FURTHER NOTES ON VERONICA FILIFORMIS

By E. B. Bangerter and D. H. Kent

Since the publication of our paper on *Veronica filiformis* in the British Isles (Bangerter & Kent, 1957) a number of additional facts have been discovered and many more records accumulated; these are brought together in the present paper.

Methods of Reproduction

In our previous paper we mentioned that we had seen fruiting material of *V. filiformis* from only Hampshire and Kent; since then we have seen specimens from N. Devon, 2 capsules (coll. R. G. B. Roe); S. Somerset, 3 capsules each containing a single seed (coll. J. B. Marshall); Surrey, three localities, each producing 1 capsule (coll. F. D. S. Richardson and Mrs. J. E. Smith); N. Essex, 1 capsule (coll. J. Bevington-Smith); Buckinghamshire, 1 capsule (coll. W. D. Delderfield); Cambridge, 2 capsules (coll. K. M. Blades), Lanark, 1 capsule (coll. E. B. Bangerter & Mr. and Mrs. P. C. Hall), and Haddington, 1 capsule (coll. M. McCallum Webster).

Flowering Period and Growth

The normal flowering period of *V. filiformis* is April-June, rarely as late as August. D. E. Kimmins, however, reports that he noted the species in flower at Landulph, E. Cornwall, on 9th November 1957.

During 1957 Mrs. J. Oldaker sent us specimens from Culmstock, S. Devon, containing small growths in some of the leaf-axils, and suggested that they may be sessile cleistogamous flowers. After a detailed examination of the material we reached the same conclusion.

In the same year, Mrs. J. E. Smith, of Claygate, Surrey, gave a small piece of the plant from her garden to one of us (E.B.B.); the specimen was in a poor state, having been subjected to weed-killer in an attempt to eradicate it. Transplanted to a north London garden it very soon revived and has thriven since. The plant has been cut back each year, though it has been noted that a circular patch of about nine inches diameter will attain a diameter of three feet in seven to eight months. Attempts by the other author (D.H.K.), however, to cultivate the plant in his west London garden have been unsuccessful, for though it thrives for a short time it will not survive over winter. D. McClintock tells us that he has experienced similar difficulty in attempting to grow the species in his garden in West Kent.

Flower Colour

The colour of the flowers of *V. filiformis* that we have seen from many parts of the British Isles has been of a uniform pale blue. Touton (1943), however, draws attention to a colour-form from France in which the corolla is of a deep violet-blue, somewhat like the colour of the flower of *V. chamaedrys,* with which species it often grows.

European Records

France. Fournier (1959), outlines the history of the species in France, while Bouby & Rouet (1959), record that it has spread considerably in the Paris area in recent years. Corillion (1960) reports that in western France it has been usually recorded from lawns, public parks, near cemeteries and the like, though in many European localities it is known from meadows. He records it for the first time from such a locality at St. Jean-sur-Erve, Mayenne.

Netherlands. Clason (1959), discusses the introduction of the species into the Netherlands, and Van Ooststroom (1959 & 1960), gives an account of the distribution and spread in that country.

Germany. Touton (1943) shows that the species was known in Bavaria as early as 1920.

Switzerland. Becherer (1960) gives many additional records for Switzerland.

Czechoslovakia. Soják & Sourek (1959), report the occurrence of *V. filiformis* as an established garden escape in various parts of Czechoslovakia. It was noted first in Eastern Bohemia in 1941, and during 1947 was found near Prague. In 1952 it was recorded from Southern Bohemia. The spread in the country is further discussed by Jehlik (1961), and the distribution shown by means of a map.

Denmark. Hansen (1957) reveals that *V. filiformis* is still spreading in Denmark, and that it is now known to be established in about 250 localities.

Finland. Jalas (1956) records that the species has been cultivated in some gardens in southern Finland during the last 30 years. In the market garden area of Jylhä (province of South Savo) it thrives well and has shown some inclination to be a garden escape. It grows, also, in some market gardens in the vicinity of Helsinki. *V. filiformis* does not endure the Finnish climate well enough to become a weed as in some other European countries.

Cedercreutz (1958), Hyvämäki (1960) and Roos (1961) give further data on the plant in Finland.

American Records

Canada. Gillett (1958) cites *V. filiformis* as being established in the Ottawa district.

V. FILIFORMIS AS A BRITISH ADVENTIVE

In our previous paper we gave the earliest date of the occurrence of *V. filiformis* as an established garden escape in the British Isles as 1927. An overlooked reference (*The Nat.*, **4**, 56 (1838)), however, shows that it was in fact first noted nearly 90 years earlier, and also claimed as a native plant, viz.—"During the past month a plant, hitherto unknown as a native of Britain, was found in the neighbourhood of Colchester, where a number of specimens have been gathered. This flower, the Filiform Speedwell (*Veronica filiformis*), is a native of the Levant, and was introduced into England in 1780. The blossoms are of a pale blue colour, on long slender flower-stalks, and it partakes of the habit of the common Germanders (*Veronica chamaedrys* and *V. arvensis*). The situation in which it was found clearly proved that it was of spontaneous growth, and the discovery is a truly valuable addition to the British flora".

