

Moss Exchange Club,

SECTION II.

REPORT

FOR THE YEAR 1916.

DISTRIBUTER :

Mr. G. B. SAVERY. Silverton, Exeter.

SECRETARY :

Mr. D. A. JONES, F.L.S., Rock House, Harlech,
N. Wales.

TREASURER :

Mr. J. B. DUNCAN, Bewdley, Worcestershire.

BEWDLEY :

W. E. TOLLEY, PRINTER, 29, LOAD STREET.

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REFEREES:

Sphagnum Mr. W. R. SHERRIN.

Harpidium Mr. J. A. WHELDON, F.L.S.,
60 Hornby Road, Walton, Liverpool.

Pleurocarpi (except Harpidium) Mr. G. B. SAVERY.

Hepatics, and remaining genera of Mosses Mr. D. A. JONES.

LIST OF MEMBERS, 1916.

	Mosses	Hepatics	Total.
Mr. W. Bellerby, 8 Burton Lane, York	70	13	83
Mr. Bendorf, 4 Sedgely Avenue, Prestwich, Manchester ...	—	—	—
Rev. H. Boyden, B.A., 46 St. Leonard's Road, Exeter ...	—	—	—
Mr. H. C. Broome, Netherthorpe, Failsworth, nr. Manchester	—	61	61
Mr. R. H. Corstorphine, B.Sc., Hillside House, Arbroath, N.B.	—	—	—
Mrs. M. Corstorphine, Hillside House, Arbroath, N.B. ...	28	22	50
Mr. J. B. Duncan, Bewdley, Worcestershire	—	—	—
Miss E. J. Fry, University College, Aberystwyth	—	—	—
Mr. J. Glover, Sea View, Kirkcubbin, Co. Down	—	—	—
Mr. G. H. Goode, 86 Adams Avenue, Northampton	—	—	—
Mr. G. T. Harris, Kelso, Knowle Park, Sidmouth	—	—	—
Mr. J. W. Hartley, Mill Head House, Carnforth	—	—	—
Rev. H. H. Harvey, Clawton, Holsworthy, Devon	19	—	19
Mr. A. R. Horwood, The Museum, Leicester	—	—	—
Miss E. M. Hough, Codsall Wood, near Wolverhampton ...	—	—	—
Mr. J. D. Houston, 82 Hill Street, Lurgan, Co. Armagh ...	88	41	129
Rev. R. Jackett, F.L.S., St. Ishmael's Vicarage, Milford Haven	110	—	110
Mr. D. A. Jones, F.L.S., Rock House, Harlech, N. Wales ...	164	103	267
Mr. J. Mennell, 27 Neville Street, York	37	2	39
Mr. G. W. Moses, 19 Victoria Street, Bishop Auckland ...	—	—	—
Mr. W. H. Pearsall, Dalton-in-Furness, Lancs.	—	—	—
Mr. P. G. M. Rhodes, M.A., 33 Duchess Rd., Edgbaston, Birmingham	88	17	105
Mr. F. Rilstone, Schoolhouse, Polperro, S.O., Cornwall ...	30	31	61
Mr. G. B. Savery, Silvertown, Exeter	67	—	67
Mr. W. R. Sherrin, 57 Glenwood Avenue, Westcliffe-on-Sea	—	—	—
Mr. R. W. Smitham, Fowey, Cornwall	23	34	57
Mr. H. Stansfield, 20 Park Grove, York	67	—	67
Mr. T. A. Stevenson, Epworth, North Road, Aberystwyth	—	—	—
Mr. W. N. Tetley, Portora, Enniskillen	43	35	78
Mr. W. G. Town, 47 Morse Street, Burnley, Lancs.	—	—	—
Mr. W. G. Travis, 9 Barton Road, Liverpool	16	32	48
Rev. J. H. Ward, 16 Hartley Road, Exmouth	—	—	—
Prof. Lloyd Williams, University College, Aberystwyth ...	—	—	—
Mr. J. C. Wilson, F.L.S., 1500 Ashton Old Road, Manchester	29	16	45
	879	407	1286

REPORT OF SECRETARY (1916).

