. This is an extremely interesting and valuable paper, in which is shown the permanence of the characters which mark what the author terms the elementary species praecox (6 generations), latifolius (5 generations), and multicaulis (5 generations), all of these forms being non-radiate. These he crossed with the rayed form (erectus) and about 25 per cent. of hybrids were obtained, thus demonstrating to some extent that the permanence of these forms under culture is not due to apogamy. The rayed form lanuginosus (S. vulgaris, var. lanuginosus, Trow) Druce in Report 1910, p. 569 keeps true to its characters through four generations, and crossed readily with praecox, erectus, and multicaulis, as many as 45 per cent. of hybrids being obtained. In addition to the foregoing, Prof. Trow says five other forms maintained their characters in cultures. These results go to prove the fixity of certain characters, and the existence of elementary or micro-species which a certain section of writers reject with scorn, simply because they lack the critical acumen required to discriminate them.

JOURNAL OF THE LINNEAN SOCIETY. An Ecological study of a Cambridgeshire Woodland, p. 339. R. S. Adamson.

JOURNAL OF BOTANY. West, Newman & Co., 1912. The following are some of the papers which will be found of interest to British field botanists:

Shepherd's Purse and Cultivation, p. 23. *Malva sylvestris*, p. 92. Change of Climate and Woodland Succession, p. 247, Rev. E. A. Woodruffe-Peacock.

Notes on Plantago, p. 55, R. M. Cardew and E. G. Baker.

Flora of London Building-Sites, p. 117, J. C. Shenstone.

Utricularia ochroleuca, p. 132. South Kerry Plants. Saxifraga Geum var. serrata × umbrosa var. serratifolia, p. 197. Somerset Plants, p. 213, E. S. Marshall.

Polygala vulgaris var. grandiflora, p. 229, Ar. Bennett.

Montia, pp. 230, 316. East Gloucester Records, p. 315, H. J. Riddelsdell.

A New Variety of *Parnassia palustris*—var. condensata, W. G. Travis and J. A. Wheldon, p. 254.

Notes on Flora of Shetland, W. West, pp. 265, 297.

Note on Rubi suberecti, E. G. Gilbert, p. 280.

Jersey Plants, S. Gasking, p. 316.

WAS OENOTHERA LAMARCKIANA, Ser. A FORM OF OEN. GRANDIFLORA, Sol.? By B. M. Davis. *Bull. Torrey Bot. Club*, 39, pp. 519-533, 1912. An affirmative reply is given to this question, the name *Oen. Lamarckiana* being cited as of De Vries, and that plant being considered a hybrid by the author.

Further Hybrids of Oenothera that resemble O. Lamarckiana. B. M. Davis in American Naturalist, 1912, 377-428.

PROCEEDINGS OF THE LINNEAN SOCIETY for 1912. In this number will be found an excellent memoir of the late Sir Joseph D. Hooker by Prof. Oliver, and a very valuable Index to the Linnean Herbarium, pp. 152, by B. Daydon Jackson. Also an account of the distribution of *Elodea canadensis*, Mich., in the British Isles in 1909, by A. O. WALKER, pp. 71.

Annals of Botany, vol. xxv., January 1912. Weeds of Arable Land in Relation to the Soils on which they Grow, by W. E. Brackley,

D.Sc., July 1912, vol. xxvi. Spiraea Ulmaria and its bearing on the Problem of Xeromorphy in Marsh Plants, Prof. R. H. Yapp.

Gardeners' Chronicle. Irish Orchids, Gymnadenia densiflora, by G. C. Druce, October 19, p. 296. A Gloucestershire Wild Garden, p. 309.

Contributions to a Flora of Portland, with Special Reference to Limonium recurvum. By W. Bowles Barrett. Proc. Dorset Nat. Hist. and Antiq. Field Club, xxxiii., p. 96, 1912. Is the Festuca ovina var. glauca, Hackel, correctly named? Probably it is var. pruinosa.

Synopsis der Mittel-Europaeischen Flora. P. Ascherson and P. Graebner. Lieferung 75 and 76. Bogen 41-50. Sept. 3, 1912, pp. 641-800. Santalaceae, Loranthaceae, Aristolochiaceae, Rafflesiaceae, and Polygonaceae. This classic work still keeps up its reputation. The Rumices, although arranged in a different sequence are, so far as this country's representatives are concerned, practically identical with the names in the List of British Plants. R. limosus is treated as a hybrid of R. maritimus and R. conglomeratus, as it figures in the List, although its hybrid origin has been doubted by one or two British The authority for the British R. conspersus should be Areschoug. Hartman's conspersus is the closely allied obtusifolius × aquaticus. An older name for R. Acetosella var. angustifolius, Koch is given in the Synopsis, viz., var. tenuifolius, Wallroth Sched 1822, p. 186. It is gratifying to learn that as all the copies of the first edition have been exhausted, the authors are already at work preparing a second one.

FLORE DE FRANCE. GEORGES ROUY. Tome xiii., pp. viii. 548. May 1912, Deyrolle, Paris, 10 francs. Alismaceae—Cyperaceae. In this cheap and comprehensive work M. Rouy presents us with many new ways of looking at things, and not a few interesting problems. He considers Narcissus incomparabilis to be a hybrid of N. major with poeticus. Under Orchis maculatus, what he calls genuinus, Reichb. with "épi grêle, subcylindrique: labelle faiblement 3-lobé, le lobe médian plus petit que les latéraux," seems to suggest the O. ericetorum, Lint., and to this is related the O. helodes, Griseb., while his trilobatus, Bréb., appears very much like the common British

plant. An earlier name is given for Juncus acutus var. effusus, Buch., namely, decompositus, Guss. Enum. Pl. Ins. Inarime, 1854, p. 345. Triglochin maritimum has two varieties—one, sexangularis, Reichb., "tige grêle: capsule hexagonale, à 6 angles separés par autant de sillons," and exangularis, Reichb., "tige robuste, capsule ni anguleuse ni sillonée." My plants from Babbicombe, Devon, and Wisbeach, Cambridge, appear to be sexangularis. Carex muricata, L., has three races—C. fumosa, Rouy; C. Lumnitzeri, Rouy; and C. Leersiana, Rouy, and a sub-species C. Pairaei (F. Schultz). The names C. stricta, Good., C. acuta, L., and C. glauca, Scop., are still allowed to stand.

WILD FLOWERS AS THEY GROW. G. C. NUTTALL. Cassell, London, 1911, 5s.

Wonders of Plant Life. S. L. Bastin, 8vo. Cassell, London, 1911, 3s 6d.

A POPULAR DICTIONARY OF BOTANICAL TERMS. G. F. ZIMMER, 8vo., 122 pp. Routledge, 2s 6d.

STUDIES IN SEEDS AND FRUITS. H. B. GUPPY, 8vo. 528 pp. Williams & Norgate, 15s.

FLEURS DES CHAMPS ET DES BOIS, DES HAIES ET DES MURS. H. CORREVON, 8vo., 225 pp., with 100 coloured plates. Kündig, Geneva, 25 francs.

DEUTSCHE FLORA. H. COSSMAN, 8vo. F. Hirt, Breslau, 7s 6d.

MAKERS OF BRITISH BOTANY. Edited by F. W. OLIVER. Demy 8vo., pp. viii. 332 and 28 illustrations, 9s nett. Cambridge University Press, 1913. Includes, among others, biographies of Ray, Morison, John Hill, Robert Brown, Sir William Hooker, Lindley, Berkeley, Balfour, and Sir Joseph D. Hooker.

Herbals, their Origin and Evolution, 1470-1670. Agnes Arber. Royal 8vo. pp. xviii. 254, 21 plates, 113 fig. in text. 10s 6d nett. Cambridge University Press, 1912.

DAS PFLANZENREICH. A. ENGLER. Engelmann, Leipsic, 1912.

- 52 Heft. Euphorbiaceae, Gelonieae, and Hippomaneae. 18m.30, pp. 319.
- 57 Heft. Euphorbiaceae, Acalypheae, Chrozophorinae.
- F. Pax. 1912, 7m.20, pp. 143.
- 53 Heft. Geraniaceae. R. Knuth, 32 marks, pp. 640.
- 54 Heft. Goodeniaceae, Brunoniaceae. K. Krause, 10m.80. pp. 206, et 6.
- Heft. Araceae, Philodendroideae, Philodendreae.
 A. Engler and K. Krause, pp. 134.
- 56 Heft. Cannaceae. Fr. Kränzlin, 4m. pp. 77.