V. filiformis is not, of course, a native of these islands, and this Essex record was undoubtedly the result of an early garden escape; it is nevertheless curious that the species was not recorded again until 1927.

Further studies on the distribution of the plant have confirmed our earlier conclusions that it is most frequent in southern and western England. In northern England and Scotland it has proved to be more widespread than we suspected, but in the latter country Miss E. P. Beattie informs us it is rarely found far from human habitation.

Figure 1 shows the known distribution of the species in 1961, not only as an established escape, but also as a garden weed and lawn pest.

The known British and Irish vice-comital distribution of *V. filiformis* as an established escape should now read: 1-31, 33-90, 92-101, 103-105, 107-109, 111 & 112. H. 1-5, 7-13, 16, 20, 21, 26-28, 30, 33-35, 37-40. S.

BRITISH AND IRISH RECORDS

The following list gives records additional to those cited by Bangerter & Kent (1957), including details from herbarium specimens examined*. The abbreviations used for herbaria are those given by Kent, Bangerter & Lousley (1958).

CHANNEL ISLANDS

GUERNSEY: rubbish-tip by Vale Castle, 1957, ***H. J. M. Bowen.*** George Road, Guernsey, 1958, ***G. W. Coxhead.*** By stream in Fermain Bay, and up a cliff path to the north, ***M. English & D. McClintock***; roadside near Les Hubits, ***D. McClintock*** (McClintock, 1959).

SARK: at the Seigneurie, in long grass under trees, ***Mrs. F. Le Sueur*** (McClintock, 1959).

*Additional records (and specimens) would be much appreciated, and should be sent to either of the authors.

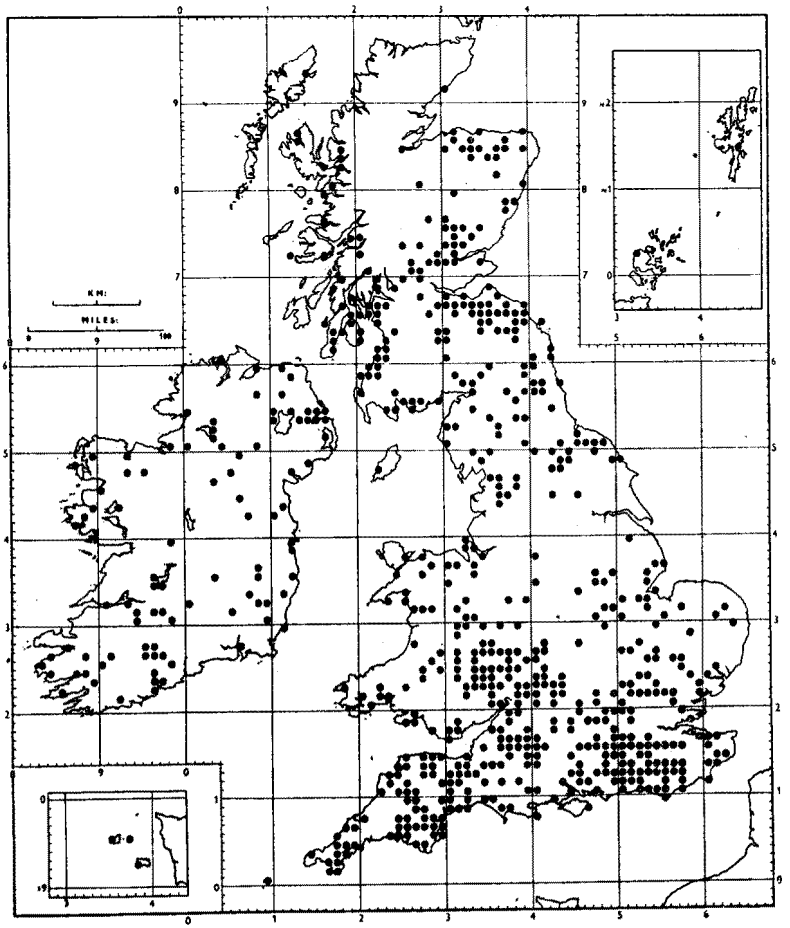


FIG. 1.—Distribution of *Veronica filiformis* Sm. in the British Isles, 1961.

V.c. 1. W. CORNWALL: Landewednack Churchyard, The Lizard, 1957, *K. E. Bull*; 1959, *E. G. Ing.* Roadside near cottages, Trencrom, near Lelant, 1959, *E. G. Ing.* Pest of lawn, Cusgarne, near Gwennap; garden weed, Percuil; Roskear, near Camborne, 1961, *Miss J. Allison.*

2. E. CORNWALL: edge of Carne quarry, near Portloe, c. 1950, *M. E. Barnsdale,* comm. *R. W. David.* Bank around the vicarage, Landulph,, Tamar estuary, 1957, *D. E. Kimmins.* Dry bank, Polrode, near St. Teath, 1957, *R. I. Sworder.* Budorne Eglos, near Wadebridge, very abundant on grassy verges of a lane for 100 yards, 1957, *R. W. David.*