The total number of members on roll is 34. Miss Cooke has resigned owing to ill-health and two new members have been admitted—Messrs. G. H. Goode and W. G. Town.

I am pleased to be able to report very favourably upon the increased activity of members during the year, especially in hepatics. A large number of plants have been sent for refereeing and the progress in the group is encouraging. I would strongly recommend those members who have hitherto not attempted the study of these interesting plants, to take it up. With the aid of the Handbook and a little assistance from the Club, their success would be assured.

The quality of the Specimens both in hepatics and mosses sent for distribution shows a decided improvement on anything I have seen before in the Club. The material is generally ample, well-prepared and neatly packeted, and considering the number contributed, the errors in naming are few.

The expenses for postage and cost of printing the report have now reached a higher figure owing to war conditions, and it is very desirable that all subscriptions should be prepaid to the Treasurer early in January of each year. This would obviate the necessity of increasing the Annual Subscription to meet a deficit which would otherwise occur.

We have to thank Mr. Savery again this year for the excellent services he has rendered to the Club as distributor, and also for refereeing a section of the mosses and drawing up the report. I am very pleased to announce that he has kindly promised to continue to fulfil those duties during the current year.

D. A. JONES,

Harlech,

Hon. Secretary.

February 14th, 1917.

REPORT OF DISTRIBUTER (1916).

This year there was a considerable falling off in the number of packets sent in, but no doubt the war was responsible for this. Hepatics were better represented than usual. Members are evidently taking an increased interest in this section and are getting to understand it better. The Sphagna, too, were more numerous than in former years. The new book on them that Mr. Wheldon is publishing ought to encourage further study of these difficult plants. Several mosses and hepatics were new vice-county records according to the census catalogues, but they may have been found since these were published. Thirty-three parcels containing about 1400 packets were sent out to the members.

The thanks of the members are due to Mr. W. E. Nicholson who again sent an interesting collection for distribution, including a number of rare species, and to Mr. J. A. Wheldon for refereeing the Sphagna and Harpidia, some of which belonged to rather critical varieties. Mr. Jones has examined all the hepatics and written a full report of them in addition to verifying the more difficult mosses. As he has also contributed an unusual number of specimens, it will be understood how much the Club is indebted to him.

G. B. SAVERY,

Distributor.

March, 1917.

STATEMENT OF ACCOUNT FOR THE YEAR 1916.

Receipts.				Expenses.				
Balance from last year's Account	..	£	s.	d.		£	s.	d.
		2	14	2	Printing of Report (1915)	2	0	2
22 Subscriptions (1916)	..				Secretary's Expenses			
	..	2	15	0	Distributer's	17	10	
Arrears paid	..				Treasurer's	18	0	
	..	5	0		Balance in hand from which cost of Print-	2	3	
					ing 1916 Report should be met	1	15	11
						<u>1</u>	<u>15</u>	<u>11</u>
						<u>£5</u>	<u>14</u>	<u>2</u>
						<u>£5</u>	<u>14</u>	<u>2</u>

March, 1917.

J. B. DUNCAN,
Hon. Treasurer.

MOSSES.

Sphagnum medium Limpr., bog, Derryinver (I. 37), June 1916, J.D.H. "Yes, var. *obscurum* Warnst." J.A.W.

Sphagnum subsecundum Nees var. *contortum* Schp., Camlough Mtn. (I. 37), July 1916, J.D.H. "Yes, correct I suppose. But under Warnstorff's system it would be *S. rufescens* var. *magnificum* f. *rufidulum* subf. *densiramosum* Warnst." J.A.W.

Sphagnum crassycladum W. var. *loncocladum* W. = *S. batumense* W., bog, Goathland (800 ft.) (62), May 1916, W.B.. "Yes, although some of it is weaker than plants I so named originally for Mr. Ingham. It is however, I believe, all the same." J.A.W.; moorland stream, Goathland (62), Sept. 1916, P.G.M.R. "Yes," J.A.W.

