

**ADDITIONS AND EMENDATIONS TO THE COMITAL FLORA FOR
FIFE AND KINROSS (v.-c. 85)**

By K. N. G. MACLEAY.

The publication of W. Young's list (1936) has emphasized the need for a number of corrections and additions to the "Comital Flora" for vice-county 85.

Examination of the herbaria listed below, observations by the staff and students of the Department of Botany in the University of St. Andrews and some records of my own have further enlarged the list of necessary emendations.

In most cases Young records localities other than the under-mentioned; the examples selected are those which seem to be the most reliable or which can readily be substantiated. A number of the plants mentioned are merely casual; others are doubtful and these are shown in square brackets; while some, well known to have occurred in the vice-county in the past, are now presumed to be extinct and are shown in pointed brackets. Aliens and other plants not native to the vice-county are marked with a dagger. The records for aliens are written (85) unless they are alien in the whole country.

- 2/4. *THALICTRUM MAJUS* Crantz. North Queensferry, A. C. Christie, J. H. Balfour, 1902; W. E. Evans, 1905; in Herb. R.B.G.; add 85 to *C.F.*; see also *Rep. Bot. Soc. & E.C.*, **10**, 802 (1935).
- 6/9. *RANUNCULUS ARVENSIS* L. Cupar, H. Matthews, 1890; Crail, G. Sim, in Herb. St.A.; remove brackets from record in *C.F.*
- †6/13. *RANUNCULUS PARVIFLORUS* L. Charlestown, A. C. Christie, 1871, in Herb. R.B.G.; sole record; add (85) to *C.F.*
- 6/22. *RANUNCULUS TRICHOPHYLLUS* Chaix. Dunfermline, J. H. Balfour & J. Sadler, 1863; Kinghorn Loch, J. Sadler, 1865, in Herb. R.B.G.; add 85 to *C.F.*
- 6/23. *RANUNCULUS DROUETII* Godr. Crail's Muir, G. Sim, 1889; Morton Lochs, Kinghorn Loch, G. West, 1910; still there 1946, K. N. G. MacLeay, in Herb. St.A.; add 85 to *C.F.*; but see *Top. Bot., Suppl.*, **2**, 2.
- 6/25. *RANUNCULUS PELTATUS* Schrank. Lindores, Lochmill, Morton, Kinghorn Lochs, G. West, 1910; still present 1946, K. N. G. MacLeay in Herb. St.A.; add 85 to *C.F.*, but see *Top. Bot.*, ed. 2, p. 6 (1883).
- †13/3. *DELPHINIUM AJACIS* L. Ladybank station, J. Sadler, 1876, in Herb. R.B.G.; sole record and probable garden escape, add 85 to *C.F.*
- †21/6. *PAPAVER HYBRIDUM* L. St. David's, A. C. Christie, 1880, in Herb. R.B.G.; sole record; add (85) to *C.F.*

- 23/1. *GLAUCIUM FLAVUM* Crantz (*G. Glaucium* (L.) Karst.). Many old records for the v.-c.; now almost certainly extinct there; write <85> in *C.F.*
- +36/2. *BARBAREA VERNA* (Mill.) Aschers. Crail, *G. Sim*, in Herb. St.A.; Inverkeithing, *A. Robertson*, 1892; add 85 to *C.F.*
- +36/5. *BARBAREA INTERMEDIA* Bor. Ceres, *C. Howie*, 1894; in Herb. R.B.G.; add 85 to *C.F.*
- +43/4. *DRABA MURALIS* L. Crail, *G. Sim*, 1889, in Herb. St.A.; Raith, *J. H. Balfour*, 1902; add (85) to *C.F.*, but see *Watsonia*, 2, 336 (1952).
- 44/1. *EROPHILA VERNA* (L.) Chevall. North Queensferry, 1835, in Herb. R.B.G.; Crail, Elie, St. Andrews Links, common, *K. N. G. MacLeay*, 1938, in Herb. St.A.; add 85 to *C.F.*
- 45/5. *COCHLEARIA ANGLICA* L. Kincaig, *W. Wood*, 1862; Kinghorn, Inchcolm, North Queensferry, in Herb. Somerville; add 85 to *C.F.*
- +49/5. *SISYMBRIUM IRIO* L. Charlestown, *A. C. Christie*, 1870; Elie Harbour, *W. Wood*, 1862; add 85 to *C.F.*
- 53/1. *SUBULARIA AQUATICA* L. Loch Leven, 1894, in Herb. Somerville; add 85 to *C.F.*
- +61/2. *LEPIDIUM LATIFOLIUM* L. Wemyss Castle, *A. H. Gibson*, 1882, in Herb. R.B.G.; several other good records; write (85) in *C.F.*
- +61/3. *CARDARIA DRABA* (L.) Desv. (*Lepidium Draba* L.). Crail, Thornton, *G. Sim*; Kirkcaldy, *W. Young*; both in Herb. St.A.; well established but not naturalised; add 85 to *C.F.*
- 75/1. *CRAMBE MARITIMA* L. Elie, *W. F. Evans*, 1907, is the latest record from Fife; almost certainly now extinct; write <85> in *C.F.*
- 88/3. *VIOLA REICHENBACHIANA* Bor. (*V. sylvestris* Lam. p.p.). Burntisland, *J. H. Balfour*, 1856; Pitscottie, *K. N. G. MacLeay*, 1939, in Herb. St.A.; add 85 to *C.F.*
- 88/22-30. *VIOLA ARVENSIS* Murr. Kinross, *J. R. Matthews*, 1922, as *V. agrestis* Jord.; add 85 to *C.F.*
- 88/34. *VIOLA CURTISII* E. Forst. Leslie, *G. Sim*, 1907; this specimen is not in his herbarium and was almost certainly *V. lutea*; the locality is most unlikely for *V. Curtisii*; delete 85 from *C.F.*
- 89/2. *POLYGALA VULGARIS* L. North Queensferry, 1831, in Herb. R.B.G.; Pitscottie, Tents Muir, *K. N. G. MacLeay*, in Herb. St.A.; add 85 to *C.F.*
- +96/3. *SILENE CONICA* L. Elie, *A. C. Christie*, 1882; casual; add (85) to *C.F.*
- +96/6. *SILENE ANGLICA* var. *QUINQUEVULNERA* (L.) Mert. & Koch (*S. quinquevulnera* L.). Shore of Lindores Loch, *Col. Drummond-Hay*, 1878; casual; add (85) to *C.F.*

