

DERBYSHIRE BOTANICAL RECORD, 1949.

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At the instigation of Mr. A. L. Thorpe and Mr. F. Crosland, a start has been made on a scheme to bring the Rev. W. R. Linton's *Flora of Derbyshire*, published in 1903, up to date. This much-needed work will necessarily take a number of years, and as the contributors to these notes will be partaking in the revision, it is felt that no useful purpose would be served by the continued annual publication of botanical records in this *Journal*. This, then, will be the last of the series in their present form, though it is hoped that notes of botanical interest may still appear. May I take this opportunity to thank again all who have so kindly contributed to these records during the nine years of their publication. I am very grateful to all who have sent me notes this year: Mr. J. Brown, Miss R. Carey, Messrs. F. T. and R. H. Hall, W. H. Somers and C. W. Waite. Their initials appear after their records, I being responsible for the remainder.

LADMANLOW TIP.

A large number of casual plants have appeared on the Buxton Corporation tip at Ladmanlow this year, most of which are uncommon or unknown in the Buxton district, where even the common weeds of cultivation are scarce. The tip is about 1,300 ft. above sea level, and completely exposed. It is chiefly composed of cinders, and supports the usual garden escapes, such as *Calendula*, *Tropæolum*, various cultivated mints, and tomatoes, which in late September bore green fruit the size of walnuts. The most abundant plant on the tip was *Sagina procumbens*, which formed close green mats,

binding the surface of the ground together. An interesting point was the unusual luxuriance of some species, although growing in cinders through an extremely dry summer. *Veronica persica* was enormous, and the single plant of *Erodium cicutarium* quite three feet across and a mass of flowers. Plants found included the following, some being represented only by a single plant.

Sisymbrium altissimum L. *Reseda lutea* L. *Viola arvensis* agg. *Silene cucubalus* Wibel. *S. noctiflora* L. *Lychnis alba* Mill. *Spergula* sp. *Erodium cicutarium* L'Her. *Epilobium pedunculare* A. Cunn. *Sherardia arvensis* Huds. *Anthemis eotula* L. *Senecio viscosus* L. *Polemonium caeruleum* L. *Solanum nigrum* L. *Linaria elatine* (L.) Mill. *Nepeta cataria* L. *Marrubium vulgare* L. *Chenopodium rubrum* L. *Euphorbia helioscopia* L.

Ladmanlow is now closed for tipping, and it seems unlikely that many of the species will persist. The above list was supplied by Miss R. Carey.

SYSTEMATIC LIST.

Water Buttercup. *Ranunculus circinatus* Sibth. Shirley Brook; Derby Canal.

Celery-leaved Buttercup. *R. sceleratus* L. Mackworth (W.H.S.); Swarkeston Ponds.

Monkshood. *Aconitum* sp. Bradley Wood, possibly a survivor from a rubbish heap.

Great Watercress. *Rorippa amphibium* (L.) Besser. Swarkeston Ponds.

Wallflower. *Cheiranthus cheiri* L. Still surviving on Mackworth Castle gatehouse.

Narrow-leaved Bittercress. *Cardamine impatiens* L. More widespread than usual in Lathkill Dale (R.H.H.).

Wall Whitlow Grass. *Draba muralis* L. Nr. Monsal Dale Station (W.H.S.); buttresses at Haddon Hall.

Hoary Whitlow Grass. *D. incana* L. Cressbrook Dale.

Dyer's Rocket. *Reseda luteola* L. Waste ground in Middleton Dale, and nr. Cresswell Colliery (F.T.H.).

Marsh Violet. *Viola palustris* L. By Bradley Brook.

Maiden Pink. *Dianthus deltoides* L. Peter Dale (C.B.W.).

Spring Sandwort. *Arenaria verna* L. Cressbrook Dale.

Knotted Pearlwort. *Sagina nodosa* Fenzl. Seen by Mrs. R. West in Lin Dale; Axe Edge; Congleton Road, three miles from Buxton (R.H.H.).

Spergula sativa Boenn. Hulland gravel-pit.

Claytonia alsinoides Sims. Roadside, Quarndon (W.H.S.).

Mountain St. John's-wort. *Hypericum montanum* L. Cunning Dale.

