

PLANT RECORDS

Compiled by E. C. WALLACE.

Records are for the year 1949 when no date is given.

The following signs are used:—

- § before the *B.P.L.* number: to indicate that the paragraph contains information necessitating a correction in the annotated copy of the *Comital Flora*.
- † before the *B.P.L.* number: to indicate that the plant is not a native species in the British Isles.
- † before the record: to indicate a native species which is not native in the locality recorded.
- * before the record: to indicate new vice-county records, not previously published.
- ‡ before the record: to indicate records additional to an annotated copy of *Comital Flora*, previously published elsewhere.
- [] enclosing a record: to indicate doubt as to the validity of the record, either of identification or locality.

It will be useful if, in future, National Grid Co-ordinates, made as accurate as is thought advisable, are added to all records.

§2/5. *THALICTRUM ALPINUM* L. †48, Mer.; above Llyn y Gafr, 1948 (see *Year Book*, 1950, 46). 97, [Argyll]; north rocks of Ben Hiant, Ardnamurchan, 1948, J. E. RAVEN.

3/2b. *ANEMONE NEMOROSA* L. var. *PURPUREA* DC. 107, E. Suth.; Doll, Brora, W. A. TOD.

§6/26. *RANUNCULUS PSEUDO-FLUITANS* (Syme) Baker & Foggitt. †48, Mer.; Llanelltyd, 1948, det. R. W. BUTCHER (see *Year Book*, 1950, 46).

8/1. *TROLLIUS EUROPAEUS* L. 97, [Argyll]; north rocks of Ben Hiant, Ardnamurchan, 1948, J. E. RAVEN.

†12/2. *NIGELLA ARVENENSIS* L. 17, Surrey; cornfield on old meadowland, Mickleham, 1946, A. W. WESTRUP.

21/5. *PAPAVER ARGEMONE* L. 21, Middx.; fallow field, Ken Wood, B. WELCH, H. C. HARRIS and D. H. KENT.

§22/1. *MECONOPSIS CAMBRICA* (L.) Vig. †‡96, Easternness; edge of roadside wood between Ferry Brae and Balbair, 1947, M. S. CAMPBELL (see *Year Book*, 1949, 37).

23/1. *GLAUCIUM FLAVUM* Crantz. 69b, N. Lancs.; Foulney Island, A. MILLARD, comm. CARLISLE MUSEUM.

+28/1. *ESCHSCHOLTZIA CALIFORNICA* Cham. *sensu lato*, sec. Jepson. 3, S. Devon; on the beach at Slapton, far from houses, perhaps a relic of U.S. Army, 1947, J. OUNSTED and J. ROBERTS.

32/5×10. *FUMARIA* × *PAINTERI* Pugsf. 16, W. Kent; cultivated ground, Cox Heath, 1948, C. WEST, confirmed by J. E. LOUSLEY.

32/11. *FUMARIA MICRANTHA* Lag. 15, E. Kent; Adisham, J. E. LOUSLEY and D. McCLINTOCK.

32/12. *FUMARIA VAILLANTH* Lois. 33, E. Glos.; (7a) stony ground by quarry on oolite, Snowhill Hill, 1933, E. MILNE-REDHEAD, comm. W. R. PRICE. det. N. Y. SANDWITH.

32/13. *FUMARIA PARVIFLORA* Lam. 15, E. Kent; Adisham, J. E. LOUSLEY and D. McCLINTOCK.

+33/4. *MATHIOLA BICORNIS* DC. 28, W. Norf.; carrot-field at Sculthorpe, R. P. LIBBEY, det. E. L. SWANN.

+35/5. *RORIPPA AUSTRIACA* (Crantz) R. Br. 32, Northants.; (7) abundant in an orchard near the Nene, Wansford, 1948 and 1949, J. L. GILBERT, det. A. J. WILMOTT.

+36/2. *BARBAREA VERNA* Asch. 38, Warw.; (1) waste ground at Edgbaston, annually 1942-7, J. OUNSTED.

37/5. *ARABIS PETRAEA* (L.) Lam. 97, [Argyll]; abundant on Ben Hiant, Ardnamurchan, 1948, A. R. CLAPHAM and J. E. RAVEN.

+39/8. *CARDAMINE LATIFOLIA* Vahl. 62, N.E. York; Goathland, 1930, R. J. FLINTOFF; Church Becks, Scalby, 1949, F. C. RIMINGTON, det. and comm. J. E. LOUSLEY. 69, Westm.; profusely in small mountain stream on lower slopes of Loughrigg, Ambleside, 1932, E. P. GOULDING—see *B.E.C. 1946/7 Rep.*, 257, 1948, for later Ambleside records; naturalised on damp waste ground, Stoits, near Bowness, Windermere, 1939, W. C. WORSDELL, comm. J. E. LOUSLEY.

+40/2. *LUNARIA ANNUA* L. 107, E. Suth.; Brochrobie, Brora, W. A. TOD.

45/5. *COCHLEARIA ANGLICA* L. 10, Wight; on top of Bembridge Down, by the cliff edge; a plant much dwarfed by its abnormal locality, but having the radical leaves typically shaped, J. OUNSTED.

§45/7. *COCHLEARIA DANICA* L. +*39, Staffs.; ballast of railway track, Hamstead, West Bromwich, 1948, V. JACOBS.

†49/4. *SISYMBRIUM ORIENTALE* L. 37, Worcs.; waste ground at Kings Norton, 1943, J. OUNSTED.

49/6b. *SISYMBRIUM OFFICINALE* (L.) Scop. var. *LEIOCARPUM* DC. 39, Staffs.; margin of old coal tip (now recreation ground), Greets Green, West Bromwich, 1948, V. JACOBS, det. R. C. L. BURGESS.

†49/15. *SISYMBRIUM POLYCRATIUM* L. 28, W. Norf.; in cracks of broken concrete paving on site of St. James' Cinema, King's Lynn, J. L. GILBERT, comm. E. L. SWANN.

53/1. *SUBULARIA AQUATICA* L. 48, Mer.; Tal-y-lyn (east end of Lake), R. B. ABELL. 70, Cumb.; Tewfit Tarn, near Threlkeld, Miss N. M. STALKER, comm. CARLISLE MUSEUM.

†54/4d. *BRASSICA RAPA* L. var. *BRIGGSII* H. C. Wats. 107, E. Suth.; Badnellan, Brora, W. A. TOD, det. A. J. WILMOTT.

54/16. *BRASSICA JUNCEA* COSS. 34, W. Glos.; (2b) Sharpness Docks, R. B. ABELL, comm. W. R. PRICE.

§55/1. *DIPLTAXIS TENUIFOLIA* (L.) DC. *59, S. Lancs.; bank of R. Tame on coal measures, near Haughton Green, 250', T. R. LAYCOCK and D. W. JOWETT.

†61/3. *LEPIDIUM DRABA* L. 37, Worcs.; well established in several waste places at King's Norton, Birmingham, 1942-7, J. OUNSTED.

64/3. *THLASPI ALPESTRE* L., *sensu lato*. 88, Mid Perth; on a limestone outcrop on Ben 'a' Chuallaich, above Loch Rannoch, M. McCALLUM WEBSTER and D. SPENCE (on B.S.B.I. excursion), det. A. J. WILMOTT—no record since that in F. Buchanan White, 1898, *Flora of Perthshire*.

†74/2. *BUNIAS ORIENTALIS* L. 24, Bucks.; in quantity on waste ground by Chalfont Road Station, J. E. LOUSLEY, R. A. GRAHAM and D. McCLINTOCK.

†76/3. *RAPISTRUM RUGOSUM* (L.) All. 32, Northants.; (7) a few plants, Bishop's Road, Fengate, Peterborough, 1948 and 1949. J. L. GILBERT, det. J. P. M. BRENNAN. 39, Staffs.; slaggy banks, Hill Top, West Bromwich, V. JACOBS, det. A. J. WILMOTT. 70, Cumb.; Silloth docks, Miss N. M. STALKER, comm. CARLISLE MUSEUM.

88/8h. *VIOLA ODORATA* L. var. *SUBCARNEA* (Jord.). 37, Worcs.; Brotheridge Green, Upton-upon-Severn, F. M. DAY.

88/19. *VIOLA LEJEUNEI* Jord. 107, E. Suth.; Badnellan, Brora, 1948, W. A. TOD, det. A. J. WILMOTT.

92/2. *DIANTHUS DELTOIDES* L. 22, Berks.; a single plant, apparently native, sandy ground, Bear Wood, near Wokingham, 1945, B. VERDCOURT.

†92/5. *DIANTHUS BARBATUS* L. 107, E. Suth.; river bank at Brochrobie, Brora, about 20 plants, W. A. TOD.

100/4. *CERASTIUM EDMONDSTONII* (Edmondst.) Murb. & Ostenf. 98, Argyll; several places on Bidean nam Bian, towards the summit ridges, R. MACKECHNIE, W. A. SLEDGE and E. C. WALLACE.

100/5m. *CERASTIUM VULGATUM* L. var. *MURALE* (Desv. ex DC.) Gren. 15, E. Kent; gravel pit near Swanton Farm, Littlebourne, under similar conditions of lack of moisture and rabbit attack to the Worgret Heath plants recorded in *B.E.C. 1933 Rep.*, 583-588, 1934, J. E. LOUSLEY and D. McCLINTOCK.

100/7. *CERASTIUM PUMILUM* Curt. 22, Berks.; (1) Wytham Great Wood, old quarry in grassland, F. A. WHITEHEAD.

§100/11. *CERASTIUM CERASTOIDES* (L.) Britton. †106, E. Ross; S.W. of summit of Mam Soul, 1947, E. F. Warburg (see *Year Book*, 1949, 39).

101/6. *STELLARIA DILLENIANA* Moench. 70, Cumb.; Southerfield Moss, near Abbeystown, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

102/5. *ARENARIA SERPYLLIFOLIA* L. 32, Northants.; (7) meadow, Wansford, some flowers with nine petals, 1947, J. L. GILBERT; "A curious form, requiring investigation," A. J. WILMOTT.