- 104/1. SPERGULA ARVENSIS L. Very common in cultivated fields throughout the v.-c.; add 85 to *C.F.*
- †106/1. POLYCARPON TETRAPHYLLUM (L.) L. Charlestown, *A. C. Christie*, 1870, in Herb. R.B.G.; sole record; add (85) to *C.F.*
- 112/1. HYPERICUM ANDROSAEMUM L. "Fife", *Maughan*, 1836; *Culross, A. Robertson*, 1834; no later records; write <85> in *C.F.*
- 116/1. LAVATERA ARBOREA L. Isle of May, *R. Sibbald*, 1710, N.S.A., 1845; still there 1939, *K. N. G. MacLeay*; *Largo, W. Young*, 1919, in Herb. St.A.; remove brackets from record in *C.F.*
- †128/1. ERODIUM MARITIMUM (L.) L'Hérit. *Crail, G. Sim & C. C. Babington*, 1885; add (85) to *C.F.*
- †128/2. ERODIUM MOSCHATUM (L.) L'Hérit. *Balcomie Links, G. Sim*, 1885, certified by *C. C. Babington*; add (85) to *C.F.*
- †137/1. EUONYMUS EUROPAEUS L. *Kilconquhar, Burntisland, J. H. Balfour*, 1859; almost certainly planted; still at *Kilconquhar* 1946, *K. N. G. MacLeay*; add (85) to *C.F.*
- 149/3. ULEX MINOR Roth. *Newport, W. G. Smith*, 1886; probably a misidentification; not there 1946, *K. N. G. MacLeay*; delete from *C.F.*
- 153/4. MEDICAGO HISPIDA Gaertn. (*M. denticulata* Willd.). Recorded by *Trail* from "Fife" without further data; no localities or specimens known to *Young*; very doubtful; delete 85 from *C.F.*
- 155/13. TRIFOLIUM FRAGIFERUM L. *Guardbridge*, 1794, in Herb. *Brodie* in R.B.G.; not seen since, write <85> in *C.F.*
- †155/19. TRIFOLIUM AUREUM Poll. (*T. agrarium* auct.). Not known to, or recorded by *Young* but not unlikely to occur; write [85] in *C.F.* pending further evidence.
- 167/1. OXYTROPIS HALLERI Bunge (*O. uralensis* DC. p.p.). Now almost certainly extinct in Fife; the North Queensferry station was destroyed by the building of the Forth Bridge; no specimens have been seen at *Bishop Hill* for many years; write <85> in *C.F.*
- †176/7. VICIA BITHYNICA (L.) L. *Kinghorn, W. E. Evans*, 1903; *Prof. Trail*, 1905, casual; add (85) to *C.F.*
- 176/9. VICIA LUTEA L. Last recorded from North Queensferry in 1904; *Young* considered it as extinct in Fife; write <85> in *C.F.*
- 178/2. LATHYRUS SYLVESTRIS L. *Cauldron Linn, J. H. Balfour & J. Sadler*, 1871; now almost certainly extinct in Fife; add <85> to *C.F.*
- †178/9. LATHYRUS APHACA L. *Burntisland docks, F. M. Webb*, 1878; a ballast plant not recently seen; add (85) to *C.F.*