In the Geraniaceae the varieties of G. Robertianum are taken from Rouy and Foucaud's Flore de France. The Vienna Actes do not seem to be very closely followed. For instance, under Geranium sanguineum, L., the Isle of Walney plant is called var. prostratum (Cav.) Pers. Syn. 1807, ii., p. 234, while the oldest combination cited is G. sanguineum var. haematodes, Burm. f. Sp. Geran. 16, 759. author says it is the G. prostratum, Cav. Diss. 1787, iv. p. 196. the G. lancastriense, Mill. Gard. Dict. 1768, n. p. 4. The var. haematodes is the oldest combination and lancastriense the earliest trivial G. pusillum is attributed to Burman fil., but Linnaeus gave name. it that name in the earlier edition of the Systema. G. lucidum is said to be glabrous, but we have plants in Britain with long hairs. sylvaticum var. Wanneri, Briq., is said to have the habit of aconitifolia, but is a tall plant with large pale green leaves, which suggests that the Scottish plant, with pale rose-coloured flowers recorded as that variety, has not been correctly identified. A form sublilacinum, G. G. Westerlund (Bot. Not. 1906, p. 23) is described in the same pages.

Bulletin Geog. Soc. Philadelphia, 1912, vol. x. p. 37. South Florida. J. W. Harshberger.

Arkiv. För. Botanik, Stockholm. Band, 12. No. 7. Nomenclature of some North European Species of *Draba*. Elis. Ekman.

Beihefte zum Botanischen Centralblatt, xxix. p. 16. Anthyllis-studien. W. Becker. In this paper the author deals with the various forms of this polymorphic genus, and gives details of distribution, which are, however, very meagre for England. A plant from the Isle of Wight he says come near to A. Spruneri.

DIE FARN- UND BLUTEN-PFLANZEN (Pteridophyta et Siphonogama) von Tirol, Vorarlberg und Liechtenstein. Prof. K. W. v. Dalla Torre & Ludwig Grafen v. Sarnthein. Innsbruck, vol. vi., in 3 parts, 1912. Teil i., pp. 563; Teil ii., pp. 964; Teil iii., pp. 956.

The two forms of Monotropa are treated as distinct species, i.e., M. glabra and M. multiflora. Loiseleuria is retained vice Azalea. Arctostaphylos alpina is placed in a distinct genus under the name of Arctous alpina, Niedenzu. The white-fruited Vaccinium Myrtillus is var. leucocarpum, Dumort. Lappula is rightly used instead of Echinospermum, and Satureia is made to include Calamintha and As contrasting with the brevity of the treatment recently accorded to the British Mints, the authors of the Flora of the Tirol recognise no less than 127 species. Solanum miniatum is regarded as a full species, = S. alatum, Moench, and it appears to be S. nigrum var. rubrum, Miller. Melampyrum pratense is split into two species, viz., M. pratense, L., and M. vulgatum, Pers., the latter indeed a valid name, being our common British plant. Under it Iput my var. hians. To vulgatum also belongs the vars. latifolium and ericetorum. Plantago sphaerostachya is made a species, and there is also P. montana, Huds. Fl. Angl. 1762, p. 52, = P. atrata, Hoppe, which is surely incorrect. Galium palustre, elongatum, and maximum are ranked as distinct species. Erigeron alpinum becomes Trimorpha Arctium nemorosum and A. intermedium, Lange, are united under the name of A. macrospermum, Dalla Torre and Sarnt., but according to Thellung this is not a valid name because nemorosum, Lej., is earlier than macrospermum. The Hieracia number 727 species! The authors appear to ignore Miller's Gard. Dict. and Hill's Brit. Herb., and they cite Adanson for many of the genera which were established previously by those British authors. The whole volume is well and clearly printed, and a very full list of localities is given.

ILLUSTRIERTE FLORA VON MITTELEUROPA. G. HEGI, Lief. 15-21, J. F. Schmanns Verlag, Munchen, 1912.

OBITUARIES.

ALFRED FRYER, born at Chatteris, Cambridgeshire, on Christmas Day, 1826, died at Chatteris, on February 26, and was buried at Doddington, in the same county, on February 29, 1912; one daughter by his first wife, and six children of his second marriage surviving him. He was educated at Leicester, where he made the acquaintance of

Bates, who afterwards became the celebrated naturalist of the Amazon, and Bates introduced him to A. R. Wallace. Fryer's father was a wealthy gentleman farmer, besides being partner in a brewery, and unluckily in the latter business he lost his fortune. His mother, Elizabeth Fortescue, was a native of Huntingdonshire. settled upon Alfred a house and large garden, and made a will in his favour; but subsequently, after she was eighty years of age, she bequeathed her property to another branch of the family. The consequence was that Fryer, who had received no special professional training, but had followed his own tastes, which from a very early age had been directed towards Natural History, was left practically stranded. As a boy he preferred collecting fossils to doing school work, to which he had a marked aversion, though he was fond of reading, and even at the age of five he could read French stories. On one occasion, during a children's party which was given on his account, he suddenly disappeared, and after some searching he was discovered in one of the bedrooms with a large pile of books beside him. he grew up an unpractical man, very fond of poetry and general literature, with considerable artistic taste, able to read French, German, Latin, and Dutch, besides being a keen student of ornithology, conchology, and entomology. His friendships were many, and included such distinguished men as Wallace, Coventry Patmore, Dante Rossetti, and several artists. Of course these tastes and predilections were not the sort of heritage that bring grist to the mill, neither was his lovable impracticability conducive to worldly success. However, he was supremely happy in exploring his native fens, of which and of the general natural history of his neighbourhood he had an unrivalled knowledge. At one time he possessed an extremely valuable collection of the Lepidoptera of his district. His explanation of the disappearance of the Great Copper Butterfly is worth recording. In his opinion the extinction of this lovely insect was not due to the drainage of Whittlesey Mere, but in reality to heavy floods which occurred during the larval stage and drowned them out, although no doubt the rapacity of reckless collectors had previously depleted their numbers. The total disappearance of this butterfly is certainly remarkable, since its food plant, the Great Water Dock, is still very abundant.

The date of Fryer's taking up botany is a little uncertain, but it is known that he was in correspondence with Babington as early as 1876. He himself contemplated writing a Flora of Huntingdon, a

portion of which (Polygonaceae onwards) is now in my possession, and he formed a large herbarium of Fenland plants, one portion of which is at present in the hands of Mr Charles Bailey, while the remaining portion, including the Compositae, the Orchidaceae and concluding orders (exclusive of the Pondweeds), was kindly given to me by his daughter. The specimens were always well selected, carefully preserved, and amply illustrate the species. In the eighties Fryer contributed a number of records to the second edition of Topographical Botany (p. 575) for Hunts and Cambridgeshire, and then he began the critical study of the Pondweeds,* for which purpose he was most favourably situated. This he did with the utmost assiduity and thoroughness, never being satisfied with a single specimen of a species, for he went so far as to say that even two hundred would be inadequate. His critical eye soon detected new forms and hybrids, and his series of Potamogeton gramineus and lucens showed, he said, how these two distinct species were connected together by a chain of graduating forms without one intervening gap. This magnificent collection of Pondweeds, consisting of 5450 sheets, has, through the kindness of his daughter and Mr Charles Bailey, been presented to the National Herbarium at Cromwell Road, together with the whole of Mr Morgan's drawings made for the Pondweeds of the British Isles.

This close and minute study of the group led Fryer to commence his magnum opus, entitled The Potamogetons (Pondweeds) of the British Isles, a work in quarto size, published by Lovell Reeve & Co. The parts are dated as follows:—I.-III., 12 plates, published 18th June 1898, 21s; IV., V., VI., 12 plates, 20th December 1898; and VII., VIII., IX., 12 plates, 16th January 1900. This work established his reputation as a systematic botanist: the text is exceedingly good, and abounds with instructive notes, while the figures drawn by the late R. Morgan are excellent. Unfortunately Fryer did not finish the work, although nearly all the plates were drawn: some friction arose between him and his publishers, and I am afraid my dear friend was a little difficult to manage, if rubbed At any rate, the progress of the work was up the wrong way. stopped. As we had been corresponding for some years, on hearing that straightened circumstances accounted for the delay, I ventured

^{*}Mr C. Bailey tells me that on specimens of *P.lucens* in his herbarium, Fryer notes that it was the first specimen gathered by him of any *Potamogeton*—June 16, 1860.

to call on Fryer in 1903, and found him a most delightful and accomplished man, but (like the Fellows of a certain Oxford College) a mere child in finance, yet so independent in spirit as to decline all offer of assistance. Nor did the res angustae domi lead to any want of respect being shown him by his neighbours. They recognised his merits, and admired his character and ability. He might have been induced—under pressure—to accept the Royal Bounty; and a petition was drawn up and signed by the Lord Lieutenant of the County, the Bishop of Ely and other important people. It had, however, to be dropped, as one special name which I was told it was essential to obtain, could not be procured. Eventually a small grant was made by the Royal Society, but it was quite insufficient to relieve him from doing common work which anyone could have done, in order that he might do work which hardly anyone else could do so well.

