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# MOSS EXCHANGE CLUB.



## REPORT

*For the Year 1907.*



Work :

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1907.



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## SECRETARY'S REPORT.

The Club continues in a very flourishing state, financially, in work done, and in the number of members.

Three new Members have been admitted, and there have been no withdrawals, the membership now numbering 42. Mr. Macvicar has been admitted as Honorary Member on account of the valuable work he has done in advancing the study of Hepatics by his work as Referee, by his great assistance in compiling the Census Hepatic Catalogue, and by his publication of the useful Key to Hepatics, which many Members hope will soon be followed by a Handbook on the lines of the new Key.

Members will be very sorry to hear that Professor Barker is seriously ill, and has had to give up all work connected with the Moss Census Catalogue.

He has done an immense amount of work, and the Club is much indebted to him for having brought the undertaking so forward that the Catalogue is now in an advanced state.

All the materials he has collected for the Census are now with the Secretary, to whom all communications connected with this work should now be sent.

It is proposed to close the Catalogue by the end of May, and to try to issue it to Members and the public before the end of July. All additional records should therefore reach the Secretary before the end of May, to be in time to enter on the Catalogue.

WM. INGHAM, *Hon. Secretary.*

YORK, 29th April, 1907.

THE TWELVTH ANNUAL REPORT  
 OF THE  
 MOSS EXCHANGE CLUB,  
 1907.

DISTRIBUTER'S REPORT.

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Parcels for distribution were received from 34 Members; 2 Members sent catalogues only. The number participating in the distribution was 36.

The number of packets of Mosses and Hepatics contributed was greater than last year. This was due to the large number of Hepatics sent in, chiefly from Ireland; to the attempt made to satisfy the wants of Members who did not possess plants marked "not wanted" in the circulating Desiderata lists; also more plants were accepted from the Oblata Lists in the hope of increasing the number of records for the Moss Census Catalogue.

In the majority of cases specimens and packets were satisfactory, but a considerable amount of improvement might reasonably be expected with some Members, both in regard to packets and to the specimens themselves.

A number of "requests" were circulated by Mr. D. A. Jones with the Circulating Desiderata lists last year; in many cases these were forgotten or overlooked; a considerable amount of trouble would be saved to the distributor if these requests were attended to. It is hoped that Members will take note of the "requests" which are being sent round with the circulating Desiderata lists.

The best thanks of the Club are due to Messrs. Barker, Horrell, Ingham, Meldrum, Macvicar, Nicholson and Wheldou for acting as general Referees, and to Mr. H. N. Dixon for acting as final Referee.

E. CLEMINSIAW, *Distributor.*

MOSSES AND HEPATICS FOR DISTRIBUTION, 1907.

	MOSSES.		HEPATICS.		TOTAL.	
	Species and Vars.	Packets.	Species and Vars.	Packets.	Species and Vars.	Packets.
Miss E. Armitage ..	43	200	6	18	49	218
Mr. J. E. Bagnall ..	8	104	—	—	8	104
Prof. T. Barker ..	14	122	—	—	14	122
Mr. H. Beesley ..	17	78	1	5	18	83
Mr. A. Brinkman ..	12	107	17	95	29	212
Mr. W. H. Burrell	3	16	3	23	6	39
Mr. F. J. Chittenden	44	250	—	—	44	250
Mr. E. Clemishaw	5	53	—	—	5	53
Mr. L. J. Cocks ..	9	34	9	33	18	67
Mr. C. Crossland ..	12	27	1	2	13	29
Mr. H. Darton ..	4	12	—	—	4	12
Mr. H. N. Dixon ..	38	157	—	—	38	157
Mr. J. B. Duncan ..	67	275	13	66	80	341
Mr. W. P. Hamilton	3	13	—	—	3	13
Mr. G. Holmes ..	5	12	—	—	5	12
Mr. A. R. Horwood	9	34	4	11	13	45
Mr. J. Hunter ..	4	10	5	23	9	33
Mr. W. Ingham ..	25	147	21	98	46	245
Mr. A. B. Jackson ..	7	71	—	—	7	71
Mr. J. W. H. Johnson	1	5	—	—	1	5
Mr. D. A. Jones ..	28	115	21	125	49	240
Mr. H. H. Knight ..	—	—	7	28	7	28
Rev. Canon Lett ..	14	85	14	116	28	201
Rev. W. R. Linton	9	33	12	59	21	92
Mr. R. H. Meldrum	14	52	1	4	15	56
Mr. W. E. Nicholson	14	70	4	45	18	115
Mr. S. J. Owen ..	9	40	37	120	46	160
Rev. W. H. Painter	6	18	4	15	10	33
Mr. W. R. Sherrin ..	4	29	—	—	4	29
Sir J. Stirling ..	14	62	—	—	14	62
Rev. C. H. Waddell	11	58	—	—	11	58
Mr. W. B. Waterfall	12	69	5	29	17	98
Mr. J. A. Wheldon ..	8	55	3	28	11	83
Mr. A. Wilson ..	6	26	4	26	10	52
	<u>179</u>	<u>2439</u>	<u>192</u>	<u>969</u>	<u>67</u>	<u>3408</u>

In addition to the above, 52 Packets of Hepatics were kindly sent by  
Mr. S. M. Macvicar.

*LIST OF MOSESSES AND HEPATICUS.*

*Sphagnum fimbriatum* Wils., Ashdown Forest, Sussex (14), leg. W. R. Sherrin, 5/01. Comm. F.J.C.; var. *compactum* Warnst., Burbage Brook, Grindleford, Derbyshire, 6/01. T.B.

*Sphagnum Girgensohnii* Russ. var. *commune* Russ., Cronkley Fell, Teesdale, N.W. Yorks. (65), and High Force, Teesdale, Durham; var. *cristatum* Russ., Cronkley Fell, Teesdale (65); var. *stachyodes* Russ., Widdy Bank Fell, Teesdale, Durham (66); var. *repens* Russ., Mickle Fell and Cronkley Fell, Teesdale (65); var. *spectabile* (v. J. of Bot. xli, (1903) p. 182) Cronkley Fell, Teesdale (65), leg. D.A.J. and E. C. Horrell 8/01. Comm. F.J.C.

*Sphagnum Russowii* Warnst., var. *viride*, Widdy Bank Fell, Durham (66), 8/01. D.A.J.; var. *viridescens* Russ., Widdy Bank Fell (66); var. *pecilum* Russ., Cronkley Fell (65), and Widdy Bank Fell (66); var. *rhodochromum* Russ., Mickle Fell and Cronkley Fell (65), and Widdy Bank Fell (66), leg. D.A.J. and E. C. Horrell, 8/01. Comm. F.J.C.

*Sphagnum rubellum* Wils., var. *rubrum* Grav., Ashdown Forest, Sussex (14), leg. W.R.S. Comm. F.J.C.; also Fen bog, Goathland, N.E. Yorks. (62), 7/02. W.I.; var. *purpurascens* Warnst., Widdy Bank Fell, Teesdale (66), 8/01. leg. D.A.J. and E. C. Horrell. Comm. F.J.C.; var. *violaceum* Warnst., Geashill, King's Co., 10/03. H.W.L.; var. *normale*, Nephin Mt., Co. Mayo, 5/01. leg. H.W.L. and McArdle. Comm. H.W.L.

*Sphagnum fuscum* Klinggr., Ben Lawers (88), leg. C. H. Binstead, 7/02. Comm. F.A.; var. *fuscescens* Warnst., Cronkley Fell, Teesdale (65), leg. D.A.J. and E. C. Horrell. Comm. F.J.C.

*Sphagnum acutifolium* Russ. & Warnst., var. *viride* Warnst., Strensall Common in wood, N.E. Yorks. (62), 1/01. W.I.

*Sphagnum quinquefarium* Warnst., Llanllangel, Cardigan (16), 7/05. W.H.P.; var. *roseum* Warnst., Ceunant Llenyrch, Merioneth, leg. D.A.J., 4/01. Comm. F.J.C.; var. *viridescens* Warnst., Ceunant Llenyrch, Merioneth, 3/01, leg. D.A.J. Comm. F.J.C.; also, Barbon Low Fell, Westmorland, 7/02. W.H.P.; also, Saintfield, Co. Down, 6/03. H.W.L.; var. *pallido-viride* Warnst., Ceunant Llenyrch, Merioneth, 3/01, leg. D.A.J. Comm. F.J.C.

*Sphagnum subnitens* Russ. and Warnst., var. *versicolor* Warnst., Widdy Bank Fell, Teesdale (66), 8/01; var. *pubescens* Warnst., Widdy Bank Fell (66); var. *obscurum* Warnst., Cronkley Pastures, Teesdale (65), Meldon Pike, Teesdale (69); Widdy Bank Fell (66); var. *proportense* Schlieph., Meldon Pike, Teesdale (69); var. *flavescens* Warnst., Cronkley Fell, Teesdale (65), leg. D.A.J. and E. C. Horrell, 8/01. Comm. F.J.C.

*Sphagnum molle* Sulliv., Cwm Ffynnon Lloer, Carnarvonshire (19), 9/04. D.A.J. "New County Record."

*Sphagnum riparium* Angstr., Cockerham Moss, W. Lanes. (60), 11/02. A.W.

*Sphagnum cuspidatum* Russ. & Warnst., Montiagh, Co. Armagh, 8/01. H.W.L.; var. *falcatum* Russ., Cwm Nantcol, Merioneth, leg. D.A.J. 2/01. Comm. F.J.C.; var. *submersum* Schp., Langdon Pike, Teesdale (66), leg. D.A.J. and E. C. Horrell, 8/01, and Laxdale, Lewis (110) leg. W. J. Gibson, 3/01. Comm. F.J.C.

*Sphagnum pulchrum* Warnst., Ballygowan Bog, near Saintfield, Co. Down. H.W.L.

*Sphagnum recurvum* Russ. & Warnst., Meldon Pike, Teesdale (69), above High Force, Teesdale (66), Cronkley Fell, Teesdale (65), leg. D.A.J. and E. C. Horrell, 8/01. Comm. F.J.C.; also Theydon, Epping Forest, Essex (18), 12/04. F.J.C.

*Sphagnum parvifolium* Warnst., Widdy Bank Fell, Teesdale (66), leg. D.A.J. and E. C. Horrell, 8/01. Comm. D.A.J.

*Sphagnum mollescens* Bruch, Leith Hill, Surrey (17), leg. E. C. Horrell, 12/01. Comm. F.J.C.; f. *robusta*, Copt Hall, near Epping, Essex (19), 12/04, and Warley Common, Essex (18), 1/05. F.J.C.

*Sphagnum Wulfianum* Girgens., Dorpat, Russia, leg. Prof. Greenish, 5/88. Comm. F.J.C.

*Sphagnum compactum* DC., var. *imbricatum* Warnst., Trelleck Bog, Monmouthshire (35), 8/03. H.A.; var. *subsquarrosum* Warnst., Doo Lough Pass, Co. Mayo, 9/01. H.W.L.; also, Brookwood, Surrey, leg. W.R.S., 4/00. Comm. F.J.C.; var. *squarrosum* Russ., near Pontoon, Co. Mayo, 4/01. H.W.L.

*Sphagnum subsecundum* Limpr., Barnby Moor, S.E. Yorks. (61), 12/00. W.I.

*Sphagnum inundatum* Warnst., Slieve More, Achill, Co. Mayo, 9/01. H.W.L.

*Sphagnum Girardii* Warnst., Warley, Essex (18), 1/05. F.J.C.

*Sphagnum rufescens* Warnst., Widdy Bank Fell, Teesdale (66), leg. E. C. Horrell, 8/99. Comm. F.J.C.

*Sphagnum crassicutatum* Warnst., Leith Hill, Surrey (17), 12/00, leg. E. C. Horrell. Comm. F.J.C.