103/2. *SAGINA SUBULATA* (Sw.) C. Presl. 97, [Argyll]; promontory in Sanna Bay, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

§103/7. *SAGINA CILIATA* Fr. *70, Cumb.; Silloth Docks, R. A. BOYD, comm. CARLISLE MUSEUM.

§†108/1. *CLAYTONIA ALSINOIDES* Sims. *105, W. Ross; in a ditch near Ullapool, M. McCALLUM WEBSTER. *107, E. Suth.; Brochrobie, Brora, W. A. TOD, det. A. J. WILMOTT.

§†108/2. *CLAYTONIA PERFOLIATA* Don. 22, Berks.; in a hedge at Leighton Park, Reading: *37, Wores.; plentiful near Kidderminster, 1945, J. OUNSTED.

§111/2. *ELATINE HEXANDRA* (Lapierre) DC. *2, E. Cornw.; shallow water in Dozmary Pool, A. W. GRAVESON. 48, Mer.; Tal-y-llyn (east end of lake), R. B. ABELL.

‡†115/2. *ALTHAEA HIRSUTA* L. *28, W. Norf.; in field of lucerne at West Newton, N. Y. SANDWITH, comm. E. L. SWANN.

117/2. *MALVA SYLVESTRIS* L. 107, E. Suth.; Badnellan, Brora, W. A. TOD.

†122/1. *HIBISCUS TRIONUM* L. 18, S. Essex; waste ground, Dagenham, N. Y. SANDWITH.

127/4. *GERANIUM PRATENSE* L. 33, E. Glos.; side of the Fosse Way between Beech Pike and Cirencester, two patches with the petals pencilled and coloured exactly as in *G. versicolor*, Mrs M. ARMITAGE, comm. C. C. TOWNSEND.

‡†127/6. *GERANIUM ENDRESSI* Gay. *22, Berks.; well established on the border of a copse, Tidmarsh, near Reading, 1946, L. H. WILLIAMS and C. C. TOWNSEND. †96, Easternness: by path on S. side of Beaulieu River, 1947, M. McCallum Webster (see *Year Book*, 1949, 37).

127/7. *GERANIUM PYRENAICUM* Burm. f. 18, S. Essex; farm land at Foulness Island, S. T. JERMYN.

127/8. *GERANIUM COLUMBINUM* L. 61, S.E. York; railway bank between South Cave Station and East Dale, 1947, R. LEWIS, confirmed by W. A. SLEDGE.

‡†133/3. *IMPATIENS PARVIFLORA* DC. †8, S. Wilts.; damp wood between Lower Whitbourne and Timbers Hill, 1948, J. D. GROSE (1949, *Wilts. Arch. & N.H. Mag.*, 53, 90). 17, Surrey; (IIIa) roadside, Peperharrow Park and Somerset Farm, 1948, O. POLUNIN. *28, W. Norf.; on rubbish dump at rear of King's Lynn Docks, D. P. YOUNG, comm. E. L. SWANN (B.S.B.I. Excursion). 69b., N. Lancs.; roadside, Ferry Inn, Windermere to High Wray, G. WILSON, comm. BARROW FIELD NATURALISTS.

‡†133/4. *IMPATIENS GLANDULIFERA* Royle. *38, Warw.; (1, 2) by R. Tame and R. Blythe, 1942-7, J. OUNSTED. *58, Ches.; wayside on trias, Bramhall, 252', 1947, K. M. NEILL, comm. T. R. LAYCOCK.

†145/1(2). *LUPINUS ARBOREUS* Sims. 10, Wight; abundantly established on cliffs between Shanklin and Sandown, 1947; to correct record as *L. luteus* L. in *Proc. I. of W. N.H. & Arch. Soc.*, 4, 1948; I am grateful to Mr N. Y. Sandwith for pointing out this correction, J. E. LOUSLEY.

†145/3. *LUPINUS LUTEUS* L. 22, Berks.; a number of plants in a sandy cornfield on Frilford Heath, J. W. GOUGH and N. Y. SANDWITH.

†151/4. *ONONIS NATRIX* L. 13, W. Sussex; Charlton Forest, Singleton, D. G. RANWELL, comm. D. METCALFE.

†154/3. *MELILOTUS ARVENSIS* Wallr. 32, Northants.; (7) not uncommon, Wansford, 1947, J. I. GILBERT.

167/2. *OXYTROPIS CAMPESTRIS* (L.) DC. 89, E. Perth; still near Loch Loch, J. E. LOUSLEY, R. A. GRAHAM and D. McCLINTOCK.

†169/1. *SCORPIURUS SULCATUS* L. 10, Wight; vegetable garden, Ryde, Miss ANN DAVIDGE, det. and comm. J. E. LOUSLEY.

176/4. *VICIA OROBUS* DC. 97, [Argyll]; around Kilchoan Bay, Ardnamurchan, 1948, J. E. RAVEN.

178/4. *LATHYRUS MARITIMUS* Bigel. 1, W. Cornw.; two young plants, with *Crambe maritima* L., on the beach between Penzance and Marazion, 1948, J. E. RAVEN. 14, E. Sussex; in very small quantity and not flowering, between Bexhill and St Leonards, J. E. LOUSLEY and D. McCLINTOCK.

178/9. *LATHYRUS APHACA* L. 23, Oxon.; (5) old quarry, North Leigh, P. P. C. WARBURG.

‡184/10. *SPIRAEA SALICIFOLIA* L. *58, Ches.; amongst bracken, edge of pinewood near Oak Mere, B. HOPKINS. *107, E. Suth.; Upper Brochrobie, Brora, growing with *Ulex* and *Rubus*, W. A. TOD.

184/12. *SPIRAEA FILIPENDULA* L. 16, W. Kent; recent records are desired for this species in this vice-county—it does not appear to have been recorded for W. Kent for over half a century, F. ROSE.

185. *RUBUS*. All gatherings determined by W. C. R. WATSON unless stated otherwise.

185/18(2). *RUBUS VULGARIS* Weihe & Nees. 70, Cumb.; roadside near Calthwaite, 1948, M. HENDERSON and C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

185/27(3). *RUBUS FURNARIUS* Bart. & Ridd. 70, Cumb.; bank between Newbiggin Quarry and Wreay Woods, 1948, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

185/26. *RUBUS ERRABUNDUS* W. Wats. 70, Cumb.; Lessonhall Lane, near Wigton, 1947; Kingmoor, Carlisle, 1948, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

185/37. *RUBUS NEMORALIS* P. J. Muell. 70, Cumb.; Kingmoor, Carlisle, 1946, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

†185/38. *RUBUS LACINIATUS* Willd. 107, E. Suth.; roadside between Brora and Gordonbush, 1948, W. A. TOD, det. A. J. WILMOTT.

185/45(2). *RUBUS PROPINQUUS* P. J. Muell. *70, Cumb.; Kingmoor, Carlisle, 1947, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

185/45(2). *RUBUS PSEUDO-BIFRONS* (Sudre) Bouv. *35, Mon.; near Llan-y-nani, Llanthewy Fach, 1943, A. E. WADE, comm. NAT. MUS. WALES.

185/98(3). *RUBUS MELANOXYLON* Muell. & Wirtg. 35, Mon.; Cwm Big, Aberbeeg, 1925, A. E. WADE, comm. NAT. MUS. WALES.

185/110(5). *RUBUS FUSCIFORMIS* Sudre. *35, Mon.; The Forest, Llangibby, 1943, A. E. WADE, comm. NAT. MUS. WALES.

185/141. *RUBUS SCHLEICHERI* Weihe. *62, N.E. York; Oldstead, 1865, J. G. BAKER (as *R. hirtus* W. & K.), comm. E. F. WARBURG.

185/148. *RUBUS ARISTISEPALUS* (Sudre) W. Wats. *35, Mon.; The Narth, 1909, W. A. SHOOLBRED (as *R. anglosaxonicus* Gelert var. *setulosus* Rog.), comm. NAT. MUS. WALES.

185/149(3). *RUBUS PURPUREICAILIS* W. Wats. 70, Cumb.; bank between Newbiggin Quarry and Wreay Woods, 1943, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

185/149(5). *RUBUS TENUIARMATUS* E. Lees. 102, S. Ebudes; roadside at Kiloran, Isle of Colonsay, 1948, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

§186/1. *DRYAS OCTOPETALA* L. *97, Westernness; near the summit of Beinn na Socaich, Glen Spean, A. SLACK, comm. J. E. LOUSLEY. 98, Argyll; on calcareous rocks in several places near Ballachulish, W. A. SLEDGE and E. C. WALLACE.

189/1. *POTENTILLA FRUTICOSA* L. 70, Cumb.; Pillar, Ennerdale, R. A. BOYD, comm. CARLISLE MUSEUM.

189/5. *POTENTILLA CRANTZII* (Crantz) Beck. 98, Argyll; limestone rocks, Creag Bhan, Glencoe, R. MACKECHNIE and E. C. WALLACE.

†189/13b. *POTENTILLA RECTA* L. var. *SULFUREA* DC. 34, W. Glos.; (2b) Sharpness Docks, R. B. ABELL, comm. W. R. PRICE, det. at Kew.

190/2. *ALCHEMILLA XANTHOCHLORA* Rothm. 97, [Argyll]; Doire Dharroch, by Loch Mudle, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

190/4. *ALCHEMILLA VESTITA* (Bus.) Raunk. 104, Mid Ebudes; c. 1250 ft., Meall Odhar, Cuillins, Skye, 1948, E. F. WARBURG. 107, E. Suth.; Doll, Brora, 1948, W. A. TOD, det. A. J. WILMOTT.

190/4(2). *ALCHEMILLA FILICAULIS* Buser. 104, Mid Ebudes; Coir a' Mhadaidh, Cuillins, Skye, 1948: 105, W. Ross; rocks above Loch a' Choir Uaine, The Saddle, Glenshiel, 1948: E. F. WARBURG.