Sphagnum acutifolium Ehrh. var. *subnitens* Dixon, Ardmore (I. 37), Sept. 1916, J.D.H. "Yes. The Warnstorffian combination would be *S. plumulosum* var. *versicolor* Warnst. f. *ascendens* (Braithw.) W. I do not know whether the gathering is homogeneous (i.e. from one tuft) but the specimens do not all show equally well the characters of colour and branch direction." J.A.W.

Sphagnum fimbriatum Wils., Derryinver (I. 37), Sept. 1916, J.D.H. "This is *S. fimbriatum* var. *tenuis* Grad." J.A.W.

Sphagnum cuspidatum Ehrh., peaty ditch, Long Moor, Sutton Park (38), Oct. 1916, P.G.M.R.; var. *submersum*, submerged peat bog, Robin Hood's Bay (62), June 1916, W.B. "Beautifully prepared specimens! I find it often difficult to discriminate between varieties *submersum* and *plumosum*, but I should think the branches all spreading and the awnlike leaf point would bring these under var. *plumosum*." J.A.W.

Sphagnum fallax Klingfr. var. *laxifolium* W., Long Moor, Sutton Park (38*), Oct. 1916, P.G.M.R. "Yes," J.A.W.

Polytrichum strictum Banks., Irton Fell (70), Aug. 1916, W.N.T.

Polytrichum gracile Dicks., Skipwith Common (61), Aug. 1916, H.S. "The basal cells of the leaves are long and the capsule has acute angles. It should go under *P. formosum*." D.A.J.

Campylopus flexuosus Brid., Muckish (I. 35), May 1916, W.N.T. "This resembles *C. pyriformis* in habit. The auricles of the leaves are ill-defined as in that species, but the nerve as pointed out by Mr. Tetley, is broader and the point of the leaf less denticulate. I think that it is an intermediate form with a nearer approach to *C. flexuosus*. Probably it grew under more xerophytic conditions than is usual with typical *C. flexuosus*." D.A.J.

Campylopus atrovirens De Not., Camlough Mtn. (I. 37*), July 1916, J.D.H.

Campylopus Shawii Wils., Adrigole, Co. Cork, D.A.J.

Dicranum elongatum Schleich., Pointe Tounot, Val d'Annivier, Valais, June 1914, P.G.M.R.

Dicranum asperulum Mitt., near Bachnagairn, Clova (90), Oct. 1916, M.C.

Grimmia trichophylla Grev., old wall, Tullaghan (I. 29), April 1915, W.N.T.

Grimmia subsquarrosa Wils., Prenteg, Portmadoc, (49), Dec. 1914, D.A.J.

Grimmia patens B. & S., Moelwyn Bach (48), June 1916, D.A.J.

Grimmia Doniana Sm., rocks, Austwick (64), Sept. 1916, W.B. and J.M.

Racomitrium protensum Braun., Camlough Mtn. (I. 37), July 1916, J.D.H.

Hedwigia ciliata Ehrh. var. *striata* Wils., Uwchartro, Harlech (48), Jan. 1915, D.A.J.

Tortula mutica Lindb., walls, near Glaslyn R., Portmadoc (49*), May 1916, D.A.J.

Weisia microstoma C.M. var. *elata* B. & S., near Perranporth, Cornwall, July 1916, H.H.H. "The tufts are dense and the capsules small, scarcely appearing above the innovations. In some instances the variety passes into the type, where the capsule is larger and well above the stems of the laxer part of the tufts." D.A.J.

Trichostomum tenuirostre Lindb., Rhaiadr (42), July 1914, R.J.; old quarry, Moelwyn Bach (48), Nov. 1915, D.A.J.

Trichostomum nitidum Schp., roof, near Polperro (2), Jan. 1917, F.R.

Oedipodium Griffithianum Schwaeg., Scafell (70), Sept. 1916, W.N.T.

Splachnum ampullaceum L., Camlough Mtn. (I. 37*), July 1916, J.D.H.

Funaria Templetoni Sm., Blackhead (I. 39), March 1916, J.D.H.

Aulacomnium androgynum Schwaeg., How Sham (62), May 1915, H.S.; Tents Mtn. (I. 30), June 1916, W.N.T.