*Sphagnum obesum* Warnst., Lord's Lot Wood, W. Lanes. (60), 6/05. J.A.W.

*Sphagnum imbricatum* (Hornsch.) Russ., var. *cristatum* Warnst., Cwm Bychan, Merioneth (48), 9/02. D.A.J.; also, Geashill, King's Co., 10/03. H.W.L.

*Sphagnum turfaceum* Warnst., Brookwood, Surrey (17), leg. W.R.S. and E. C. Horrell, 1/00. Comm. F.J.C.

*Sphagnum cymbifolium* Warnst., Pinon Valley, Cardigan (46), 7/05. W.H.P.; var. *glaucescens* Warnst., Warley Common, Essex (18), 1/05. F.J.C.; var. *glauco-pallens* Warnst., Arkengarthdale, N.W. Yorks. (65), 8/00. W.L.

*Sphagnum papillosum* Lindb., Geashill, King's Co., 10/03. H.W.L.; var. *normale* Warnst., Cwm Idwal, Carnarvonshire (49), leg. E.C. 9/97; and Widdy Bank Fell, Teesdale (66), leg. D.A.J. and E. C. Horrell, 8/01. Comm. F.J.C.

*Sphagnum medium* Limpr., var. *roseum* Warnst., Widdy Bank Fell, Teesdale (66), and Mickle Fell, Teesdale (65); var. *purpurascens* Warnst., Widdy Bank Fell, Teesdale (66); var. *roseo-pallescent* Warnst., Widdy Bank Fell, Teesdale (66), leg. D.A.J. and E. C. Horrell, 8/01. Comm. F.J.C.

*Andreaea Rothii* W. & M., Nab Sear, Westmorland (69), 3/05. E.A.; var. *falcata* Ldb., Crymmych, Pembrokeshire (45), 7/06. A.B. "This I refer to the type, not to the variety." T.B.

*Andreaea crassinervis* Bruch, Croesor, Merioneth (48), 9/04. J.B.D.

*Catharinaea crispa* James, wet side of ditch, Fernilee, Buxton, Derbs. (57), 8/02. T.B.; also, on stones in stream, Hebden Bridge, S.W. Yorks. (63), 5/02. C.C.

*Catharinaea tenella* Röhl, damp sandy ground, Angley Wood, near Cranbrook, W. Kent (16), 10/06. J.S., W.E.N. Comm. W.E.N.

*Oligotrichum incurvum* Ldb., var. *laxum* Braithw., Nant Peris, Carnarvon (49), 7/06. S.J.●; also, Coniston, N. Lanes. (69), 8/89. C.H.W. teste H.N.D. "The cells seem within the limits 12-18 $\mu$  assigned by Limpricht to the type. See Handbook. This remark applies to both gatherings." T.B. "Both these have quite the habit of var. *laxum* and only differ from the characteristic form of the var. in having somewhat smaller leaf cells." H.N.D.

*Polytrichum alpinum* L. var. *septentrionale* Ldb., Slieve League, West Donegal, (26) 7/90. H.N.D.

*Polytrichum gracile* Diels., Axe Edge, near Buxton, Derbs. (57), 6/01. T.B.

*Polytrichum strictum* Banks, male and female, Loughrigg Fell, Westmorland, 5/03. E.A.

*Polytrichum commune* L. var. *minus* Weis, Aberedw, near Builth, Brecon, 7/03. H.N.D.

*Diphyseium foliosum* Mohr, var. *acutifolium* Ldb., Croesor, Merioneth, 12/05. S.J.O.; also, near Barmouth, Merioneth, 6/04. W.P.II., "lowest leaves only typical, rest as var. *acutifolium*."

*Pleurodium alternifolium* Rab., Burbage Wood, Leics. (55), 3/06. A.R.H.

*Ditrichum tenuifolium* Ldb., Maristuen, Norway, 8/00. leg. W.E.N., H.N.D. Comm. H.N.D.



*Ditrichum homomallum* Ilpe., Barton Hill, Leics. (55), 1/06. A.R.H. "New County Record."

*Ditrichum flexicaule* Ilpe., var. *densum* Braithw., Magnesian Limestone Quarry, Brodsworth, near Doncaster, 9/97. W.L.

*Seligeria Domiana*, C.M., Lover's Leap, Buxton, 3/01, and Kingsterndale, Derbs., 3/05. W.R.L.

*Seligeria paucifolia* Carr., on shaded blocks of chalk, near Lewes, E. Sussex (11). W.F.N.; also, on chalk blocks, Dane's Dyke, Bridlington, Yorks., 6/06. C.C.

*Seligeria calcarea* B. & S., Chalk pit, near Winchester, N. Hants. (12), 5/06. A.B.J.; also, Graveley, Herts., 6/01, and Edmondsham, Dorset, 5/06. W.R.L.

*Seligeria recurvata* B. & S., Ambleside, Westmorland (69), 3/05. E.A.

*Brachyodus trichodes* Fürnr., damp sandstone rocks, Bleasdale, W. Lancs. (60), 12/02. A.W. "I make this *Seligeria recurvata*, seta flexuose, capsule non-striate." R.H.M. "Certainly *S. recurvata*." H.N.D. "Through inadvertence the *Seligeria* was overlooked. The gathering contained also *Brachyodus*, which was the only plant noticed at the time, and I presumed that the material was all alike, as also did Mr. Wheldon, to whom I sent a duplicate of the gathering. The packet returned to me contains nothing but *Seligeria*, but possibly some of the others may contain *Brachyodus* as well. Mr. Wheldon writes me that his duplicate packet contains both plants." A.W.

*Rhabdoweisia fagar* B. & S., Barmouth, Merioneth, Sep./04. F.J.C.; also, J.B.D.

*Cynodontium gracilescens* Schp., rocks in wood, Suldén, S. Tirol, 8/04. H.N.D. & W.F.N. Comm. W.F.N.

*Dichodontium pellucidum* Schp. var.? R. Haffes, near Brecon, July 5/06, leg. C. H. Binstead. Comm. W.R.L. "C. H. Binstead thought the specimens were different from ordinary *D. pellucidum*." "I should put this under var. *compactum*." R.H.M. "Although a compact form, it is scarcely, I think, marked enough to quite come under var. *compactum* Schp. as I understand it." H.N.D.; var. *lagimontanum* Schp., Ben Lawers, 3000ft., Oct./05. J.B.

*Dichodontium flavescens* Ldb., Maenclochog, Pembroke (45), 7/06. A.B.; also, c.fr., Hampton Load, Salop (40), 3/06 and 5/05. J.B.D.; also, Buchanty, Perthshire (38), 10/06. R.H.M.

*Dicranella heteromalla* Schp., var. *interrupta* B. & S., Cwm Mawr, Merioneth, 9/04. J.B.D.

*Dicranella cerviculata* Schp., Rhos Goch bog, Radnorshire, 7/06. E.A.

*Dieranella crispa* Schp., Shirley, 1/97, and Buxton, Derhs., 6/01.  
W.R.L.

*Dieranella secunda* Ldb., Craig Cailleach, Perthshire (88), 8/03.  
S.J.O.

*Dieranella rufescens* Schp., claypit, Beeston Regis, E. Norfolk (27),  
2/03. W.H.B.; also, sandstone rock, Shifnal, Salop (40), 2/06.  
W.H.P.

*Dieranella Schreberi* Schp., wet clay bank, Glencorse, near Edin-  
burgh (83), 6/05. J.H.

*Campylopus subulatus* Schp., Monereiffe Hill, Perthshire (88),  
11/03. R.H.M.

*Campylopus Schimperii* Milde, Stob Garbh, Perthshire (88), 7/06.  
R.H.M.

*Campylopus Schwarzii* Schp., Cwm Mawr, Merioneth (48), 9/04.  
J.B.D. "Specimens so named, same locality, date and collector are  
in last year's report assigned to *C. atrocirens* var. *gracilis* by Mr.  
Dixon. Not having seen last year's plant, I do not know if these  
are the same. In my opinion they are correctly named, differing  
from *atrocirens* in breadth of nerve and style of auricles. One packet  
contains a stem or two of *C. atrocirens*." R.H.M. "Not the same  
plant which was sent out before (which had *inter alia* the hyaline  
points of *C. atrocirens*). This is, I should say, correctly determined  
as *C. Schwarzii*." H.N.D.

*Campylopus sternosus* Brid., a form, shores of lake, Cwm Mawr,  
Merioneth, 9/04. J.B.D.

*Campylopus sternosus* Brid., "a large form," Adrigole, Co. Cork,  
8/05. J.B.D. "I think this might come under var. *uliginosus*."  
R.H.M. "Perhaps, as you say, best placed under var. *uliginosus*,  
though not quite the usual habit, being more robust and rigid."  
H.N.D.; var. *paradoxus* Husn., Maentwrog Valley, Merioneth, 9/06.  
S.J.O.; also, Stockton Forest, N.E. Yorks. (62), 6/06. W.I. "A  
very robust form."; var. *zonatus* Milde, Cwm Bychan, Merioneth  
(48), 4/03. F.J.C.

*Campylopus pyriformis* Brid., Stockton Forest, N.E. Yorks., 6/06.  
W.I. "Very tomentose, radiculose along almost all the stem."

*Campylopus fragilis* B. & S. ex. fr., Tore mountain, Killarney, 8/06.  
S.J.O. "This is *C. sternosus* var. *zonatus*, there is only a stem or  
two of *fragilis*." R.H.M. "I should scarcely have referred it to  
var. *zonatus*." H.N.D.

*Campylopus setifolius* Wils., Bwlch Tydiadd, Merioneth (48),  
8/04. F.J.C.

*Campylopus atrocirens* De Not., var. *fulcatus* Braithw., Adrigole,  
Co. Cork, 8/05. J.B.D.

*Campylopus brevipilus* B. & S., var. *auriculatus* Ferg., Adrigole, Co. Cork, 8/05. D.A.J.

*Campylopus lamellinervis* (C.M.) Mitt. (*C. penicillatus* Wils.) Piqueta, Brazil, leg. A. Roberts. Comm. F.J.C.

*Dicranodontium longirostre* B. & S., var. *alpinum* Schp., Ben More, Perthshire (88), 7/03. R.H.M.

*Dicranum falcatum* Hedw., Ben Heasgarnich, Perthshire (88), 7/01. R.H.M.

*Dicranum melle* Wils., Ben More, 3,500ft., Perthshire (88), 8/03. J.B.D.; also, summit of Ben Lui (88), 7/85. W.B.W.

*Dicranum scoparium* Hedw., var. *spadiceum* Boul., summit of Greygarth Fell, 2020ft., W. Lanes. (60), 5/05. J.A.W. "See 1906 Report." R.H.M.; var. *ericetorum* Corbière, Hebden Bridge, S.W. (63), 1/06. C.C. "If any member has access to Corbière's description of this var. he might insert it in the Note Book." R.H.M.

*Dicranum fuscescens* Turn., var. *falcifolium* Braithw., on dry conglomerate rocks, Penyard Wood, Ross, Herefordshire (36), 3/98. E.A. "Yes, but specimens in rather poor condition." R.H.M.

*Dicranum flagellum* Hedw., Blithfield Park, Staffs. (39), 27/10/93. J.E.B.

*Dicranum montanum* Hedw., Hamblton Loade, Salop, 5/06. J.B.D. "Very luxuriant."

*Dicranum longifolium* Ehrh., on boulder, Pont d'Espagne, Caunterets, Pyrenees, leg. W.F.N., H.N.D., 8/02. Comm. H.N.D.

*Leucobryum albidum* Ldb., under oaks, Lyndhurst, S. Hants., 7/05. A.B.J. "This seems to be an intermediate form." R.H.M. "Although a small and neat form, it is no more marked in its vegetative characters than fruiting specimens from the New Forest, which Braithwaite refers to *L. glaucum*. Whatever the value of *L. albidum*, I feel sure that it is not safe to refer sterile plants to it." H.N.D.