But Fryer never grumbled at his poverty: he was blessed with affectionate children, and he loved his work in his garden. One day when I said to him: "Why don't you get on with the water 'Pots,' and give up this drudgery?" he replied: "how can a man do Pondweeds when he has a garden to look after?" And then he took me out to see this wizard's beguiler, as I called it; and when I saw it my breath was taken away, for it was no ordinary garden that met one's view. Great Burdocks, Milk Thistles, Wild Roses, "Darnel and all the weeds that grow in our sustaining corn" were flourishing in rank luxuriance. He caught the amazed and amused look in my eye, and exclaimed, "How can a man keep his garden clean when he has Pondweeds to look after?" and then the welkin rang with our joint merriment.

We used to have delightful rambles together, and at one time or another he showed me all the localities for his special Pondweeds. He knew them all by heart, and he could tell in a moment from what precise locality each gathering came from. One day he and I made a special search for *corraceus*, and on the way we came to a deep dyke with steep sides. I implored him not to try to cross it, but he replied that he had always done so, and meant to do so again. The result was that in a few moments he was on his back in the water; and it was no easy matter to get him out again. He was a heavy man, my own frame was slight, and the sloping bank gave no secure standing place. It was impossible for me to raise him, and he for a moment

seemed to be quite unnerved, but on my telling him that I had at last solved the question of his religion, because I now saw that he was a baptist by immersion, he regained his spirits, made a good effort, and in a minute or two he was again landed on terra firma, with the water streaming off him in cascades. But he would not hear of going home: he insisted on walking it off, and a few hours after, by the time we reached home, he was quite dry again, rejoicing over our well-earned spoil, with which we were laden. Nor would he, even for his stomach's sake, take any stimulant, but contented himself with his Spartan fare of bread and cheese and an apple. For weeks together he never touched meat, and at last got to dislike it. To my great delight, he called on me early on the morning after the adventure I have related, none the worse, but, on the contrary, quite cured as he said of the sciatica which had recently been troubling him! Even at this advanced age he would walk to Ely, twelve miles away, to see a cricket match; stand all day, and walk back home, having partaken of nothing in the interim but a bottle of ginger beer! His birthdays were always signalised, until the last two, by a twenty mile walk.

As will be gathered from what I have said, Fryer was a determined optimist. The dull, prosaic fenland presented to him landscapes of delightful and entrancing beauty. The heavy November clouds had their delicate tints and tones of colour on which he used to dilate again and again. During our walks together, often was I called upon to admire the hedgerows, "those liberal homes of unmarketable beauty," or to watch the flight of waterfowl, or not unfrequently to look over a gate and see a crop of oats such as is only to be found in fenland, and then often he would enter upon some long metaphysical argument in which more than one of us lost his way. He was a charming letter writer, and his natural cheeriness was amply displayed in his correspondence.

During the last three years of his life, which were rendered more comfortable by his election as a recipient of the Murdoch Trust, through the recommendation of my two kind friends Sir A. Geikie and Mr A. Montgomerie Bell, he returned to the study of the Pondweeds, being stimulated, I think, by the discovery of his *P. Billupsii* in Hunts by Mr Hunnybun and myself, and he greatly rejoiced when I found another of his very local forms—involutus—in great plenty in the Northamptonshire fenlands. The visits to him of Mr A. H. Evans were much appreciated, and did much to encourage him. His health

kept good to within a few days of his death, when an attack of influenza weakened even his powers of resistance, and he succumbed from heart failure.

From the year 1884 until 1897 he was a valued member of this Club, and contributed excellently prepared specimens. Since 1907 he has been a corresponding member, and in that year he was elected an associate of the Linnean Society, an honour which was greatly appreciated by him. His work on the Pondweeds will, we believe, be completed by Mr Arthur Bennett, a fellow-worker in the same field, to whom Fryer dedicated *Potamogeton Bennettii*. He was much too big a man to be swayed by narrow jealousies: to know him was to love him: his very unworldliness had a great charm, and all will share the deep regret alike of his children and of his fellow-botanists, that so short a time in his prolonged life was devoted to field botany, a field for which in so many respects he was peculiarly well qualified.

His botanical papers include: Carex distans, inland in Hants, Journ. Bot., 1883, p. 246: in which year also appeared the following contributions: Myosurus minimus, native or colonist, p. 280: Liparis in Cambridgeshire, p. 316: Potamogeton Zizii in 29, 31; P. decipiens, 29, 31; P. flabellatus, 29, 31, p. 316: suggestion that new critical or rare British plants shall be sent to Herb. Brit., p. 347; Senecio viscosus in 29, loc. cit.: Ceratophyllum submersum in 29, 31, p. 375: Limosella in 29, 31, p. 377. In 1884 Apium graveolens, &c., in 31, p. 55: West Norfolk plants, p. 92: Hunts. plants and Top. Bot. p. 105: Brecon plants, Agrostis nigra in 29, p. 125: Juncus Gerardi in 29, &c. p. 152: Lepidium Smithii in 29, &c. p. 247: Tolypella prolifera in 29, 31, p. 278: Fumaria confusa and Boraei in 29, p. 279: Bupleurum tenuissimum in 31, In 1885 Carex paradoxa in Wicken Fen, p. 221. p. 349. Narcissus Pseudo-narcissus, &c., in Brecon, p. 24: Potamogeton fluitans, in 29, p. 306: P. natans, p. 337: P. lucens, p. 378: Epilobium augustifolium, Polygonum tataricum in 29, p. 345. In 1887, Ceratophyllum apiculatum, Potamogeton polygonifolius, p. 282: P. lucens, p. 50: P. Zizii, p. 113: P. heterophyllus, p 163: on land forms of Potamogeton, p. 306. In 1888 Potamogeton Griffithii, with leaf-bearing stipules, p. 57: P. fluitans, p. 273: P. flabellatus, p. 297. In 1889 P. coriaceus, Fryer, p. 8*: P. varians, Morong, in 29, p. 33: P. falcatus, nov. sp. and fig., in 31, p. 65: Irish Pondweeds, p. 183: Polygala calcarea in 29, p. 119: on Gnaphalium uliginosum var. pilulare p. 83: Mercurialis perennis *This plant Fryer says "led me to make a special study of the genus."

flowering in autumn, p. 251. In 1890 Potamogeton decipiens, p. 137: Hybridity in Potamogeta, p. 173: P. falcatus, p. 219: P. crispus, p. 225: P. fluitans, p. 249: P. crassifolius, nov. sp. with fig. p. 321. In 1891 P. undulatus var. Cooperi, Fryer, with fig. p. 289. In 1892 P. gramineus var. graminifolius with fig. p. 33: P. Zizii, p. 114: P. undulatus in 29, p. 377. In 1893 P. Billupsii, Fryer, with fig. p. 353. In 1894 P. $polygonifolius \ var. \ pseudo-fluitans, p. \ 97: P. \ rivularis, p. \ 337: P. \ nitens$ in 29, p. 345. In 1895 P. Bennettii with fig. p. 1. In 1896 P. nitens f. involuta with fig. p. 1. In 1897 P. fluitans, p. 355: P. trichoides in 29, p. 446. In 1899 P. Drucei as a full species, p. 524. In the Wats. Bot. Exch. Club Report, 1899, p. 23, he published his \times P. Lintoni, while his × P. salignus appeared in the Victoria County Hist. of Devon. On Nov. 20, 1911 he wrote me saying that "a series of P. Lintoni dried would be useful, but if you can have some gathered fresh for me next year, I should much like it to describe for the Pot. Book from fresh specimens. Well, here's news you will like—I have retired into private life A surprise came at the same time: a letter from L. Reeve & Co. asking if the book could be completed. I wrote saying Yes! and am at it now. Now let me say that the Scotch bequest has made the finishing of my work possible, that alone! Without this aid I could not possibly have had leisure to work at it.".

