

Physa fontinalis, 44 Limness peregra, 47 L. paluetris, 48 L. truncatula, 50 Anovius fluviatilis.

Land.—52 Arion ater, 53 A. hortensis, 54 A. subfusous, 55 A. Bourguignati, 60 Limax flavus, 61 L. agrestis, 62 L. lævis, 64 L. arborum, 65 L. maximus, 66 L. cinereo-niger, 70 Succinea elegans, 75 Vitrina pellucida, 77 Zonites cellarius, 78 Z. alliarius, 80 Z. nitidulus, 81 Z. purus, 82 Z. radiatulus, 83 Z. nitidulus, 81 Z. purus, 82 Z. crystallinus, 86 Z. fulvus, 87 Helix lamellata, 88 H. aculeata, 90 H. aspersa, 91 H. nemoralis, 92 H. hortensis, 93 H arbustorum, 97 H. concinna, 98 H. hispida, 104 H. capersta, 106 H. rotundata, 107 H. rupestria, 108 H. pygmæs, 109 H. pulchella, 114 Balimus obscurus, 118 Papa umbilicata, 129 Vertigo edentula, 131 Balia perversa, 132 Clausilia rugoss, 137 Zua labrica, 139 Carychium minimum, 96 Helix rufescens.

NOTES ON THE FLORA OF STIRLINGSHIRE. (Third Paper.)

By Col. STIRLING of Gargunnock, and ROBERT KIDSTON, F.R.S.E., F.G.S.

In laying before the Society our third report on the Flora of Stirlingshire, we are able to record 39 species and 5 varieties which were not included in the previous papers, but it is desirable before giving the list of these additions to make a few notes on some of the new records as well as on some of those previously recorded. In our second report we recorded Typka latifolia for district I. The specimens varied somewhat from the typical form, though they were thought to be referable to that species. To settle the point, the locality was again visited last year, and additional specimens were collected, which were submitted to Mr Bennett, Croydon, who says. "Your plant is rather a puzzle, but I believe must go to Typha angustifolia. When in flower and fresh the stigmas easily distinguish them, but dried it is not so easy." The record of Typha latifolia must therefore await further confirmation. In last year's paper, though mentioned in the notes, Potamogeton undulatus was omitted from the general list, so it has been included in the list given this

Of the plants of which we saw specimens from the county for the first time last season, the following are introductions, and do not form any part of the indigenous fiera:—Camelian action, Krants, var. fætida, Fr.; Euonymus europæus, L.; Melilotus officinalis, Desv.; Fragaria elatior, Ehrh.; Saxifraga umbrosa, L., var. punctata Don.; Dipsacus sylvestris, L.; Matricaria Chamomilla, L.; Centaurea Scabiosa, L.; Polimonium cæruleum, L. Anchusa officinalis, L.; Cuscuta Epilinum, Weihe.; Mentha viridis, L.; Mentha Piperita, Huds.; Acorus Calamus, L.; Bromus madritensis. L.

Of these, Euonymus europæus is evidently planted; Fragaria elatior (Hautboy Strawberry), is probably an escape from cultivation: Saxifraga umbrosa, and var. punctata, Mentha viridis, Mentha Piperita are garden escapes. Centaurea Scabiosa, though a Scotch plant, was evidently introduced in the locality at which we collected our specimens. Dipsacus sylvestris was collected by Mr Stirling of Garden, on the side of the Forth and Clyde Railway, near Port of Monteith Station, which here was an introduction; the plant is doubtfully a native in Scotland. Cuscuta Epilinum is now probably extinct in the county. Formerly, when flax was grown, the plant was common in those districts, but since flax has ceased to be cultivated in Stirlingshire, the Ouscuta Epilinum, which is a parasite on it, appears to have quite disappeared. Strictly speaking, it should not be retained in the list of county plants, and our record is from an old specimen in the late Professor Hennedy's Herbarium, now in the Andersonian College, Glasgow. Occasionally Linum usitatissimum is found, and, of course, Cuscuta Epilinum may be found on it; but at the best, both are introductions. Sagittaria sagittifolia and Apera Spica-venti may be natives, but at present we are not in a position to settle the question. In regard to Apera Spica-venti it was recorded from Fife by Parnell, in his "Grasses of Scotland," in 1842. There seems no reason why these two plants should not be natives, but their claim as such in Stirlingshire requires to be more fully investigated.