*Fissidens viridulus* Wahl., near Scraftoft, Leics. (55), Ap/04. A.R.H. "This I refer to *incurrens*." T.B.; also, Symond's Yat, W. Gloster (34), Ap/06. E.A. "Is *F. bryoides*, axillary male flowers." T.B.

*Fissidens incurvus* Starke, Clay bank, near Hertford (20), 8/05. H.D.; also, Symond's Yat, W. Gloster (34), 4/05. E.A. "Yes, as to fertile plant, but there is an admixture of *F. taxifolius* and other things." T.B. Not distributed.

*Fissidens exilis* Hedw., Shirley and Longford, Derbs. (57). W.R.L. "Yes, as concerns the Shirley plant, but the plant from Longford is *F. viridulus* var. *Lylei* Wils." T.B.

*Fissidens tamarindifolius* Wils., Shirley, Derbs. (57), 3/05. W.R.L. "Part secus *F. incurvus*, the rest is scarcely typical *tamarindifolius*, the capsule being too long and the leaves also too long; it is somewhat intermediate between type and var." T.B. "A very dubious plant, and certainly should not be distributed as *F. tamarindifolius* without qualification." H.N.D.

*Fissidens crassipes* Wils., on stones, canal overflow, Chalford, Stroud, Glos. 12/04. G.H. "A very small form." H.N.D.; also, on stones in river, Camelford, Cornwall, 1/84. W.B.W.

*Fissidens polyphyllus* Wils., Glengariff, Co. Cork, 8/05. J.B.D.; also, near Penzance, Cornwall (1), 9/06. F.J.C.

*Fissidens decipiens* De Not. Great Doward, Herefordshire (36), 1/06. E.A. "There was an accidental admixture of *F. taxifolius*, which I have picked out, so I think only *F. decipiens* is left." T.B.

*Grimmia conferta* Funck, Callerfountain Hill, Perthshire (88), 5/07. R.H.M.

*Grimmia incurva* Schgwr., Titterstone Clee Hill, Salop (40), Oct. 02. J.B.D.

*Grimmia robusta* Ferg., Maentwrog Valley, Merioneth (48), 1/06. D.A.J. "Here the leaf-arcolation seems scarcely distinguishable from that of *Gr. trichophylla*, but I do not propose to alter the name, as I believe this plant is what is denoted by *Gr. robusta*." T.B.

*Grimmia elatior* B. & S., on boulder near Zermatt, Switz., c.fr., 7/06. J.S.

*Grimmia arenaria* Hampe, face of rock, Penmaenpool, near Dolgelly, Merioneth, 23/7/01. H.N.D.

*Grimmia montana* B. & S., Slate rock, Honister, Cumberland, 8/85. W.B.W. "This is *Gr. Stirtoni* Schp., typical, and not one of the so-called intermediates between that and *Gr. trichophylla*." T.B.

*Grimmia leucophora* Grev., Callerfountain Hill, Perthshire (88), 1/07. R.H.M.; also, Zermatt, Switz., 7/06. J.S. "This seems to differ somewhat from British specimens of this species, and to resemble *Gr. tergestina*, but Mr. Dixon, to whom I referred it, thinks it less like the latter than like the former, so the name stands." T.B.

*Grimmia atrata* Miel., rocks, Loch Skene, 2000ft., Dumfries (72), 8/03. J.B.D.

*Racomitrium ramulosum* Ldh., Ben Lawers, Aug./02. D.A.J. and J.B.D.

*Racomitrium canescens* Bridl., var. *ericoides* B. & S., Ben Lawers, Aug./02. J.B.D. "An almost muticous blunt-leaved form." T.B.

*Acantion triquetrum* C.M., Telscombe Cliffs, E. Sussex, (14), 6/02. W.F.N.

*Pottia recta* Mitt., walls, Pioll Trefeithan, St. David's, Pembroke, leg. W.R.L., 4/98. Comm. H.N.D.

*Pottia bryoides* Mitt., Downs, near Birling Gap, Eastbourne, E. Sussex (14), 3/03. W.E.N.

*Pottia Heimii* Fürur., Burnham, Somerset (6), 5/05. H.D.; also, Silverdale, W. Lancs. (62), 4/06. A.W., and Coatham Marshes (62), 9/98, W.I.

*Pottia intermedia* Fürur., Beeby, Leics. (55), 3/06. A.R.H.

*Pottia crinita* Wils., St. Ishmael's, Pembroke, Jan. 07. A.B.  
 "Accompanied by 4 specimens which, in a note sent with them, Mr. Brinkman is inclined to doubtfully refer to *P. viridifolia* Mitt. The specimens of *P. crinita*, which are very fine, hardly need special comment, except for the fact that the calyptra is occasionally slightly papillose, the hair-point of the leaves is frequently rather reduced, and that the latter not infrequently have a tendency to the deep green colour predicative of *P. viridifolia*. With regard to the 4 specimens they undoubtedly exhibit several of the *viridifolia* characters, but on the other hand they are so clearly connected with *crinita* that I should be inclined to name them *P. crinita* closely approaching *P. viridifolia*. They are not quite such extreme forms as some *P. viridifolia* of Mr. D. A. Jones' gathering which I examined last year. I regard, however, *P. viridifolia* as only the extreme link in a continuous chain of forms, of which *crinita* itself is only a knot, connecting *P. Wilsoni* and *P. viridifolia*." W.E.N.

*P. Wilsoni* B. & S., Sheringham, E. Norfolk (27), 1/07. W.H.B.

*Pottia littoralis* Mitt., muddy ground near coast, Silverdale, W. Lancs. (60), 3/06. A.W.

*Pottia Starkeana* C.M., St. Ishmael's, Pembroke (45), 12/06. A.B.  
 "I make this plant a well-marked form of the variety *brachyodus* Wils. I find the peristome very short and imperfect, scarcely more in fact than I have occasionally seen on *P. minutula*. The spores, however, of Mr. Brinkman's plant are quite of the *Starkeana* type. The capsules of this plant gathered in December are quite mature, most of them being deoperculate. In Sussex I have generally found typical *Starkeana* mature about March." W.E.N.

*Pottia coespitosa* C.M., Chalk Pit, Malling Hill, Lewes, E. Sussex (14), March 21/04. W.E.N.; also, Yarkhill, near Hereford (36), 3/04, leg. C. H. Binstead. Comm. E.A.

*Pottia lanceolata* C.M., Syston, Leics. (55), 3/05. A.R.H.

*Tortula pusilla* Mitt., Old Humberstone, Leics. (55), 3/04. A.R.H.

*Tortula rigida* Schrad., Old Humberstone (55), 3/06. A.R.H.

*Tortula aloides* De Not., St. Ishmael's, Pembroke (45). A.B.

*Tortula runcifolia* Roth, St. Ishmael's (45), 11/06. A.B.

*Tortula angustata* Wils., Naseby, Northants, 1/87. H.N.D.

*Tortula nutica* Ldb., Nobold, Salop (40), 4/97. W.P.H.

*Tortula laevipila* v. *laevipilaformis* (De Not.) Limpr., Greendishburgh, E. Suffolk, 5/06. W.R.S. "As this plant was certified by Mr. H. N. Dixon, I submitted the whole of the material to him before venturing to report upon it. A faint border may be present on some of the leaves, though I have found some difficulty in tracing it, and I cannot find any brood leaves at all. I think, therefore, and Mr. Dixon agrees with me, that the plant should be named *T. laevipila*, showing a slight tendency to the var. *laevipilaformis*. It is clear from Mr. Dixon's letter that the plant originally submitted to him was better characterized than the present gathering. At the best of times the var. *laevipilaformis* is not very strongly characterized, and it frequently grows with quite typical plants." W.E.N.

*Tortula ruraliformis* Dixon, c.fr., sandhills, Harlech, Merioneth, 5/06. D.A.J.

*Tortula princeps* De Not., c.fr., Inver, Perthshire (88), leg. C. McIntosh, 2/01. Comm. R.H.M.

*Tortula papillosa* Wils., Greendishburgh, E. Suffolk, 5/06. W.R.S.; also, Llanelltyd, Merioneth, 9/98. T.B.

*Barbula tophiacea* Mitt., sandy shore near Formby, S. Lancs. (59), July/03 and Aug./04. J.A.W. "A large maritime form."

*Barbula cordata* (Jur.) Dixon, Roadside, St. Sauveur, Pyrenees, Aug. 15/02. H.N.D. and W.E.N.

*Barbula recurvifolia* Schp., Muckross, Killarney, 8/06. S.J.● and J.B.D.

*Barbula spadicca* Mitt., Mor Brook, Eardington, Salop. J.B.D.

*Barbula vinealis* Brid., c.fr., Ross, Herefordshire, 4/06. E.A.

*Barbula sinuosa* Braithw., near Bewdley, Wores., 11/01. J.B.D.

*Barbula convoluta* Hedw., var. *Sardoa* B. & S., Thoruhill, Dewsbury, S.W. Yorks. (63), 1/07. J.W.H.J. "Divided apical cell." "I should be inclined to name this as *B. convoluta* approaching the var. *Sardoa*. I do not find it a well-characterized form of the variety, and I am doubtful from this and previous examinations of the character, if the divided apical cell will be found a crucial test to rely on." W.E.N.

*Weisia crispa* Mitt., Cemetery, Stroud, Glos., 4/02.

*Weisia crispata* C.M., near Harpur Hill, Buxton, Derbs. (57), 5/03. T.B.

*Weisia sterilis* Nicholson, stony field on chalk near Lewes, E. Sussex (14), 3/05. W.E.N.

*Weisia multcapsularis* Mitt., sandy clay soil, Barcombe, E. Sussex (14), 17/3/02. W.E.N.

*Weisia calcarea* C.M., Symond's Yat, W. Gloster (34), Jan./06. E.A. "A very remarkable plant with a considerable general resemblance, both in size and habit to *Weisia calcarea*. On careful microscopic examination, however, I can make nothing of it but a diminutive form of *Barbula tophacea*, with which in the shape of the leaves and the arcolation it agrees well. It is instructive to compare this plant with the tall luxuriant form of *B. tophacea*, over an inch high, sent by Mr. Wheldon from near Formby." W.E.N.

*Weisia calcarea* C.M., var. *viridula* C.M., Rickeson, Pembrokeshire, 6/06. A.B.

*Weisia curvirostris* C.M., near var. *commutata* Dixon, Auchmore Burn, Loch Tay (38), 6/00. L.J.C.

*Trichostomum crispulum* Bruch, var. *elatum* Schp., Muckcross, Killarney, 8/06, D.A.J.; also Llandecwyn, Merioneth, 9/04. J.B.D.; var. *nigro-viride* Dixon, Eglwyseg Rocks, Llangollen, Denbigh (50), 8/00. T.B.; var. *brevisolium* Schp., Limestone Rocks, Berwig, Denbighshire, 8/0d. D.A.J. "New County Record."

*Trichostomum tenuirostre* Ldb., c.fr., rotten-fir-stump, Adelboden, Switz., 21/7)06. H.N.D.; var. *Hottii* Dixon, Killarney, 8/05. J.B.D.

*Trichostomum tortuosum* Dixon, c.fr., Redding Enclosure, Monmouthshire, 2/05. E.A.

*Trichostomum fragile* Dixon, rock ledges, Suldén, Tirol, 8500ft., 9/8/02. H.N.D.

*Pleurochete squarrosa* Ldb., among grass, The Crumbles, Eastbourne, E. Sussex, 12/87. H.N.D.

*Cinclidolus Brebissoni* Husn., Rickeson, Pembrokeshire (45), 6/06. A.B.; also, Eardington, Salop (40), 5/06. J.B.D.; also, on rotten wood, river Rib, Hertford (20). H.D.; also, Preston Bagot, Warwicks. (38), 8/86. J.E.B.