ALLAN OCTAVIAN HUME, C.B., born 4th June 1829 at St Mary Cray, Kent; died July 31st 1912 in his 84th year. The "Father of the Indian National Congress," who was educated at Haileybury College, was one of the greatest authorities on the ornithology of India, the study of which he commenced in the sixties and worked at in his usual energetic way. During twenty-five years collecting he accumulated an enormous collection of birds and eggs, amounting to no less than 63,000 skins (it almost takes one's breath away merely to think of the slaughter of so many feathered innocents) and 19,000 eggs; and on these he had written manuscript notes and memoranda which filled many folios. All these were preserved in his museum at Simla, but in 1884, while he was absent in the plains, it is supposed some discontented servant stole and destroyed these valuable manu-Thus perished the scripts, as no trace of them was ever discovered. results of his work of a quarter of a century, as far as the literary matter was concerned. This disaster thoroughly disheartened him, as

He could have sold his collection for £10,000, but it it well might. would then have gone to the United States, so he refused to part with it, and in 1885 he made the noble gift of 82,000 birds and eggs to the British Museum (Natural History) in Cromwell Road. Of his ornithological labours I need not speak, except to remark that in 1873 he published a work on Nests and Eggs of Indian Birds, and in 1879, in conjunction with Capt. C. H. T. Marshall, The Game Birds of India, a book in three volumes, with 144 coloured plates. After his great loss he took up horticulture with characteristic zeal, and then on returning to England in 1900 he started his great collection of British Plants. This he planned on an enormous scale, and enlisted the services of Mr W. H. Griffin (now curator of the South London Institute) and of the very industrious and competent botanist, our member, Mr F. H. Davey, whose Flora of Cornwall was He came to Oxford, and I showed materially helped by Mr Hume. him a few plants, but his wholesale collecting made me shudder, especially when he coolly dug up Fritillary bulbs by the score and Snowflakes by the dozen, albeit I was not aware that they were to be The result was that I felt compelled to refrain given to the nation. from showing him any more rarities. In 1903 he visited Teesdale and ravaged that fair domain. The specimens he collected, however, were most carefully prepared, and, whenever possible, all parts of the plant were shown separately, as were also the seedlings in a large number of In 1910 Hume purchased the freehold premises 323 instances. Norwood Road, S.E., and adapted them for the purpose of a herbarium and library. The whole of the premises, together with furniture, &c., were vested in trustees, under the title of "The South London Botanical Institute," having for its object the "promotion of the study of the science of Botany amongst residents of South London." The collection of plants now numbers over 40,000 sheets. Mr Frederick Townsend, who died in 1905, bequeathed his herbarium and botanical library to the Institute; and it was further enriched in 1910 by the gift of our late member Mr W. H. Beeby's herbarium, which was especially rich in plants from the Orkneys and Shetlands. biographical notice of Mr Beeby in the 1910 Report, p. 532, I stated by mistake that his herbarium had gone to the Horniman Museum.) The South London Institute now possesses a magnificent collection, which is particularly rich in alien plants, and it is well looked after by its present custodian.

The son of Joseph Hume, he remained true to the political traditions of his father. He entered the Bengal Civil Service in 1849 and had a distinguished career, becoming in 1870 one of the principal Secretaries to the Government of India. During the Mutiny he was Magistrate of Etawah, his gallantry and resource during that critical period being rewarded by his receiving the decoration of C.B. boy. Hume was a friend of John Stuart Mill, and he had the advantage of being acquainted with Sir William Hooker and Jeremy Bentham. He joined the Linnean Society in 1901, and in that year sent a note to the Journ. Bot. on Impatiens Roylei, which I identified for him, and Scirpus maritimus var. monostachys, Sonder, p. 146, and in 1902 p. 115 he records Solanum rostratum, Dunal., all from Cornwall. Respecting the Balsam he wrote on August 25, 1900: "I discovered a plant which must now be added to our English Flora—it is, I think, one of our East Indian balsams—a garden escape, of course, but now established by the thousand along at least three miles of the upper course of the Looe River. It was a sight never to be forgotten: here and there clumps of a dozen plants together: great plants five to seven feet high with great heads of bloom, a foot in diameter nearly, and innumerable side shoots all full of flower, the bigger leaves at the base of the side shoots fully a foot long—the flower from a rich 'Rose du Barri' varying through all fainter tints to nearly white, with I enclose a scrap with the mint, and would purplish pinkish shades. be grateful if you would let me know its name at your early convenience." I named it for him, and told him I had already noted the plant as a British species in the Flora of Berkshire (1897) p. 123.

William Weekes Fowler. Born February 27, 1835, at Winterton, Lincolnshire: died at the same place, March 7, 1912. Educated at Christ's College, Cambridge, taking his M.A. degree in 1860. Vicar of Liversedge, Yorkshire, for 47 years. Hon. Canon of Wakefield. Elected President of the Yorkshire Naturalists' Union in 1886. In 1880 he added Selinum carvifolia to the British Flora from Lincolnshire, a description of which, by F. A. Lees, with a plate, appeared in Journ. Bot., 1882, p. 129. Canon Fowler contributed papers to the Phytologist, 1858, p. 332, on the rarer plants of Winterton, and on Teucrium Chamaedrys, p. 416: and many papers to the Naturalist between the years 1878 and 1890. Many notes were sent by him to the second edition of Top. Bot. (1883), and he supplied a considerable

number of new records for Lincolnshire to the *Botanical Record Club Reports*. I made his acquaintance when he was staying with his brother, the President of Corpus Christi College, whom he resembled, as it appeared to me, in his bluff heartiness, his genuine kindness, and in his broad way of looking at things.

THOMAS HILTON: 1833—1912. Born at Brighton, April 16, 1833, and at the age of thirteen began to assist in the grocery business which his father had established at No. 99 Church Street in 1815. business he took over on his father's death, and conducted it so successfully that in 1890 he was able to retire, in order to devote his attention entirely to his favourite study of botany. He was appointed Hon. Curator of the Brighton Museum, at the instigation of my friend Mr Henry Willett, under whose auspices, on the occasion of one of my many visits to Brighton, I made Hilton's acquaintance. He was a man of spare frame, of very temperate habits, and an indefatigable walker. We enjoyed many rambles together, indeed, I may say that, owing to Willett's kindness, we saw almost all the plants of interest in the neighbouring country. During one of our excursions in 1899 we found Peucedanum palustre at Hurstmonceaux, and in 1900 the variety tenuifolia of Salsola Kali at Southwick. In 1909 we went to see the great colony of Crepis fætida which he had discovered at Newhaven. He discovered a Batrachian Ranunculus, which Messrs Groves considered to be a hybrid between R. Lenormandi and R. peltatus, and this form they named after him $\times R$. Hiltoni (J. B., 1901, 121, t. 420). He took a very deep interest in the Brighton Museum, and carefully went through the herbarium of the late Mr F. Roper, the author of the Flora of Eastbourne, which had been bequeathed to the Museum. He was also very assiduous in supplying for the Institution fresh specimens of wild flowers, the exhibition of which did much to encourage an interest in the local flora. Hilton was a member of this club since 1905, and his herbarium has been presented to the British Museum, Cromwell Road. After a comparatively short illness from hepatic disease he died on February 10, 1912, and was buried in the Friends' Burial Ground, Black Rock, Brighton, my own illness preventing me from attending the funeral to pay the last tribute of respect to departed merit. I extract the following remarks from a letter written by Mr Alfred Webster on February 23: "I am sure you will agree with me in saying that all who are interested in botany will greatly deplore his loss. Among Sussex botanists especially it will be felt. If anyone wanted to find any particular flower, and wrote to Mr Hilton, he could always get the information he required: no one knew so much about the Sussex flora as he did: and then none of those who were fortunate enough to accompany him in his walks—as I often was in his later years—could fail to observe how completely he had every detail of any flower you might find at his fingers' end: and he was always anxious to give his friends the benefit of his knowledge.

. . . I have lost one of my best and kindest friends."

Among the plants which he sent me shortly before his death were *Hieracium surrejanum* var. *megalodon* from Stedham Mill, West Sussex, and *Crepis nicaeensis*, Balb. from White Hawk Down, East Sussex.

John Piquet, pharmaceutical chemist. Born at St Helier's, Jersey, in 1825, where he died on September 5, 1912, at the age of eighty-seven. He was apprenticed in 1837 to Mr John Ereant, a chemist and druggist, with whom he remained ten years, his working hours being from 6.30 in the morning till 11 at night. In the year 1847 he started in business on his own account, and this he continued up to the date of his death. He became a member of the Pharmaceutical Society in 1853. From his earliest years he was a keen naturalist, and devoted much attention to entomology, especially Lepidoptera, of which he formed an interesting collection of Jersey species. But gradually entomology gave way to botany, and he worked up the flora of the Channel Islands, especially of Jersey, with great assiduity and thoroughness. In the Journal of Botany for 1873, p. 18, which was then under the able editorship of a good systematic botanist, Mr H. Trimen, there is a record of Centaurea paniculata and Scabiosa maritima. which had been sent from Jersey by Mr Piquet, who considered them native to the island: but the former plant had been previously recorded. Arthur Bennett noted in J.B. 1882, p. 86, Hypochaeris maculata and Carduus pratensis, which had been sent as new to Jersey by Piquet. In the Phytologist, 1853, p. 1135 he adds Aceras anthropophora from Rozel, and publishes a note on a supposed new fern in Jersey (Phyt. 1854, p. 149). His chief botanical paper, however, was contributed to the Société Jersiaise in 1896, and consisted of a list of 721 plants, besides varieties, which he had himself found in the

island; and two years later he added a supplement containing 24 additional species. In 1906 he furnished me with a further list of about a score more, which sufficiently shows his energy and acuteness of observation.