The following new records, to us (though some of them have been previously noted by others) we believe, to be native:—Ranunculus Lenormandi, F. Schnltz; Subularia aquatica, L.; Cerastium semidecandrum, L.; Sagina ciliata, Fr.; Genista anglica, L.; Saxifraga granulata, L.; Cicuta virosa, L.; Sium latifolium, L.; Cnicus arvensis, Hoffm., var. vestitus; Hieracium pallidum, Biv., var. Schmidti, Tausch.; Hieracium pulidum, Hanbury; Hieracium duriceps, Hanbury; Hieracium sparsifolium, Lindb.; Myosotis cullina, Hoffm.; Veronica polita, Fr.;

Origanum vulgare, L.: Neottia Nidus-avis, Rish.; Convallaria majalis, L.; Juncus Gerardi, Lois.; Potamogeton pusillus, L., var. Berchstoldu, Fieber.; Sesleria carrulea, Scop.; Bromus asper, Mnrr., var. serotinus, Benek.; Agropyron caninum, Beanv.; Equisetum pratense. Ehrb.

Genista anglica we have not found ourselves, and our record is taken from a specimen in the late Professor Hennedy's Herbarium. We have not yet had an opportunity of visiting the lecality at which his specimen was got. Neottia Nidus-avis. - This we also have not met with, and our record is from a specimen collected by the late Dr Arnott, which is now in Professor Hennedy's Herbarium. We may say, however, that quite recently we are informed, on good anthority, it had been found more recently near Denny, though no specimen as yet has been submitted to us from that locality. Convallaria majalis (Lily of the Valley.)-It may not be generally known that this much appreciated plant for garden cultivation is a native of Scotland, and we believe it is native in the locality where we found it, a view in which both Mr A. Bennett and Dr Buchanan White concur. It also occurs native in Perthabire. Our record for Sesleria carulea is from a specimen in Professor Hennedy's Herbarium. from Ben Lomond. We have not yet met with it there, though Hennedy in his Clydesdale Flora says it is plentiful on Ben Lomond. For the records of Sagittaria sagittifolia, Sium latifolium, and Camelina sativa var. fætida, we are indebted to Mr Johnston Shearer. A Stirlingshire specimen of the last mentioned plant is also in Hennedy's Herbarium. We have also seen a specimen of Sagittaria sagittifolia for Stirlingshire, collected by Mesers J. & R. Wilkie, which was communicated to us by Mr Johnston Shearer. To Professor King, Andersonian College, Glasgow, we are much indebted for the privilege of going over the Herbarium of the late Professor Hennedy, in whose collection, in addition to those records already mentioned from this source, we saw the Stirlingshire specimen of Acorus Calamus. In addition to the specimen of Dipsacus sylvestris communicated to us by Mr Stirling of Garden, we are furthur indebted to him for a new locality for Ophioglossum vulgatum. Mr L. Watt, Clydebank, in addition to other assistance, has given us Stirlingshire specimens of Cicuta virosa and Subularia aquatica, Hieracium rubicundum and Hieracium sparsifolium. The example from which we record Polemonium coruleum, is from near the Distillery,

Gargunnock, and was collected by the late Mr Robt. Goddes, Bridge of Allan. Mr D. B. Morris has added new district records for Trifolium arvense and Lychnis Githago. In addition to the British plants or those usually included in works on British Botany, the following fereign introductions have been found growing on the waste ground beside the Docks, Grangemouth, and have evidently been introduced from ballast discharged on this spot :-Sisymbrium pannonicum, Saponaria Vaccaria, Potentilla Norwegica, Achillea nobilis, Beta vulgaris. For assistance in naming or confirming our identifications, we are much indebted to Messrs J. & A. Groves. London: to Mr F. J. Hanbury, for going over the Hieracia; to Mr A. Fryer, Chatteris, for revising our Potamogetons, and especially to Mr A. Bennett, for assistance in many cases of doubt, and also for assistance with the Potamogetons. Our second report contained a list of 712 species and 43 varieties, to these there must now be added 39 species and 5 varieties, making in all 751 species and 48 varieties, of all of which we have seen Stirlingshire specimens.