§190/8. *ALCHEMILLA GLABRA* Neygenf. *35, Mon.; grassy bank, roadside between Llanthony and Capel-y-ffin, Vale of Ewyas, 1944, R. LEWIS, det. S. M. WALTERS. 97, [Argyll]; Doire Dharroch, by Loch Mudle, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN. 105, W. Ross; Allt a Bhuilg, Sgurr Fhuaran, 1948, E. F. WARBURG.

§190/10. *ALCHEMILLA GLOMERULANS* Buser. †106, E. Ross; rocks, W. of L. Tuill Bhearnach, c. 3000', 1947, S. M. Walters and E. F. Warburg (see *Year Book*, 1949, 39).

§190(2)/2. *APHANES MICROCARPA* (Boiss. & Reut.) Rothm. *30, Bedford; Heath and Reach, J. G. DONY, det. S. M. WALTERS.

§191/2. *AGRIMONIA ODORATA* (Gouan) Mill. †96, Easternness; near Drumnadrochit, 1947, A. J. Wilmott (see *Year Book*, 1949, 37). *98, Argyll; limestone cliff, east coast of Lismore, E. C. WALLACE.

194/11b. *ROSA DUMETORUM* Thuill. var. *INCERTA* (Déségl.) W.-Dod. 59, S. Lancs.; hedge on coal measures, near Arden Mill (Cotton), Haughton Green, 250', 1949, T. R. LAYCOCK and D. W. JOWETT, det. R. MELVILLE.

194/15×19. *ROSA RUBIGINOSA* L. × *R. TOMENTOSA* Sm. 8, S. Wilts.; Urchfont, J. D. GROSE, det. R. MELVILLE.

§195/1. *PYRUS MALUS* L. †96, Easternness; Crinaglack, Strath Glass, 1947, M. S. Campbell (see *Year Book*, 1949, 37).

+197/2. *COTONEASTER MICROPHYLLA* Wall. 97, Westernness; rocks by the railway line, Glasnacardoch, near Mallaig, J. ROBERTSON and C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

§199/10. *SAXIFRAGA HYPNOIDES* L. *sensu lato*. 97, [Argyll]; north rocks of Ben Hiant, Ardnamurchan, 1948, J. E. RAVEN. 105, W. Ross; gully on west side of Sgurr Mhic Bharrach, Glenshiel; above Loch a' Coir Uaine, The Saddle, Glenshiel; 1948, E. F. WARBURG. †106, E. Ross; rocks W. of L. Tuill Bhearnach, c. 3200, 1947, S. M. Walters and E. F. Warburg (see *Year Book*, 1949, 39).

199/17. *SAXIFRAGA GRANULATA* L. 43, Radnor; Radnorshire bank of R. Wye in copses E. and W. of Iron bridge, R. B. ABELL.

§199/18. *SAXIFRAGA CERNUA* L. *98, Argyll; on calcareous rocks in the parish of Lismore and Appin, P. R. BELL and E. C. WALLACE.

217/2. *CALLITRICHE OBTUSANGULA* Le Gall. 35, Mon.; seen near New House, Rumney, A. E. WADE, comm. NAT. MUS. WALES.

+219/3. *LYTHRUM MEONANTHUM* Link. 17, Surrey; cornfield on old meadowland, Mickleham, 1946, A. W. WESTRUP.

+220/7(2). *EPILOBIUM ADENOCAULON* Hausskn. 22, Berks; along a stream at Beenham, July 1949, N. Y. SANDWICH.

220/7(2)×7. *EPILOBIUM ADENOCAULON* Hausskn. × *E. OBSCURUM* Schreb. 30, Beds.; West Wood, Knotting, 1948, J. G. DONY, det. G. M. ASH.

+220/17. *EPILOBIUM PEDUNCULARE* A. Cunn. 69, Westm.; plentifully by a stream coming down to the Lune from Hoargill Fells, Rev. M. L. WILLIAMS, det. and comm. A. J. WILMOTT: 69b, N. Lancs.; Furness Abbey, G. WILSON, comm. BARROW FIELD NATURALISTS. 88, Mid Perth; along shore road at eastern end of Loch Katrine, A. W. ROBSON. 97, Westernness; R. Callop, Glenfinnan, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

225/2. *CIRCAEA INTERMEDIA* Ehrh. 98, Argyll; thickets of hazel in Glen Stockdale, E. C. WALLACE.

+257/1. *MYRRHIS ODORATA* (L.) Scop. 17, Surrey; (IIIa), entrance to Puttenham Golf Course, 1948, O. POLUNIN, det. N. Y. SANDWICH.

265/6. *OENANTHE LACHENALII* C. C. Gmel. 97, [Argyll]; promontory in Sanna Bay, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

+285/4. *CORNUS MAS* L. 7, N. Wilts.; in hedgerows and coverts "a mile or so from the nearest house of any size" between Aldbourne and Baydon, Mrs A. GRESHAM COOKE, det. and comm. J. E. LOUSLEY.

+298/5. *ASPERULA ARVENSI* L. 14, E. Sussex; in potato field, Forest Row, M. PARSONS.

+301/4. *VALERIANA PYRENAICA* L. 99, Dumb.; Milngavie, 1948, W. THOMAS, det. A. J. WILMOTT.

§304/2. *VALERIANELLA ERIOCARPA* Desv. *30, Beds.; heath near Baker's Wood, Heath and Reach, remote from arable land, etc., J. G. DONY.

§304/5. *VALERIANELLA RIMOSA* Bast. *30, Beds.; arable field, Barton, 1949, W. D. COALES, comm. J. G. DONY.

†318/11. *ASTER VERSICOLOR* Willd. 13, W. Sussex; downs near Patcham, Brighton, far from habitation, 1948, Miss J. E. HIBBARD, comm. T. G. TUTIN.

‡320/3. *ERIGERON CANADENSIS* L. *37, Worcs.; plentiful near Kidderminster, 1946, J. OUNSTED.

†335/1. *BUPHTHALMUM SPECIOSUM* Schreb. 48, Mer.; near Bala Lake, 1941, J. A. WEBB, comm. NAT. MUS. WALES.

†341/3. *XANTHIUM SPINOSUM* L. 17, Surrey; weed in garden at Guildford, 1949, Miss MARGARET EDE, det. N. K. GOULD, comm. J. S. L. GILMOUR.

347/4. *HELIANTHUS ANNUUS* L. 28, W. Norf.; in carrot-field at East Winch, 1949, R. P. LIBBEY and E. L. SWANN. 29, Cambs.; carrot-field alien, La Hogue, Chippenham, J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK.

†354/1. *GALINSOGA PARVIFLORA* Cav. 27, E. Norf.; on a bombed site in Great Yarmouth, J. OUNSTED.

†354/2. *GALINSOGA CILIATA* (Raf.) Blake. 17, Surrey; gravel pit at Thorpe, J. OUNSTED. 30, Beds.; railway siding, Flitwick, J. G. DONY.

†362/2. *TAGETES MINUTA* L. 30, Beds.; railway siding, Flitwick, where it has appeared for a number of years but has not previously flowered; railway siding, Luton; J. G. DONY.

‡368/1. *ANTHEMIS TINCTORIA* L. ‡23, Oxon.; near Oxford by-pass, 1942-7; add to *C.F.*, but see Druce, 1927, *Fl. Oxfordsh.* for earlier record, J. OUNSTED.

‡370/13. *CHRYSANTHEMUM PARTHENIUM* L. *107, E. Suth.; at two localities near Brora, 1949, W. A. TOD.

†380/2. *PETASITES ALBUS* (L.) Gaertn. 69b, N. Lancs.; roadside near Colton, W. WILSON, also at Kents Bank and Lancs. side of Brathay near Skelwith Bridge, comm. BARROW FIELD NATURALISTS.

383/5. *SENECIO JACOBAEA* L. 32, Northants.; covered with cottony down, mixed with normal plants on exposed sub-soil, Wansford and Yarwell, (7) 1947, J. L. GILBERT; "a form of *S. Jacobaea*, but there is no specimen in the Museum, which approaches this in woolliness," A. J. WILMOTT.

383/7×8. *SENECIO* ×*LONDINENSIS* Lousley. 17, Surrey; railway embankment, Witley, G. M. ASH, det. J. E. LOUSLEY.

383/7×10. *SENECIO SQUALIDUS* L. × *S. VULGARIS* L. 17, Surrey; near Lower Birtley Farm, Witley, G. M. ASH: 33, E. Glos.; a single plant with parents, Tewkesbury, C. W. BANNISTER: both det. and comm. J. E. LOUSLEY. 37, Worcs.; rubbish tip, Priory road, Yardley Wood, Birmingham (one plant), V. JACOBS, det. A. J. WILMOTT.

§395/1. *CARDUS NUTANS* L. †*108, W. Suth.; one plant in a waste field opposite the Youth Hostel at Achmelvich, M. MCCALLUM WEBSTER.

396/4. *CIRSIUM ACAULON* (L.) Weber. 57, Derby; (L.) Wolfscote Hill; Ladmanlow near Buxton; K. HOLLICK.

§397/1. *ONOPORDON ACANTHIUM* L. 32, Northants.; Staverton, nine feet high, 1948, Miss N. JACKSON, comm. A. J. WILMOTT. †*42, Brecon; by the wells at Builth, adventive, 1944, J. OUNSTED.

401. *SAUSSUREA ALPINA* (L.) DC. 70, Cumb.; Pillar, c. 2000 ft., Ennerdale, R. A. BOYD, comm. CARLISLE MUSEUM. 97, [Argyll]; north rocks of Ben Hiant, Ardnamurchan, 1948, J. E. RAVEN.

405/12. *CENTAUREA CYANUS* L. 22, Berks.; cornfield near Abingdon, abundant, 1948, J. OUNSTED: persistent in sandy cornfields at Beenham, N. Y. SANDWICH. 23, Oxon.; cornfield, Stadhampton, E. F. WARBURG.