Webera annotina Schwaeg., old quarry, near Lurgan (I. 37), May 1916, J.D.H.; var. *erecta* Correns, banks of Glaslyn R. near Minffordd (48), June 1916, D.A.J. New to Wales.

Webera proligera Bryhn., mud by stream, Crowan (1), Jan. 1916, R.W.S.

Webera Ludwigii Schp., Scafell (70), Sept. 1916, W.N.T.

Bryum calophyllum R. Br., banks of Glaslyn R., near Minffordd (48), Oct. 1916, D.A.J.

Bryum pallens Sw. var. *speciosum* Schp., Goathland (62), May 1916, W.B. "This plant with its decurrent leaves is a large form of *B. pallens*. It bears some resemblance to the var. *speciosum* in the size, form and colour of its upper leaves with their excurrent nerve sometimes in a recurved mucro. The lower and more mature leaves, however, resemble the type in size and in having a border well defined and reaching the apex. It is one of the numerous and interesting forms of this variable species." D.A.J.; *B. pallens* banks of Glaslyn R. near Minffordd (48), June 1916, D.A.J. "This remarkable form has broad leaves resembling *B. neodamense* or *B. calophyllum*. Only male plants have hitherto been found. Mr. Wheldon thinks that it deserves a varietal name and Mr Dixon agrees." D.A.J.

Bryum Duvalii Voit., near Loch Laggan (96), July 1916, Mrs. Hanbury, com. M.C.

Bryum erythrocarpum Schwaeg. c.fr., Cwm Bychan (48), June 1916, J.C.W.

Pseudoleskea catenulata B. & S., Caenlochan (90), June 1916, M.C. "This is *Pterygynandrum filiforme*, the leaves being serrate and very densely papillose and the cells elongated." G.B.S.

Thuidium decipiens De Not., bog near Little Kiltrannoch, Clova (90), Aug. 1916, M.C.

Climacium dendroides Web. & Mohr., Llandyssul (46*), August 1916, R.J.

Brachythecium salebrosum B. & S., var. *palustre* Schp., pool in sandhills, Streedagh (I. 28), April 1913, W.N.T. "Is *H. aduncum* v. *paternum* San." J.A.W.

Eurhynchium crassinervium B. & S., Monk's Cove (45), January 1915, R.J.

Eurhynchium strigosum B. & S., var. *diversifolium* Lindb., St. Luc, Val d'Annivier, Valais, June 1914, P.G.M.R.

Plagiothecium elegans Sull. c.fr., Nantcol Ravine, Llanbedr (48), Jan. 1917, D.A.J.

Amblystegium filicinum var. *Vallisclausae* Dixon, waterfall, Grassington (64), Sept. 1916, W.B. and J.M.

Hypnum aduncum Hedw. var. *intermedium* Schp., Lagan Canal, Kilmore (I. 38), June 1916, J.D.H. "Yes, characteristic." J.A.W.; var. *intermedium*, marsh, Warthill (62), W.B. "A somewhat intermediate form which I should prefer to place under var. *paternum* f. *gracilis* Ren. on account of the habit and leaf-shape; although not all the basal cells conform to those of the group *pseudo-fluitans*, many do so." J.A.W.; var. *paternum* f. *gracilis* Ren., Warthill (62), Oct. 1916, H.S. "Areolation and nerve too short for gr. *pseudo-fluitans*. It is fairly characteristic var. *polycarpon* Bland." J.A.W.; var. *paternum* f. *gracilis* Ren., pond near Selby (61), April 1915, J.M. "Is *H. aduncum* var. *aquaticum* Sanio." J.A.W.

Hypnum Sendtneri Schp., Kinnego, Lurgan (I. 37), September 1916, J.D.H.

Hypnum fluitans L., Builth (42), 1915, R.J. "Yes, belonging to gr. *falcatum* and nearest var. *ovale* Ren." J.A.W.; Sail (70), Aug. 1915, W.N.T.. "Var. *gracile* Boul., approaching f. *laxifolia* Ren." J.A.W.; var. *gracile* Boul., pool in boggy ground, Zelah (1), Dec. 1916, F.R. "Yes." J.A.W.; Pasty Pool, Zelah (1), August 1914, F.R. "Var. *Jeanbernati* Ren. f. *tenella* Ren." J.A.W.