3. S. DEVON: Staverton; roadside near houses, Hillhead, Brixham, 1950; Ilsham Road, Torquay, 1955; Galmpton; Marlborough; Churston Ferrers; Churston Golf Course, plentiful, *F. M. Day.* Severe pest of lawns, Culmstock, near Cullompton, 1957, *Mrs. J. Oldaker.* Knowle Down, between Harrobridge and Walkhampton, roadside above bracken-covered moorland slope, 1957, *B. Welch, J. F. & P. C. Hall* (BM). River bank, Hamworthy Bridge, 1957, *B. Welch, J. F. & P. C. Hall* (BM). Farway, near Honiton, pest of lawns; Haytor Rocks Hotel, pest of lawns, 1957, *Miss V. M. Leather.* Sidmouth, by western edge of footpath along cliff-top east of river Sid, 1957, *F. D. S. Richardson.* Stream at sea-front, Branscombe, plentiful; cliffs west of Budleigh Salterton, 1959, *K. E. Bull.* Bovey Tracey; Knowle, roadside south of river Bovey bridge (Greig, 1960). Between railway and river Otter, north side of Otterton Bridge, *Mrs. V. M. Wilkinson* (Greig, 1961).
4. N. DEVON: Highampton, well established on hedgebank near a farm cottage, 1957; Jacobstowe Churchyard, 1957, *R. G. B. Roe.* South Tawton (in fruit), 1957, *R. G. B. Roe* (BM). Combe Martin, 1946→, *Miss S. M. Parker,* comm. *D. McClintock.* Milton Damerel, roadside near Woodford Bridge; Okehampton, roadside by Army railway siding (Greig, 1960). Barnstaple, sports ground, *Miss A. N. Richards*; by river Taw, near Mill, *O'N.R.*; Coldridge, by river Taw west of Park Mill bridge, *O. Greig* (Greig, 1961).
5. S. SOMERSET: between Catcott and High Wood, *E. J. Hamlin, Proc. Som. Arch. & N.H.S.,* **98,** 136. Huntscott, Wootton Courtney, *A. D. & O. M. Hallam, Proc. Som. Arch. & N.H.S.,* **101 & 102,** 136. Selworthy Green, Selworthy, abundant in grass verges and turf of adjacent gardens, 1958, *J. B. Marshall* (BM). Culbone Churchyard, near Porlock, abundant, 1961, *J. E. Lousley.*
6. N. SOMERSET: between Brassknocker and Dundas Aqueduct, in a field, 1947, *E. H. Lubbock,* comm. *Miss E. H. Stevenson.* Abundant on a wall south-east of Bathford, 1957, *Miss E. H. Stevenson.* Wadbury Valley, near Frome, plentiful, 1957, *Mrs. N. Wycherley* (BM). Bath, pest of lawns, 1957; grassy bank, Kilmersdon, 1957, *R. G. B. Roe.* Orchardleigh and Hemington Churchyards, north of Frome, *P. F. Hunt* (Sandwith, 1961).
7. N. WILTS: grassy bank, Kingsdowne, near Box, 1956, *J. O. Ballard.* Colerne Park, near Bath, a small patch, far from houses, 1957, *T. G. Collett.* Roadside, Colerne, 1958, *D. Frowde, Wilts. Arch. & N. H. Mag.,* **57,** 290. North Bradley Churchyard, 1960; water meadow, Ford, 1960, *T. G. Collett.* Doncombe Meadow, *G. W. Collett*; Marlborough, *F. M. Day* (Grose, 1961).
8. S. WILTS: banks of stream by bridge, Salisbury Road, Landford, 1952, *R. P. Bowman.* Ham, *F. Partridge*; East Knoyle, Stratton (Grose, 1961).
9. DORSET: several places at the roadside, near Blandford, 1956, *F. M. Day.* Garden lawn, Woodbridge Mill, Fontmill Magnus, 1960, *E. Milne-Redhead.*
10. ISLE OF WIGHT: Sandown, pest of lawn, 1957, *Miss L. M. Webb,* comm. *E. Milne-Redhead.*

11. S. HANTS: banks of stream in meadows, Test Valley, Lee, near Romsey, 1952; near Rownham's Church, abundant on lawns, 1953→; in fair quantity in a few places on shingle banks and wooden breakwaters, river Test above and below Nursling Mill, 1953; bank of small tributary stream, Lymington river, Brockenhurst Bridge, 1955→, *R. P. Bowman.* Lawn weed, Totton, 1960, *C. J. Vardy* (BM).