†405/31. *CENTAUREA SOLSTITIALIS* L. 69b, N. Lancs.; garden weed, Coniston, Miss MACARTHUR, comm. BARROW FIELD NATURALISTS.

†408/1. *SCOLYMUS HISPANICUS* L. 30, Beds.; waste ground, Vauxhall Works, Luton, 1948, A. J. NEWSON, comm. J. G. DONY.

§415/2. *PICRIS HIERACIOIDES* L. *59, S. Lancs.; dry sunny canal-bank on trias (bunter sandstone), Reddish, T. R. LAYCOCK.

†419/6. *HIERACIUM PRAEALTUM* Vill. *3, S. Devon; railway bank, branch line to Princetown, 1943-1949, C. WEST.

§419/8. *HIERACIUM BRUNNEOCROCEUM* Pugsley. 49, Caern.; Glyders, on grass slope, 3100', 1948. Col. R. MELNERTZHAGEN, comm. A. J. WILMOTT. *107, E. Suth.; Badnellan, Brora, hillside amongst bracken, W. A. TOP, det. A. J. WILMOTT.

§419/9. *HIERACIUM AURANTIACUM* L. sec. Pugsl. *95, Moray; coniferous wood near Grantown, J. W. CARDEW and C. WEST, confirmed by J. E. LOUSLEY.

†435/13. *CAMPANULA ALLIARIFOLIA* Willd. 3, S. Devon; railway bank, Princetown branch line, C. WEST, det. H. GILBERT-CARTER.

445/1. *CALLUNA VULGARIS* L. 62, N.E. York.; Silpho Moor, Harkness, near Scarborough, a large white-flowered plant some $2 \times 1\frac{1}{2}$ ft., with a spray of purple flowers on it (cf. 1949, Abstracts from Literature, *Watsonia*, 1, 173), c. 1907, H. J. BURKILL.

463/5. *LYSIMACHIA NEMORUM* L. 104, N. Ebudes; Kildonan, Isle of Eigg, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

§466/1. *GLAUX MARITIMA* L. †37, Worcs.; by canal near Stoke Salt Works, 1942, J. OUNSTED; add to *C.F.*, but see Amphlett and Rea, *Fl. Worcs.*, 240-41, for earlier records, E.C.W.

467/1. *ANAGALLIS TENELLA* Murr. 35, Mon.; boggy places on mountainside, Sugar Loaf Mountain, near Abergavenny, 1947, R. LEWIS.

468/1. *CENTUNCULUS MINIMUS* L. 70, Cumb.; Thurstonfield Lough, C. W. MUIRHEAD, comm. CARLISLE MUSEUM. 97, [Argyll]; promontory in Sanna Bay, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

§486/1. *POLEMONIUM CAERULEUM* L. ††96, Easternness; by Loch Affric near Affric Lodge, 1947 (see *Year Book*, 1949, 38).

†490/2. *OMPHALODES VERNA* Moench. 30, Beds.; naturalised in spinney near Rectory garden, Houghton Conquest, J. G. DONY. 37, Worcs.; roadside outside a cottage, Callow End, Powick, F. M. DAY.

§497/1b. *SYMPHYTUM OFFICINALE* L. var. *PATENS* Sibth. †*107, E. Suth.; Achrimsdale, Brora, W. A. TOD, det. A. J. WILMOTT.

497/2. *SYMPHYTUM TUBEROSUM* L. †12, N. Hants.; Alice Holt Forest near Bentley, W. H. SPREADBURY, det. J. E. LOUSLEY. †13, W. Sussex; Clapham Wood, Worthing, 1946, A. W. WESTRUP.

†497/3. *SYMPHYTUM ORIENTALE* L. 17, Surrey; (IIIa) roadside and copse, Charterhouse Hill, 1948, O. POLUNIN, det. N. Y. SANDWITH.

†497/9. *SYMPHYTUM GRANDIFLORUM* DC. 17, Surrey; (IIIa) well established colony 2-3 sq. yds. in area, thicket, Hurtmore Bottom, Hindhead, 1948, O. POLUNIN.

505/1. *MERTENSIA MARITIMA* (L.) S. F. Gray. 108, W. Suth.; among Torridon sandstone stones above the three split rocks at Clachtoll, plentiful, but only in one locality, M. McCALLUM WEBSTER, det. A. J. WILMOTT. 111, Orkney; east shore of South Ronaldshay, C. TURNER.

§511/1. *CALYSTEGIA SEPIUM* (L.) R.Br. ††96, Easternness; rubbish dump, by the Beauly River, Beauly, 1947, A. J. Wilmott (see *Year Book*, 1949, 38).

†511/2. *CALYSTEGIA SYLVESTRIS* (Willd.) R. & S. 70, Cumb.; Stanwix Bank, Carlisle, C. W. MUIRHEAD; Dalston, D. GRAHAM; Scotby, R. A. BOYD: 97, Westerness; garden fence on the railway line, Mallaig, J. ROBERTSON and C. W. MUIRHEAD: all comm. CARLISLE MUSEUM.

†517/17. *SOLANUM SARRACHOIDES* Sendtn. 28, W. Norf.; both entire- and toothed-leaved forms, in carrot-field at Appleton, E. L. SWANN, det. N. Y. SANDWICH.

527/4. *VERBASCUM VIRGATUM* Stokes. †34, W. Gos.; (2b) Sharpness Docks, 1947, R. B. ABELL, comm. W. R. PRICE.

§532/1. *LINARIA VULGARIS* Mill. †96, Easterness; E. of L. Meikle, Glen Urquhart, M. S. Campbell and E. F. Warburg, 1947 (see *Year Book*, 1949, 38).

539/1. *LIMOSELLA AQUATICA* L. 37, Worcs.; pond on Castlemorton Common, F. M. DAY. 70, Cumb.; village pond, Salt Cotes, near Newton Arlosh, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

543/6. *VERONICA SCUTELLATA* L. 108, W. Suth.; in a bog by Loch Culag, Lochinver, M. McCALLUM WEBSTER.

†543/41. *VERONICA FILIFORMIS* Sm. 10, Wight; footpath near Bembridge, J. OUNSTED. 23, Oxon.; persistent garden weed, St Margaret's Road, Oxford, 1948, A. P. CONOLLY, comm. T. G. TUTIN. 29, Cambs.; persistent garden weed, Storey's Way, Cambridge, 1948, T. G. TUTIN. 67, S. Northumb.; banks of the Pont near Ponteland, J. W. HESLOP-HARRISON. H.21, Dublin; near the club-house, golf links, Howth, S. M. SOCKETT FOSTER, det. and comm. E. F. WARBURG.

†543/38. *VERONICA SPECIOSA* R. Cunn. 71, Isle of Man; by footpath, near top of grassy sea cliff on Cambrian, Port Erin, T. R. LAYCOCK.

545. *EUPHRASIA* L. All specimens determined by E. F. WARBURG.

§545/3. *EUPHRASIA BREVIPILO* Burnat & Greml. *102, S. Ebudes; Jura: pasture behind foreshore, Corran House; dry cliff top opposite Brosdale Island; damp meadows, north of Craighouse; etc., J. K. MORTON.

545/5c. *EUPHRASIA NEMOROSA* (Pers.) H. Mart. emend. Löhr var. *CALCAREA* Pugsl. 33, E. Gos.; common in a grassy bottom east of the Fosse Way, Beech Pike, 1947, C. C. TOWNSEND.

§545/5d. *EUPHRASIA NEMOROSA* (Pers.) H. Mart. emend. Löhr var. *COLLINA* Pugsl. 69b, N. Lancs.; limestone outcrops, Grange-over-Sands, 1948, J. K. MORTON. *H.34, E. Donegal; Carrowkeel, T. G. B. OSBORN, comm. E. F. WARBURG.

§545/5f. *EUPHRASIA NEMOROSA* (Pers.) H. Mart. emend. Löhr var. *TRANSIENS* Pugsl. *26, W. Suff.; Elveden, 1941, E. F. WARBURG.

§545/5(2). *EUPHRASIA HESLOP-HARRISONI* Pugsl. *105, W. Ross; grass at upper edge of salt marsh near mouth of R. Shiel, 1948, E. F. WARBURG.

§545/9. *EUPHRASIA CURTA* Wettst. *88, Mid Perth; near Allt Leathan, c. 1100 ft., Fortingall parish, 1947, M. S. CAMPBELL, E. F. WARBURG and A. J. WILMOTT; shingle by Allt Cailliche, Glen Lyon, c. 1500 ft., 1947, M. S. CAMPBELL and E. F. WARBURG. *96, Easternness; river shingle bank, near Loch Affric, 1947, M. S. CAMPBELL. *104, N. Ebudes; dry grassy slopes, The Quiraing, Skye; between road and Old Man of Storr, Skye, J. K. MORTON.

§545/10. *EUPHRASIA OCCIDENTALIS* Wettst. *68, Chev.; dunes, Ross Links, J. K. MORTON. *H.9, Clare; heavily grazed sward above flood level in turlough, near Corofin, T. G. B. OSBORN, comm. E. F. WARBURG. *H.27, W. Mayo; low turf with *Plantago*, east end of Keel Bay, Achill Island, T. G. B. OSBORN, comm. E. F. WARBURG.

§545/10d. *EUPHRASIA OCCIDENTALIS* Wettst. var. *CALVESCENS* Pugsl. *48, Mer.; sand dunes, Harlech, 1946, P. W. RICHARDS. *74, Wigt.; grassy ground near sea, Barsalloch, Luce Bay, 1939, E. F. WARBURG. *102, S. Ebudes; on turf on foreshore, south of pier, Craighouse, Jura, J. K. MORTON. *H.9, Clare; dunes, Ballyvaughan, T. G. B. OSBORN, comm. E. F. WARBURG.

§545/12. *EUPHRASIA FRIGIDA* Pugsl. *102, S. Ebudes; short turf on slopes of Paps over Loch Ant Siol, Beinn Shiantaidh, Jura, J. K. MORTON.