As late as the 8th of August last Mr Piquet sent me some aliens from a farm at St Ouen's, which included Plantago Psyllium, and remarked: "You can't think how many rare things I have found [there] but I am too old and weak to walk out now alone. I live in the past. I should be so glad of roots of Diotis, to re-introduce it at a particular spot at St Ouen's Bay, where it formerly grew, but was destroyed when the retaining wall was built to keep out the sea. Crambe maritima was also lost then." He also asked me to name "two plants which came up spontaneously in gardens," and these proved to be Satureia montana and Linaria bipartita.

I had the pleasure of making Piquet's acquaintance as long ago as the year 1877, when in his cheery companionship I experienced the intense delight of seeing for the first time the riches of a southern flora. We traversed the Quenvais, and the prolific area of St Ouen's Bay, where he showed me Diotis, then on the verge of extinction. Now, alas, the place knows it no more. With the greatest glee Piquet pointed out to me a patch of Lagurus ovatus, which might have been covered with a pocket handkerchief; he had himself brought over the seeds from Guernsey, and sown them there. present time this beautiful grass grows there in millions, and has spread over a considerable area. When I was in Jersey in 1907, and told him how it had increased since he first showed it to me, he rubbed his hands with delight at the recollection of what he had done, seeing no harm, he said, but plenty of good, in thus introducing new plants from other areas; but he made no secret of his practice, and never claimed for these introduced plants any higher rank than naturalised aliens. He told me he had introduced Caltha palustris, and at one time I suspected Dianthus gallicus had come from France through his instrumentality, but now I know it was not so. At that time (1877) Ranunculus ophioglossifolius had already disappeared, but he very kindly gave me one of the last specimens gathered in the island. Many years went by before I saw him again, but in 1906 I found him still very active and enthusiastic; indeed, he took me a stern chase up the rocky hill near St Heliers, to show me Ranunculus

flabellatus, seeds of which he had sown there, taken from plants growing at St Aubin's. In this new station it has increased considerably, but rarely or never flowers. Aided by the sight of the plant in this condition, I was enabled to find it in some considerable quantity near St Brelade's, where it must be, in Piquet's opinion, certainly native.

As an instance of his activity, I may mention the following. I told him I had seen a patch of *Thesium* near Don Bridge, a plant he had never found in the island. The very next morning he started off at six o'clock, and walked all the way out and back, in search of it, but was not successful. So I marked the spot by placing some stones round the patch, and the next day he marched out and found it, to his great delight.

In my papers on the Channel Islands plants in *Science Gossip*, 1878, p. 250, and *Journ. Bot.*, 1907, p. 397, I have spoken of my old friend, and acknowledged my indebtedness to him for many delightful rambles in his native island in search of plants; he was as active and vigorous and botanically keen when I last met him as he had been thirty years before on our first acquaintance, and his interest in plants never flagged. His assistance is gratefully acknowledged by Lester-Garland in his *Flora* of *Jersey*, where he says: "I owe much to Mr J. Piquet, who has made the Jersey plants a life-long study."

Some years ago he presented a collection of plants to the Société Jersiaise, and another collection he left to the Victoria College; but his principal herbarium is now in the possession of his son, Mr F. Piquet, of Jersey. Mr Perrédés has contributed to the *Journ. Bot.* 1912, p. 374 a sympathetic obituary notice of our old friend, with a portrait.

George Maw, F.L.S., F.S.A., F.G.S. 1832-1912. Born in London, was at Agric. Coll., Cirencester, 1848-1849. Manufactured encaustic tiles in Salop. Travelled widely through Europe, North Africa, and the East. Accompanied Sir J. D. Hooker and John Ball to the Great Atlas in 1871, and wrote the valuable appendix H. on The Geology of the Plain of Marocco and the Great Atlas to Hooker & Ball's Tour in Marocco 1878. The former dedicated vol. 1874 of the Bot. Mag. to him. His chief love was for the Genus Crocus, of which he had 67 living species in his beautiful garden at Benthall. On one of his excursions he was captured by brigands. His chief

work was the magnificent *Monograph of the genus Crocus*, with an appendix by C. C. Lacaita, M.A., M.P., F.L.S., Dulau, 1884, with 71 coloured plates, many drawn by the author. He died at Kenley, Surrey, Feb. 7, 1912.

Mr Britten (Journ. Bot. 1912, p. 296) says: "We regret to record the death of Dr Mordecai Cubitt Cooke." We are delighted to find, however, that 'the statement is somewhat exaggerated,' since the veteran fungologist writes to the Daily Telegraph Nov. 1, 1912, that he is "not ill or suffering from other than the infirmities of my time of life—i.e., 87 years."

NEW COUNTY AND OTHER RECORDS.

In addition to those already given, the following from various sources may be singled out for citation: (They date from 1912 except where other dates are given).

- 21. RANUNCULUS AURICOMUS, L. Boultach, Caithness, Scot. Bot Rev. 1912, p. 182.
- 112. Fumaria micrantha, Lag., F. densiflora, DC. Worcester, R. Towndrow, in lit.; Larne, Antrim, G. C. Druce.
- 113. Fumaria Vaillantii, Lois. Near Aldbourne, N. Wilts, Miss Todd, vide spec.
- 114. Fumaria parviflora, Lam. Near Aldbourne, N. Wilts, Miss Todd, vide spec.
- 131. BARBAREA INTERMEDIA, Bor. Near Pembrey, Carmarthen, D. Hamer, in lit.
- 296. VIOLA CANINA, L. em. Hayne. Near Moreton in the Marsh, Gloster E., H. H. KNIGHT, in lit.
- 299. VIOLA HIRTA, L. Stanner Rocks, Radnor, Mrs Banks and G. C. Druce.
- 301 (2). VIOLA EPIPSILA, Ledeb. Near Silchester, N. Hants; Near Omagh, Tyrone, G. C. Druce.
- 377. STELLARIA AQUATICA, Scop., var. scandens, Lej. Suleham, Berks. Plant 7-8 feet high, G. C. Druce.

- 406. Sagina apetala, Ard. Innerleithen, Fife, G. C. Druce.
- 408 (2). S. SCOTICA, Druce. Clova, Forfar; Callater, S. Aberdeen, G. C. Druce; Stob Coire, Westerness, as *saginoides*, Shoolbred, 1891; Glas Thulachan, E. Perth; Stuich an Lochan, *Syme*; Craig Cailleach, M. Perth; Glen Ennich, Easterness; Also Ben Lawers, Robert Brown, 1794, in *Hb. Brit. Mus.*
- 412. Spergularia media, Presl, var. glutinosa, Druce. Gloster E., Riddelsdell, in *J.B.*, 1912, p. 315.
- 414. S. ATHENIENSIS, Asch. Aldeburgh, Suffolk, native, 1911, first as English, Druce; Par, Cornwall, C. C. Vigurs, 1912; Cobo and L'Erée, Guernsey, 1912, W. C. Barton. See *Report*, 1906, p. 196.
- 424. ELATINE HEXANDRA, DC. Loughnahaltora, W. Mayo, R. L. Praeger, *Irish Nat.* 1912, p. 27.
- 467. Linum angustifolium, Huds. (? L. bienne, Miller Gard. Dict. 1768.) Near Hawnby, York, N.E., showed me by the Hon. Mrs. J. Savile last Sept. It appears to be native, as it is in an upland pasture. G. C. Druce.
- 475. Geranium versicolor, L. Llanstephan, Carmarthen, D. Hamer in lit.
- 477. Geranium sylvaticum, L. Abundant by the Grywney river, Monmouth, Miss Eleanor Vachell, vide spec.
- 485. Geranium Rotundifolium, L. Between Llanelly and Bynea, Carmarthen, D. Hamer, in *lit*.
- 531. LABURNUM ANAGYROIDES, Med. Well established especially in the elevated districts. In Abergwili parish, alt. 900 ft., there are miles of hedgerows mainly composed of self-seeding Laburnum, D. Hamer, in *lit*.
- 538. ULEX GALLII, Planch. No Man's Land, Herts, BLAKE, in *Hb. Druce*, 1830. Near Moreton in the Marsh, Gloster E., H. H. KNIGHT, in *lit*.
- 547. TRIGONELLA ORNITHOPODIOIDES, DC. Worcester, A. J. CROSFIELD ex R. F. TOWNDROW, in *lit*.