12. N. HANTS: the record for Ewshott, Farnham, 1956, *Miss V. M. Leather* (*Proc. B.S.B.I.*, **2**, 207) is in v.c. 12 not v.c. 17. Grassy verge outside church wall, Martyr Worthy, Itchen Valley, Winchester, 1953-1954; The Wakes, Selborne, garden pest, *R. P. Bowman.* Basingstoke, garden pest; Maplederwell, south of Basingstoke, 1957, *Miss V. M. Leather.* Bank of lane near Dogmersfield, Sprat's Hatch, 1958, *E. Milne-Redhead.* Garden pest, Alton, 1960, *M. Cleaver*, comm. *D. McClintock.* Roadside bank by houses, Hunnington, 1957; Eversley Churchyard, 1958; runnel in Selborne, 1960, *W. E. Warren.*

13. W. SUSSEX: Day (1960) reports that in parts of Sussex *V. filiformis* has been given the name "Blue Devil". Near "The Black Rabbit", Arundel, a large patch among grass, 1946, *B. T. Lowne* (K); 1960, *H. C. P. Smail.* Garden weed, Ansty, 1957, *T. Wooddisse* (BM). Northchapel Churchyard, abundant, 1957, *Mrs. B. Welch.* Ferring, near Worthing, garden pest, 1959, *Miss C. Cracknell*, comm. *E. Milne-Redhead.* A pest in many Worthing gardens, 1960, *H. C. P. Smail*, comm. *D. McClintock.* Roadside bank near house below Blackdown, 1949, *W. E. Warren.*

14. E. SUSSEX: edge of ditch in field behind Arlington Churchyard, 1957, *D. P. Young.* Hedgebank near farm, Maresfield, 1957, *F. Rose.* Brede, *Miss J. Winch, Hastings & E. Sussex Nat.*, **8**, 234. Rampant weed under a shrubbery, Stonegate, on the crest of one of the numerous east-west Wealden ridges, the subsoil is Ashdown Sand of the Hastings Beds, 1957, *J. Rogerson.* By roadside, Chailey Common, far from houses, 1958, *H. P. C. Smail*, comm. *D. McClintock.* Jevington Churchyard; Lordswell Lane, Crowborough, abundant; Etchingham Churchyard, 1959, *K. E. Bull.* Ardingly, 1958, *F. D. S. Richardson* (BM). Sulgrove House, Crowborough, 1960, *D. McClintock.* The Beacon, Hassocks, 1960, *W. Howell*, comm. *D. McClintock.* Clayton Churchyard, 1960; garden weed, Haywards Heath, 1960, *Miss M. Songhurst.*

15. E. KENT: bank of river Stour, Sturry, near Canterbury, a small patch in rough turf, 1954, *Mrs. J. Oldaker.* Seasalter and Whitstable, pest of lawns, 1955, *H. Wilks.* Roadside bank, Whitstable, 1955; 1957, *H. Wilks* (BM). Dover, 1957, *Mrs. Rowlands*, comm. *D. McClintock.* Ashford, garden weed, 1960, *Mrs. N. E. Baker*, comm. *D. McClintock.* Bethersden, 1960, *Mrs. D. E. Keel*, comm. *D. McClintock.*

16. W. KENT: hedgebanks and meadows west of Sevenoaks Church, 1957, *F. Rose.* Vegetable garden, Brasted, 1957, *J. F. & P. C. Hall.* Bosted, near Borough Green, 1958, *D. McClintock.* Waste ground, Eden Park, Beckenham, 1960, *J. T. Carter*, comm. *D. McClintock.*

17. SURREY: Haste Hill, Haslemere, in fair quantity on road verges near cottages, 1953, *R. P. Bowman.* Church Lane, Godstone, 1955; Drivers Green, Outwood, 1955; near Oxted Mill, by stream and in a field, plentiful, 1955; South Nutfield, bank outside garden of house, 1956; field beside Holmesdale footpath, Nutfield, 1957, *Miss B. A. Kneller.* South-west corner of White Bushes Common, a large patch, 1957, *F. D. S. Richardson* (BM). Claygate, pest of lawns and flowerbeds, 1957, *Mrs. J. E. Smith* (BM). Forest Hill, pest of lawns, 1958, *Mrs. L. M. P. Small.* Holmwood Common, 1959, *D. E. Allen.* Garden pest, Banstead, 1960, *R. S. R. Fitter.* Holly Hill, north of Ewhurst, 1960, *D. McClintock.* Near Riddlesdown station; near Upper Warlingham station, 1960, *K. E. Bull*: near Park Downs, 1960, *Mrs. L. M. P. Small* (Lousley, 1961). Lawn pest and cemetery at Farnham, 1949→; Pirbright Churchyard, 1961, *W. E. Warren.* Ashtead Churchyard, abundant, 1961, *B. Welch.*
18. S. ESSEX: Coxtie Green, Brentwood, pest of lawns, 1958, *P. J. Wanstall.*
19. N. ESSEX: Colchester, 1838, *The Nat.*, **4**, 56; frequent pest of lawns since c. 1935, *P. Bevington Smith;* 1957 (BM). Grassy verge, Shearing Place, 1958, *J. F. & P. C. Hall.*
20. HERTS: road bank, Loudwater, near Rickmansworth, 1957, *G. W. & T. G. Collett.* Golf course, Moor Park, Rickmansworth, 1957, *F. M. Day.* Bishops Stortford College, 1959, *D. McClintock.* Totteridge, pest of lawns, 1959, *D. McClintock.* Roadside verge, Boxmoor, Hemel Hempstead, 1960, *R. B. Benson* (BM). Rubbly path verge outside garden, East Barnet, 1961, *J. F. & P. C. Hall.*
21. MIDDLESEX: Sunbury-on-Thames, abundant by path near river Thames, 1957, *D. H. & M. P. Kent* (BM). Harefield Moor, by river Colne, 1958, *I. G. Johnson & B. P. Pickess.* Garden pest, Eastcote, 1960, *T. G. Collett.* West Drive, Harrow Weald, abundant on road verges, 1960, *Mrs. L. M. P. Small.*
22. BERKS: Eastbury, near Newbury, garden weed, 1957, *A. Conolly.* Maidenhead, on the artificial island between the natural course of the river Thames and the navigation channel through Boulter's Lock; well established in lawns along the bank of the river, 1957, *J. Rogerson.* Grass verge between High Bridge and Blacknest Gate, Virginia Water, abundant, 1957, *W. E. Warren.* Old mill, Aldermaston, *Mrs. Simmonds* (Butler, 1962).
23. OXFORD: grassy bank at Wolvercote end of Port Meadow, *J. P. M. Brenan, Rep. Bot. Soc. & E.C.*, **13**, 229 (1948). Oxford Botanic Garden, abundant weed of turf, 1961, *D. H. Kent.* Among grass on river bank between Iffley and Sandford; Ashford Bridge, near Stonesfield, 1961, *Miss J. D. Butler & P. G. Sheasby.* Garden weed, Towersey, 1961, *R. S. R. Fitter.* Bridle path, Mapledurham to Whitchurch (Butler, 1962).
24. BUCKS: Chesham Bois, abundant garden weed, 1957, *J. Rogerson* (BM). Penn, garden pest, 1957, *H. C. Holme.* Monk's Risborough and Meadle, garden pest, 1957, *P. D. MacLagan* (BM). Mat forming in grass in several places by the river Thames between