§545/15. *EUPHRASIA MICRANTHA* Rchb. *24, Bucks.; Naphill Common, 1945, E. F. WARBURG. *H.2, N. Kerry; Ross Island, Killarney, T. G. B. OSBORN, comm. E. F. WARBURG. *H.14, Leix; esker-bog junction, Clonaslee, T. G. B. OSBORN, comm. E. F. WARBURG.

§545/18f. *EUPHRASIA CONFUSA* Pugsl. var. *ALBIDA* (Pugsl.) Wilmott. *24, Bucks.; Turville Heath, 1945: *75, Ayr; moor near Loch Doon, 1939: *80, Roxb.; grass by roadside, South Dean, 1947: all E. F. WARBURG.

545/19. *EUPHRASIA ROSTKOVIANA* Hayne var. *OBSCURA* Pugsl. 35, Mon.; in meadow at Wyndcliff, near Chepstow, 1944, R. LEWIS.

§545/19(4). *EUPHRASIA ANGLICA* Pugsl. *69b, N. Lancs.; Water Yeat, Blawith, 1946, T. G. TUTIN. *H.34, E. Donegal; Carrowkeel, T. G. B. OSBORN, comm. E. F. WARBURG.

546/4. *PARENTUCELLA VISCOSA* (L.) Caruel. †28, W. Norf.; introduced as impurity in grass-mixture used for village cricket-pitch, East Winch, R. P. LIBBEY, comm. E. L. SWANN.

548/8(1). *RHINANTHUS LINTONI* Wilmott. 88, Mid Perth; Ben Lawers, in bogs in an apparently restricted area, c. 1200-1500 ft., growing with *Saxifraga aizoides*, *Tofieldia*, *Carex dioica* and *C. capillaris*, July 1936 and July 1948; a very distinct-looking plant, locally plentiful and uniform; previously recorded from the N. side of Creag Mhor, Lawers (1913, C. E. Salmon); N. Y. SANDWITH—the later gathering confirmed by A. J. WILMOTT.

550/3. *OROBANCHE ALBA* Steph. 97, Westerness; Sanna Bay, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

558. *MENTHA*. All specimens determined or confirmed by R. A. GRAHAM unless otherwise stated.

558/1×4. *MENTHA* × *CORDIFOLIA* Opiz. 9, Dorset; waste ground, near Landsfoot, Weymouth, D. O. JONES, comm. C. C. TOWNSEND.

‡558/2. *MENTHA ALOPECUROIDES* Hull. *107, E. Suth.; Badnellan, Brora, W. A. TOD, det. A. J. WILMOTT.

558/3. *MENTHA LONGIFOLIA* (L.) Huds. 28, W. Norf.; dykeside in shade, Westacre, E. L. SWANN.

558/3i. *MENTHA LONGIFOLIA* (L.) Huds. var. *HORRIDULA* Briq. 28, W. Norf.; in the roadside "rough" near Leziat Golf Course, E. L. SWANN.

‡558/4. *MENTHA SPICATA* L. em. Huds. *107, E. Suth.; Badnellan, Brora, W. A. TOD, det. A. J. WILMOTT.

558/6a. *MENTHA PIPERITA* L. var. *PIPERITA* f. *HIRSUTA* (Fraser) R. A. Graham. 28, W. Norf.; dykeside at Dersingham Marsh, 1948, R. P. LIBBEY, det. E. L. SWANN.

558/6e. *MENTHA CITRATA* Ehrh. 1, W. Cornw.; damp heathland near Newlyn, 1948, E. A. LEES and C. WEST.

558/7j. *MENTHA AQUATICA* L. var. *DENTICULATA* H. Braun. 28, W. Norfolk; by damp woodland path in shade, Reffley Wood, 1948, E. L. SWANN.

558/10. *MENTHA* × *GENTILIS* L. 28, W. Norf.; on rubbish dump in a chalk pit at Appleton, 1949, E. L. SWANN. 70, Cumb.; R. Eden, Cargo Hill, near Carlisle; R. Eden, Corby; Skirwith Beck, Skirwith; C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

558/13j. *MENTHA ARVENSIS* L. var. *DENSIFOLIOLATA* Briq. 28, W. Norf.; by side of track through wood, Bawsey, 1944, E. L. SWANN.

558/13×1. *MENTHA* × *MUELLERIANA* F. Schultz. 3, S. Devon, Kingskerswell, 1940, Dr. T. STEPHENSON; a specimen in my herbarium of a mint gathered by Dr. T. Stephenson in August 1940 at Kingskerswell, and named by Mr A. L. Still *M. arvensis* L. var. *agrestis* (Sole) Sm., has been examined by Mr R. A. Graham and identified as above; unfortunately I do not know the exact spot where it was gathered, but it has no connection with the plant recorded from Salcombe (Martin and Fraser, *Flora of Devon*, p. 519), F. M. DAY.

†586/4. *TEUCRIUM CHAMAEDRYIS* L. 14, E. Sussex; a small form looking quite wild, downs east of Cuckmere Haven, 1945, A. W. GRAVESON; also 1949, J. OUNSTED.

†596/4. *AMARANTHUS CHLOROSTACHYS* Willd. 28, W. Norf.; in carrot-field at Appleton, E. L. SWANN.

†596/4b. *AMARANTHUS CHLOROSTACHYS* (Willd.) Thell. var. *PSEUDORETROFLEXUS* Thell. 18, S. Essex; market gardens, Clements Hall, Hawkwell, S. T. JERMYN, det. N. Y. SANDWITH and J. P. M. BRENNAN.

596/4c. *AMARANTHUS CHLOROSTACHYS* WILLD. var. *ARISTULATUS* Thell. 29, Cambs.; carrot-field, La Hogue, Chippenham, J. E. LOUSLEY, R. A. GRAHAM and D. McCLINTOCK, det. A. W. KLOOS (as *A. retroflexus* L. subsp. *pseudoretroflexus* Thell. f. *aristulatus* Thell.).

†596/5. *AMARANTHUS QUITENSIS* H.B.K. 29, Cambs.; carrot-field, La Hogue, Chippenham, J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK, det. J. P. M. BRENNAN, confirmed by A. W. KLOOS.

†596/6. *AMARANTHUS RETROFLEXUS* L. 28, W. Norf.; in carrot-field at Appleton, E. L. SWANN, det. J. P. M. BRENNAN.

†596/6b. *AMARANTHUS RETROFLEXUS* L. var. *DELILEI* (Richt. & Loret) Thell. 18, S. Essex; Dagenham Dock, 1948, J. E. LOUSLEY: Rochford, S. T. JERMYN, det. N. Y. SANDWITH and J. P. M. BRENNAN: 21, Middlx.; Harefield, 1945: Northolt rubbish-dump, 1947; J. E. LOUSLEY: 26, W. Suff.; carrot-field east of Brandon, J. E. LOUSLEY, R. A. GRAHAM and D. McCLINTOCK: all det. J. P. M. BRENNAN.

†596/9. *AMARANTHUS ALBUS* L. 28, W. Norf.; in carrot-field at Appleton, E. L. SWANN.

†596/9(2). *AMARANTHUS BLITOIDES* S. Watson. 25, E. Suff.; carrot-field, Capel St. Andrew, J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK, det. J. P. M. BRENNAN, confirmed by A. W. KLOOS. 28, W. Norf.; carrot-field at Appleton, E. L. SWANN, det. N. Y. SANDWITH. 29, Cambs.; carrot-field, La Hogue, Chippenham, J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK, det. J. P. M. BRENNAN, confirmed by A. W. KLOOS.

600/1. *CHENOPODIUM RUBRUM* L. 70, Cumb.; margin of pond, Salt Cotes village, near Newton Arlosh, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

600/4. *CHENOPODIUM HYBRIDUM* L. 30, Beds.; very weedy allotment land, Woburn, 1943, B. VERDCOURT.

600/6. *CHENOPODIUM MURALE* L. 28, W. Norf.; in carrot-field at Sculthorpe; R. P. LIBBEY.

§600/13. *CHENOPODIUM GLAUCUM* L. 57, Derby; (T.1) manure heap, Hulland, K. HOLLICK. *85, Fife; Tents Muir, R. A. BONIFACE and F. ROSE.

600/14. *CHENOPODIUM VULVARIA* L. 5, S. Somerset; in plenty. sandy hollows by trackway, Dunster Beach—"almost lost as a Somerset plant", W. D. Miller (1933, *B.E.C. 1932 Rep.*, 274)—F. ROSE. 9, Dorset; near the railway, Weymouth, 1947, J. OUNSTED, confirmed by J. P. M. BRENNAN.

†613/3. *SALSOLA PESTIFERA* Nelson. 28, W. Norf.; carrot-field at Gt. Bircham, E. L. SWANN. 29, Cambs.; carrot-field near La Hogue, Chippenham, J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK.

615/1. *POLYGONUM DUMETORUM* L. 15, E. Kent; Cuckoo Wood, Sandling, near Maidstone, 1948, H. W. B. BARLOW and C. WEST.

615/4. *POLYGONUM VIVIPARUM* L. 97, [Argyll]; coastal rocks and sand, Sanna Bay, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

§615/10. *POLYGONUM MITE* Schrank. ‡66, Durham; marshy ground west of Birtley, J. W. Heslop Harrison (1949, *Vasc. Subst.*, 34, 31).

615/11. *POLYGONUM MINUS* Huds. 70, Cumb.; margin of Loweswater, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

†615/19. *POLYGONUM PATULUM* M. Bieb. 28, W. Norf.; carrot-field at Little Massingham, R. P. LIBBEY, comm. E. L. SWANN, det. N. Y. SANDWITH.

618/3×7. *RUMEX CRISPUS* L. × *SANGUINEUS* L. 30, Beds.; gravel-pit, Eaton Socon, J. E. LOUSLEY, comm. J. G. DONY.

618/16(2). *RUMEX TENUIFOLIUS* (Wallr.) Löve. 17, Surrey; sandy common, Whitmoor, Worplesdon, E. C. WALLACE.