Impatiens glandulifera Royle. Now naturalised in many places. Casual, Tideswell Dale (R.H.H.); by Brailsford Brook.

Hare's-foot Clover. *Trifolium arvense* L. Peter Dale (C.B.W.).

Dwarf Cherry. *Prunus avium* L. Roadside by Hulland gravel-pit.

Stone Bramble. *Rubus saxatilis* L. Cressbrook Dale.

Spring Potentilla. *P. verna* L. Rocks above Ashwood Dale; Lathkill Dale, near the old mill in a lateral dale. (R.H.H.).

Marsh Potentilla. *Comarum palustre* L. Leash Fen, abundant (C.B.W.); nr. Snelston.

Early Hawthorn. *Cratægus oxycanthoides* Thuill. Quarndon (W.H.S.).

London Pride. *Saxifraga umbrosa* L. Ashwood Dale.

White Stonecrop. *Sedum album* L. Plentiful on grit-stone wall between Calver and Curbar (F.T.H.).

Marsh Pennywort. *Hydrocotyle vulgaris* L. By stream below Greaves Piece, nr. Owlter Bar (R.H.H.).

Lesser Water Parsnip. *Sium erectum* Huds. Derby Canal.

Hedge Bedstraw. *Galium mollugo* L. Railway bank between Derby and Mickleover (W.H.S.); one patch near Bradley Wood.

Marsh Valerian. *V. dioica* L. Hulland Moss.

Blue Fleabane. *Erigeron acris* L. Middleton Dale; Chatsworth (C.B.W.).

Pearl Antennaria. *Anaphalis margaritacea* (L.) Benth. One patch, Cunning Dale (R.C.).

Ploughman's Spikenard. *Inula conyza* D.C. Greaves Piece, nr. Owlbar (R.C.).

Bur Marigold. *Bidens cernua* L. Plentiful by the upper lake in the grounds of Hardwick Hall (J.B.); ponds about Ashbourne.

Wild Chamomile. *Matricaria chamomilla* L. Between Alkington and Church Broughton.

Wormwood. *Artemisia absinthium* L. Waste ground near Cresswell Colliery (F.T.H.).

Wood Senecio. *S. sylvaticus* L. On cleared woodland, Shirley.

S. squalidus L. Waste ground near Cresswell Colliery (F.T.H.).

Dwarf Thistle. *Cirsium acaulos* (L.) Scop. On magnesian limestone, Markland Grips, nr. Clowne, 1948 (J.B.); still occurs on Wolfscote Hill.

Scotch Thistle. *Onopordon acanthium* L. Waste ground, Willington (W.H.S.).

Saw-wort. *Serratula tinctoria* L. Biggin Dale.

Chicory. *Cichorium intybus* L. Field under Longstone Edge (C.B.W.).

Hawkweed Picris. *P. hieracoides* L. Middleton-by-Youlgreave; Chee Dale (C.B.W.).

Clustered Campanula. *C. glomerata* L. Two spots in Deepdale (C.B.W.); Biggin Dale; Cunning Dale.

Hybrid Bilberry. *Vaccinium intermedium* Ruth. Big Moor; Fox House (C.B.W.).

Creeping Jenny. *Lysimachia nummularia* L. Combes Reservoir, nr. Chapel-en-le-Frith (R.H.H.).

Bog Pimpernel. *Anagallis tenella* (L.) Murr. By Bradley Brook.

Bogbean. *Menyanthes trifoliata* L. Leash Fen, abundant (C.B.W.); nr. Snelston.

Jacob's Ladder. *Polemonium cæruleum* L. Ditch nr. Stanton-by-Bridge. Although frequent on the mountain limestone of W. Derbys., the plant is scarce in other parts of the county.

Changing Forget-me-not. *Myosotis versicolor* Sm. Above Bradley Wood.

Veronica filiformis Sm. In some quantity in the lane from Parwich to Pike Hall.

Mudwort. *Limosella aquatica* L. Abundant at Combes Reservoir (R.H.H.).

Butterwort. *Pinguicula vulgaris* L. Monks Dale; Conies Dale; Ashwood Dale (C.B.W.).

Mint. *Mentha smithiana* R. Graham. Shirley Brook.