Marlow and Bourne End, 1957, *F. Ambrose* (Hyde, 1958). Roadside near Whiteleaf, Princes Risborough, 1958, *Mrs. R. C. May*, comm. *Mrs. B. Welch*. Near Owlswick, near Princes Risborough, 1958; roadside verge by Hartwell House, Aylesbury, *R. A. Graham & R. C. Harley*. Bank of river Colne, Harefield Moor, 1958, *I. G. Johnson & B. P. Pickess*. Garden weed, Radnage, 1960, *R. S. R. Fitter*. Waddesdon Manor, rampant in some lawns, 1960, *J. Rogerson*. Garden weed, Hughenden valley, High Wycombe, 1960, *R. D. Lovett*, comm. *D. McClintock*. Rough ground, Cobbler's Hill, Great Missenden, 1960; garden and lawn weed, Little Hampden, 1960, *W. D. A. Delderfield* (BM).

*26. W. SUFFOLK: lawn near Brandon Bridge, Brandon, 1957, *K. E. Bull*. Grassy verge, Stradishall Place, 1958, *J. F. & P. C. Hall*.

27. E. NORFOLK: lawn pest, Horning, near Wroxham, 1960, *J. Rogerson*.

28. W. NORFOLK: lawn at Burnham Overy Staithe, 1959, *K. E. Bull*.

29. CAMBRIDGE: roadside, Bourne, near Great North Road, 1957, *K. E. Bull*. In and around Hibbert Ware Memorial Garden, Girton, 1959, *K. M. Blades* (CGE).

30. BEDFORD: Chalgrove Manor, lawn weed, 1958, *J. H. Chandler*.

*31. HUNTINGDON: Hemingford Grey, *P. J. Bourne*.

33. E. GLOUCESTER: King's Stanley, garden pest, 1957, *Miss E. H. Stevenson*. Miserden Park, north-east of Stroud; Miserden Churchyard, 1957, *D. McClintock*. Bussage, 1957, *F. D. S. Richardson*.

34. W. GLOUCESTER: Huntingford Mill, Charfield, *G. W. Garlick, Proc. Bristol Nat. Soc.*, **29**, 347.

35. MONMOUTH: Llanthony Abbey, abundant in lawns, 1959, *E. Milne-Redhead*.

36. HEREFORD: Brock Hill, Colwall, 1946→; several localities at Colwall, 1950→; Bearswood Common, 1953; bank of river Wye below Caple Hill, 1956, *F. M. Day*. Road to Broadmoor Common, Cradley, 1947, *F. M. Day;* Breinton; Hampton Bishop, *Mrs. L. H. Whitehead;* Sutton Walls, 1955, Dulas (Kendrick, 1957). Barr's Court, Tarrington, pest of lawn, 1957, *D. McClintock*. In two or three places on the right bank of the river Wye, close to Moccas Bridge, 1958; lane close to houses, Little Doward, 1958, *R. S. R. Fitter*. Pixley Court, Ledbury, 1960, *E. M. Thompson*, comm. *D. McClintock*.

37. WORCESTER: spreading along the road into the parish of Mathon, Herefordshire (v.c. 37), 1950; Newland Green, 1956, *F. M. Day*.

38. WARWICK: weed in gardens, Bilton Road, Rugby, *Mrs. M. D. G. Jones* (Allen, 1961).

39. STAFFORD: roadside verge, Denstone, *E. S. Edees, Trans. & Ann. Rep. N. Staffs. F.C.*, **90**, 61. Yoxall; in the churchyard at Newchurch; Stowe; Chartley Castle, 1959, *E. S. Edees, Trans. N. Staffs. F.C.*, **93** & **94**, 77 (1960).