- 580. Medicago arabica, Huds. Near Trimsaran Crossing Station, Carmarthen, D. Hamer, in lit.
- 593. Melilotus officinalis, Lam. Near Pitlochry, E. Perth, colonist, G. C. Druce.
- 611. TRIFOLIUM ARVENSE, L. Near Wick, Caithness, Henry, see Scot. Bot. Rev. 1912, p. 181.
- 619. Trifolium striatum, L. Galashiels, Selkirk, Miss I. M. Hayward, vide spec.
- 677. VICIA SYLVATICA, var. CONDENSATA, Druce. White Park Bay, Antrim, new to Ireland. Retains its characters after three years' cultivation. G. C. Druce.
- 700. VICIA LATHYROIDES, L. Stanner Rocks, Radnor, G. C. DRUCE.
- 711. LATHYRUS TUBEROSUS, L. Peppard, Oxford, Miss RIDLEY, colonist, *Report*, 1911, p. 81; Dalton in Furness, Lanc., alien, D. Lumb, vide spec.
- 765. Rubus Lindleianus, Lees; 778, R. Selmeri, Lindb.; 787, R. Pubescens, W. and N., and 828, R. Echinatus, Lees, all from N. Essex, G. C. Brown, in *lit*.
- 773. Rubus pulcherrimus, Neum. Virginia, Cavan, G. C. Druce.
 - 806. Rubus Lettii, Rogers. Virginia, Cavan, G. C. Druce.
 - 811. Rubus Gelerthi, Frid. Botley, S. Hants, G. C. Druce.
- 909 (2). Alchemilla minor, Huds. Beechwood, Herts, Blake, in *Hb. Druce*, 1821; Stanner Rocks, Radnor, G. C. Druce.
- 914. AGRIMONIA ODORATA, Mill. North Berwick, Haddington, Miss I. M. HAYWARD, vide spec.
- 966. C. MONOGYNA, Jacq., var. SPLENDENS, Druce. Forfar, R. H. and M. Corstorphine, vide spec.

- 967. CRATAEGUS OXYACANTHOIDES, Thuill. Near Kirriemuir, Forfar, but perhaps originally planted, G. C. DRUCE; Pembrey, Carmarthen, D. Hamer, in *lit*.
- 987. Saxifraga Hirculus, L. Bet. Lybster and Loch Rhuard, Caithness, with *Ranunculus scoticus*, G. Lillie ex A. Bennett, in *Scot. Bot. Rev.*, 1912, p. 205, an interesting extension of the range of this local species.
- 1010. Sedum purpureum, Tausch. Welland, Worcester, R. F. Towndrow, in *lit.*, but see Lees; Welwyn, Herts, 1820, Blake, in *Hb. Druce*.
- 1016. Sedum Album, L. Established in gravel pit, West Wickham, Kent, W. H. Griffin, in *lit*.
- 1032. Myriophyllum spicatum, L. Pembrey and Llanelly, Carmarthen, D. Hamer, in *lit*.
- 1036. Callitriche obtusangula, Le Gall. Guarlford, Worcester, R. F. Towndrow, in *lit*.
- 1037. CALLITRICHE PALUSTRIS, L. Near Halton, Bucks, G. C. DRUCE, in *lit*; Ouchterlony, Forfar, R. H. and M. Corstorphine, vide spec.; Loch Watten, Caithness, see *Scot. Bot. Rev.* 1912, p. 181.
- 1045. Lythrum Hyssopifolia, L. Near new timber in a gravel drive, Miss Robinson and Miss Phyllis Buxton, Sussex; by the Welland, Barrowden, Rutland, Rev. E. A. Woodruffe-Peacock.
- 1067. Oenothera sinuata, L. Alien, America. Near Keevil Mill, Calne, Wilts, W. C. Barton, vide spec.
- 1080. ERYNGIUM CAMPESTRE, L. Downs near Winchester, S. Hants., Simon Baring, vide spec. An interesting addition to the Hampshire flora by a very young botanist.
- 1109. PRIONITIS FALCARIA, Dum. Alien. On a wall near Strangford, Co. Down, F. W. Stansfield, vide spec.
- 1128. Anthriscus Cerefolium, Hoffm. Alien. Edgehill, Warwick, quite naturalised, G. C. Druce. Spec. now distributed.

- 1138. Oenanthe fistulosa, L. Pembrey, Carmarthen, D. Hamer, in *lit.* Var. Tabernaemontani, Gmel. Peakirk, Northants, G. C. Druce.
- 1142. SILAUS FLAVESCENS, Bernh. Laugharne Burrows, Carmarthen, D. Hamer, in *lit*.
- 1174. CORNUS SUECICA, L. Dollar Law, Peebles, G. G. BLACK-WOOD, in Scot. Bot. Rev. 1912, p. 117; Ben Ledi, Perth, W. Balfour, Bot. Exc. 1860, p. 309, et l. c., p. 184.
- 1176. Adoxa Moschatellina, L. South Caithness, see A. Bennett, in Scot. Bot. Rev. 1912, p. 181.
- 1177. Sambucus racemosus, L. Alien. Abundant and quite naturalised north of Moffat, Dumfries, G. C. Druce.
- 1196. Galium sylvestre, Poll. Stanner Rocks, Radnor, G. C. Druce.
- 1258. ASTER TRIPOLIUM, L. Gloster E., ex. RIDDELSDELL, in J.B. 1912, p. 315.
- 1302. Helianthus scaberrimus, Elliot, Bot. S.C. and Ga. 1824, ii. p. 423. Alien. Lougher Valley, Carmarthen, D. Hamer, vide spec.; Oxford, 1909, G. C. Druce.
- 1309. Bidens cernua, L. Gloster E., ex Riddelsdell, in J.B. 1912, p. 315.
- 1312. GALINSOGA PARVIFLORA, Cav. Alien. Garden ground, Oxford, G. C. DRUCE.
- 1343. Anthemis arvensis, L. Carmarthen Boro., D. Hamer, in lit.
- 1376. ARTEMISIA MARITIMA, L. Gorey, Jersey, S. Gasking, in J.B. 1912, p. 316.
- 1382. ARTEMISIA ANNUA, L. Alien. Carmarthen, D. Hamer, vide spec.
- 1396. Senecio squalidus, L. Alien. Carmarthen, D. Hamer, vide spec.

- 1399. Senecio viscosus, L. Gloster E., Riddelsdell ex J.B., 1912, p. 315, Ware; Herts, G. C. Druce.
- 1420. Arctium nemorosum, Lej. Kirkcudbright, Wigton, Dumfries, Haddington, G. C. Druce.
- 1432. CIRSIUM OLERACEUM, Scop. Alien. Tayside, about a mile below Perth. W. Barclay, in *Scot. Bot. Rev.*, 1912, p. 235. Miss I. M. Hayward showed it to me in 1909 on the margin of a small loch near Selkirk where no other alien was present, and where it had been known for some years, G. C. Druce.
- 1646 (2). Taraxacum spectabile, Dahlst. Teesdale, York, and Durham; near Kington, Hereford; Llanberis, Carnarvon; Snowdon 1905; Sligachan, Skye; Glen Cahir, Co. Clare, 1909; G. C. Druce.
- 1649. Lactuca serriola, L. Llanelly and Kidwelly, Carmarthen, D. Hamer, in $\it lit.$
- 1651. LACTUCA MURALIS, Fres. Near North Berwick, Haddington, G. C. DRUCE.
- 1679. Legousia Speculum-Veneris, Fisch. Alien. Cornfield, Bognor, Sussex, G. C. Walton, vide spec.
- 1695. ERICA TETRALIX, L. Near Moreton in the Marsh, Gloster E., H. H. KNIGHT, in *lit*.
- 1699. ERICA VAGANS, L. Quite wild about half mile from the Inn at Stronachlacher, W. Perth, near the head of Loch Katrine, to all appearance native, J. W. OLIVER, in *Science Gossip*, 1877, p. 19. A record to be confirmed.
- 1739. STEIRONEMA CILIATUM, Rafn. Den of Auldbar, Forfar, R. H. and M. Corstorphine, vide spec.
- 1745. Centunculus minimus, L. Craigoch Moor, Wigton, J. Fraser, in Scot. Bot. Rev., 1912, p. 46.
- 1753. Blackstonia perfoliata, Huds. Gorey, Jersey, S. Gasking, in J.B., 1912, p. 316.