- †184/10. SPIRAEA SALICIFOLIA L. St. Fort, *W. G. Smith*, 1886; Ladybank, Cameron Bridge, *W. Young*; Kilconquhar, *K. N. G. MacLeay*, 1945, in Herb. St.A.; add 85 to *C.F.*
- †188/1. FRAGARIA MOSCHATA Duchesne. Kinghorn, *J. H. Balfour*, 1902; Aberdour, *A. H. Gibson*, in Herb. R.B.G.; add 85 to *C.F.*
- 194/2. ROSA ARVENSIS Huds. St. Andrews, *K. N. G. MacLeay*, 1941, det. *R. Melville*; see *Rep. Bot. Soc. & E.C.*, **10**, 164 (1933) for earlier record.
- 194/6-11. ROSA CANINA L. (incl. *R. lutetiana* Léman, *R. dumetorum* Thuill., etc.). Near Kirkcaldy, *A. H. Gibson*, 1882, in Herb. R.B.G.; Blairadam, *J. R. Matthews*, 1926; Burntisland, *F. M. Webb*, 1876, in Herb. R.B.G.; see *Rep. Bot. Soc. & E.C.*, **8**, 113 (1927) and **10**, 164 (1933) for other records.
- 194/12. ROSA CAESIA Sm. (*R. glauca* Vill. ex Lois., non Pourr.; *R. coriifolia* Fr.). Orrock Hill, *J. Boswell Syme*, 1876, in Herb. R.B.G.; see *Rep. Bot. Soc. & E.C.*, **8**, 113 (1927) for other records.
- 194/19p.p. ROSA SHERARDI Davies. Milnathort, *J. R. Matthews*, 1926; St. Andrews, *K. N. G. MacLeay*, 1941, det. *R. Melville*, in Herb. St.A.; included in *C.F.* in *R. tomentosa* for which there is no record for the v.-c.; see *Rep. Bot. Soc. & E.C.*, **8**, 114 (1927) for other records.
- 195/1. MALUS SYLVESTRIS Mill. (*Pyrus Malus* L.). St. Andrews, *J. H. Wilson*; Lindores, *K. N. G. MacLeay*, 1938, in Herb. St.A.; delete 85 from exceptions in *C.F.*
- 199/1. SAXIFRAGA AZOIDES L. Lomond Hills, *A. H. Millar*, 1895; no recent records but quite a possible station; confirmation required; add [85] to *C.F.*
- 203/1. CHRYSOSPLENIUM ALTERNIFOLIUM L. Lomond Hills, Saline, *J. H. Balfour*, 1902; Dunino, *K. N. G. MacLeay*, 1938; add 85 to *C.F.*
- †207/5. RIBES ALPINUM L. Cambo, *G. Sim*, 1900, in Herb. St.A.; Raith, *J. H. Balfour*, 1902; add (85) to *C.F.*
- †211/10. SEDUM DASYPHYLLUM L. Fife Ness, *Leighton & Swann*, 1840; not seen for many years, presumably extinct; add <85> to *C.F.*
- 217/3. CALLITRICHE PALUSTRIS L. (*C. verna* L.). Isle of May, *G. West*, 1910; Kenly Burn, *G. Sim*; Tents Muir, *K. N. G. MacLeay*, 1942, in Herb. St.A.; add 85 to *C.F.*
- 220/5. EPILOBIUM ADNATUM Griseb. (*E. tetragonum* L. p.p.). Lindores and Kilconquhar Lochs, *G. West*, 1910; still present in 1946, *K. N. G. MacLeay* in Herb. St.A.; add 85 to *C.F.*
- 220/8. EPILOBIUM ROSEUM Schreb. Inverkeithing, *W. E. Evans*, 1907; add 85 to *C.F.*