40. SALOP: Church Stretton, abundant in the grass verge of a suburban road, well inside the town area, 1958, *J. Ranson*.

41. GLAMORGAN: Nottage Court, Porthcawl, 1960, *R. C. Howell* (BM). Grassy roadside near Cefn Onn Halt, 1959, *A. E. Wade* (NMW; Wade, 1961).
44. CARMARTHEN: Gwavas, Ferryside, garden weed, 1957; Ferryside, top of stone wall and colonising grassy bank in wet field, 1957, *R. F. May* (BM). Field near Llandovery, 1957, *Miss M. H. Bigwood.* Banks of the river Taf, Whitland, 1960, *J. W. Donovan, Nature in Wales,* **7**, 67 (1961).
45. PEMBROKE: [banks of the river Taf, Whitland, 1960, *J. W. Donovan, Nature in Wales,* **6**, 136 (1960). This record refers to Carmarthen, *Nature in Wales,* **7**, 67 (1961)]. Well-distributed in woodland at the Kensington Hospital, St. Brides, 1961, *T. A. W. Davis, Nature in Wales,* **7**, 67 (1961).
48. MERIONETH: Dolgellau, 1960, *Miss J. D. Butler* (BM).
49. CAERNARVON: hedgebank, Roe Wen, near Conway, 1957, *R. Lewis* (NMW). Side of lane near houses, Sarnbâch, near Abersoch, Lleyn peninsula, 1957 (Conolly & Smith, 1957). Pont Rhyd-hir, spreading from farm for about 110 yards over meadows towards the river, *Miss A. P. Conolly* (Benoit, 1962).
50. DENBIGH: near Mold, 1957, *Miss M. H. Bigwood.*
51. FLINT: frequent along the Alyn from Llandegla to Rhydymwyn, also at intervals along the Clwyd, *Proc. Liverpool N.F.C.,* **1956**, 9. Meadow near Llanferres, 1960, *Liverpool Botanical Society Field Meeting.*
52. ANGLESEY: streamside on the edge of Malltraeth Marsh, below Llanfawr, well established, *R. H. Roberts, Nature in Wales,* **5**, 792 (1959).
*53. S. LINCOLN: lane side, Whaplode Drove, 1957; garden weed, Stubton, 1957, *R. C. L. Howitt.*
54. N. LINCOLN: two corrections have to be made for records from this vice-county cited in our previous paper (Kent & Bangerter, 1957). For "Reverley Bridge" read Revesby Bridge, and for "Market Drayton" read Market Rasen.
*55. LEICESTER: field near Wartnaby Church; roadside, Stockerstone, in quantity, 1957, *E. K. Horwood;* 1958, *J. Laundon* (BM). Noseley Hall, Billesdon, pest of lawns and paths, 1957, *D. McClintock.*
55. (RUTLAND): Whissendine Churchyard, 1956, *R. C. L. Howitt.* Cottesmore Rectory, pest of lawns and garden, 1957, *J. H. Chandler.*
56. NOTTINGHAM: Thrumpton Churchyard, 1956; Epperstone, garden weed, 1957, *R. C. L. Howitt.*
*57. DERBY: Buxton, weed of allotments, etc., for over ten years, 1957, *F. T. Hall* (BM).
58. CHESTER: first observed at Bromborough in 1950, has spread rapidly along the Dibbin, and occurs also in large swards in some of the adjacent meadows, Ness, *J. P. Savidge, Proc. Liverpool Nat. F.C.,* **1956**, 19.
61. S.-E. YORK: roadside, Bewholme, Holderness, competing with native vegetation, 1957, *Miss J. Allison;* 1959, *Miss J. Allison* (BM). Verge and ditch bank near Hornsea, 1959, *Miss J. Allison* (BM). Eastgate, garden weed, 1959, *Miss J. Allison* (BM).

62. N.-E. YORK: roadside, Kepwick; river bank, Maunby, very abundant, 1957, *Miss C. M. Rob.* Hutton-le-Hole, 1958, *J. E. Duncan, The Nat.*, **1959**, 26. Forming dense mats on a lawn in a garden at Osmotherley, *J. W. Heslop-Harrison, The Vasc.*, **46**, 15.

63. S.-W. YORK: bank of river Hodder, Slaidburn, *F. Elliman*, comm. *F. Murgatroyd, The Nat.*, **1961**, 26. Hedgebank, Ripon Canal, Littlethorpe, 1957, *Miss C. M. Rob.*

65. N.-E. YORK: grassy bank near garden, Whaw, Arkengurthdale, 1957; Patrick Brompton Churchyard, Bedall, abundant in short turf, 1958, *Miss C. M. Rob.*

66. DURHAM: a path at the lower end of Castle Eden Dene, some hundreds of yards from any houses, 1957, *R. S. R. Fitter.*

67. NORTHUMBERLAND S.: Wylam, 1936; near Cateleugh, 1958; banks of river Coquet from Harehaugh down to Paperhaugh, 1958, *G. A. Swan.* Corbridge Cemetery, abundant in short turf, 1958, *Miss C. M. Rob.* Bellases Bridge, Stannington, 1958, *R. C. L. Howitt* (BM). Kirkwhelpington, on grass verge by churchyard wall, 1958, *E. B. Bangerter, F. H. Perring & G. A. Swan* (BM). On the shingle along the Wear near Wolsingham, *J. W. Heslop-Harrison, Vasc. (Subst.)*, **43**, 15.