*Encalypta ciliata* Hoffm., Honister, Cumberland, 8/85. W.B.W.

*Encalypta streptocarpa* Hedw., c.fr., Adelboden, Switz., 7/06. H.N.D.; also, Road from Dunkeld to Pitlochrie, E. Perth (89), 7/81. T.B.

*Anæctangium compactum* Schwg., c.fr., Cader Idris, Merioneth, 9/04. J.B.D.

*Molendocia Sendtneriana* Limpr., on wet rocks, Engstligen Falls. Adelboden, Switz., 7/06. H.N.D.

*Zygodon lapponicus* B. & S., St. Moritz, Switz., leg. Dr. Fraser, 7/81. Comm. J.E.B.

*Zygodon viridissimus* R.Br., c.fr., on trees, Killarney, 8/06. D.A.J.

*Ulota crispa* Brid., Killin, Perth. (83). J.B.D.

*Orthotrichum rupestre* Schleich., on trees, Loch Tay, Perth., (88), 8/02. J.B.D.; var. *Franzoniannum* Vent., on tree near Fortingall, Glen Lyon, Perth. (88), 7/93. H.N.D.

*Orthotrichum anomalum* Hedw., var. *saxatile* Milde, Symond's Yat, W. Gloster (34), 4/05. E.A. "A curious and interesting plant, which I make, however, a form of the protean *O. cupulatum* Hoffm. Miss Armitage was no doubt led to refer it to *O. saxatile* from the constantly 8-ribbed capsules with only occasionally faint traces of intermediate striæ, as in *O. saxatile*. In addition, however, to the short rounded and scarcely emergent capsules, I find the peristome and especially the "Vor-peristome" those of *O. cupulatum*. The rather less covered stomata point in the same direction. Limpricht gives a var. *octo-striatum* of *O. cupulatum*, but such forms are, I believe, rare." W.E.N.

*Orthotrichum speciosum* Nees, c.fr., mixed with *Leucodon* and *Leskea nervosa*, Diablerets, Switz., 7/06. J.S.

*Orthotrichum affine* Schrad., var. *rivale* Wils., on willows, Knightcote, Warwicks. leg. C.H.W. and H.N.D., 8/06. Comm. H.N.D.; also, Chollerford, Northumberland, 7/05. H.N.D.; also, on trees occasionally overflowed, R. Aviemore, E. Inverness, leg. S. M. Macvicar, 6/95. Comm. H.N.D.; also, R. Wye, near Radnorshire, 7/02. W.R.L.; also, willow holes, Great Doward, Herefordshire, leg. A. Ley, 2/07. Comm. W.R.L.

*Orthotrichum Sprucei* Mont., on stumps, R. Monnon, Mounmouth, 3/84. W.B.W. "I find an admixture in two packets to which I have drawn attention on the packets themselves." W.E.N.

*Orthotrichum obtusifolium* Schrad., c.fr., Diablerets, Switz., 7/06. J.S. "The barren plant in these packets is *O. obtusifolium*, the few capsules belong to another species, probably *O. affine*." W.E.N.; also, on trees, Tysoe, S. Warwicks. (38), 3/87. J.E.B.

*Edipodium Griffithianum* Schwg., Moel Hebog, Carnarvonshire, 7/88. H.N.D.

*Diselium nudum* Brid., shale banks by Tatham Beck, Hindburndale, W. Lancs. (60), 5/00. A.W.

*Physcomitrium sphaericum* Brid., on mud of Whaley Reservoir, Whaley Bridge, Cheshire, 9/93. T.B.

*Paludella squarrosa* Brid., Maristuen, Norway, leg. W.E.N., 8/00. Comm. H.N.D.

*Aulacomnium turgidum* Schwgr., Mcall na Saone, Killin, Perth. (88), 7/02. L.J.C. and 8/03. J.B.D.

*Aulacomnium palustre* Schwgr., c.fr., swamp near Vellet, W. Lancs. (60), 6/05. J.A.W.

*Timmia austriaca* Hedw., c.fr., Zermatt, Switz. 7/06. J.S.

*Timmia norvegica* Zett., Ben Lawers, 8/02. J.B.D.

*Cotoseopium nigratum* Brid., Ben Lawers, 8/02. J.B.D.

*Conostomum boreale* Sw., c.fr., Ben Lawers, 8/02. J.B.D.



- Bartramia stricta* Brid., Stanner Rock, Radnorshire, 3/03. E.A.
- Philonotis adpressa* Ferg., Buckden, Mid-W. Yorks. (64), 1/8/04. W.I.
- Philonotis calcarea* Schp., lock pound in R. Kennet between Hamstead, Marshall and Newbury, Berks., 6/06. A.B.J.; also, c.fr., Gemmi Pass, Switz., 24/7/06. H.N.D.
- Philonotis capillaris* Ldb., Wyre Forest, Worc. (37), 9/03, and 11/06. J.B.D.
- Brentelia arcuata* Schp., c.fr., Tyn-y-groes, Merioneth, 9/04. J.B.D.; also, with male flowers, Longmynd, Salop, 6/06. E.C.
- Orthodontium gracile* Schwgr., Oakamore, Staffs. (39), 28/6/97. J.E.B.
- Webera erecta* (Roth) Correns, on old gritty road, near Whitehall, Buxton, Derbs. (57), 9/05. T.B. "Bulbils large, solitary." J.A.W.
- Webera prolifera* Lindb., sandstone rocks, Stourport, Worcs. (36), 11/04. J.B.D.
- Webera bulbifera* (Warnst.) Correns, peaty bank of ditch, Corbar Hill, Buxton, 7/06. T.B.
- Webera Ludwigii* Schp., Stob Garbh, Perthshire (89), 7/06. R.H.M.; var. *latifolia* Schp., Esk House, Scaw Fell Pike, Cumberland, 8/05. H.N.D.
- Webera Tozeri* Schp., Dale, St. Ishmael's and Marlocs, nr. mouth of Milford Haven, Pembrokeshire, 4/06. A.B.
- Bryum Warnum* Bland., sandhills, Harlech, Merioneth, 5/02. D.A.J.
- Bryum Marratii* Wils., coast near Middleton, Heysham, W. Lanes. (60), 7/06. A.W.
- Bryum inclinatum* Bland., Dunbarrie Links, Fife, leg. J. McAndrew, 6/06. Comm. J.H. "Is *Bryum pendulum* Schimp., var. *compactum* Schimp." J.A.W.
- Bryum uliginosum* B. & S., Hattersley, Cheshire (58), leg. J. Scholefield, ex. Herb. J. Whitehead, 9/65. Comm. T.B.
- Bryum Duvalii* Voit, Rosthwaite, Helvellyn, Westmorland, 8/86. W.B.W.
- Bryum turbinatum* Schwgr., Mochras, near Harlech, Merioneth, 7/05. D.A.J. "New County Record."
- Bryum pseudo-triquetrum* Schwg., var. *compactum* B. & S., Cross Fell Beck, Cumberland, 7/04. Ll.J.C. "Yes, dioicous." J.A.W.
- Bryum pallescens* Schleich., near Youlgrave, Bakewell, Derbs. (57), 7/04. T.B.

*Bryum capillare* L. var. *Forcheltii* B. & S., wooden roof of cow-house, Adelboden, Switz., 7/06. H.N.D.; var. *elegans* Nces, Callersfontain Hill, Perth. (88), 12/04. R.H.M.

*Bryum obeumicum* Hornsch., sandstone, Courtlands Wood, Maresfield, E. Sussex (14), 6/04. W.E.N.

*Bryum erythrocarpum* Schwgr., on sandy peat, Craig Cailench, Perth. (88), leg. C. H. Binstead, 7/02. Comm. E.A.

*Bryum atropurpureum* W. & M., Symond's Yat, W. Gloster (34), 5/04. E.A.

*Bryum murale* Wils., Bayshaw, Sellack, Herefordshire (36), 4/06. E.A.

*Bryum alpinum* Huds., c.fr., Fingal Bridge, S. Devon, 7/88. W.B.W.

*Mnium affine* Bland., Cadley, near Preston, W. Lancs., 9/06. H.B.; *elatum* B. & S., carr, near Netherton, S. Lanc. (59), 1/06. J.A.W.; also, St. John's, Isle of Man, 7/03. H.B.; also, St. Ishmael's, Pembrokesbire, 4/06. A.B. "The last represents the variety very badly, but is I think a poor state of it." J.A.W.

*Mnium orthorrhynchum* B. & S., c.fr., Adelboden, Switz., 7/06. H.N.D.

*Mnium punctatum* L., var. *elatum* Schp., Stob Garbh, Perthshire (88), 7/06. R.H.M. "Mr. Wilson and I have collected the same form on Ben Lawers. It is a marked form, and is probably var. *elatum* Schp., but if so the description is only applicable to young leaves of the shoots. The mature leaves are often apiculate, and have a strong though narrow cartilaginous border." J.A.W.

*Cinclidium stygium* Sw., Ben Lawers, 8/02. J.B.D.

*Fontinalis anti-pyretica* L., var. *cymbifolia* Nicholson, R. Ouse, Cold Brayfield, Bucks., 8/06. H.N.D.

*Fontinalis squamosa* L., c.fr., Trevaylen Bottom, near Penzance, W. Cornwall (1), 9/06. F.J.C.

*Fontinalis Dixonii* Card., Cwm Bychan, Merioneth, 9/03. D.A.J.

*Neckera crispa* Hedw., c.fr., Symond's Yat, W. Gloster (34), 3/06. E.A.

*Neckera complanata* Hübn., c.fr., Symond's Yat (34), 3/06. E.A.

*Hookeria lacte-virens* H. & T., Mousehole, near Penzance, W. Cornwall, 12/84. W.B.W.; also, O'Sullivan's Cascade, Killarney, 8/06. J.B.D.

*Leucodon sciuroides* Schwgr., var. *morensis* B. & S., Craigan Lochain, Killin, Perth. (88), 7/02. H.J.C.

*Pterogonium gracile* Sw., c.fr., on sloping tree-trunks between Brockenhurst and Lyndhurst, S. Hants. 7/06. A.B.J.

*Habrodon Notarisii* Schp., on sycamore, Loweswater, Cumberland, 8/06. W.B.W.

*Myurella julacea* B. & S., var. *scabrifolia* Lindb., Craig Cailleach, Killin, Perth. (88), 8/00. Ll.J.C.

*Leskea nervosa* Myr., Cortina, S. Tirol, 9/04, and Diablerets, Switz., 7/06. J.S.

*Anomodon attenuatus* Hüb., on trees, Deer Lake, Newfoundland, 8/97, leg. Rev. A. C. Waghorne. Comm. H.N.D. and Odde, Norway, 7/00, leg. W.E.N. and H.N.D. Comm. H.N.D.

*Anomodon viticulosus* H. & T., c.fr., Great Doward, Herefordshire, 1/06. E.A.

*Leptodon Smithii* Mohr, near Bournemouth, S. Hants., 9/03. E.C.

*Heterocladium heteropterum* B. & S., var. *fallax* Milde, Seckley Wood, near Bewdley, Worcs., 3/94. J.E.B.

*Heterocladium dimorphum* B. & S., Ben Lawers, 8-02. J.B.D.; and, Ben Lawers, 7/05. W.H.B.

*Thuidium abietinum* B. & S., sand dunes, Inniscrone, Co. Sligo, 6/02. H.W.L.; also, Diablerets, Switz., 7/06. E.C.

*Thuidium decipiens* De Not., Ben Lawers, 8/02. J.B.D.

*Thuidium delicatulum* Mitt., Glen Luss, Dumbartonshire, 6/06. Ll.J.C.; also, L. Assynt, Sutherlandshire, 7/99. H.N.D.

*Thuidium Philiberti* Limpr., Meall nan Tarmachan, Killin, Perth. (88), 8/02. J.B.D.