- 1785. Cynoglossum montanum, L. Hereford, Rev. A. Ley ex Riddelsdell, in J.B. 1912, p. 350; near Mentmore, Bucks, G. C. Druce.
- 1793. Symphytum orientale, L. Alien. Railwaybank, Bewdley, Worcester, known there for fifteen years, Carleton Rea, vide spec.
- 1798. Anchusa sempervirens, L. Abergwili, Carmarthen, D. Hamer, in *lit*.
- 1800 (2). Anchusa ochroleuca, M. Bieb. Alien. Dover, G. C. Walton, vide spec.; Ware, Herts, G. C. Druce.
- 1839. Cuscuta epithymum, Murr. Killard Point, Co. Down, C. H. Waddell, in *Irish Nat.*, 1912, p. 134.
- 1870 (2). Verbascum olympicum, Boiss. Alien. About four miles north of Peakirk by the railway, Linc. South, G. C. Druce.
- 1893. Scrophularia alata, Gilib. Dens of Pitairlie and Craigmill, Forfar, R. H. and M. Corstorphine, in *lit*; an interesting record. Spec. now distributed.
- 1899. MIMULUS MOSCHATUS, Dougl. Alien. Quite naturalised by the road, Pentre, Denbigh, G. C. DRUCE. Spec. now distributed.
- 1912. Veronica Anagallis-aq., L. vera. Wendlebury, Oxford; Eddlesborough, Beds and Bucks; near Whithorn, Wigton; Rescobie, Forfar, G. C. Druce.
- 1943. Euphrasia Kerneri, Wetts. Welwyn, Herts, 1820, as officinalis, Blake, Herb. Druce.
- 1951. Rhinanthus apterus, Fries. Near Crockett Hall, Herts, 1822, Blake, in *Herb. Druce*; Circnester, Gloster E., W. J. Greenwood, vide spec.
- 1955. RHINANTHUS MONTICOLA, Druce. Formoyle Hill, Londonderry, G. C. Druce.
- 1965. Orobanche Rubra, Sm. Killard Point, Co. Down, C. H. Waddell, in *Irish Nat.*, 1912, p. 134.

- 1969. OROBANCHE PICRIDIS, F. Schultz. Welwyn, Herts, as O. minor, 1821, Blake, in Hb. Druce; near Saunderton, Bucks, G. C. Druce.
- 1971. OROBANCHE MINOR, Sm. Sligo, R. L. PRAEGER, in Irish Nat., 1912, p. 179.
- 1975. Utricularia vulgaris, L. Caithness, A. Bennett, see Scot. Bot. Rev., 1912, pp. 81 and 235.
- 1976. Utricularia major, Schmid. Near Carmarthen, D. Hamer, in *lit*.
- 1977. Utricularia intermedia, Hayne. Kirkcudbright, W. Perth, E. Perth, Forfar, Kincardine, Skye; the true plant, G. C. Druce.
- 1977 (2). Utricularia ochroleuca, Hartm. Westmoreland, A. Bennett, in J.B.; Lugaloughan, W. Mayo, R. L. Praeger. I have seen it from vice-counties 9, 69, 72, 73, 74, 88, 89, 90, 91, 92, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 108, 110, and 112. It was plentiful on the Moor of Rannoch.
- 1978 (2). Utricularia Bremii, Heer. Near Dalton in Furness, Lanc., Pressall and Lumb.
- 1988. Mentha Rotundifolia, Huds. var. near *M. Lamarkii*, Tenore; near Bridge of Dun, Forfar, R. H. and M. Corstorphine and G. C. Druce.
- 1990 MENTHA LONGIFOLIA, Huds. var., near pachylodes, Briquet. Kirkinner, Wigton; Glen Ogilvy, Forfar, G. C. Druce.
- 1991. Mentha spicata, L. var. or nova species, near *M. veronicaeformis*, Opiz. Kirkinner, Wigton. The type at Gatehouse of Fleet, Kirkcudbright, G. C. Druce.
- 1993. Mentha Piperita, L. Forse, Caithness, A. Bennett, in Scot. Bot. Rev., 1912, p. 181.
- 1997. Mentha Gentilis, L. Near Circenster, Gloster E., W. J. Greenwood, vide spec.; Salop; Edinburgh, 1820, Blake, in *Hb. Druce*.

- 2046. PRUNELLA LACINIATA, L. Near Pyrford, Surrey, Lady DAVY, vide spec.; Brockenhurst, S. Hants, F. A. Reddie, in Selb. Mag.; Royston, Herts, C. E. Moss, in lit., with the hybrid P. laciniata × vulgaris.
- 2052. STACHYS GERMANICA, L. Stoke Rochfort, Lincoln N., 1820, Blake, in *Hb. Druce*.
- 2063. Galeopsis dubia, Leers. Valley of the Loughor, Carmarthen, D. Hamer, in *lit*.
- 2081. Teucrium Botrys, L. Near Sapperton Tunnel, Gloster, W. J. Greenwood, in lit.
- 2091. Plantago maritima, L. Gloster E., ex Riddelsdell, in J.B., 1912, p. 315.
- 2117. Chenopodium rubrum, L. First Tower, Jersey, S. Gasking, in J.B., 1912, p. 316. Casual here.
- 2122. Chenopodium murale, L. Alien. Isle of Moy; Edinb, vide spec.; Beighton, Derby (see $Fl.\ Derby$, p. 249 as $C.\ album\ var.\ viride,\ Report\ 1897,\ p.\ 562.)$
- 2126. Chenopodium ficifolium, Sm. Malvern, R. Towndrow, in *lit.*; Gloster E., Riddelsdell, in *J.B.*, 1912, p. 315.
- 2158. Salicornia stricta, Dum. S. ramosissima, Woods, S. disarticulata, Moss. Llanelly and Kidwelly, Carmarthen, D. Hamer, in lit.
- 2220. Euphorbia dulcis, L. Quite naturalised above the Kirkton of Glen Isla, Forfar, R. H. and M. Corstorphine. Spec. now distributed.
- 2245. ULMUS GLABRA, Miller. Near North Berwick, Haddington; Near Kinnoull Castle, M. Perth, G. C. DRUCE.
- 2246. Ulmus Wheatleyi, Hort. Alien. Thornborough, Bucks; Silverstone, Northants; Wallingford, Berks, G. C. Druce.
- 2246. Ulmus Plotii, Druce. Near Newark, Notts; Near Enniskillen, Fermanagh, G. C. Druce.

- 2289. POPULUS CANESCENS, Sm. Strathmore, Forfar; Kirk-cudbright; Dumfries, G. C. DRUCE.
- 2294 (2). Populus candicans, Aiton. Alien. Perth, M. and E.; Forfar; Near Grant's House, Berwick.
- 2296. Ceratophyllum submersum, L. Llanelly, Carmarthen, D. Hamer, in *lit*.
- 2316. Helleborine Latifolia, Druce. Applecross, Graham, in *Bot. Soc. Edin.*, 1844, i., p. 202.
- 2317. Helleborine media, (Fr.) Druce. Ayott Green, Herts, 1821; Blake, as latifolia, in Hb. Druce.
- 2317 b. Helleborine media, var. platyphylla, Druce. Loch Broom, W. Ross, Lady Fowler, vide spec.
 - 2327 (2). ORCHIS O'KELLYI. Near Omagh, Tyrone, G. C. DRUCE.
 - 2335. OPHRYS APIFERA, Huds. Carmarthen, D. HAMER, in lit.
- 2340. HABENARIA VIRIDIS, VAR. BRACTEATA, A. Gray. Gaddesdon How, Herts, 1821, Blake, in *Hb. Druce*.
- 2360. Sisyrinchium angustifolium, Mill. Alien. Glen Clova, Forfar, J. Lowson, in *Scotsman*, July 17, 1912; amongst heather, near Bude, Cornwall, Hon. N. C. Rothschild, in *lit*.
- 2379. Leucojum Aestivum, L. W. Clare, R. D. O'Brien, in *Irish. Nat.* 1912, p. 154.
- 2383. Asparagus maritimus, Mill. Pembrey, Carmarthen, 1910, D. Hamer, in *lit*.
- 2396. ALLIUM VINEALE, L. Llanstephan, etc., Carmarthen, D. Hamer, in *lit*. I saw it there in 1872.
- 2399. Allium Roseum, L. Alien. Scilly Isles, F. H. Davey, vide spec.
- 2403. ALLIUM OLERACEUM, L. Near Colesborne, Gloster, J. Edwards, in *lit.*, not a new rec. Somerset, E. S. Marshall, in *J.B.*, 1912, p. 216.