68. CHEVIOTLAND: Breamish, near Brandon, 1958; north bank of river Coquet, *G. A. Swan*; 1958, *E. B. Bangerter, Cmdr. R. G. B. Roe & Mrs. Roe* (BM). Ingram Churchyard, 1958, *D. McClintock.*

70. CUMBERLAND: abundant and increasing in many places in the Eden Valley (Stalker, 1957).

72. DUMFRIES: river bank, Hoddom Bridge, thoroughly naturalised, 1957, *R. C. L. Howitt.* On shingle of river Annan, Dryfeholme, between Lochmaben and Lockerbie, 1957, *E. B. Bangerter & T. G. Collett* (BM).

74. WIGTOWN: Leswalt area, *R. Prasher.* Garden pest, Logan House, Port Logan, 1960, *R. S. R. Fitter.* Port William, ex *B.S.B.I. Maps Scheme.*

75. AYR: by river Doon, Allowey, south of Ayr, in several places, 1957, *D. McClintock.* Ballantrae; Colmonell; Gervain, *R. Prasher.* Crosshill; Kilmarnock; Auchendrane Estate; Barhill; Dailly; Kirkoswald; Skelmorlie Water; Dunure, ex *B.S.B.I. Maps Scheme.*

76. RENFREW: Newton Mearns, Glasgow, 1960, *G. R. Sloman*, comm. *D. McClintock.* Kilmacolm, ex *B.S.B.I. Maps Scheme.*

77. LANARK: derelict garden, Gilkerscleugh House, between Abington and Crawfordjohn, 1957, *E. B. Bangerter, J. F. & P. C. Hall* (BM). Culter; Carluke; Tinto, ex *B.S.B.I. Maps Scheme.*

78. PEEBLES: small patch by roadside at Bridge-end, Dolphinton, *Miss E. P. Beattie.*

79. SELKIRK: grassy bank near houses, Clevenfords, 1956, *Miss E. P. Beattie.*

*80. ROXBURGH: Bowmont at Yetholm, 1957, *G. A. Swan.* Railway bank near Riccarton, 1960, *Miss C. M. Goodman & J. G. Dony* (BM). Near Kelso, 1960, *Miss E. M. C. Isherwood* (BM).

81. BERWICK: grassy bank near houses, Lauder, 1956; small clump by river Whiteadder, Abbey St. Bathans, 1958, *Miss E. P. Beattie.* Road near Duns, 1960; *Miss E. M. C. Isherwood* (BM). Longformacus, ex *B.S.B.I. Maps Scheme.*

82. HADDINGTON: by the river below Bail House, near Stenton, three colonies in grass; Aberlady, 1956; village green, East Linton, 1956; Gifford, 1958; grassy banks, Biel Estate, *Miss E. P. Beattie.* Disused railway line, Saltown, 1962, *Miss M. Mc. Webster* (BM).

83. EDINBURGH: near Temple, grassy bank near houses; near Gorebridge, grassy bank near houses; Juniper Green station, grassy bank, 1955; Lasswade, waste ground; roadside bank, Heriot, *Miss E. P. Beattie.*

84. LINLITHGOW: roadside bank, Abercorn, 1957, *Miss E. P. Beattie.*

*85. FIFE: University of St. Andrews, pest of lawns since c. 1935, *J. Burnett.* All along the Lade Braes, St. Andrews, *Mrs. M. H. E. Cunninghame,* comm. *Miss E. P. Beattie.* Kemback area, ex *B.S.B.I. Maps Scheme.*

*86. STIRLING: north bank of the Endick Water, by main road south of Drymen, 1960, *A. C. Crundwell* (GL). Stirling Castle and environs, ex *B.S.B.I. Maps Scheme.*

*87. W. PERTH: roadside verge near houses, Dunblane, *Miss E. P. Beattie.* Callander, *D. Henderson & B. L. Burtt.*

88. MID PERTH: Dunning, *A. W. Robson.* Near Bridge of Earn, Ardtalnaig; Stanley, ex *B.S.B.I. Maps Scheme.* Lawn at Lawers Manse, 1960, *Miss E. P. Beattie.*

89. E. PERTH: Balgersho, plentifully by sides of roadside ditch, 1932, *W. B. Ogilvie.* Railway embankments and river shingle, Blair Atholl, *Miss M. McCallum Webster.*

90. FORFAR: pest of lawns and shrubberies, Parkhill, 1954→; plentiful in shrubberies, and by a stream in grounds of Finavon Castle, near Forfar, 1954; field below Hare Craigs, Broughty Ferry, 1960, *Miss U. K. Duncan.*

91. KINCARDINE: Auchinblae, garden weed, ex *B.S.B.I. Maps Scheme.*

93. N. ABERDEEN: Rosehearty, Aberdeen; policies of Craigston Castle; near Huntly; Auchindachy, *Miss M. McCallum Webster.*