Hypnum exannulatum Gūmb. var. *brachydietyon* Ren., Raughlan (I. 27), Aug. 1916, J.D.H.. "Yes, very characteristic." J.A.W.

Hypnum revolvens Swartz., Upper Rheidol (46), July 1907, R.J. "Yes, var. *fuscum* Sanio." J.A.W.

Hypnum intermedium Lindb., Builth (42*), Aug. 1914, R.J.

Hypnum cupressiforme L. var. *tectorum* Brid., Monk's Cove (45), Nov. 1915, R.J. "I should say this plant is correctly named. It is not so tumid as the var. *elatum* and the leaves are more falcato-secund. It is the common form of our sandhills." D.A.J.

Hypnum revolutum Lindb., summit of Tounot, Val d'Annivier, Valais, June 1914, P.G.M.R.

Hypnum callichroum Brid., Cwm Bychan, Harlech (48), March 1915, D.A.J.

Hypnum stramineum Dicks., Derryinver (I. 37), August 1916, J.D.H.

HEPATIC.

Riccia Crozalsii Levier, rocks, Harlech (48), Jan. 1917, D.A.J.

Riccia Lescuriana Aust., wet rock, above Singrig, Talsarnau (48), Jan. 1917, D.A.J.

Ricciella fluitans L., Kinnego, Armagh (I. 37), Sept. 1915, also Derryinver (I. 37), Sept. 1916, J.D.H.

Targionia hypophylla L., rocks, Harlech (48), Jan. 1917, D.A.J.

Conocephalum conicum (L.) Dum., Fowey (2), Dec. 1916, R.W.S.

Dumortiera hirsuta (Sw.) Reinw. Bl. et Nees, Torc Waterfall, Killarney (I. 2), July 1909, W.G.T.

* *Marchantia polymorpha* L., var. *aquatica* Nees, bog, near Rannoch Station (88), July 1915, M.C.; also pond, Charlesworth Combs (57), Sept. 1913, H.C.B.

Aneura multifida (L.) Dum., wet shady rocks, Ceunant Llenyrch, Maentwrog Valley (48), March 1915, P.G.M.R. and D.A.J.

Aneura sinuata (Dicks.) Dum., wet rocks, Harlech (48), Dec. 1914. D.A.J.

Aneura latifrons Lindb., Arthog Bog (48), June 1916, D.A.J.

Metzgeria furcata (L.) Dum., Fowey (2), Oct. 1916, R.W.S.; var. *ulvula* Nees, hedgetop, Isles of Scilly (1), Aug. 1905, R.W.S.

Pellia Neesiana (Gottsche) Limpr., roadside, Cwm Bychan, Harlech (*48), Oct. 1916; also Uwchartro, Harlech, Dec. 1916, D.A.J.

Petalophyllum Ralfsii (Wils.) Gottsche, Sandhills, Freshfield (59), Jan. 1916, W.G.T.

Moerckia Flotowiana (Nees) Schiffn., sandhills, Freshfield (59), Oct. 1913, W.G.T. "Specimens rather small."

Fossombronia—? St. Ishmael (45), Jan. 1917, R.J. "Is *Foss. pusilla* (L.) Dum." D.A.J.

Gymnomitrium obtusum Pears., Scar Craggs (70), Aug. 1915, W.N.T.

Gymnomitrium alpinum (Gottsche) Schiffn., rocks, Cwm Bychan, Harlech (48), April 1912, E.C., D.A.J. and J.C.W., comm. J.C.W.

Marsupella Pearsoni Schiffn., Cwm Moch, above Talsarnau (48), May, 1916, D.A.J.

Marsupella aquatica Schiffn., R. Esk and Eskdale (70), August 1916, W.N.T. "The former is, I think, *Marsupella emarginata* (Ehrh.) Dum. It has the characteristic smell of that plant. *Mars. aquatica* has stems much more elongated and leaves more channelled and distant. The latter with its shiny reddish leaves, shallow sinus, strongly thickened cells and smaller marginal cells belongs to *Marsupella Pearsoni* Schiffn." D.A.J.