*Thuidium pseudo-tamarisci* Limpr., boulder in wood, Adelboden, Switz., 17/7/06. H.N.D. "Should occur in sub-alpine woods in Britain. Differs from *Th. Philiberti* in 3-pinnate branching, nerve and recurved margin reaching to acumen."

*Cylindrothecium concinnum* Schp., Ben Lawers, 3500ft., 8/02. J.B.D.

*Myurium Hebridarum* Schp., near Tarbet, Harris, and W. coast of Uist, Hebrides (110), leg. W. West, 8/02. Comm. H.N.D., R.H.M., C.H.W., F.J.C.

*Pylaisia polyantha* B. & S., Bad Schinznach, Aargau, Switz., 8/05. J.S.

*Isothecium myurum* Brid., var. *robustum* B. & S., Sanetsch Pass, 4500ft., Canton Berne, Switz., 7/06. E.C. "Mr. Dixon says he is inclined to think that the ordinary forms of *I. myurum* on the continent are more robust than ours, and consequently these very large forms do not strike continental authors as so marked as they appear to us, who are accustomed to look upon a smaller plant as the type. Thus it is a very large plant with us that has leaves 2 mm. long, but Limpricht gives the ordinary measurement as 2-3 mm. long."

"The above fine variety is described by Boulay as follows:—

*B. robustum* Bry. Eur. Secondary stems *erect* or *ascending*, much branched; branches sub-obtuse, stout, *inflated*; tufts more robust, often yellowish, variegated with rusty brown.

The var. *elongatum* Schp. is only the same plant, the stem giving off simple, distant, elongated branches, or slightly divided secondary stems.

Boulay unites these two varieties, and Mr. Dixon says that Mr. Clemenshaw's plant would come under the latter form.

Warnstorff describes the v. *robustum* as follows: Plant very strong; branches stem-like erect, irregularly branched and tufted, 4-6 cm. high. Small branches catkin-like, round-leaved and very short pointed. Leaves almost spatulate and very concave from the broadly incurved margin, 2 mm. long and 1 mm. broad, with a shortly toothed apex." W.I.

*Camptothecium lutescens* B. & S., c.fr., Great Doward, Herefordshire, 5/04. E.A.

*Brachythecium plicatum* B. & S., c.fr., Diablerets, Switz., 7/06. J.S.

*Brachythecium salebrosum* B. & S., c.fr., tree stumps in osier-bed, near Midgham, Berks., 4/06. A.B.J. "Yes (autoicous). I should name it the var. *palustre* Schp." W.I. "This has very much the foliage of var. *palustre*, but the habit, radiculose stems, etc., are rather of the type. I think it should scarcely be referred to var. *palustre*: it may of course be one of the other vars. described under *Br. salebrosum*." H.N.D.; var. *palustre* Schp., c.fr., Morfa Bychan, Portmadoc, Carnarvonshire (49), 10/06. D.A.J. "New County Record."

*Brachythecium rivulare* B. & S., forma, Rhaiadr, Harlech, Merioneth, 6/05. D.A.J.; var. *cataractarum* Sauter, Hebden Bridge, Yorks. (63), 5/00. C.C.

*Brachythecium cespitosum* Dixon, Frodsham, Cheshire (58), leg. W. Wilson, 24/10.01. ex-Brit. Mus. Herb. Comm. F.J.C.; also, R. Wye, near Hay, Radnorshire, 7/02. W.R.L.; also, Linton Lock, R. Ouse, N.E. Yorks. (62), 7/06. W.I.; also, Aylestone, Leics. (55), 3/06., A.R.H. "Last is *E. crassinervium*. Note margin recurved below, longer acumen and non-julaceous stems." W.I.

*Brachythecium illecebrum* De Not., Blackstone, Bewdley, Worcs., 5/06. J.B.D.; also, Hamstead Park, Berks., 11/06. A.B.J.

*Brachythecium purum* Dixon, near Blackpool, W. Lancs., 3/01. H.B. "Form with curious spreading-leaves."

*Hyocomium flagellare* B. & S., c.fr., Croesor, Merioneth, 4/06. E.C.

*Eurhynchium cirrosus* Jur., Ben Lawers, 7/02. L.J.C. and 8/02. D.A.J.

*Eurhynchium crassinervium* B. & S., c.fr., roots of Beech Trees, Swarraton, N. Hants., 3/06. A.B.J.; also, c.fr., Fardington, Salop, 4/06. J.B.D.

*Eurhynchium speciosum* Schp., Staddlethorpe, S.E. Yorks. (61), 10/01. W.I.

*Eurhynchium Swartzii* var. *rigidum* Boul., on boulder in dean, Warkworth, Northumberland, 7/05, and Landslip, Isle of Wight, 8/89. H.N.D.

*Eurhynchium abbreviatum* Schp., c.fr., Colvey, near Ross, Herefordshire (36), 3/06. E.A.

*Eurhynchium pumilum* Schp., Killay, near Swansea, 9/05. H.B.

*Eurhynchium curvisetum* Husn., near Alfriston, E. Sussex, 1/05. W.E.N.

*Eurhynchium Teesdalei* Schp., Hampton Loade, Salop, 3/05. J.B.D.; also, Lydd Hole Waterfall, Salop, 8/06. W.P.H.

*Eurhynchium circinatum* B. & S., Killarney, 8/06. J.B.D.

*Eurhynchium striatulum* B. & S., Leigh Woods, Yorks. (64), leg. W. Wilson, ex-Herb. Brit. Museum, Nov., 1860. Comm. F.J.C. "Not this species, but a small form of *E. striatum*." W.I. "This is quite the correct plant, but is not locality mis-transcribed? It should be Leigh Woods, Bristol (cf. Bry. Brit. p. 352)." H.N.D.

*Eurhynchium murale* Milde, var. *julaceum* Schp., Stroud, Gloucester, 1903. G.H. "A more than usually julaceous state of this species, but not the var. *julaceum*, as I know it." W.I. "Scarcely the habit of the var., though a marked form." H.N.D.

*Eurhynchium megapolitanum* Milde, sandy ground near the sea, Southwick, W. Sussex (13), 2/07. W.E.N.

*Plagiothecium depressum* Dixon, Symond's Yat, W. Gloucester (34), 1/06. E.A.

*Plagiothecium elegans* Sull., c.fr., Llanbedr, Merioneth, 4/04. D.A.J.; var. *nanum* (Juratz.) Walth. & Mol., limestone cliffs by river, Bolton Woods, Mid-West Yorks. (64), 6/06. W.I.

*Plagiothecium striatellum* Ldb., Ben Lawers, 3000ft., 8/2. J.B.D.

*Plagiothecium denticulatum* B. & S., var. *majus* Boul., Ben Lawers, springs at 3000ft., 8/02. J.B.D.; var. *obtusifolium* H. & T., Craig Cailleach, Killin, Perthshire (88), 8/02. J.B.D. "I think this may pass as the var., but it is not a well-marked form." W.I. "I should hesitate to describe this as var. *obtusifolium*. The areolation is much firmer and narrower than in that var., and the leaves—frequently at any rate—decidedly acuminate. I have gathered a similar, but much more robust plant on Ben More, Perthshire, which I tentatively identify with *P. Ruthci* var. *supincola* Limpr. I should be inclined to distribute this as *P. denticulatum* var." H.N.D.; also, var. *obtusifolium* H. & T., Stob Garbh, Perthshire (88), 7/06. R.H.M. "Not the var. *obtusifolium* as I know it. It seems little removed from type." W.I. "I should call it a rather poorly characterized form of the var.; both in form of leaves and width of cells it is intermediate between type and var." H.N.D.

*Plagiobothrium demissum* Dixon, Cromagloum, Killarney, 8/06. J.B.D.

*Plagiobothrium Müllerianum* Schp., rock crevices, Ben Lawigh, Perth. (88), 7/98; and, Ben Douran, Argyllshire, 1500-2000 ft., straggling among other mosses, 7/98. H.N.D.; also, Vtob Garbh, Perth. (88). R.H.M.

*Amblystegium confervoides* B. & S., Via Gellia, and Shirley, 2/99, and Buxton, 4/01. all in Derbs. W.R.L.

*Amblystegium compactum* (C.M.) Aust., sandstone rocks, Bewdley, Wores., 5/06. J.B.D. "Yes, but surely sandstone rocks are an unusual habitat for this moss." W.I. "Correct. The sandstone has a good deal of calcareous matter, which undoubtedly permits the establishment there." H.N.D.

*Amblystegium irriguum* B. & S., Kendal, Westmorland, 6/86. C.H.W.

*Amblystegium filicinum* De Not., var. *Vallisclausæ* Dixon, calcareous springs, Wyre Forest, Wores., 3/04. J.B.D.; var. *Whiteheadii* Wheld., sandhills, Harlech, Merioneth, 4/06. D.A.J. "New to Wales." "I think this may pass for the var. *Whiteheadii*, though different in habit from other specimens I have seen." W.I. "Yes, I think admissible as var. *Whiteheadii*."

*Amblystegium Kochii* B. & S., ditches near Lewes, E. Sussex (14), 5/04. W.E.N.

*Hypnum polygamum* Schp., peat bog on Rainford Moss, S. Lancs. (59), 8/03. J.A.W. "An inundated form, which is less stout and tufted than the var. *stagnatum* Wils. of our sandhills. It is apparently a form between var. *stagnatum* Wils. and var. *submersum* Mainkem. A form still nearer the latter has been collected by Mr. Travis and myself in a fossil state in the Upper Shirdley drift sand near Walton, accompanied by *Hypnum scorpioides* and *Hypnum Sendtneri*, both of which grow at the present day on Rainford Moss with the plant now sent." J.A.W.; var. *stagnatum* Wils., c.fr., Rhos Goch Bog, Radnorshire (43), 7/06. E.A.; and Skipwith, S.E. Yorks. (61), 4/06. W.I.

*Hypnum stellatum* Schreb., var. *protensum* B. & S., Symond's Yat, W. Gloster (34), 1/06. E.A.

*Hypnum chrysohyllum* Brid., Great Doward, Herefordshire, 1/05, E.A.; also, Chalk Quarry, near Chelsheld, W. Kent, 12/05. L.J.C. "Erect dense habit"; var. *erectum* Bagn., among sand dunes Magilligan, Londonderry, 5/01. H.W.L.; also, Great Rocks Dale, Buxton, Derbs., 6/01. T.B.

*Hypnum lepidulum* var. *Sommerfeltii* Myr., Symond's Yat, W. Gloster (34), 3/06. E.A.; also, on wall near Terrington Carr, N.E. Yorks. (62), 6/98, and on wall, West Burton, Wensleydale, N.W. Yorks. (65), 5/05. W.I.

*Hypnum Halleri* L. fil., c.fr., Diablerets, Switz., 8/06.

*Hypnum aduncum* Hedw., f. *falcata* Ren., Coatham Marshes, N.E. Yorks. (62), 7/00. W.I.

*Hypnum aduncum* var. *polycarpon* Bland., Naburn, S.E. Yorks. (61), 3/02. W.I.

*Hypnum aduncum* (*pseudo-fluitans*), forma, Rainford Moss, S. Lancs., 7/03. H.B.

*Hypnum aduncum* var. *paternum* Sanio, f. *gracilis* Ren., Rainford Moss, S. Lancs., 7/03, leg. J.A.W., H.B. Comm. H.B. "I think this is an inundated state of var. *intermedium* Schp., but it is not characteristic of any of our named forms." J.A.W.

*Hypnum Sendtneri* Schp., f. *vulgaris* Sanio, Rainford Moss, S. Lancs., 7/03. H.B.; also, f. *trivialis* Sanio, Skipwith, S.E. Yorks. (61), 4/06. W.I. "Mr. Ingham's plant comes under *H. Wilsoni* rather than under *H. Sendtneri*. Mons. Renauld refers it to the var. *hamatum* Schp." "I have never seen an authentic example of *H. Sendtneri* var. *trivialis* Schp., but the description would incline one to believe that it is probably nearer to *H. Wilsoni* than to *H. Sendtneri*. Mons. Renauld does not regard Mr. Ingham's plant, nor any of the Southport forms which I have submitted to him, as representing Schimper's variety." J.A.W.