M. gentilis L. Wolfscote Dale. Both plants det. Mr. R. Graham.

Lesser Skullcap. *Scutellaria minor* Huds. Linton's records for "Salter Sich" and "by the stream by Greave's Piece, west of Smeekley Wood," are still authentic. The plant is locally abundant (R.H.H.).

Glaucous Goosefoot. *Chenopodium glaucum* L. Two plants on a manure heap, Hulland.

Creeping Willow. *Salix repens* L. Middleton Dale (C.B.W.); by the side of the High Peak Railway track nr. Stanley Moor Reservoir, Buxton (R.H.H.).

Hornwort *Ceratophyllum demersum* L. Abundant in the Derby Canal, and in Melbourne Pool. Evidently much increased since Linton's day.

Marsh Helleborine. *Epipactis palustris* (L.) Crantz. Whitwell Wood (C.B.W.).

Bee Orchis. *Ophrys apifera* Huds. One plant, Pebley Quarry (C.B.W.).

Fragrant Orchis. *Gymnadenia conopsea* (L.) R. Br. Whitwell Wood; Cressbrook Dale; Millers Dale (C.B.W.).

Crow Garlic. *Allium vineale* L. Tideswell Dale (F.T.H.).

Field Garlic. *A. oleraceum* L. Deep Dale (C.B.W.)

Lily of the Valley. *Convallaria majalis* L. Cressbrook Dale.

Yellow Star of Bethlehem. *Gagea lutea* (L.) Ker-Gawler. A new site in Ravensdale shown to me by a resident in Ravensdale Cottages (R.H.H.).

Herb Paris. *P. quadrifolia* L. Two patches, Monks Dale (C.B.W.).

Field Woodrush. *Luzula campestris* (L.) D.C. A white-flowered plant near Bradley Wood lacking the brown colouring in the inflorescence.

Duckweeds. *Lemna trisulca* L. Melbourne; Derby Canal.

L. gibba L. Now occurs in solid masses on long stretches of the Derby Canal.

L. polyrrhiza L. Derby Canal.

Flowering Rush. *Butomus umbellatus* L. Swarkeston Ponds.

Pondweeds. *Potamogeton lucens* L. Derby Canal.

P. friesii Rupr. Derby Canal.

P. compressus L. Derby Canal.

Sedges. *Carex pairæi* F. Schultz. Clifton; Hulland; det. Mr. E. Nelmes.

C. lævigata Sm. Goyt Valley, nr. Fernilee (R.C.).

Grasses. *Milium effusum* L. Found by Miss N. Gibson below the Heights of Abraham, Matlock (R.H.H.). This beautiful grass is locally abundant about Snelston, nr. Ashbourne, where it forms pure colonies under trees to the exclusion of other ground cover.

Catabrosa aquatica Beauv. Shirley Brook.

Vulpia bromoides (L.) S. F. Gray. On the stonework of Swarkeston Bridge; in abundance in a field near Bradley Wood.

Moonwort. *Botrychium lunaria* Sw. Above the

Heights of Abraham, Matlock, found by Miss B. Gray and Mr. N. Chadwick (R.H.H.).

Adder's Tongue. *Ophioglossum vulgatum* L. By Bradley Brook.

Ferns. *Asplenium viride* Huds. Cave Dale; Conies Dale (C.B.W.).

A. adiantum-nigrum L. Chatsworth; Grindleford Bridge; Combes Dale (C.B.W.).

Ceterach officinarum D.C. Lathkill Dale (C.B.W.); another small colony of about twelve plants seen this year in Dovedale.

Cystopteris fragilis (L.) Bernh. Abbey Brook, abundant; Chatsworth; both localities on gritstone (C.B.W.).

Gymnocarpium robertianum (Hoffm) Newm. Dam Dale, Peak Forest (C.B.W.).

Great Horsetail. *Equisetum telmateia* Ehrh. Chatsworth; Hassop (C.B.W.); Alkinton Bottoms.

Common Clubmoss. *Lycopodium clavatum* L. Under Froggatt Edge (C.B.W.); two small patches on Stanton Moor (R.H.H.); is reappearing in Shirley Wood after having been apparently destroyed by the war-time timber-hauling.