Alicularia compressa Nees, Hardrigg Beck, Scafell (70), August 1916, W.N.T.; also Crowan (1), Jan. 1916, R.W.S.

Alicularia Geoscyphus De Not., Lindow Common, Wilmslow (58), Sept. 1916, H.C.B. "Yes, mixed with *Gymnocolea inflata* (Huds.) Dum." D.A.J.

Eucalyx hyalinus Breidl., Hardknott (70), Sept. 1916, W.N.T. "The cells contain glistening oil-bodies, the rhizoids are white and the under leaves numerous. It is *Alicularia Scalaris* (Schrad.) Corda." D.A.J. Var. *colorata* (Nees), roadside, Llanfrothen to Croesor (48), May 1915, D.A.J.

Haplozia crenulata Dum., bank of R. Esk (70), August 1916, W.N.T.; also Crowan (1), Dec. 1915, R.W.S.

Haplozia sphaerocarpa (Hook.) Dum., rocks, Maentwrog Valley (48), Aug. 1914, D.A.J.

Haplozia cordifolia Dum., Great Gable (70), Sept. 1916, W.N.T.

Haplozia riparia forma *potamophila* Bern., mountain stream, Kinder Scout (57), May 1915, H.C.B.

Jamesionella subapicalis (Nees) Schiffn., in woods, Penybont, near Llanbedr (48), Jan. 1917, D.A.J.

Gymnocolea inflata (Huds.) Dum., Slieve Gallion (I. 40), June 1914, J.D.H.; also Riccall Moor (61), Feb. 1916, J.M.

Gymnocolea acutiloba (Kaal.) K. Müller, Rhinog Fawr, Harlech (48), July 1916, D.A.J.

Lophozia badensis (Gottsche) Schiffn., Warton Crag (60), June 1912; also High Ridge, Gigglegwick (64), Sept. 1912, H.C.B. "One of the packets in the latter gathering contains *Loph. turbinata* (Ruddi) Steph. The leaves have a narrow base and larger cells." D.A.J.

Lophozia bantriensis (Hook.) Steph., Cold Wells, near Burnley Sept. 1912, leg. C. R. Ritchings, comm. W.G.T.; also Auldallan Burn, Catlaw (90), Oct. 1916, M.C. "A large aquatic form with decurrent leaves." D.A.J.

Lophozia ventricosa (Dicks.) Dum., Newry (I. 38), April 1916, J.D.H.

Lophozia alpestris (Schleich.) Evans, forma, walls, Moelwyn Bach (48), Nov. 1915, D.A.J.

Lophozia excisa (Dicks.) Dum., Delamere (58), Sept. 1916, W. H. Pearson, W. Watson and H.C.B., comm. H.C.B.

**Lophozia Hatcheri* (Evans) Steph., walls, Arthog (48), Oct. 1915, W. E. Nicholson, H. H. Knight and D.A.J., comm. D.A.J.

Lophozia Floerkii Schiffn., Great Gable, Irton Fell and Eskdale (70), Aug. 1916, W.N.T. "The last is *Lophozia barbata* (Schmid.) Dum." D.A.J.

Lophozia atlantica (Kaal.) Schiffn., forma *condensata* Arnell, dry rocks, Artro Valley, above Harlech (48), Nov. 1916, D.A.J.; also Hebden Valley, Hebden Bridge (63), May 1914, P.G.M.R. and J.C.W., comm. J.C.W. "The Hebden Bridge plant is the var. *asperima* Arnell, vide note in Report 1914." D.A.J.

Plagiochila asplenioides (L.) Dum., and var. *major* Nees, Fowey (2), Nov. 1916, R.W.S. "All the Fowey plants belong to the type. The var. *major* Nees is a much larger form with pale green leaves." D.A.J.

Var. *major* Nees, Ravine of the Mourine, Glen Esk (90), Sept. 1916, M.C.