- 2413. Ornithogalum umbellatum, L. Probably native in King's Wood, G. Chester, in *lit*, and in Stibbington Wood, Northants, G. C. Druce.
- 2420. GAGEA LUTEA, Ker. Brickhill, Bucks; see Report 1911, p. 129.
- 2427. Juncus acutus, L. By the Suir 2 miles below Waterford Station, Kilkenny, R. A. Phillips, in *Irish Nat.* 1912, p. 64.
- 2429. × Juncus diffusus, Hoppe. Kingoodie, Dundee, Forfar, C. H. Ostenfeld, vide spec.
- 2436. Juncus alpinus, Vill. Loch Greenoch, Kirkcudbright, G. West, in *Proc. Roy. Soc. Edinb.* 1910, xxx. p. 113.
- 2438. Juncus squarrosus, L. Near Moreton in the Marsh, Gloster E., H. H. Knight, in *lit*.
- 2439. Juncus compressus, Jacq. Somerset, E. S. Marshall, in J.B. 1912, p. 216.
- 2441. Juncus tenuis, Willd. Alien. W. Linton, Peebles, J. McAndrew, Scot. Bot. Rev. 1912, p. 47.
- 2442 (2). Juncus ranabius, Song. & Perr. Woolmer Forest, S. Hants; Pyrford, Surrey; Carnoustie, Forfar; Kinlochewe, W. Ross, G. C. Druce; Duddon Estuary, D. Lumb, vide spec.
- 2462. Sparganium neglectum, Beeby. Wigton, Peebles; Lismore, Argyll (S. Macvicar), ex A. Bennett, in *Scot. Bot. Rev.* 1912, p. 95; Rescobie, Forfar, Druce and Ostenfeld.
- 2465. Sparganium affine, Schniz. 85, G. West; Caithness ex A. Bennett, in Scot. Bot. Rev. 1912, p. 96.
- 2466. Sparganium minimum, Fr. as S. natans. Salop, Blake, 1822, in Hb. Druce.
- 2469. Acorus Calamus, L. Berkeley Canal, Gloster E., Riddels-Dell, in J.B. 1912, p. 315.
- 2475. Wolffia Arrhiza, Wimm. Somerset, E. S. Marshall, in J.B., 1912, p. 216, an interesting extension of the westward range.

- 2486. Potamogeton polygonifolius, Pourr. Near Moreton in the Marsh, Gloster, H. H. Knight, in *lit*.
- 2499. POTAMOGETON DECIPIENS, Nolte. Lagan Canal, Co. Down, C. H. Waddell, in *Irish Nat.* 1912, p. 134.
- 2501. Potamogeton praelongus, Wulf. Durness, Orkney, M. Spence, in Scot. Bot. Rev. 1912, p. 47.
- 2503. POTAMOGETON COOPERI, Fryer. Lagan, Co. Down, C. H. WADDELL, in *Irish Nat.* 1912, p. 134.
- 2516. Ruppia Rostellata, Koch. Llanelly, Carmarthen, D. Hamer, vide spec.
- 2518. Zannichellia maritima, Nolte. Llanelly, Carmarthen, D. Hamer, vide spec.
- 2521. ZOSTERA NANA, Roth. Aberlady Bay, 82; mud flats of Cramond, 84; near Torryburn, 85, see W. Evans in *Trans. Bot. Soc. Edin.*, 1903, p. 415.
- 2525. Aponogeton distaction, Thunb. Alien. Guisachan, in a loch about a mile from the Lodge, Lady Margaret Watney, vide spec.
- 2528. Cyperus fuscus, L. One tuft by a stream in a very marshy place near Suleham, Berks, Mr V. Murray, 1911. This year we sought vainly for it; the surrounding vegetation is very luxuriant—Angelica, Scrophularia aquatica over nine feet high and Stellaria aquatica var. scandens eight feet high.
- 2533. Scirpus maritimus, L. Gloster E., Riddlesdell, in J.B., 1912, p. 315.
- 2547. ERIOPHORUM PANICULATUM, Druce, as *E. pubescens*. Loughborough Park, Leicester; confirmatory. Prof. Henslow, in *Hb. Druce*, 1820.
- 2558. CAREX PSEUDO-CYPERUS, L. Gloster E., RIDDELSDELL, in J.B., 1912, p. 315.

- 2611. CAREX AXILLARIS, Good. Warkton, Northants, G. Chester, vide spec.
- 2614 (b). CAREX LEERSII, Schultz. Kington, Hereford; New Timber, Sussex E., G. C. DRUCE.
- 2617. Carex Boenninghausiana, Weihe. Mawsley, Northants, G. Chester, vide spec.
- 2619. CAREX DIANDRA, Schrank. Frilford, Berks, L. V. LESTER-GARLAND, vide spec.
- 2683. AGROSTIS VERTICILLATA, Vill. Alien. "Glasgow. Mr Curtis thinks it a distinct species, and I have no doubt of its being so." G. Don, in *Hb. Blake*, circa 1796.
- 2774. GLYCERIA DISTANS, Wahl. Gloster E., RIDDELSDELL, in J.B. 1912, p. 315.
- 2812. Bromus interruptus, Druce. Roadside, Malvern, sol. spec., R. F. Towndrow, in *lit*.
- 2845. LEPTURUS FILIFORMIS, Trin. Gloster E., RIDDELSDELL, in J.B., 1912, p. 315.
- 2847. NARDUS STRICTA, L. Near Moreton in the Marsh, H. H. Knight, in lit.
- 2855. Elymus Arenarius, L. Ballycastle, Antrim, R. L. Praeger, in *Irish Nat.*, 1912, p. 174.
 - 2872. Equisetum hyemale, L. Hants. S., J. F. Rayner, in J.B.
- 2877. ADIANTUM CAPILLUS-VENERIS, L. Still at Portland, Dorset, W. R. Hall, 1912, ex W. Goddard, in lit.
- 2923. AZOLLA CAROLINIANA, Willd. Near Sonning, Miss RIDLEY, 1911; Oxford, G. C. DRUCE, 1911; Suleham, Berks, V. MURRAY, 1911, vide spec.
- 2923 (2.) AZOLLA FILICULOIDES, Lam. Woodbastwick, Norfolk, 1911; near Queenstown Junction, Co. Cork, G. C. Druce, 1911.

- 2924. ISOETES LACUSTRIS, L. Treifi Pools, Cardigan, Prof. R. H. YAPP and Prof. Weiss, in lst.
- 2934. NITELLA OPACA, Ag. Llanelly, Carmarthen, D. HAMER, in lit.
- 2938. NITELLA GRACILIS, Agardh. Perranzabuloe, W. Cornwall, Col. F. RILSTONE, comm., H. and J. Groves.
- 2949. Chara vulgaris, L. Pembrey, Carmarthen, D. Hamer, in lit.

CORRECTIONS.

Report 1897, p. 562.—Chenopodium album var. viride, L. Beighton, Derby, W. R. Linton. This is teste Dr Murr a form of C. murale, L., and a new record for Derby.

Report 1911, p. 26, line 5 from bottom, for "dense" read "laxer."

Report 1911, p. 56, et Report 1909, p. 469.—Chenopodium urbicum var. intermedium, Dr Vigurs. My specimen is correctly named, which Dr Murr corroborates.

Report 1911, p. 139.—Deyeuxia neglecta var. Hookeri, Syme. Ellis' Cut, Co. Down. Some if not all the specimens are Agrostis alba, var. coarctata, a grass which is common on Harbour Island and other places near Lough Neagh.

MR E. W. Hunnybun, Homeshill, St Aubin, Jersey, who is making a series of drawings of British plants for the *Cambridge British Flora*, would be much obliged if members would assist him in obtaining some of his *desiderata*, a list of which, with other information, will be gladly supplied by him. He will defray the cost of transmission and supply tins for the plants.

MISS BERTHA REID, 26 Ardilaun Road, Highbury, N., Prof. J. PERCIVAL, The Pyghtle, Northcourt Avenue, Reading, and R. Y.

STAPLEDON, Esq., Agricultural Dept., University College of Wales, Aberystwyth, would be much obliged if members will kindly supply seeds and fruits of British plants. Members willing to assist are asked to communicate with the foregoing members direct. Mr Stapledon especially wishes for Leguminosae, Umbelliferae, Compositae, and Scrophulariaceae.

Miss Reid would also like fresh examples of the British orchids (without roots).

LADY DAVY, Wintergreen Wood, Pyrford, Surrey, wants fresh specimens of varieties of the British orchids.

Mrs Adams, 14 Vernon Road, Edgbaston, and Miss Trower, Stansteadbury, Ware, Herts., are painting British plants. Would members who are willing to assist in supplying specimens kindly let them know? The latter specially needs British Rubi.

- F. J. Hanbury, Esq., Brockhurst, East Grinstead, is anxious to have seeds or roots of rare British species. He will defray all expenses.
- W. Norwood Cheesman, Esq., J.P., The Crescent, Selby, York, will be glad to receive or exchange specimens of *Mycetozoa*.

The Club is greatly indebted to the Director and Staff of the Royal Gardens, Kew, and to the Keeper and Staff of the British Museum Herbarium for much assistance, as well as to our foreign experts. Mr F. N. Williams and Mr E. D. Marquand have also very kindly assisted me.

May I add that any opinion expressed in the preceding pages is purely personal and necessarily in no way assumes to carry with it the authority of the Club.

With best wishes, I am yours very sincerely,

G. CLARIDGE DRUCE.