*Hypnum lycopodioides* Schwaegr., sandhills, near Formby, S. Lancs. (59), 7/03. J.A.W. "Two extreme forms."

*Hypnum uncinatum* Hedw., f. *plumosa* Ren., Brown Edge Lane, Buxton, Derbs., 5/04. T.B.; also, sandstone rock, Hardeastle, Halifax (63), 4/00. C.C.

*Hypnum fluitans* L., c.fr., Moneygreen Bog, Loughbrickland, Co. Down, leg. H.W.L., C.H.W., 6/03. Comm. C.H.W. "Is var. *gracile* Boul." J.A.W.; var. *Jeanbernati* Ren, Wimbledon Common, Surrey (17), 4/06. W.R.S.; var. *atlanticum* Ren, Skipwith Common, S.E. Yorks. (61), 10/01. W.I.; also, Booth Dean, near Halifax, Yorks. (63), 7/01. C.C.; also, c.fr., St. Ishmael's, Pembrokeshire (45), 12/06. A.E. "The last plant from St. Ishmael's, Pembrokeshire, bears a marked facies resembling a *Brachythecium*, and I thought it might have ranked as a distinct var. However, I think M. Renauld is right in regarding it as a marked form of var. *atlanticum*. M. Renauld writes—'This form with shortly acminate leaves has the facies of a *Brachythecium*, and it will be necessary to give it a name (f. *brachythecioides* Wheld.) The plant is, moreover, interesting, since it well represents the var. *atlanticum*, and it is impossible to confuse it with any other var., on account of its very lax areolation.' The plant will be described as forma *brachythecioides* Wheld. in the Transactions of the Liverpool Botanical Society, a description of it having been read before that Society." J.A.W.

*Hypnum fluitans* (*amplibium*) f. *elongata* Ren., Errington, nr. Halifax, Yorks. (63), 7/00. C.C. "Yes, in two packets, but the third is a line green form of *H. ochraceum*, more frequently mistaken for a *Harpidium* than any other moss." J.A.W.

*Hypnum fluitans* var. *gracile* Boul., c.fr., Rhos Goch Bog, Radnorshire (13), 7/06. E.A.; f. *longifolia*, teste Renauld, floating, Skipwith, Yorks. (61), 7/06. W.L.

*Hypnum fluitans* var. *Robertsiæ*, Ren. and Dix., Pool, Craiglyn Dyfi, Aran Mowddwy, Merioneth, leg. Mrs. Bradford and H.N.D., 7/01. Comm. H.N.D. "Specimens gathered since the description of the var. was in type, from the original station but at an earlier period of the year, showed little of the distinctive colouring described, which may therefore perhaps have to be considered a temporary variation only." H.N.D. "Mr. Dixon suggests that this is a temporary variety only owing to its inconstant colour. It seems to me, from the structure of the ordinary and alar cells, to be more at home in group *falcatum* than in gr. *amphibium*, and it is undoubtedly closely allied to var. *anglicum*. It keeps quite distinct, notwithstanding its variability in colour, from all our other forms. I should think it would range best under var. *anglicum* as forma *Robertsiæ* R. & D., separated from f. *Hollii* by its shorter, closer and more appressed leaves, and its brighter red or green colour." J.A.W.

*Hypnum fluitans* var. *falcatum* Schp., Clarendon Woods, Esher, Surrey (17), 4/06. W.R.S.; var. *ovale* Ren., Crimsworth Dean, near Halifax, Yorks. (63), 3/01. C.C. "Yes." J.A.W.; var. *Arnellii* Sanio, Skipwith Common, S.E. Yorks. (61), 7/01. W.L.

*Hypnum fluitans* (*exannulatum*) var. *pinnatum* Boul., Terrington Carr, N.E. Yorks. (62), 6/98. W.L.; also, Benson Knot, Kendal, Westmorland, 2/86, and Barbon Fell, Westmorland, 10/85. C.H.W. "Barbon Fell plant is approaching f. *polyclada* Ren." J.A.W.; also, three localities near Halifax, 10/01. C.C. "Three distinct gatherings. The Luddenden Dean plant is var. *falcifolium* Ren., as also is the one from Gorple Clough. The Saltonstall Moor packet contains both var. *pinnatum* Boul., and var. *falcifolium* Ren., in separate tufts." J.A.W. Forma *stenophylloides* Ren., Hawthornthwaite, Wyersdale, W. Lanes, 8/2. H.B.; var. *brachydactylon* Ren., Skipwith Common, S.E. Yorks. (61), 7/01. W.L.

*Hypnum revolvens* Swartz., forma *typica* Ren., Crymmych, Pembrokeshire, 7/06. A.B.

*Hypnum revolvens* var. *intermedium* (Lindb.) Ren., Wylunbury Bog, Cheshire, 8/02. D.A.J.; also? *Hyp. intermedium*, Grimscoate Fields, Warwick, 1/06. C.H.W. "Yes; sterile, as is so often the case." J.A.W.

*Hypnum scorpioides* L. var. *angustifolium* Sanio, Nahurn, S.E. Yorks. (61), 8/00. W.L. "Yes, I suppose so; a very widely spread British plant which would be best ranked as forma *angustifolia*, as its characters are very far from being stable and all grades of intermediates occur." J.A.W.; var. *julaceum* Sanio, Fermanagh, Co. Mayo, 29/7/05. H.W.L. "My knowledge of the forms placed under this variety is very limited, but I should not think these specimens come under it. Although here and there somewhat sub-julaceous, the leaves



are much less markedly so than in German and Scottish (Ben Lawers) examples which I have. These latter have very closely imbricate leaves, giving the stems a terete appearance very different from Mr. Lett's plants, and recalling, as it were, a slender form of *H. turgescens* with more acute and convolute apices to the stems." J.A.W.

*Hypnum sulcatum* Schp., Ben Lawers, 7/02. L.J.C.

*Hypnum cupressiforme* L., var. *elatum* B. & S., Arnside Knott, Silverdale, Westmorland, 5/05. H.B. "I should call this rather a form of the very variable var. *lectorum* Brid." W.I. "Perhaps a robust form of var. *lectorum* would describe it better. I have some robust plants of Mr. Wilson's gathering from the same neighbourhood, which I thought referable to var. *lacunosum* Brid., but they have a different, looser foliation, as a rule." H.N.D.

*Hypnum imponens* Hedw., Skipwith Common, S.E. Yorks. (61), 8/04. W.I.

*Hypnum hamulosum* Ldb., Meall nan Tarmachan, Killin, Perth. (88), 8/02. J.B.D.; also, c.fr., near Cortina, S. Tirol, 9/04. J.S.

*Hypnum circinale* Hook., c.fr., rocks, Cromaglou, Killarney, 8/06. J.B.D. and D.A.J.

*Hypnum molluscum* Hedw., var. *condensatum* Schp., stones in R. Rothay, Loughbrigg, Westmorland, 3/05. E.A.; also, dry shady banks in wood, Saintfield, Co. Down, 1/07. C.H.W. "This has not been verified, but I think it must be a small prostrate form of that var.; when growing in more open places in exposure, it sometimes is larger and takes a redder tinge." C.H.W. "Not this var., I think. It seems little removed from type." W.I. "This has some of the characters of var. *condensatum*; but that var. is at its best so very marked a one, that I think it is more satisfactory to class such a plant as this as an approach to the var., rather than to include it under the var. itself." H.N.D.; var. *condensatum*, Dove Dale, Staffs., 4/94. J.E.B. "Not the var. as we now understand it." W.I. "A dense form of *molluscum*, but not what I understand by the var. which has (among other points) striate leaves when dry." H.N.D.

*Hypnum palustre* L., forma, Nant-y-Ffrith, Denbigh (50), 1/06. D.A.J.

*Hypnum dilatatum* Sch., rocks in stream, Reiver's Glen, Argyllshire, 7/98. H.N.D.; also, Aber, Carnarvonshire, 8/05. D.A.J.

*Hypnum ochraceum* Turn, var. *flaccidum* Mille, Crimsworth Dean, Hebden Bridge, Yorks. (63), 6/01. C.C.

*Hypnum micans* Wils., Killarney, S.J.O., J.B.D.; and, 10/87. W.B.W.

*Hypnum stramineum* Dieks., Laxey, Isle of Man, 7/03. H.B.; also, Rombald's Moor, Yorkshire, leg. W. West, 6/79. Comm. C.C.

*Hypnum trifarium* W. & M., Ben Ladoigh, Perth. (88), W.B.W.

*Hypnum turgescens* Schp., near Ben Lawers, leg. C. P. Hurst, 11/06. Comm. H.N.D.

- Hylocomium pyrcaicum* Ldb., Airolo, Switz., 9/05. J.S.
- Hylocomium squarrosum* B. & S., c.fr., Staunton, W. Gloster (34), 2/03. E.A.
- Hylocomium triquetrum* B. & S., St. Anne's, W. Lanes., 3/01. H.B.  
"An interesting sea-side form."
- Riccia sorocarpa* Bisch., Rickeson, Pembroke (45), 6/06. A.B.; also, Heald Brow, W. Lanes. (60), 3/06. A.W.
- Riccia Lescuriana* Aust., Morfa Bychan, Portmadoc, Carnarvon (49), Jan./07, D.A.J. & S.J.O. "New County Record."
- Riccia crystallina* L., Morfa Bychan (49), Oct./06, D.A.J. "New County Record"; also, Skipwith Common S.E. Yorks. (61), Aug./06. W.I. "New County Record."
- Riccia fluitans* L., Goosnargh, Preston, W. Lanes. (61), 12/05. H.B.
- Reboulia hemisphaerica* (L.) Raddi, Bradwell and Creswell, Derbs. (57), 1/99. W.R.L.; also, Prenteg, Portmadoc (49), 1/07. S.J.O.
- Dumortiera irrigua* Wils., Tore Cascade, Killarney, 7/06. S.J.O.
- Preissia quadrata* (Scop.) Nees, with *Amblyodon dealbatus* P.B., Coat-ham Marshes, N.E. Yorks. (62), 2/03. W.I.
- Marchantia polymorpha* L., var. *aqualica* Nees, carr, near Netherton, S. Lanes. (59), 5/06. J.A.W.
- Aneura multifida* (L.) Dum., Macenclochog, Pembroke (45), 7/06. A.B.
- Aneura multifida* (L.) Dum., var. *ambrosioides* Nees? Floating in water, Eyam Moor, Derbyshire, Ap. 28, 1903. W.R.L. "This appears to be an aquatic form of *A. multifida*, stems biconvex or plano-convex, six cells thick in the middle." S.M.M.; also, Edale, Derbs., 3/98. W.R.L.
- Aneura palmata* (Hedw.) Dum., on rotten timber, Tore Mountain, Killarney, Aug./06. D.A.J. & S.J.O.
- Metzgeria conjugata* Lindb., O'Sullivan's Cascade, Killarney, Aug./06. S.J.O.
- Metzgeria hamata* Lindb., Tore Glen, Killarney, Aug./05. J.B.D.; also, Loch Eek, Argyllshire (98), Aug./06. L.J.C.
- Metzgeria pubescens* (Schrank) Raddi, Bolton Woods, Yorkshire (61), 6/06. W.I.; also, Ash Ghyll, Cumberland, 7/04. L.J.C.
- Pallavicinia Flotowiana* (Nees) Lindb., Mochras, Merioneth, Nov./06. S.J.O.
- Pellia endiviæfolia* (Dicks.) Dum., Dale, Pembrokeshire, Ap./06. A.B.
- Petalophyllum Ralfsii* (Wils.) Gottsche, Morfa Bychan, Portmadoc (49), 10/06. S.J.O. & D.A.J. Comm. D.A.J. "New County Record."
- Fossombronia angulosa* (Dicks.) Raddi, Prenteg, near Portmadoc (49), Ap./06. S.J.O. and c.fr., 1/07. D.A.J. "New County Record."