Plagiochila punctata Tayl., c. per., Nantcol ravine, near Llanbedr (48), Sept. 1914, D.A.J. and W.G.T., comm. W.G.T.; also Tynygroes, Dolgelley (48), May 1914, D.A.J.

Leptoscyphus Taylori (Hook.) Mitt., Crowden (58), April 1914, H.C.B.

Leptoscyphus anomalus (Hook.) Mitt., Oakmere (58), Sept. 1916, W. H. Pearson, W. Watson and H.C.B., comm. H.C.B.

Lophocolea bidentata (L.) Dum., Fowey (2), Oct. 1916, R.W.S. "The only specimen sent in is *Calypogeia arguta* Nees et Mont." D.A.J.

Lophocolea cuspidata Limpr., Crowan (1), Jan. 1916, R.W.S.

Chiloscyphus polyanthus (L.) Corda, Dobcross, Saddleworth (63), Dec. 1916, H.C.B.

Harpanthus Scutatus (Web. et Mohr.) Spruce, woods, Crafnant, Artro Valley (48), Feb. 1916, D.A.J.

Saccogyna viticulosa (Sm.) Dum., Fowey (2), Oct. 1916, R.W.S.

Cephalozia connivens (Dicks.) Lindb., Lindow Common, Wilmslow (58), June 1915, H.C.B.

Cephalozia media var. *pallida* (Spruce) Massal., Ceunant Llenyrch, Maentwrog Valley, (48), June 1905, D.A.J.

Cephalozia fruitans (Nees) Spruce, Oakmere (58), Sept. 1916, W. H. Pearson, W. Watson and H.C.B. comm. H.C.B.

Cephaloziella byssacea (Roth.) Warnst., c.per., walls, above Harlech (48), March 1915, D.A.J.

Cephalozia Hampeana (Nees) Schiffn., railway embankment, Harlech (48), Nov. 1915, D.A.J.

Cephalozia bifida Schiffn., old quarry, Lurgan (I. 37), Sept. 1916, J.D.H. "I have seen only male plants and I should say it is *Ceph. byssacea* (Roth.) Warnst. *Webera. annotina* var. *bulbifera*. Correns is present in some of the packets." D.A.J.

Cephaloziella aeraria (Pears.) Macv., copper mine, Llanfrothen (48), Jan. 1917, D.A.J. "Prof. Douin considers Mr. Pearson's *Ceph. aeraria* to be a depauperate form of *Cephalozia (Prionolobus) Massalongi* Spruce." Also, disused copper mine, Cwm Dyli, Snowdon (49), Aug. 1912, J. B. Duncan, W. Ingham and J. C. Wilson, comm. J.C.W. "This is true *Ceph. Massalongi* Spruce. (teste S. M. Macvicar and Prof. Douin). New to Wales." D.A.J.

Cephaloziella—?, roadside bank, near Llyn Tecwyn, above Talsarnau (48), Sept. 1911, W.G.T. "It is the usual habitat of a *Cephaloziella*, but the plant is much too large. It is *Marsupella Funckii* (Web. et Mohr.) Dum." D.A.J.

Prionolobus Turneri (Hook.) Schiffn., rocks, near Minffordd (48), May 1916. "This rare plant was first found by Mr. W. H. Pearson at Dolgelley some years ago. This is the second record for North Wales." D.A.J.

Odontoschisma Sphagni (Dicks.) Dum., Oakmere (58), Sept. 1916, Pearson, Watson and Broome, comm. H.C.B.

Odontoschisma denudatum (Nees) Dum., Oakmere (58), Sept. 1916, Pearson, Watson and Broome, comm. H.C.B.

Calypogeia Trichomanis (L.) Corda, Ardmore (I. 37), April 1916, J.D.H.

Calypogeia fissa (L.) Raddi, Fowey (2), October 1916, R.W.S.

Bazzania triangularis Pears., Tynygroes, Dolgelley (48), May 1914, D.A.J.

Lepidozia pinnata (Hook.) Dum., Slievemore, Achill (I. 27), Aug. 1911, Jones, Duncan, Owen and Wilson, comm. J.C.W.

Lepidozia reptans (L.) Dum., Rostrevor (I. 38), April 1916, J.D.H.