- 220/13. *EPILOBIUM ANAGALLIDIFOLIUM* Lam. (*E. alpinum* L. p.p.).
West Lomond Hill, Glen Queich, *J. H. Balfour & J. Sadler*, 1862; add 85 to *C.F.*
- †223/1. *OENOTHERA BIENNIS* L. Pettycur, *W. E. Evans*, 1907;
Dairsie, 1939, Dunbog, 1944, *K. N. G. MacLeay*, in
Herb. St.A.; add 85 to *C.F.*
- 239/2. *ERYNGIUM MARITIMUM* L. Latest record is that from Burnt-
island in 1871, now presumably extinct; write <85> in
C.F.
- †258/1. *CHAEROPHYLLUM AUREUM* L. St. Andrews, *J. A. Macdonald*,
1938, in *Herb. St.A.* A landslide in the winter of 1939
caused all the plants to fall into the sea and no others
have since appeared. Write <85> in *C.F.*
- †261/3. *ANTHRISCUS CEREFOLIUM* (L.) Hoffm. (*Cerefolium Cerefolium*
(L.) Schinz & Thell.). Kirkcaldy, *W. Young* in *Herb.*
St.A.; add 85 to *C.F.*
- †263/1. *FOENICULUM VULGARE* Mill. (*F. Foeniculum* (L.) Karst.).
Kilconquhar, *J. H. Balfour*, 1902; Charlestown, *A. C.*
Christie; St. David's, *W. Young* in *Herb. St.A.*; add
(85) to *C.F.*
- 264/1. *CRITHMUM MARITIMUM* L. Not recorded since 1824 in Fife;
add <85> to *C.F.*
- 265/1. *OENANTHE AQUATICA* (L.) Poir. Ladybank, *J. Sadler*, 1876,
in *Herb. R.B.G.*; Charlestown, *A. C. Christie*, 1873;
add 85 to *C.F.*
- †276/3. *PASTINACA SATIVA* L. (*Peucedanum sativum* (L.) Benth. ex
Hook. f.). St. David's, *W. E. Evans*, 1902; Crail, *W.*
Young in *Herb. St.A.*; St. Andrews, *K. N. G. MacLeay*,
1943; casual; add (85) to *C.F.*
- †283/4. *TORILIS ARVENSIS* (Huds.) Link (*Caucalis arvensis* Huds.).
East Neuk, *W. Wood*, 1862; Balcarres, *C. Galloway*,
1842, in *Herb. R.B.G.*; much further north than pre-
viously recorded; add (85) to *C.F.*
- †291/1. *LONICERA CAPRIFOLIUM* L. Buddo rocks, *G. Sim* in *Herb.*
St.A.; Dysart Woods, *J. H. Balfour*, 1902; add 85 to
C.F.
- †291/5. *LONICERA XYLOSTEMUM* L. Inverkeithing, *J. H. Balfour*.
1902; Dunfermline, *Dr. Dewar*, introduced; add (85)
to *C.F.* but see also *Rep. Bot. Soc. & E.C.*, 5, 657 (1920).
- 296/3. *GALIUM ERECTUM* Huds. Only record is from Cults, prob-
ably in error for *Galium Mollugo* which occurs there;
certainly not now present; delete 85 from *C.F.*
- 296/5. *GALIUM PUMILUM* Murr. Balmerino, *R. Sibbald*, 1710; St.
Monance and Dunbarnie Links, *W. Wood*, 1862;
Lomond Hills, *J. H. Balfour*, 1902; add 85 to *C.F.*
- 304/4. *VALERIANELLA CARINATA* Lois. Aberdour, *J. R. Reid*, 1877,
in *Herb. R.B.G.*; add 85 to *C.F.*

- †306/2. *DIPSACUS PILOSUS* L. Flisk, no data, in Herb. R.B.G.; Newburgh, *Leighton & Swann*, 1840; introduced; add (85) to *C.F.*
- †320/3. *ERIGERON CANADENSIS* L. Tayport, *G. Law*, 1858; Balcomie, *G. Sim* in Herb. St.A.; St. David's and Charlestown, *A. C. Christie*, 1870-1; casual; add 85 to *C.F.*
- †333/1. *INULA HELENIUM* L. Burntisland, N.S.A., 1845; Lindores, *K. N. G. MacLeay*, 1946, in Herb. St.A.; add 85 to *C.F.*
- †334/1. *PULICARIA DYSENTERICA* (L.) Bernh. Near Elie, *H. Cleghorn*, 1837, in Herb. R.B.G., only record; add (85) to *C.F.*
- †381/2. *DORONICUM PLANTAGINEUM* L. Kincardine-on-Forth, *J. H. Balfour*, 1902; Dysart Woods, *W. Young*, 1936; near St. Andrews appearing thoroughly established, *K. N. G. MacLeay*, 1944, in Herb. St.A.; possibly a garden escape; add 85 to *C.F.*
- 395/1. *CARDUUS NUTANS* L. North Queensferry, Limekilns, *A. Robertson*, 1836; Kincaig, *C. Galloway*, 1842; not seen for many years and now presumably extinct in Fife; add <85> to *C.F.*
- †409/1. *CICHORIUM INTYBUS* L. Inchcolm, *R. Sibbald*, 1710; many other subsequent records, generally as an escape from cultivation; write (85) in *C.F.*
- †410/1. *ARNOSERIS MINIMA* (L.) Schweigg. & Koerte. Pettycur, *W. E. Evans*, 1906; casual; add (85) to *C.F.*
- 416/3. *CREPIS BIENNIS* L. Aberdour, *A. C. Christie*, 1883; St. David's, *W. E. Evans*, 1902; add 85 to *C.F.*
- †416/10. *CREPIS TARAXACIFOLIA* Thuill. St. David's, *A. C. Christie*, 1868, 1890; casual; add 85 to *C.F.*
- †419/186. *HIERACIUM AMPLEXICAULE* L. Naturalized on the walls of Cleish Castle, *A. Robertson*, 1894; *J. Fraser*, 1935, in Herb. R.B.G.; add 85 to *C.F.* [Long known in this locality where Hooker collected it; 83 in *C.F.* is perhaps a misprint for 85; Pugsley in his *Prodromus* erroneously attributes the locality to 87.—Ed.]
- 421/3. *HYPOCHOERIS GLABRA* L. Culross, *C. O. Sonntag*, 1894; Tents Muir, *Malcolm Wilson*, 1934; *K. N. G. MacLeay*, 1943; add 85 to *C.F.*
- †425/4. *MYCELIS MURALIS* (L.) Reichb. (*Lactuca muralis* (L.) Gaertn.). Between Anstruther and Elie, *J. H. Balfour*, 1864; near St. Fort, *K. N. G. MacLeay*, 1945; add (85) to *C.F.* but see *Rep. Bot. Soc. & E.C.*, 6, 388 (1922) for another record.
- 432/1. *JASIONE MONTANA* L. St. David's, *A. C. Christie*, 1873; Largoward, Kilrenny, Kincaig, *W. Wood*, 1862; delete 85 from exceptions in *C.F.*
- 457/1. *LIMONIUM VULGARE* Mill. (*L. Limonium* (L.) Lyons). Several old records, all of which are doubtful; the plant is no longer present; write [85] in *C.F.*