94. BANFF: Dufftown, *Miss M. McCallum Webster.*

96. EASTERNESS: Kingussie; Redcastle, ex *B.S.B.I. Maps Scheme.*

98. ARGYLL: near a garden on the outskirts of Salen, Loch Sunart, 1957, *Miss U. K. Duncan & Miss E. P. Beattie.* Side of ditch, hotel grounds, Ardbrecknish, 1960, *A. C. Crundwell* (GL). Roadside ditch, near Inshaig Hotel, Isle of Seil, *Miss C. W. Muirhead.* Glenure, ex *B.S.B.I. Maps Scheme.*

99. DUNBARTON: field on south side of Endrick Water, by main road south of Drymen, 1960, *A. C. Crundwell* (GL).

100. CLYDE ISLES: edge of marsh, Keppel Pier, Isle of Great Cumbrae, 1958, *B. W. Ribbons.* Waste ground near the Post Office, Brodick, Arran, 1961; grassy ground near Coast-guard station, Kildonan, Arran, 1961, *B.S.B.I. Field Meeting,* comm. *Miss U. K. Duncan.*

101. KINTYRE: Tayvallich, ex *B.S.B.I. Maps Scheme.*

*103. MID EBUDES: grassy bank within the policies of Castle Buie, Lochbuies, Mull, 1958, *Miss U. K. Duncan.* Iona, *R. E. C. Ferreira.*

104. N. EBUDES: banks of Abhain Choisleader, Edinbain, Skye, 1958, *B.S.B.I. Field Meeting.*

*105. W. ROSS: Letterfearn; Strome Ferry, *Miss M. McCallum Webster.*

106. E. ROSS: Fortrose, Black Isle, pest of lawns and shrubberies, 1956, *U. K. Duncan.*

*108. W. SUTHERLAND: grassy roadside, Lochinver, 1957, *R. A. Graham & R. M. Harley.*

110. OUTER HEBRIDES: edge of path in shrubbery, grounds of Lewis Castle, Stornoway, 1959, *Miss U. K. Duncan.*

*111. ORKNEY: road verge, Sandwick, 1960, *Miss E. R. Bullard* (BM). Spreading over gardens and roadsides in most of Orkney, and has been reported from North Ronaldsay, the most northern isle (Bullard, 1960).

*H.1. S. KERRY: roadside bank, Fybagh, between Castlemaine and Inch, 1952; lane at Kilcummin, near Stradbally, 1957, *F. W. Simpson.* East part of Valencia Island, 1960, *D. McClintock.*

*H.2. N. KERRY: Killarney, ex *B.S.B.I. Maps Scheme.*

*H.3. W. CORK: rubbish-tip on sea-wall, half-a-mile south-east of Clonahilty, 1957, *D. P. Young.*

*H.4. MID CORK: acid grassland, Castletown, Berehaven, 1959, *P. J. Tyrer.*

H.9. CLARE: occurs as a garden weed, ex *B.S.B.I. Maps Scheme.*

H.10. NORTH TIPPERARY: occurs as a garden weed, ex *B.S.B.I. Maps Scheme.*

H.11. KILKENNY: occurs as a garden weed, ex *B.S.B.I. Maps Scheme.*

H.12. WEXFORD: lawn near a house at Fearns (Harrison, 1958).

H.13. CARLOW: occurs as a garden weed, ex *B.S.B.I. Maps Scheme.*

H.15. S.-E. GALWAY: occurs as a garden weed, ex *B.S.B.I. Maps Scheme.*

H.19. KILDARE: occurs as a garden weed, ex *B.S.B.I. Maps Scheme.*

H.20. WICKLOW: weed in Mount Usher gardens, 1961, *R. S. R. Fitter.*

H.21. DUBLIN: an abundant pest of many Dublin lawns, *Irish Times,* 5th May 1952. Roadside bank, Stepaside; lawn weed, Booterstown, 1961, *R. S. R. Fitter.*

*H.26. E. MAYO: roadside bank, Ballina, 1933, *C. Pearson* (TCD)—not H.27, W. Mayo as cited by Bangerter & Kent (1957). Portree House, Lough Carra; Ballinock Churchyard, 1957, *D. McClintock.*

H.27. W. MAYO: roadsides and streamsides, Bangor, 1957, *D. McClintock.*

H.28. SLIGO: around Downhill House; Owenmore-Bursa tributaries east of Moy river, Ballina, 1957, *D. McClintock.*

H.38. DOWN: roadside not far from Donaghadee (Harrison, 1958). Garden weed, Mahee Island, Strangford Lough, 1960, *R. S. R. Fitter.*

H.39. ANTRIM: by river at Armoy; Shane's Castle, 1958, *J. McK. Moon* (Carrothers & Moon, 1960). Greenslaw, in two places, 1960, *D. McClintock.*

H.40. LONDONDERRY: roadside, Church Island, 1958, *J. McK. Moon* (Carrothers & Moon, 1960). Garden pest, Whitepark Bay, 1960, *R. S. R. Fitter.*

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