Lepidozia Pearsoni Spruce, Ceunant Coch, Llanfrothen (48), May 1914, D.A.J.

Lepidozia trichoclados K. Müll, Correll Glen (I. 33), June 1916, W.N.T.; also, Ceunant Llenyrch Maentwrog Valley (48), May 1914, D.A.J.

Lepidozia setacea (Web.) Mitt., Oakmere (58), Sept. 1916, Pearson, Watson and Broome, comm. H.C.B.; also, bog, Ventongimps (1), Dec. 1916, F.R.

Anthelia julacea Dum., Upper Eskdale (70), Aug, 1916, W.N.T.

Herberta adunca (Dicks.) Gray, Cuileagh (I. 33), July 1915, W.N.T.

Ptilidium ciliare (L.) Hampe, Oakmere (58), Sept. 1916, Pearson, Watson and Broome, comm. H.C.B.

Trichocolea tomentella Dum., Eskdale (70), Sept. 1916, W.N.T.

Diplophyllum albicans (L.) Dum., Crowan (1), Dec. 1915, R.W.S.

Scapania compacta (Roth.) Dum., Crowan (1), Dec. 1915, R.W.S.

Scapania gracilis (Lindb.) Kaal., Cwmbychan (48), April 1912, J.C.W.

Scapania nemorosa (L.) Dum. (reddish colour), boulders in wood, Aberglaslyn (49), Sept. 1916, J.L.L.W. and D.A.J., comm. D.A.J.

* *Scapania dentata* var. *speciosa* Nees, wet rocks in old quarry between Glaslyn Inn and Aberglaslyn (48), Sept. 1915, D.A.J. and Aug. 1916, P.G.M.R.

* *Scapania dentata* var. *ambigua* De Not., Silverwell Moor (1), Dec. 1916, F.R.

Scapania uliginosa (Swartz.) Dum., Meall Garbh, Rannoch (88), May 1909, W. E. Nicholson, comm. W.G.T.

Scapania irrigua (Nees) Dum., Derryinver (I. 37). Sept. 1916, J.D.H.; also Ventongimps (1), Dec. 1915, F.R.

Radula voluta Tayl., Torc Waterfall, Killarney (I. 2), July 1909, W.G.T.

Pleurozia purpurea (Lightf.) Lindb., Lough Naroon bogs (I. 39), Aug. 1916, J.D.H.

Madotheca platyphylla (L.) Dum., Polperro (2), Jan. 1917, F.R. "The antical lobe is round and decurrent and the postical lobe broader in proportion to the width of the under leaf. This belongs to *Mad. Thuja* (Dicks.) Dum. The specimens are fine." D.A.J.

Cololejeunea calcarea Schiffn., Meall nan Tigearn (97), July 1912, W.G.T.

Lejeunea flava (Swartz.) Nees, Old Weir Bridge, Killarney (I. 2), Aug. 1916, D.A.J.

Lejeunea cavifolia (Ehrh.) Lindb., Blackhead (I. 39), March 1916, J.D.H.; also Fowey (2), Oct. 1916, R.W.S. "The latter is var. *heterophylla*." D.A.J.; *Var. heterophylla* Carr., Rocks, Minffordd (48), June 1916, D.A.J.

Lejeunea patens Lindb., Florence Court, rocks behind deerpark (I. 33), July 1915, W.N.T.

Harpalejeunea ovata (Hook.) Schiffn., Upper Lake, Killarney (I. 2), July 1909, W.G.T.

Marchesinia Mackaii (Hook.) Gray, (mixed with *Lej. cavifolia* var. *heterophylla* Carr.), rocks by Glaslyn R. near Minffordd (48), June 1917, D.A.J.

Jubula Hutchinsiae (Hook.) Dum., Glenariff, (I. 39), June 1914, J.D.H.

Frullania Tamarisci (L.) Dum., Fowey (2), Oct. 1916, R.W.S.

Frullania fragilifolia Tayl., Maentwrog Valley (48), Sept. 1911, W.G.T.

Frullania dilatata (L.) Dum., Fowey (2), Oct. 1916, R.W.S.