- +467/3. ANAGALLIS FOEMINA Mill. Inverkeithing, *A. H. Millar*, 1895; *St. Andrews, K. N. G. MacLeay*, 1938, probably garden escapes; add (85) to *C.F.*
- +482/1. NYMPHOIDES PELTATA (S. G. Gmel.) Kuntze (*N. Nymphoides* (L.) Druce). Kilconquhar Loch, *W. Ballingall*, 1872; introduced; had disappeared by 1946, *K. N. G. MacLeay*; add <(85)> to *C.F.*
- 505/1. MERTENSIA MARITIMA (L.) Gray (*Pneumaria maritima* (L.) Hill). Several records prior to 1912 when Young last saw it at Kincaig; now extinct in Fife; write <85> in *C.F.*
- 506/7. MYOSOTIS SYLVATICA Hoffm. Cambo, *G. Sim* in Herb. St.A.; *Kirkcaldy, W. Young*, 1936; add 85 to *C.F.* but see *Rep. Bot. Soc. & E.C.*, 5, 668 (1920).
- 517/2. SOLANUM NIGRUM L. Burntisland, *J. Boswell Syme*, 1871; *St. Andrews, J. H. Balfour*, 1861; *K. N. G. MacLeay*, 1946; an erratic weed; remove brackets from entry in *C.F.*
- +527/4. VERBASCUM VIRGATUM Stokes. Logie, *J. Dewar*, 1835; *St. David's, Dr. Dewar*, 1879; Otterston in Herb. R.B.G.; add (85) to *C.F.*
- +527/8. VERBASCUM NIGRUM L. Dunfermline, N.S.A., 1845; *Elie, J. Knapp*, 1843, in Herb. R.B.G.; introduced; add (85) to *C.F.*, but see *Top. Bot.* ed. 1, 276, (1878).
- +534/2. ANTIRRHINUM ORONTIUM L. Charlestown, *P. B. Gibb*, no date, in Herb. R.B.G.; introduced; add (85) to *C.F.*
- 543/5. VERONICA MONTANA L. Birkhill Woods, Cleish Hills, *R. Smith*, 1900; *Kirkcaldy, A. H. Gibson* in Herb. R.B.G.; add 85 to *C.F.*
- 551/1. LATHRAEA SQUAMARIA L. Melville Castle Woods, *J. Henderson*, 1842, in Herb. R.B.G.; add 85 to *C.F.*
- 600/2. CHENOPODIUM BOTRYODES Sm. (*C. crassifolium* Hornem.). Recorded from *St. David's*, 1868; no voucher specimen available; probable misidentification.
- 615/15. POLYGONUM AEQUALE Lindm. Kinross, *G. C. Druce*, 1912; see *Trans. Bot. Soc. Ed.*, 26, 150; add 85 to *C.F.*
- 617/1. OXYRIA DIGYNA (L.) Hill. Lomond Hills, *C. O. Sonntag*, 1894; the only record, but possible; add [85] to *C.F.*
- 618/12. RUMEX PALUSTRIS Sm. Kinghorn, Pettycur, Burntisland, *J. H. Balfour*, 1902; Young is very doubtful of these records; add [85] to *C.F.*
- 628/8. EUPHORBIA AMYGDALOIDES L. *St. David's, A. C. Christie*, 1889; Young is very doubtful of this record; add [85] to *C.F.*
- +628/9. EUPHORBIA VIRGATA Waldst. & Kit., non Desf. *St. Andrews, A. H. Millar*, 1895; *Tents Muir, J. H. Balfour*, 1902; *Burntisland, W. Young*, 1935, in Herb. St.A. These are all given by Young as *E. Esula* L., but his own