†618/20 2). *RUMEX CRISTATUS* DC. 18, S. Essex; Hadleigh, D. H. KENT, det. J. E. LOUSLEY; hybrids with *R. crispus* and *R. obtusifolius* also occurred.

†628/3. *EUPHORBIA CORALLIOIDES* L. 23, Oxon.; (5) lane between Canal and Port Meadow, Oxford, Mrs H. N. CLOKIE, comm. E. F. WARBURG.

§628/5. *EUPHORBIA PLATYPHYLLOS* L. Delete record for 6, N. Som., in *Watsonia*, 1, 258, which was *E. stricta*, see *Watsonia*, 1, 53; Bathampton should read Bathampton.—E.C.W.

†639/1. *HELXINE SOLEIROLII* Req. 1, W. Cornw.; wall of Helston Church facing road; very luxuriant specimens, 1948, C. WEST.

642/3. *BETULA NANA* L. 88, Mid Perth.; heathy bog at the back of Ben a' Chuallaich, Loch Rannoch, M. McCALLUM WEBSTER, det. A. J. WILMOTT.

650/8×12. *SALIX* × *LATIFOLIA* Forbes. 104, N. Ebudes; by the burn above the Manse, Isle of Eigg, C. W. MUIRHEAD, comm. CARLISLE MUSEUM, det. R. MELVILLE.

650/11(2)×11. *SALIX ARENARIA* L. × *REPENS* L. 104, N. Ebudes; by the Pier, Isle of Eigg, C. W. MUIRHEAD, comm. CARLISLE MUSEUM, det. R. MELVILLE.

†651/8. *POPULUS ALBA* L. †96, Easternness; Drumnadrochit, J. Gibbons, 1947 (see *Year Book*, 1949, 38).

§652/2. *EMPETRUM HERMAPHRODITUM* (Lange) Hagerup. †106, E. Ross; by Allt Taige, Glen Cannich, S. M. Walters and E. F. Warburg, 1947 (see *Year Book*, 1949, 40).

§655/1. *STRATIOTES ALOIDES* L. ††7, N. Wilts.; pond near Gastard, 1948, A. G. Spencer (1949, *Wilts. Arch. & N.H. Mag.*, 53, 92).

†656/1. *ELODEA CANADENSIS* Michx. 89, E. Perth.; in Loch Loch, at about 1450 ft., J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK.

†657/1. *VALLISNERIA SPIRALIS* L. 59, S. Lancs.; canal, Droylesden, near Manchester, T. R. LAYCOCK and B. HOPKINS.

659/1. *HAMMARBYA PALUDOSA* (L.) O. Kuntze. 9, Dorset; near Wareham, about 30 plants, 1947, J. OUNSTED. 96, Easternness; at 1500 ft. in Glen Einich, 1948, J. & I. OUNSTED.

668/3(4). *EPIPACTIS PENDULA* C. Thoms. 51, Flint; near Llyn Helig, 1906, J. A. WHELDON, det. and comm. D. P. YOUNG.

668/5. *EPIPACTIS ATROPURPUREA* Raf. 108, W. Suth.; rocks opposite Ardvreck Castle (one plant), 1949; on the cliffs at Keoldale near Durness, 1948; M. McCALLUM WEBSTER, det. A. J. WILMOTT.

669/2. ORCHIS MILITARIS L. 24, Bucks.; "a fine colony" in the southern part of the county is reported by J. E. Lousley (*The Naturalist*, 1947, 157); a further account of this important discovery is promised. (See Plate 1.)

669/9. ORCHIS PURPURELLA T. & T. A. Steph. 97, [Argyll]; around Kilchoan Bay, Ardnamurchan, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN. 107, E. Suth.; North Brora Muir, W. A. TOD.

§669/11. ORCHIS FUCHSII Druce. *97, [Argyll]; fields at Kilchoan Bay, Ardnamurchan, 1948, A. R. CLAPHAM and M. S. CAMPBELL.

§672/5. OPHRYS MUSCIFERA Huds. †H.14, Leix; Clonaslee, G. F. MITCHELL and D. A. WEBB (1950, *Irish Nat. Journ.*, 10, 107).

674(1)1×669/10. GYMNADENIA CONOPSEA (L.) R.Br. × ORCHIS ERICETORUM (Linton) E. S. Marshall. 89, E. Perth.; by Shee Water, 1½ miles below Spital of Glen Shee, J. E. LOUSLEY, R. GRAHAM and D. McCLEINTOCK.

674/4. COELOGLOSSUM VIRIDE (L.) Hartm. 11, S. Hants.; Old Winchester Hill, C. W. MUSGRAVE BURTON. 15, E. Kent; Mrs Verschoyle's record of this species (reported by me in *Watsonia*, 1, 54) has proved to be erroneous, the plant being *Aceras*; *Coeloglossum* was, however, found in quantity near Dover by J. LLOYD in 1943, and seen again in 1948—F. ROSE.

680/1. SISYRINCHUM ANGUSTIFOLIUM Mill. sec. Fernald. †30, Beds.; gravel pit, Eaton Socon, W. DURANT and J. G. DONY.

†683/1. CROCOSMIA CROCOSMIIFLORA (Lem.) N.E.Br. 107, E. Suth.; well established on riverbank at Brochrobie, Brora, 1949, W. A. TOD.

†690/2. ASPARAGUS OFFICINALIS L. 61, S.E. York; just above high water mark on foreshore of River Humber at Ferriby, 1948, R. LEWIS.

†702/19. ALLIUM PARADOXUM G. Don. 70, Cumb.; in the orchard at Blaithwaite House, Wigton, J. PARKIN, comm. CARLISLE MUSEUM.

†704/1. HYACINTHUS COMOSUS L. 69b, N. Lancs.; sand dunes at Roanhead, near Barrow-in-Furness, 1948, G. WILSON, comm. BARROW FIELD NATURALISTS.

§707/2. ORNITHOGALUM UMBELLATUM L. †*107, E. Suth.; well established on riverbank at Brochrobie, Brora, W. A. TOD.

715/1. TOFIELDIA PUSILLA (Michx.) Pers. 98, Argyll; several places on calcareous grassy areas about Ballachulish, W. H. PEARSALL, W. A. SLEDGE and R. MACKECHNIE.

PLATE 1.



O. militaris L. Buckinghamshire, v.-c. 24, June 1st, 1947.

Photo. by J. E. Lousley.

718/9×10. *JUNCUS ACUTIFLORUS* Ehrh. × *ARTICULATUS* L. 70, Cumb.; below Hudson Place, Loweswater, C. W. MUIRHEAD, comm. CARLISLE MUSEUM, det. P. W. RICHARDS.

718/11. *JUNCUS ALPINUS* Vill. 89, E. Perth.; shingle by Shee Water, 1½ miles below Spital of Glen Shee, J. E. LOUSLEY, R. GRAHAM and D. McCLINTOCK.

§718/14. *JUNCUS COMPRESSUS* Jacq. *98, Argyll; grassy roadside, Lismore, W. A. SLEDGE and E. C. WALLACE.

718/16. *JUNCUS TENUIS* Willd. †S., Guernsey; disused quarry near L'Ancrese Common, a large patch with abundant remains of last year's fruits, T. G. TUTIN.

718/22. *JUNCUS BIGLUMIS* L. 98, Argyll; Bidean nam Bian, Glen-coe, E. C. WALLACE.

719/8. *LUZULA SPICATA* (L.) DC. 105, W. Ross; near top of Sgurr nan Saighead, Five Sisters, 1948, E. F. WARBURG: Meall a Chrasgaidh, Fannich; Ben Alligin, Torridon, 1948; E. C. WALLACE.

722/3. *SPARGANIUM SIMPLEX* Huds. 37, Wores.; ditch on north of main road to Tewkesbury, Bushley, F. M. DAY.

722/5. *SPARGANIUM MINIMUM* Fr. 70, Cumb.; small pond on the outskirts of a wood north of Dalston, D. GRAHAM, comm. CARLISLE MUSEUM. 108, W. Suth.; in a bog by Loch Eilianach between Drum-beg and Clashnessie, M. McCALLUM WEBSTER.

§728/1. *WOLFFIA ARRHIZA* (L.) Wimm. †8, S. Wilts.; Wincombe Park, 1946, J. D. GROSE, (1949, *Wilts. Arch. & N.H. Mag.*, 53, 93).

731/1. *LURONIUM NATANS* (L.) Raf. 59, S. Lancs.; still water of canal on coal measures, by Medlock Vale, T. R. LAYCOCK.

737/2. *POTAMOGETON POLYGONIFOLIUS* Pourt. 98, Argyll; several places on limestone island of Lismore, E. C. WALLACE.

737/4. *POTAMOGETON COLORATUS* Hornem. 98, Argyll; in all three lochs on Lismore, W. A. SLEDGE and E. C. WALLACE.

737/17×22. *POTAMOGETON* × *LINTONI* Fryer. 39, Staffs.; in marl pit and on nearby soggy ground, Marychurch, West Bromwich, 1948, V. JACOBS, det. J. E. DANDY.

737/22. *POTAMOGETON FRIESII* Rupr. 21, Middx.; Hampstead Ponds, 1949, H. C. HARRIS and D. H. KENT, det. J. E. DANDY and G. TAYLOR.

737/23. *POTAMOGETON BERCHTOLDII* Fieb. 98, Argyll; deep, highly calcareous water, Loch Fiairt, Lismore, W. A. SLEDGE and E. C. WALLACE.

737/25. *POTAMOGETON PUSILLUS* L. 61, S.E. York; in ponds, dis-used gravel pits, Kelsey Hill, near Burstwick, 1947, R. LEWIS, det. J. E. DANDY and G. TAYLOR.

§739/3. *ZANNICHELLIA GIBBEROSA* Reichb. †66, Durham; clay pit near Birtley, J. W. Heslop Harrison (1949, *Vasc. Subst.*, 34, 31).

745/1B. *ELEOCHARIS PALUSTRIS* (L.) R. Br. em. R. & S. subsp. *MICROCARPA* S. M. Walters. 30, Beds.; water meadow, Eaton Socon, S. M. WALTERS.