ADDITIONAL COUNTY AND DISTRICT RECORDS FOR STIRLING-SHIPE.—1892.

(Those marked * are not included in our previous lists.)

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	No.	Name		Dist		۱.
*	21	Ranunculus Lenormandi, F. Shultz.	1	Z	8	•
	118	Sisymbriam Alliaria Scop.	•	Ŧ	-	
٠	121	Camelina sativa, Krantz, var. fœtida, Fr.	:	_	•	•
_	121		•	•	•	•
_	122	Suhularia aquatica, L.	•	-	x	•
_	209	Lychnis Githago, Lam.	•	I	-	•
	214	Cerastium semidecandrum, L.	X	•		•
*	24 1	Sagina ciliata, Fr.	X	•	-	•
*	315	Euonymus Europæus, L.	x	-	-	
*	320	Genista anglica, L.	I			
*	340	Melilotus officinalis, Desr. (M. arvensis				
	0-10	W,)		x	-	
	350	Trifolium arvense, L.	x	-		
	413	Spiræa salicifolia, L.	I	•	-	
*	482	Fragaria elatior, Ehrh.	x	-	-	
	525	Pyrus Aria, Sm.		•	x	
٠	541	Saxifraga umbrosa, L.	x	•	-	
*	5416	do. do. var. punctata Don.	x	-	-	
*	547	do. granulata, L.	x	-	-	•
*	627	Cicuta virosa, L.	x	•	-	٠
*	637		X	•	•	•
	643	Scandex Pecten-Veneris, L.	X		•	•
*	720	Dipaccus sylvestris, E.	-	X	•	

* 769 Matricaria Chamomilla, L.		x		
706 Arctium minus, Schenk.	-	×		
* 809 Cincus arvensis, Hoffm., var. ves	titus, x		-	
* 817 Centaurea Scabiosa, L.		x		
* 8536 Hieracium pallidum, Biv., var. Sch	midtu,			
Tausch.	X	•		
* do. rubicundum, F., J.	Han-			
bury.	x	•	•	
do. duriceps, F., J. Hanbr	ıry. x	-	-	
 do. sparsifolium, Lindb. 	X	-		
* 859e murorum, L., var. micro	clad-			
ium, Dablet.	x	•	•	
905 Campanula rotundifolia, L.	-	X	•	
949 Lysimachia vulgaris, L.	x	•	-	-
* 981 Polemonium cæruleum, L.	-	x	•	-
* 988 Anchusa officinalis, L.	-	X	-	•
*1000 Myosotis collina, Hoffm.	x	•	•	-
1010 Convolvulus arvensis, L.		x	-	•
*1011 Cuscuta Epilinum, Weibe.	x	•	•	•
1035 Linaria vulgaris, Mil.	-	X	-	-
*1049 Veronica polita, Fr.	x	-	-	•
*1105 Mentha viridis, L.	x	•	•	
*1106 do Piperita, Huda.	X	•	-	•
*1117 Origanum vulgare, L.	x	•	-	•
1296 Salix aurita, L.	•	-	X	•
*1329 Neottia Nidus-avis, Rich.	x	•	•	•
*1395 Convallaria majalia, L.	X	•	•	-
*1429 Juneus Gerardi, Lois.	-	X	-	•
*1464 Acorus Calamus, L.	x	•	-	•
1473 Sagittaria sagittifolia, L.	x	٠	•	•
* Potamogeton undulatus, Wolfg.	х	•	•	•
*1502 do. pusillus, var. Bercht	oldü			
Fieber.	X	-	-	•
*1663 Apera Spica venti, Beauv.	•	X	-	-
*1688 Sesieria cærulea, Scop.	•	-	•	X
1731 Festuca arundinacea, Schreb.	x	-	•	•
*1733a Bromus asper, Murr, var. seroting Benek.	ius,			_
*1735 Bromus madritensis, L.	- :	x		
*1749 Agropyron caninum, Beauv.	x	-		_
*1813 Equisetum pratense, Ebrh.	x			
Eranonos, Mosti	_			