- specimen is the plant known as *E. virgata* and the other records are most likely also this. Add 85 to *C.F.*
- 632/2. *MERCURIALIS ANNUA* L. Burntisland, A. Dewar, 1836; Fraser, 1902; Aberdour and St. David's, J. H. Balfour, 1902; St. David's, P. Ewing, 1885, in Herb. R.B.G.; add 85 to *C.F.* but see *Rep. Bot. Soc. & E.C.*, 5, 679 (1920).
- 642/2. *BETULA PUBESCENS* Ehrh. Frequent in woods, W. Young, 1936; Stravithie, Tents Muir, K. N. G. MacLeay in Herb. St.A.; add 85 to *C.F.*
- 650/5. *SALIX PURPUREA* L. Raith, J. H. Balfour, 1867; delete 85 from exceptions in *C.F.*
- 650/18. *SALIX HERBACEA* L. Kinross-shire, no other data, in Herb. R.B.G.; no other records and doubtful if still present. A possible plant for Lomond or Ochil Hills and probably present in the past; add [85] to *C.F.*
- †651/8. *POPULUS ALBA* L. Introduced to plantations, e.g., St. Andrews Links, K. N. G. MacLeay, 1937; add 85 to *C.F.*
- 653/1. *CERATOPHYLLUM SUBMERSUM* L. Loch Leven, C. O. Sonntag, 1894; this is the sole record and may be an error for *C. demersum* L.; add [85] to *C.F.*
- 653/2. *CERATOPHYLLUM DEMERSUM* L. Otterston Loch, W. Young; Lindores, Cameron, Kileconquhar and Morton Lochs, K. N. G. MacLeay, 1943, in Herb. St.A.; this plant has spread very rapidly during the last forty years in Fife; add 85 to *C.F.* but see *Top. Bot. Suppl.*, 2, 26.
- †656/1. *ELODEA CANADENSIS* Michx. In most lochs and some rivers in Fife and Kinross, K. N. G. MacLeay, 1945; add 85 to *C.F.*
- †685/1. *GALANTHUS NIVALIS* L. Cambo, G. Sim; Kemback, K. N. G. MacLeay, 1937; introduced and garden escape; add (85) to *C.F.*
- †702/8. *ALLIUM CARINATUM* L. Latest record is St. David's, A. Robertson, 1837; add <85> to *C.F.*
- †707/2. *ORNITHOGALUM UMBELLATUM* L. Kirkcaldy, W. Young; St. Andrews Links, K. N. G. MacLeay, 1939, in Herb. St.A.; introduced and probable garden escape; add (85) to *C.F.*
- 718/7. *JUNCUS FILIFORMIS* L. Recorded from Buddo rocks near St. Andrews, by J. H. Wilson; no specimen is present in his herbarium and the plant was not to be found in the locality from 1937-46; a probable misidentification; delete 85 from *C.F.*
- 718/14. *JUNCUS COMPRESSUS* Jacq. Crail, G. Sim in Herb. St.A.; several other old records quoted by Young; add 85 to *C.F.*

- 722/2. SPARGANIUM ERECTUM L. (*S. ramosum* Huds.). Several records by *W. Young & G. West*; Lindores and Kilconquhar Lochs, *K. N. G. MacLeay*, 1945, in Herb. St.A.; add 85 to *C.F.*, but see *Top. Bot. Suppl.*, 1.
- 727/4. LEMNA GIBBA L. Young records a doubtful occurrence from Loch Leven, unconfirmed; write [85] in *C.F.*
- 737/4. POTAMOGETON COLORATUS Hornem. Lindores Loch, 1876; this is the sole record and has not been verified; it must be regarded as extremely doubtful; add [85] to *C.F.*
- 738/2. RUPPIA MARITIMA L. (*R. rostellata* Koch). Burton Point, *G. Sim* in Herb. St.A.; add 85 to *C.F.*
- 746/14. BLYSMUS COMPRESSUS (L.) Link (*Scirpus compressus* (L.) Pers., non Moench). Crail, *W. Young*; Largo Links, *J. H. Wilson* in Herb. St.A.; add 85 to *C.F.*
- 748/2. RHYNCHOSPORA ALBA (L.) Vahl. Sole record, "Fife" in Herb. R.B.G., leg. *W. Croze*; add [85] to *C.F.*
- 750/1. CLADIUM MARISCUS (L.) Pohl (*Mariscus Mariscus* (L.) Borbás). Only record is from Tents Muir, *A. Ballingall*, 1872; doubtful; add [85] to *C.F.*
- 753/2. CAREX RIPARIA Curt. Kilconquhar Loch, *W. Wood*, 1862; Lethan's Den, K.N.S., 1844; not seen since and now probably extinct; write <85> in *C.F.*
- 753/10. CAREX PENDULA Huds. Two old records in Young, both doubtful; add [85] to *C.F.*
- 753/17. CAREX DISTANS L. Young gives it as "frequent" without locality; St. Andrews Links, Tents Muir, *K. N. G. MacLeay*, 1943, in Herb. St.A.; add 85 to *C.F.*
- 753/23. CAREX EXTENSA Gooden. Aberdour, 1834, in Herb. R.B.G.; Rankeillour, *W. Young*, 1889, in Herb. St.A.; add 85 to *C.F.*, but see *Top. Bot.*, ed. 1, 442 (1874).
- 753/46. CAREX ACUTA L. (*C. gracilis* Curt.). North Queensferry, *G. Don* ex Greville, 1824; Lochgelly, K.N.S., 1840; Kilconquhar Loch, *W. Wood*, 1864; add 85 to *C.F.*
- 753/62. CAREX DIVULSA Stokes. Fordel, *A. Ballingall*, 1872; sole record; perhaps wrongly identified; add [85] to *C.F.*
- +754/8. ECHINOCHLOA CRUSGALLI (L.) Beauv. (*Panicum crusgalli* L.). Charlestown, *T. Drummond*, 1871, in Herb. R.B.G.; St. David's, *A. C. Christie*, 1869; add 85 to *C.F.*
- +756/2. SETARIA VIRIDIS (L.) Beauv. Burntisland, *F. M. Webb*, 1878, in Herb. R.B.G.; Charlestown, *T. Drummond*, 1871, in Herb. R.B.G.; add 85 to *C.F.*
- +758/3. SPARTINA TOWNSENDII H. & J. Groves. Kincardine-on-Forth, planted, *W. G. Smith*, 1914; add (85) to *C.F.*
- +766/2. ANTHOXANTHUM PUELLI Lecoq & Lamotte (*A. aristatum* auct.). Inchkeith, *A. C. Christie*, 1885; add (85) to *C.F.*