*Fossombronia pusilla* (L.) Dum., St. Bride's, Pembrokeshire, 11/06. A.B. ; also, Martinshaw Wood, Leics. (55), 9/05. A.R.H.

*Gymnomitrium obtusum* (Lindb.) Pears. rocks, Cynicht, Merioneth (48), Nov./06. S.J.O.

*Gymnomitrium crenulatum* Gottsche, Maenclochog, Pembrokeshire, 7/06. A.B. ; also, Cynicht (48), Nov./06. S.J.O.

*Gymnomitrium varians* (Lindb.) Schffn., c.fr., Ben Lawers, 5/6/01. S. M. Macvicar.

*Gymnomitrium alpinum* (Gottsche) Schffn., Ben Cruachan, Argyll, 13/6/03. S. M. Macvicar. "There are a few stems of *Marsupella Boeckii* in some of the packets. Though closely interlaced with the *G. alpinum*, the two species are very different in appearance." S.M.M.

*Marsupella condensata* (Ångstr.) Kaal., Ben Lawers, 3200 ft., 8/6/01. S.M.M.

*Marsupella Funckii* (Web. et Mohr) Dum., Nant Peris, Carnarvonshire, 8/06. S.J.O. ; also, Carrifkeeny, Co. Armagh, 9/04. H.W.L.

*Nardia compressa* (Hook.) Gray, Arncliffe Wood, N.E. Yorks. (62), 7/00. W.I.

*Nardia compressa* (Hook.) Gray, var. *rigida* Lindb., Nephin Mount, Co. Mayo. Coll. Lett and McArdle, 5/01. Comm. H.W.L.

*Nardia obovata* (Nees) Carr., stream Moelwyn Bach, Merioneth, 6/06. D.A.J. ; also, Eimon Valley, Cardigan, 7/05. W.H.P. "Latter is *Scapania gracilis* (Lindb.) Kaal." W.I.

*Aplozia sphaerocarpa* (Hook.) Dum., Maentwrog Valley, Merioneth, 6/05. D.A.J. ; also, c.fr., Wheeldale, N.E. Yorks. (62), 6/03. W.I. ; var. *lurida* Dum., c.fr., Marske Mill, Saltburn (62), 8/00. W.I. ; var. *Goulardi* (Husnot) Macv., on rock in wood, Falling Foss (62), 9/05. W.I.

*Aplozia cordifolia* (Hook.) Dum., Edale, Derbs., 4/02. W.R.L.

*Aplozia riparia* (Tayl.) Dum., c.fr., tufaceous rocks, Doward, Herefordshire, 5/99. E.A. ; also, Wyre Forest, Wore. (37), 3/06. J.B.D. ; also, Chapel-le-Frith, Derbs., 6/01. W.R.L. ; also, Edale and Buxton, Derbs., 4/02. W.R.L. "Two latter are *Aplozia crenulata*. Note the reddish colour, the border of leaves and especially the cells with thickened walls. Some of the leaves have the shape of those of *A. riparia*." W.I.

*Lophozia inflata* (Huds.) Howe, Crymmych, Pembrokeshire, 7/06. A.B.

*Lophozia turbinata* (Raddi) Steph., Knottingley, 9/00, and Burghwallis, 11/99., S.W. Yorks. (63), Jackdaw Crag Quarry, Tadcaster, Mid-W. Yorks. (64), 2/05. W.I.

*Lophozia badensis* (Gottsche) Schffn., Old Quarry, near Cramond, Edinburgh, leg. J. McAndrew, 12/1/07. Comm. S. M. Macvicar. " *L. turbinata* also occurs in this locality, but I have eliminated it as far as I could from the packets, and I have placed in each, in separate paper, a piece of *L. badensis* which has been under the microscope. Some specimens will be seen to more resemble *L. Mülleri* in appearance, while others are more like *L. turbinata*, but with a little care it is not difficult to note that they are quite distinct from either. As perianths are frequently present in this gathering, a distinction between the latter and *L. badensis* in the position of the bracts may be noted. In *L. badensis* these rather closely surround the perianth, while in *L. turbinata* they very loosely surround it. The perianth of *L. badensis* is also more cylindrical. The latter species, though widely distributed in Britain, is evidently much rarer with us than is *L. turbinata*. In addition to the localities given in *Journ. Bot.*, p. 64, 1907, I have seen it from Sussex, Dumfries and the outer Hebrides." S.M.M.

*Lophozia Mülleri* (Nees) Dum., var. *bantriensis* (Hook.), Ireby Fell, W. Lanes. (60), 8/06. A.W.

*Lophozia excisa* (Dicks.) Dum., St. Ishmael's, Pembrokeshire, 8/06. A.B.; also, Croesor, Merioneth, 1/07. S.J.O.; also, Shirley, Derbs., 5/02. W.R.L.; var. *arenaria* (Nees), Harlech, Merioneth, 1/06. D.A.J.; also, Morfa Bychan, Portmadoc, Carnarvonshire (49), 1/07. S.J.O. "New County Record."

*Lophozia incisa* (Schrad.) Dum., Moelwyn Bach, Merioneth, 1/06. S.J.O.; also, Chatsworth, Derbs., 7/99. W.R.L.

*Lophozia quinqueidentata* (Huds.) Cogn., Trecastle, Brecon (42), Oct./06. H.H.K.; also, Buckden, Mid-W. Yorks. (64), c.per., 7/04. W.I.; also, several localities in Derbyshire. W.R.L.

*Lophozia Floerkii* (Web. et Mohr) Schffn., Wheeldale, N.E. Yorks. (62), 4/04. W.I.; also, Bardou Hill, Leics. (55), 4/06. A.R.H.

*Lophozia gracilis* (Schleich.) Steph., Habborley Valley, Worcs., 5/06. J.B.D.

*Sphenolobus minutus* (Crantz) Steph., Cwm Idwal, Carnarvon (49), 7/06. S.J.O.

*Sphenolobus exsectiformis* (Breidl.) Steph., Whatstandwell, Froggatt and Little Eaton, Derbs., 4/09. W.R.L.

*Anastrepta orcadensis* (Hook.) Schffn., Killin, Mid Perth, 7/02. Ll.J.C.

*Plagiochila tridenticulata* Tayl., Tore Glen, Killarney, 8/05. J.B.D.

*Plagiochila spinulosa* (Dicks.) Dum., Eagle's Nest, Killarney, 8/05. J.B.D. "Is *P. punctata* Tayl." S.M.M.

*Plagiochila asplenoides* (L.) Dum., var. *major* Nees, Portmadoc, Carnarvon, (49), 1/07. D.A.J.; var. *Dillenii* (Tayl.) Symond's Yat, W. Gloucester, 4/06. F.A.; also, Bolton Woods, Yorks. (64), 8/00. W.I.

*Mylia Taylori* (Hook.) Gray, Rossinvermore, Co. Fermanagh, 8/05. H.W.L.

*Clasmatoclea cuneifolia* (Hook.) Spruce, Horse's Glen, Killarney, 8/06. D.A.J.

*Lophocolea bidentata* (L.) Dum., var. *reticularis* Raddi, Heysham Moss, W. Lancs. (60), 7/06. J.A.W.

*Lophocolea cuspidata* Limpr., Llandoverly, Carmarthen (44), 11/06. H.H.K.

*Lophocolea spicata* Tayl., St. Ishmael's, Pembroke, 10/06. A.B.

*Lophocolea heterophylla* (Schrad.) Dum., St. Ishmael's, Pembrokeshire (45), 1/06. A.B.; also, on decaying wood, Beeston Regis, E. Norfolk, 1/07. W.H.B.; also, Hartsborn, Derbs., 3/02. W.R.L.

*Chiloscyphus polyanthos* (L.) Corda, Buckden, Mid-West Yorks. (64), 8/04. W.I.; also, Rosstrevor, Co. Down, 5/05. H.W.L.

*Saccogyna viticulosa* (Sm.) Dum., St. Ishmael's, Pembroke (45), 12/06. A.B.

*Cephalozia hibernica* Spruce, Cromagloum, Killarney, 8/06. D.A.J.

*Cephalozia lunulæfolia* Dum., Wheeldale, N.E. Yorks. (62), 4/03. W.I.

*Cephalozia reclusa* (Tayl.) Dum., O'Sullivan's Cascade, Killarney, 8/06. S.J.O.

*Cephalozia curvifolia* (Dicks.) Dum., Eagle's Nest, Killarney, 8/05. J.R.D.; also, near Peebles (78), 3/05. J.H.

*Hygrobrella laxifolia* (Hook.) Spruce, c. per., Cwm Idwal, Carnarvon, 7/06. S.J.O.; also, Ben Lawers, 2700 ft., 17/6/01. S.M. Macvicar.

*Cephaloziella bifida* (Schreb.) Schffn., moist sandy bank, nr. Withyham, E. Sussex, 9/06. W.F.N.

*Cephaloziella stellulifera* (Tayl.) Schffn., Chalk Downs, near Lewes, E. Sussex, 3/06. W.F.N.

*Cephaloziella Limprichtii* Warust., Folly Wood, Hamsey, E. Sussex, 3/05. W.F.N.

*Cephaloziella araria* (Pears.) Macv., near Copper Mine, Llanfrothen, Merioneth, 1/06. S.J.O.

*Odontoschisma denudatum* (Nees) Dum., Arthog Bog, Merioneth, 9/06. S.J.O.

*Odontoschisma Sphagni* (Dicks.) Dum., Pont Aber, Carmarthen (44), 9/06. H.H.K.; also, Stremsall Common, N.E. Yorks., "in large pure tufts," 4/05. W.I.

*Adelanthus decipiens* (Hook.) Mitt., Nephin Mt., Co. Mayo, 5/01, and Galtee Mts., Tipperary, 7/02. H.W.L.

*Kantia Trichomanis* (L.) Gray, var. *Neesiana* Mass. et Carest., Bolton Woods, Mid-West Yorks. (61), 7/06. W.L. "The packet examined seems rather too near the type to be this variety. I have, however, seen a specimen from Mr. Ingham gathered a few years ago in the same locality, which agrees very well with an authentic specimen of var. *Neesiana*. In this variety the underleaves are large circular or with a slight emargination; but as in the other species of the genus, there is a good deal of variation in their shape." S.M.M. : var. *aquatica* Ingham, moor above Deepdale Beck (64), 8/04. W.L.

*Kantia arguta* (Nees et Mont.) Lindb., St. Ishmael's, Pembroke. 2/06. A.B.

*Bazzania trilobata* (L.) Gray, Rossinvermore, Co. Fermanagh, 8/05. H.W.L.; also, Dartmoor, S. Devon, 8/05. Ll.J.C.; also, Rathmullen, Co. Donegal, 9/03. J.H.

*Bazzania triceruata* (Wahl.) Trevis., Cromagloun, Co. Kerry, 8/06. S.J.O.; also, Scour na Lappaich, Rossshire (106), 7/01. Ll.J.C.; var. *triangularis* (Schleich). Tyn-y-Groes, Merioneth, 12/05. S.J.O.

*Lepidozia pinnata* (Hook.) Dum., Killarney, 8/05. J.B.D. & S.J.O. : 10/85. W.B.W.

*Lepidozia Pearsoni* Spruce, near Dunoon, Argyllshire, 8/06. Ll.J.C.

*Lepidozia trichoclados* C. Müll. Fri., c. per., Moidart, West Inverness, 14/11/02. S.M.M.

*Blepharostoma trichophyllum* (L.) Dum., Gorge of the Greeta, above Wrayton, W. Lanes. (60), 7/01. A.W.