§745/2. *ELEOCHARIS UNIGLUMIS* (Link) Schult. *30, Beds.; water meadow, Eaton Socon, S. M. WALTERS. †48, Mer.; Penmaenpool, 1948, det. S. M. Walters (see *Year Book*, 1950, 50).

746/3. *SCIRPUS LACUSTRIS* L. 105, W. Ross; lochan near Loch Osgaig, Achiltibuie; 108, W. Suth.; Loch an Ordain near Lochinver, M. McCALLUM WEBSTER.

§746/4. *SCIRPUS TABERNAEMONTANI* Gmel. *30, Beds.; gravel pit, Eaton Socon, J. G. DONY.

746/13. *SCIRPUS FLUITANS* L. 105, W. Ross; small pool by the road between Achiltibuie and Stac Polly, M. McCALLUM WEBSTER.

747/1. *ERIOPHORUM LATIFOLIUM* Hoppe. 98, Argyll; several places on moorland in Appin, as in Glen Stockdale, E. C. WALLACE.

748/1. *RHYNCHOSPORA FUSCA* (L.) Ait. f. 97, Westernness; Ach-atacle, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

753/4. *CAREX VESICARIA* L. 107, E. Suth.; Badnellan, Brora, W. A. Tod, det. A. J. WILMOTT.

753/6. *CAREX SAXATILIS* L. 98, Argyll; Sgar na L-Ulaidh, south of Glencoe, W. A. SLEDGE. 105, W. Ross; above Loch a' Choir Uaine, The Saddle, Glenshiel, 1948, E. F. WARBURG.

753/7×4. *CAREX ROSTRATA* Stokes × *VESICARIA* L. 107, E. Suth.; Loch na Lean, Doll, Brora, W. A. Tod, det. A. J. WILMOTT.

753/14. *CAREX CAPILLARIS* L. 98, Argyll; several places on lime-stone near Ballachulish, R. MACKECHNIE and E. C. WALLACE.

753/17. *CAREX DISTANS* L. 97, [Argyll]; coastal rocks, Sanna Bay, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

§753/18. *CAREX PUNCTATA* Gaud. *H.35, W. Donegal; Dunfanaghy Estuary, E. A. G. DUFFEY, comm. T. G. TUTIN.

753/19×20(2). *CAREX HOSTIANA* DC. × *TUMIDICARPA* Anders. 28, W. Norf.; damp peat overlying glacial gravel, East Winch Common, Mrs B. WELCH, comm. and det. R. P. LIBBEY and E. L. SWANN, confirmed by E. NELMES.

753/22. *CAREX SEROTINA* Mérat. 29, Cambs.; by pond in Fulbourn village, T. G. TUTIN. 70, Cumb.; shingly margin of Thurstonfield Lough, near Carlisle, C. W. MUIRHEAD, comm. CARLISLE MUSEUM, det. E. NELMES. S., Guernsey; L'Ancrese Common, T. G. TUTIN.

753/23. *CAREX EXTENSA* Good. 34, W. Glos.; salt marshes by River Wye, Beachley, C. C. TOWNSEND.

753/27. *CAREX HUMILIS* Leysser. 34, W. Glos.; (4) Symond's Yat, promontory near the Bowlers Hole, E. W. JONES.

§753/28. *CAREX CARYOPHYLLEA* Latour. *97, [Argyll]; around Kilchoan Bay, 1948, M. S. CAMPBELL, A. R. CLAPHAM and J. E. RAVEN.

§753/29. *CAREX ERICETORUM* Poll. *66, Durham; Widdybank Fell, on sugar limestone with *Viola rupestris*, *Carex capillaris*, *Kobresia simpliciuscula* and *Sesleria caerulea*, T. G. TUTIN.

§753/37. *CAREX PAUPERCULA* Michx. ‡96, Easternness; S. of L. Affric, 1947; ‡106, E. ROSS; S. side of Loch Mullardoch, 1947, M. McCallum Webster; (see *Year Book*, 1949, 39).

753/45. *CAREX ELATA* All. 23, Oxon.; (5) Steeple Barton, E. W. JONES.

753/51. *CAREX BIGELOWII* Torr. 97, [Argyll]; north rocks of Ben Hiant, Ardnamurchan, 1948, J. E. RAVEN.

§753/52. *CAREX ELONGATA* L. *24, Bucks.; ditch in small wood north of road from Slough to Uxbridge, 1940, Mrs I. W. DAVIES, det. E. NELMES.

753/57. *CAREX REMOTA* L. 105, W. Ross; in a damp birch wood near the road at Loch an Eisg-Brachaidh by Inverkirkraig, M. McCallum Webster, det. A. J. WILMOTT.

§753/61. *CAREX PAIRAEI* F. Schultz. *57, Derby; (T.1) Clifton; also Holland; K. HOLLICK, det. E. NELMES.

753/65b. *CAREX DIANDRA* Schrank var. MAJOR (Koch) Asch. & Graebn. 38, Warw.; in marshy area of old canal near Cosford, 1948, P. FALK and D. E. ALLEN.

§753/66. *CAREX DISTICHA* Huds. ‡110, Outer Hebrides; dune flats near Barvas, Lewis, J. W. Heslop Harrison (1949, *Vasc. Subst.*, 34, 31).

753/75. *CAREX DIOICA* Linn. 33, E. Glos.; still at the bog at Seven Springs, Naunton, in small quantity, C. C. TOWNSEND.

+754/8. *ECHINOCHLOA CRUS-GALLI* (L.) Beauv. 28, W. Norf.; carrot field at Gt. Bircham, R. P. LIBBEY and E. L. SWANN; a stiff and erect form which, C. E. Hubbard writes, "appears to be the plant known to some North American botanists as *E. pungens* (Poir.) Rydb."

+754/8b. *ECHINOCHLOA CRUS-GALLI* (L.) Beauv. var. *ARISTATA* Rchb. 28, W. Norf.; in carrot field at Gt. Bircham, R. P. LIBBEY and E. L. SWANN.

+754/9(2). *ECHINOCHLOA CRUS-PAVONIS* (H.B.K.) Schult. 28, W. Norf.; in carrot field at Gt. Bircham, R. P. LIBBEY and E. L. SWANN.

+756/2. *SETARIA VIRIDIS* (L.) Beauv. 28, W. Norf.; in carrot field at Bawsey, R. P. LIBBEY and E. L. SWANN.

+756/3. *SETARIA GLAUCA* (L.) Beauv. 28, W. Norf.; carrot field at Bawsey, R. P. LIBBEY and E. L. SWANN.

+756/4. *SETARIA VERTICILLATA* (L.) Beauv. 30, Beds.; railway siding, Flitwick, J. G. DONY, det. C. E. HUBBARD.

+760/1. *TRAGUS RACEMOSUS* (L.) All. 30, Beds.; railway siding, Flitwick, J. G. DONY, det. C. E. HUBBARD.

+762/1. *ELEUSINE INDICA* (L.) Gaertn. 30, Beds.; railway siding, Flitwick, J. G. DONY, det. C. E. HUBBARD.

782/1. *POLYPOGON MONSPELIENSIS* (L.) Desf. 27, E. Norf.; dunes north of Winterton, J. OUNSTED.

+794/1c. *AVENA FATUA* Linn. var. *GLABRATA* Peterm. 33, E. Glos.; waste ground by the Gloucester Ring Road, 1948, in a flax field, Harp Mill, Cheltenham, 1948, C. C. TOWNSEND, det. C. E. HUBBARD.

+794/1d. *AVENA FATUA* Linn. var. *PILOSISSIMA* S. F. Gray. 33, E. Glos.; Tewkesbury Flour Mills, abundant, C. C. TOWNSEND, det. C. E. HUBBARD.

+794/5(2). *AVENA LUDOVICIANA* Durieu. 37, Worcs.; Defford Common, F. M. DAY, det. C. E. HUBBARD.

795/1b. *ARRHENATHERUM ELATIUS* (L.) Mert. & Koch var. *BIARIS-TATUM* (Peterm.) Druce. 33, E. Glos.; Mythe Tute, Tewkesbury, F. M. DAY, det. C. E. HUBBARD.

†796/1. *GAUDINIA FRAGILIS* (L.) Beauv. 4, N. Devon; a small patch on rough ground surrounding a small pond near the sea at Fremington, M. McCALLUM WEBSTER, det. C. E. HUBBARD.

†798/2. *CHLORIS VIRGATA* Swartz. 30, Beds.; railway siding, Flitwick, J. P. M. BRENNAN and J. G. DONY, det. C. E. HUBBARD.

†798/5. *CHLORIS TRUNCATA* R. Br. 30, Beds.; arable field, Beeston, Sandy, G. COPE; railway siding, Flitwick, J. P. M. BRENNAN and J. G. DONY, det. C. E. HUBBARD.

§809/4. *KOELERIA ALBESCENS* DC. *49, Caern.; limestone slope, Gloddaerth, 1947, J. E. LOUSLEY, J. E. WOODHEAD and C. WEST, det. P. JANSEN, who writes, "Very similar to the Dutch forms but densely caespitose. In my country *K. albescens* is loosely caespitose with pseudo-stolons and usually large whitish more or less loose lower sheaths."

§822/1. *BRIZA MEDIA* L. *108, W. Suth.; pasture by Ardreck Castle, Inchnadamph, M. McCALLUM WEBSTER.

†822/3. *BRIZA MAXIMA* L. 22, Berks.; (5) roadside adjacent to Leighton Park School, Reading, J. OUNSTED.

§826/5. *FESTUCA ALTISSIMA* All. *98, Argyll; ravine of Glen Stockdale, Appin, W. A. SLEDGE and E. C. WALLACE.

§826/18. *VULPIA MYUROS* (L.) Gmel. †48, Mer.; Penmaenpool, 1948, (see *Year Book*, 1950, 50).

†827/1(2). *BROMUS GUSSONEI* Parl. 30, Beds.; rubbish dump, Sundon, J. P. M. BRENNAN and N. Y. SANDWICH.