- 770/4. ALOPECURUS BULBOSUS Gouan. Balmerino, *J. Campbell*, 1867; not since recorded and may be an error; add [85] to *C.F.*
- †770/6. ALOPECURUS AEQUALIS Sobol. Balmerino, *J. Campbell*, 1867; Elie harbour, *W. Wood*, 1864; not since recorded; add (85) to *C.F.*
- 785/1. APERA SPICA-VENTI (L.) Beauv. Charlestown, *A. C. Christie*, 1871; Burntisland, *A. H. Gibson*, 1883; add 85 to *C.F.*
- 791/3. DESCHAMPSIA SETACEA (Huds.) Hack. Cleish Hills, *R. Smith*, 1900; add 85 to *C.F.*
- 804/1. SESLERIA CAERULEA (L.) Ard. Recorded from Wormit and Tents Muir by *R. Smith*, 1894; doubtful and unverified; add [85] to *C.F.*
- 818/1. MELICA NUTANS L. Lethan's Den; Kincardine-on-Forth, *J. H. Balfour*, 1902; add 85 to *C.F.*
- †822/2. BRIZA MINOR L. Burntisland docks, *F. M. Webb*, 1878; casual; add (85) to *C.F.*
- †824/1. POA CHAIXII Vill. Not recorded by Young; write [85] in *C.F.*
- 824/8. POA BALFOURI Parnell. Lomond Hills, *J. H. Balfour*, 1855; add 85 to *C.F.*
- 825/7. PUCCINELLIA FASCICULATA (TOFF.) Bicknell (*Glyceria Borreri* (Bab.) Bab.). Elie, *J. W. Brown*, 1862, in Herb. R.B.G.; add 85 to *C.F.*
- 825/8. PUCCINELLIA RUPESTRIS (With.) Fernald & Weatherby (*Glyceria procumbens* (Curt.) Dumort.). Elie, *J. H. Balfour*, 1864; St. David's, *A. C. Christie*; add 85 to *C.F.*
- 826/5. FESTUCA ALTISSIMA All. (*F. silvatica* Vill., non Huds.). Kin-craig Braes, *W. Wood*, 1862; Kinross-shire, *R. Parnell*; add 85 to *C.F.*
- 826/18. VULPIA MYUROS (L.) C. C. Gmel. (*Festuca myuros* L.). In-verkeithing, K.N.S., 1837; near North Queensferry, *J. H. Balfour* & *J. Sadler*, 1863; remove brackets from record in *C.F.*
- 828/2. BRACHYPODIUM PINNATUM (L.) Beauv. Near Queensferry, *R. K. Greville*, 1824; sole record; add [85] to *C.F.*
- †829/2. LOLIUM TEMULENTUM L. "Fife", *J. Knapp*, 1836, in Herb. R.B.G.; Collessie, N.S.A.; Kilrenny, *W. Wood*, 1862; add 85 to *C.F.*
- 833/1. PARAPHOLIS STRIGOSA (Dumort.) C. E. Hubbard (*Lepturus filiformis* auct.). Inverkeithing, *T. Drummond*, 1871, in Herb. R.B.G.; add 85 to *C.F.*
- 835/1. HORDEUM SECALINUM Schreb. (*H. nodosum* L. p.p.). St. Andrews; Torreyburn, Kincardine-on-Forth, *J. H. Balfour*, 1861; remove brackets from record in *C.F.*