*Herbertia adunca* (Dicks.) Gray, Ben Lawers, 7/06. J.H.

*Trichocolea tomentella* (Flurb.) Dum., Glenstall, Co. Limerick, 7/01. E.A.

*Diplophyllum ovatum* (Dicks.) Waddell, Croesor, Merioneth, 12/05. S.J.O.

*Scapania aspera* Bernet, Outershaw, Upper Wharfedale, Mid-West Yorks. (64), 7/01. W.L.

*Scapania gracilis* (Lindb.) Kaal., var. *laxifolia* Carr., Mangerton, Co. Kerry, 8/06. S.J.O.

*Scapania nemorosa* (L.) Dum., var. *uliginosa* Jensen, bog, near Crowborough, E. Sussex (14), Oct. 14/06. W.E.N.

*Scapania ornithopodioides* (With.) Pears., Slievemore, Achill, Co. Mayo, 6/03. H.W.L.; and Brandon Mt., Co. Kerry, 6/00. H.W.L. and McArdle.

*Scapania purpurascens* (Hook.) Tayl., Llyfnant Valley, Cardigan, 7/05. W.H.P.; also, Cynicht, Merioneth, 12/05. S.J.O.; also, Flouteru Tarn, Cumberland, 8/06. W.B.W.; also, several localities in Derbyshire, W.R.L.; var. *speciosa* Nees, Llyfnant Valley, Cardigan, 6/01. W.H.P.

*Scapania irrigua* (Nees) Dum., Croesor, Merioneth, 1/07. S.J.O.; also, Brown Edge, Buxton, Hulland Moss and Shirley, Derbs., 6/02. W.R.L.

*Scapania umbrosa* (Schrad.) Dum., Rosadrectid, Galtee Mts., Co. Tipperary, 7/02. H.W.L.

*Radula voluta* Tayl., Tore River, Killarney, 8/06. S.J.O. & D.A.J.

*Radula Holtii* Spruce, c.per., Tore Cascade, Killarney, 8/06. D.A.J.

*Radula aquilegia* Tayl., Tore Mountain, Killarney, 8/06. S.J.O.; also, Slievemore, Achill, Co. Mayo, 8/04. H.W.L.; also, Ballyliffin, Co. Donegal, 10/06. J.H.

*Radula Carringtoni* Jack, Eagle's Nest, Killarney, 8/06. D.A.J. and S.J.O.

*Radula complanata* (L.) Dum., St. Ishmael's, Pembroke, 10/06. A.B.; also, Scraptoft, Leicestershire, 1/06. A.R.H.

*Pleurozia purpurea* (Lightf.) Lindb., Killarney, 8/05. J.B.D.

*Madotheca laevigata* (Schrad.) Dum., Sawdde Fechan, 8/06, and Gwydderig, Carmarthen, 5/06. H.H.K.; var. *killarneyensis* Pears. MS., Tore Cascade, Killarney, 8/06. D.A.J.; S.J.O.; J.B.D.

*Madotheca Thuja* (Dicks.) Dum., Lough Garragarry, Co. Kerry, 8/06. S.J.O.; J.B.D.; also, Lizard, W. Cornwall, 12/84. W.B.W.; also, Shaugh Mill, S. Devon, 8/05. L.J.C.

*Madotheca platyphylla* Dum., Marloes, Pembroke, 10/06. A.B.; also Prenteg, Portmadoc, Carnarvon, 1/07. S.J.O.; also, Shaugh Mill, S. Devon, 8/05. L.J.C.

*Madotheca nivularis* Nees, c.fr., Duchanty, Perthshire (88), 10/06. R.H.M.; also, Semi Bridge, Brecon, 11/06; and Llynysfach, Carmarthen, 6/06. H.H.K.

*Madotheca Porella* (Dicks.) Nees, Lough Garragarry, Co. Kerry, 8/06. D.A.J.; S.J.O.; J.B.D.

*Cololejeunea calcarea* (Lih.) Schiffn., limestone rocks, Middle Ease Gill, nr. Leek, W. Lancs., 5/05. A.W.; also, Cross Fell, Cumberland, 7/01. L.J.C.

*Cololejeunea Rossettiana* (Massal.) Schiffn., Muckross, Co. Kerry, Epiphytic on Porotrichum, 8/06. D.A.J.; S.J.O.

*Lejeunea flava* (Swartz) Nees, Old Weir Bridge, Killarney, 8/06. D.A.J.; S.J.O.

*Lejeunea cavifolia* (Ehrh.) Lindb., Rosstrevor, Co. Down, 6/05. H.W.L.; var. *heterophylla* Carr., St. Ishmael's, Pembroke, 10/06. A.B.; also, Eagle Mt., near Ventry, Co. Kerry, 6/98. Lett and McArdle, and Lough Bolagh, Comeragh Mts., Co. Waterford, 7/02. Lett & Waddell. Conn. H.W.L.

*Lejeunea patens* Lindb., Pontoon, Co. Mayo, 6/03, and Galtee Mts., Co. Tipperary, 7/02. H.W.L.

*Lejeunea diversiloba* Spruce, Fore Cascade, Killarney, 8/06. D.A.J.

*Drepanolejeunea hamatifolia* (Hook.) Schiffn. Slieve League, Achill, Co. Mayo, 9/01. H.W.L. "Mixed with *Harpalejeunea ovata*." S.M.M. Not distributed.

*Harpalejeunea ovata* (Hook.) Schiffn., Cromagloon, Co. Kerry, 8/06. S.J.O.

*Marchesia Mackaii* (Hook.) Gray, Symond's Yat, W. Gloster, 3/06. E.A.

*Zulula Hutchinsiae* (Hook.) Dum., Fore Glen, Co. Kerry, 8/05. J.B.D. and 10/85, W.B.W.; also, Sawdde Feehan, Carmarthen, 10/06. H.H.K.; also, Hebden Bridge, S.W. Yorks., 6/01. W.L.; also, same district, 4/04. Coll. J. Needham. Comm. C.C.

*Frullania Tamarisci* (L.) Dum., var. *cornubica* Carr, near Brickleen Bridge, Killarney, 8/06. D.A.J.

*Frullania microphylla* (Gottsche) Pears., St. Ishmael's, Pembroke, 4/06 and 12/06. A.B.; accompanied by *fragilifolia*, on rocks, Maentwrog Valley, Merioneth, 6/06. W.H.B.

*Frullania fragilifolia* Tayl., Llanfrothen, Merioneth, 9/06. S.J.O.

*Anthoceros lavis* L., clover fields, near Over Kellat, W. Lancs., 10/06. A.W. and J.A.W. Comm. J.A.W. "New County Record"; also, Llandovery, Carmarthen, 10/06. H.H.K.; also, Harlech, Merioneth, 6/06. W.H.B.; also, St. Bride's, Pembroke, 6/06. A.B.

Note by Mr. J. A. Wheldon:—

*Chiloscyphus pallescens* (Schrad.) Nees, near Pilling, W. Lancs. (60), 1898. J.A.W. (teste M. B. Slater).

Mr. Macvicar agrees now that this is correctly referred to *C. pallescens*. In the Report for 1900 it was not passed. There must be a dozen packets of it somewhere which will require the label altering again.

New to v.c. 60, as I erased it before.



## NOTE BY MR. INGHAM.

In view of the discovery of *Lophozia badensis* in various places in England and Scotland, the following original descriptions of *L. badensis* and *L. turbinata* from "Musci Asiæ borealis" by S. O. Lindberg and H. W. Arnell, 10th Oct., 1888, will be of interest.

*Lophozia badensis* (Gottsche) Schfn. (*J. acuta* a Lindenb.; *J. luridula* Wils.) *Dioica*, rigidiuscula, non applanata; *caulis* vix fragilis, postice sapissime violaceo-fuscidulus et dense fuscidulo-radicellifer, extus a cellulis angustis, rectangularibus et lineolato-verrucosis, transverse elliptico-oblongus, antice distincte deplanatulus, in diametro a cellulis 8 vel 9, periphericis minoribus; *folia* dense succuba, rigidiuscula, ad anticum porrecta, eisdem *J. Mulleri* similia, obliqua affixa, basi lata et antice bene decurrentia, quadrato-rotunda, ad  $\frac{1}{12}$  —  $\frac{1}{10}$  latissime lunulato-emarginata —  $\frac{1}{3}$  obtusiuscule incisa, incisura gibba, segmentis late triangularibus, acutiusculis—obtusiusculis, saepe recurvatulis, *cellulae*  $\frac{1}{10}$  —  $\frac{1}{8}$  mm., angulis incrassatis; *foliola* et *bracteolae* nulla vel pauca hic illic praesentia; *involuerum* rigidiuscule textum, obconico-cylindricum, ex apice rotundato-obtuso longiuscule rostellatum, ore longius et acutius ciliato. Terras septentrionales praefert. Viva, et planta e Kopparsvik, interdum moschum graviter olet. *Hab.* Finnmarken, among *B. curvirostre* Dovrefjeld, (Jerkin); Foldalen, on mica-schist rock; *Sweden* on calcareous rocks; *Finland* on ditto.

*Lophozia turbinata* (Raddi) Steph. (*J. affinis* Wils.; *J. coreyana* Nees; *J. Wilsoni* Nees; *J. algeriensis* n. sp. ? (Gottsche)) *Dioica*, succosa et laxa, magis minusve applanata; *caulis* fragilis, concolor, postice remote subhyalino-radicellifer, extus a cellulis magnis, quadratis et levibus, transverse ellipticus, antice non deplanatus, in diametro a cellulis 6, periphericis non minoribus; *folia* remota, ut non succuba, laxa, subplane disticha, eisdem *J. inflatae* similia, vix oblique ut fere verticaliter affixa, basi angustiora et antice non decurrentia, ovalia, ad  $\frac{1}{3}$  —  $\frac{1}{2}$  acute incisa, incisura non gibba, segmentis anguste triangularibus, vulgo obtusis, incurvatulis, *cellulae*  $\frac{1}{10}$  —  $\frac{1}{8}$  mm. angulis non incrassatis; *foliola* et *bracteolae* semper nulla; *involuerum* laxo textum, pyriformi-obconicum, ex apice rotundato-obtuso ciliato. Terras meridionales et occidentales praefert, nondum intra fines florae scandinavicae reperta, ubi tamen antecedens nullo modo rara esse videtur, ut loca supra relata demonstrant.

# MOSS EXCHANGE CLUB.

## SECTION II.

The total number of Members is now 29, one only having been admitted during the year.

It is gratifying to find that the number of contributors to the distribution has increased, as compared with last year, and that the quality of their contributions has also shown a considerable improvement.

More attention has been paid to the *Hepatic*s during the year.

21 Members contributed 2,644 specimens, and Mr. H. N. Dixon generously contributed 145 more.

The Senior Club is grateful to Sect. II. for their offer to contribute towards the expense of publishing the Moss Census Catalogue, and to Mr. Marshall for his generous donation of £1 towards the same object.

### BALANCE SHEET FOR 1906.

	£	s.	d.		£	s.	d.
By Balance	...	...	4 13 1	To Secretary's Expenses...	0	15	2
.. 31 Subscriptions	...	...	7 15 0	.. Distributer's	1	4	5
.. Sale of Catalogues	...	...	1 6 6	.. Treasurer's	0	4	3
				.. Printing Circulars	0	3	0
				.. .. Hepatic Catalogues			
				— Coultas & Volans	4	3	7
				.. .. Report, 1906			
				— Coultas & Volans	4	15	0
				.. Balance	...	...	2 8 2
			<u>£13 14 7</u>				<u>£13 14 7</u>

There are several subscriptions for 1906 outstanding, which I shall be glad to receive. In order to save members the trouble of looking up their receipts, I propose to notify all Members in arrears immediately after the publication of the Report.

J. A. WHELDON, *Hon. Treasurer.*