†827/9. *BROMUS INERMIS* Leyss. 59, S. Lanes.; estuary bank near River Ribble, close to Bottom of Hulton, near Preston, first noticed 1940, still there 1949, H. E. BUNKER.

†827/13. *BROMUS UNIOLOIDES* H.B. & K. 30, Beds.; railway siding, Flitwick, 1948, J. G. DONY, det. C. E. HUBBARD.

§827/19(2). *BROMUS LEPIDUS* Holmb. 32, E. Glos.; Bourton Down, Bourton on the Hill, F. M. DAY, det. C. E. HUBBARD. †48, Mer.; Llanfacreth, 1949 (see *Year Book*, 1950, 50). †92, Easternness; meadow near mouth of R. Coiltie, Drumnadrochit, A. J. Wilmott (see *Year Book*, 1949, 39).

†827/27. *BROMUS SQUARROSUS* L. 34, W. Glos.; Avonmouth Docks, 1931, H. J. GIBBONS, confirmed by C. E. HUBBARD, comm. N. Y. SANDWICH—see 1948, Bristol Botany in 1948, *Proc. Brist. Nat. Soc.*, 27, 389, for remarks on previous erroneous record.

829/1f. *LOLIUM PERENNE* L. var. *CRISTATUM* Pers. 33, E. Glos.; (2a) in dry grass verges, Cheltenham, 1948, T. A. SPRAGUE, comm. W. R. PRICE, det. C. E. HUBBARD, who writes:—"It would be most useful if some cultural experiments with this grass could be conducted over a period of three or four years, to see whether climatic conditions (light, as well as temperature and rainfall) have anything to do with the congested inflorescences. It seems to me that the spike commences to develop in a normal fashion, then, due to some unexplained cause, growth takes place very slowly, with the result that the internodes between the spikelets are much abbreviated. I have found inflorescences, apparently normal, growing on the same plants as the abnormal ones; whether they were produced earlier or later, I cannot say. Of course, it may be due to nematode attack, but I have seen no evidence that this is so."

829/4×1. *LOLIUM MULTIFLORUM* Lam. × *PERENNE* L. 33, E. Glos.; waste ground, Tewkesbury Flour Mills, common, C. C. TOWNSEND, det. C. E. HUBBARD.

830/1×2. *AGROPYRON JUNCEUM* (L.) Beauv. × *PUNGENS* (Pers.) Roem. et Schult. 61, S.E. York; sand dunes, Spurn Head, 1947, R. LEWIS, det. C. E. HUBBARD.

§840/1. *TAXUS BACCATA* L. †*107, E. Suth.; hillside above Crackaig, Loth, 1948, W. A. TOD.

†842/1. *LARIX DECIDUA* Mill. 88, Mid Perth.; rocks at about 2750' above Lochan-nan-Cat, Ben Lawers, a single seedling, J. E. LOUSLEY.

§844/2×5. *EQUISETUM* × *LITORALE* Kühl. †48, Mer.; Mynydd Gwernraig, 1948, det. P. Taylor (see *Year Book*, 1950, 50).

851/2. *ASPLENIUM TRICHOMANES* L. 17, Surrey; (IIIa) four localities on bridges and old walls in Godalming district, 1948, O. POLUNIN.

851/3. *ASPLENIUM VIRIDE* Huds. 73, Kirke.; Millyea, above Loch Dungeon, H. MILNE-REDHEAD and E. C. WALLACE. 105, W. Ross; rocks near waterfall, wood above Ratagan, Glenshiel, 1948, E. F. WARBURG.

§851/9. *ASPLENIUM SEPTENTRIONALE* (L.) Hoffm. *97, [Argyll]; about a dozen plants on a single large boulder in a gully above Sanna Bay, Ardnamurchan, 1948, J. E. RAVEN.

853/2. *ATHYRIUM ALPESTRE* Rylands. 105, W. Ross; rocks above Loch a' Choir Uaine, The Saddle, Glenshiel, 1948, E. F. WARBURG.

§854/1. *POLYSTICHUM SETIFERUM* (Forsk.) Woynar. *61, S.E. York; in small plantation c. 100 yards from the sea at Holmpton Hall, near Withernsea, 1947, R. LEWIS, confirmed by W. A. SLEDGE.

856/1(3). *DRYOPTERIS ABBREVIATA* (DC.) C.Chr. 104, Mid Ebudes; Coir a Mhadaidh, Cuillins, Skye, 1948, E. F. WARBURG.

§*856/10. *DRYOPTERIS LINNEANA* (L.) Druce. *†30, Beds.; brickwork, Leagrave, 1948, P. TAYLOR and J. G. DONY (as *Gymnocarpium Dryopteris* (L.) Newm.).

§856/11. *DRYOPTERIS ROBERTIANA* (Hoffm.) Christ. *†30, Beds.; brickwork, Leagrave, 1948, P. TAYLOR and J. G. DONY (as *Gymnocarpium Robertianum* (Hoffm.) Newm.).

857/1. *CYSTOPTERIS MONTANA* (Lam.) Desv. 88, Mid Perth.; three quite separate colonies, one nearly a mile distant from the other two, on Ben Lawers, 1947 and 1948, J. E. RAVEN. 98, Argyll; Glencoe Mts. in a few gullies, 1949, P. R. BELL and E. C. WALLACE.

*§957/4. *CYSTOPTERIS FRAGILIS* (L.) Bernh. *†30, Beds.; brickwork, Leagrave, 1948, P. TAYLOR and J. G. DONY.

864/1. *OSMUNDA REGALES* L. 105, W. Ross; several places about Torridon and Wester Alligin, 1948, R. MACKECHNIE and E. C. WALLACE; by a burn running from Loch Osgaig into Garvie bay, by Achiltibuie, M. McCALLUM WEBSTER.

+868/1. *AZOLLA FILICULOIDES* Lam. 38, Warw.; abundant in canal N. of Majors Green, Solihull, V. JACOBS, det. A. J. WILMOTT.

870/6. *LYCOPODIUM INUNDATUM* L. 22, Berks.; damp track in woodland near Penny Hill, Bracknell, E. C. WALLACE.

CHAROPHYTA. All gatherings determined or confirmed by G. O. ALLEN.

872/2. *NITELLA OPACA* Ag. 70, Cumb.; Ennerdale, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

§872/6b. *NITELLA MUCRONATA* Miq. var. *GRACILLIMA* Gr. & B.-W. *38, Warw.; old arm of Oxford Canal, Newbold-on-Avon, near Rugby, J. L. LYON, comm. G. O. ALLEN.

§873/1. *TOLYPELLA INTRICATA* Leonh. *27, E. Norf.; ditch, Gillingham, G. H. ROCKE and C. WEST.

§876/3. *CHARA VULGARIS* L. *79, Selk.; near Ashkirk, L. C. LYON and J. L. LYON.

876/3b. *CHARA VULGARIS* L. var. *LONGIBRACTEATA* (Kuetz.) Kuetz. 61, S.E. York; in pond, Kellythorpe Marsh, near Driffield, 1948, R. LEWIS. 64, M.W. York; in old river course near Coniston in Wharfedale, J. N. FRANKLAND.

876/3c. *CHARA VULGARIS* L. var. *PAPILLATA* Wallr. 29, Cambs.; pit near Bottisham, D. COOMBE and C. WEST: Adventurers Lode; pools by New Bedford River, between Mepal and Sutton Gault, L. C. LYON and G. O. ALLEN. 61, S.E. York; in pond, cliff top, south end of Withernsea, 1948, R. LEWIS, det. G. O. ALLEN, who comments, "It is an excep

tionally small plant for this variety which is generally large, but it agrees in other respects." 79, Selk.; near Ashkirk, L. C. LYON and J. L. LYON. "H.21, Dublin; pond in Botanic Garden, Glasnevin, 1871, "W.J.D.", det. G. O. ALLEN.

876/3d. *CHARA VULGARIS* L. var. *REFRACTA* (Kuetz.) Gr. & B.-W. 15, E. Kent; ditches between Stodmarsh and Grove Ferry, L. W. WILSON and G. O. ALLEN.

876/3e. *CHARA VULGARIS* L. var. *CRASSICAULIS* Kuetz. 79, Selk.; near Ashkirk, L. C. LYON and J. L. LYON.

§876/5. *CHARA HISPIDA* L. *79, Selk.; near Ashkirk, L. C. LYON and J. L. LYON.

§876/7. *CHARA CONTRARIA* Kuetz. *21, Middx.; Longwater, Hampton Court Park, D. H. KENT.

876/7b. *CHARA CONTRARIA* Kuetz. var. *HISPIDULA* Br. 29, Cambs.; near Bottisham, D. COOMBE and C. WEST. 102, S. Ebudes; shore pools, Urugaig, Isle of Colonsay, C. W. MUIRHEAD, comm. CARLISLE MUSEUM.

876/12b. *CHARA ASPERA* Willd. var. *SUBINERMIS* Kuetz. 70, Cumb.; R. Irthing, near the Popping Stone, Gilsland, R. A. BOYD, comm. C. W. MUIRHEAD.

§876/16a. *CHARA GLOBULARIS* Thuill. var. *CAPILLACEA* (Thuill.) Zanev. *64, M.W. York; shallow muddy backwater pools by R. Ure, 1946, C. M. ROB.

876/16b. *CHARA GLOBULARIS* Thuill. var. *GLOBULARIS*. 65, N.W. York; small pool near R. Ure, near Jervaulx, C. M. ROB.

§876/17. *CHARA DELICATULA* Ag. *79, Selk.; Ashkirk, L. C. LYON and J. L. LYON. *89, E. Perth; Loch Marlee, L. C. LYON and J. L. LYON. *97, Westernness; An Leth Allt, above Glasnacardoch, Mallaig; 104, N. Ebudes; peaty pool below the Sgurr of Eigg, J. ROBERTSON and C. W. MUIRHEAD, comm. CARLISLE MUSEUM.