- 839/1. JUNIPERUS COMMUNIS L. Cardenden, *A. H. Gibson*, 1883, in Herb. R.B.G.; East Neuk, *G. Sim* in Herb. St.A.; add 85 to *C.F.*
- †841/1. PINUS SYLVESTRIS L. Common in the v.-c., though often planted; add (85) to *C.F.*
- 844/7. EUISETUM HYEMALE L. Black Devon, in Herb. R.B.G.; Cleish Hills, Blairadam, *A. Robertson*; add 85 to *C.F.*
- 851/9. ASPLENIUM SEPTENTRIONALE (L.) Hoffm. Balmerino, *J. Campbell*, 1867; doubtful; add [85] to *C.F.*
- 856/5. DRYOPTERIS AEMULA (Ait.) Kuntze. Dunnikier, *A. H. Gibson*, 1883, in Herb. R.B.G.; Balmutto, *J. B. Syme*, 1875; add 85 to *C.F.*
- 859/1. CETERACH OFFICINARUM DC. (*C. Ceterach* (L.) Newman). Leslie, *J. Archibald*; wall near Trafalgar, *K. N. G. MacLeay*, 1941; add 85 to *C.F.*
- 863/1. HYMENOPHYLLUM TUNBRIGENSE (L.) Sm. Lomond Hills, *Dr. Lyell*, 1856, in Herb. R.B.G.; Young was very doubtful of this unconfirmed record; add [85] to *C.F.*
- 864/1. OSMUNDA REGALIS L. Last known record at Rankeillour, *W. Young*, 1889; now presumably extinct in the v.-c.; add 85 to list of extinctions in *C.F.*
- 870/1. LYCOPODIUM ALPINUM L. Near Cupar, *J. H. Balfour*, 1902; Bishop Hill, *A. C. Christie*; add 85 to *C.F.*
- 872/3. NITELLA FLEXILIS (L.) Ag. Loch Leven, *J. H. Balfour & J. Sadler*, 1862; Cairnsmill Reservoir, St. Andrews, *K. N. G. MacLeay*, 1941, in Herb. St.A.; add 85 to *C.F.*
- 873/3. TOLYPELLA GLOMERATA (Desv.) Leonh. Loch Leven, *G. West*, 1910; add 85 to *C.F.*
- 876/5. CHARA HISPIDA L. Lochmill, *G. West*, 1910; still there 1946, in Herb. St.A.; add 85 to *C.F.*
- 876/13. CHARA DESMACANTHA (H. & J. Gr.) G. & B.-W. Recorded from Fife without locality by *Groves*; add [85] to *C.F.*

A number of alien plants, which are not mentioned in *The Comital Flora* are now well established in v.-c. 85. As these may not be recorded elsewhere a list is appended, numbered according to Druce, 1928, *British Plant List*, ed. 2.

- 18/1. EPIMEDIUM ALPINUM L. Inverkeithing, *A. Robertson*, 1936; first record; supported by several subsequent records from this and other localities.
- 21/1. PAPAVER SOMNIFERUM L. Anstruther, *Dr. Knapp*, 1836; first record supported by a considerable number of subsequent appearances; probably only a casual.
- 31/4. CORYDALIS LUTEA (L.) DC. First record by *W. Ballingall*, Inverkeithing, 1830; now commonly occurs near villages on walls, probably often as a garden escape.

- 51/1. *CONRINGIA ORIENTALIS* (L.) Dumort. First record, North Queensferry, *J. H. Balfour*, 1860; a casual which has been found frequently on the south coast of Fife.
- 85/1. *RESEDA ALBA* L. First record, Crail, *G. Sim*, 1889; a casual in sandy places near sea, probably always a garden escape.
- 277/1. *HERACLEUM MANTEGAZZIANUM* Somm. & Levier. Not mentioned by Young but occurs as a well established plant at Earlshall, *K. N. G. MacLeay*, 1937; and in several other places in Fife.
- 287/1. *SAMBUCUS RACEMOSA* L. Hillside above Strathmiglo, *K. N. G. MacLeay*, 1939; appears to be well established in several places in the Ochil Hills.
- 301/4. *VALERIANA PYRENAICA* L. First record, Blairadam, no collector, 1782, in Herb. R.B.G. Has been well established at Claremont Den, near St. Andrews, for over a hundred years.
- 302/1. *CENTRANTHUS RUBER* (L.) DC. First record, St. David's, *A. Robertson*, 1835, in Herb. R.B.G.; now well established in many places particularly along the south coast of Fife.
- 498/1. *BORAGO OFFICINALIS* L. First record, Inchcolm, *R. Sibbald*, 1710; well established and frequent in many parts of the v.-c., but often merely a garden escape.
- 520/1. *LYCIUM CHINESE* Mill. First record, Limekilns, *J. H. Balfour*, 1866; now established in several places especially along the south coast of Fife.
- 534/1. *ANTIRRHINUM MAJUS* L. First record, Aberdour, *J. H. Balfour*, 1855; where it still occurs thoroughly naturalized.
- 618/5. *RUMEX ALPINUS* L. First record, "Fife", 1844, in Herb. R.B.G., leg. *W. Brand*; a number of subsequent records, all well authenticated.
- 765/5. *PHALARIS CANARIENSIS* L. Young considers this introduced plant is frequent throughout the v.-c.

HERBARIA.

Most of the plants mentioned in this paper are now in one or other of the Herbaria listed below.

Royal Botanic Gardens, Edinburgh. [Herb. R.B.G.] Includes the herbarium of *A. Somerville*, Glasgow.

University of St. Andrews. [Herb. St.A.]. Includes the herbaria of *R. & M. Corstorphine*, Arbroath; *C. Howie*, St. Andrews; *K. N. G. MacLeay*, St. Andrews; *R. A. Robertson*, St. Andrews; *J. H. Wilson*, St. Andrews; *G. Sim*, Crail; *W. Young*, Kirkealdy.

Kirkealdy Naturalists' Society. [K.N.S.].

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