

THE MOSS FLORA OF HAMPSHIRE AND THE ISLE OF WIGHT.

BY A. BRUCE JACKSON.

Although in the past a good deal of attention has been devoted by local botanists to Hampshire mosses, of late years scarcely anything has been published about their distribution in the county. A considerable amount of field work has, however, been done by students of this interesting group of plants in various parts of the county, and it seems desirable that the accumulated records resulting from these investigations should be brought together in these pages.

It will be well at the outset to refer to existing papers on the subject of Hants bryology.

- (1) To Venables' Guide to the Isle of Wight, published in 1862, now a scarce work, the late Rev. A. Bloxam and Mrs. Venables contributed a list of about 60 mosses. It is impossible now to test the accuracy of these early records, as no specimens exist to confirm them, but I have included them here as a matter of interest.
- (2) The late Mr. C. B. Clarke in his Flora of Andover, published in 1866, enumerated 52 mosses found in that neighbourhood.
- (3) In 1870 the late Mr. Henry Reeks published in Vol. 1 of the Newbury District Field Club Transactions, a list of 81 species found by him in the neighbourhood of East Woodhay.
- (4) In 1887 a list of 140 species, recorded chiefly from the Winchester and Basingstoke districts, was published by the late Mr. F. I. Warner in the first volume of the Hants. Field Club proceedings, but no definite localities were given.

- (5) In the Journal of Botany for 1898, Mr. H. N. Dixon gave collated lists of Hants Mosses from various sources, including Messrs. Clarke and Reek's papers, lists contributed to the Botanical Record Club by Messrs. E. D. Marquand and H. F. Parsons, and a list of about 100 species seen in Sparsholt parish by the Rev. E. D. Heathcote.
- (6) A summarised account of Hants and Isle of Wight Mosses from the pen of Mr. Dixon appeared in Vol. 1 of the Victoria County History, published in 1900. At this time 210 species were recorded from the area named. It is only necessary to add that the number now (1907) on record is over 270, to give some idea of the numerous additions. Quite lately the Isle of Wight has been carefully worked for mosses by the Rev. H. N. Livens of Newport, who during 1906-7 collected no less than 160 species, including a good many interesting species hitherto unrecorded. This list will find an appropriate place in a Natural History Guide to the Isle of Wight, to be published shortly, but the contributor has, with the permission of Mr. F. Morey, F.L.S., the Editor of the publication, allowed me to incorporate it in this enumeration. I am also indebted to the Rev. W. L. W. Eyre of Swarraton, for a list of about 80 mosses collected in or near his parish; to my friend Mr. J. F. Rayner for numerous records from the New Forest and the Isle of Wight; to Sir William Portal, of Laverstoke, who very kindly lent me the interesting moss herbarium of the late Dr. Hill, of Basingstoke, containing plants collected chiefly in that neighbourhood; and to Mr. Frank Comyns, my companion on many a bryological ramble for much help, most ungrudgingly given, in the preparation of local lists, etc.

A good deal remains to be done before the Moss flora of Hants can be regarded as thoroughly worked out. Bearing in mind the varied character of the soil, Hants ought to be as rich in species as almost any of the Southern counties. Districts where chalk predominates would repay careful examination in winter and early spring. Many mosses attain their full

development in January and February, when but few botanists are abroad. The New Forest, which to the student of flowering plants is very favourite ground, has never, so far as I am aware, been systematically explored for mosses and hepatics, and it is much to be wished that some competent observer would undertake such a task. Mr. Rayner's admirable list of New Forest Fungi is an example of what may be done by careful work in this direction.

With the exception of the Isle of Wight list in Venables' guide, I have not thought it necessary to repeat records printed in other papers. The initials N. S. and W. precede the records for N. and S. Hants and Wight, respectively, the divisions adopted being those of Mr. Townsend's "Flora of Hampshire." The letters in italics, which follow the localities, represent the observers mentioned. My own records are followed by a full stop.

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| SPHAGNUM CYMBIFOLIUM. Ehrh. | S. RUFESCENS. Warnst. |
| N. Pen Wood, Highclere. | N. Pen Wood, Highclere. |
| W. The Wilderness, <i>L.</i> | S. SQUARROSUM. Pers. |
| VAR SQUARROSUM N. and H. | N. Bog in Highclere Park. |
| S. Kirkcowan, <i>R.</i> | W. Without precise locality, <i>Venables.</i> |
| VAR TURFACEUM. Warnst. | The Wilderness, <i>L.</i> |
| N. Pen Wood, Highclere. | S. ACUTIFOLIUM. Ehrh. |
| S. PAPILLOSUM. Ldb. | S. Near Bournemouth; Hut |
| S. Nut Heath, <i>R.</i> | Heath, <i>R.</i> |
| S. MEDIUM. Limpr. | W. Without precise locality, <i>Venables.</i> |
| S. Holmsley Bog, New Forest, <i>R.</i> | VAR RUBELLUM. Russ. |
| S. RIGIDUM. Schp. | N. North Hants, <i>Hill Herb.</i> ; Sil- |
| S. Near Bournemouth, <i>R.</i> | chester Common, <i>Hunt Herb.</i> |
| VAR COMPACTUM. Schp. | S. Roman Arch, New Forest, <i>R.</i> |
| N. North Hants, <i>Hill Herb.</i> | VAR TENUE. |
| S. Vinney Ridge, <i>R.</i> | S. New Forest, <i>Herb Boswell.</i> |
| S. MOLLE. Sull. | S. FIMBRIATUM. Wils. |
| N. Silchester Common, <i>Warner.</i> | W. The Wilderness, <i>L.</i> |
| S. TENELLUM. Ehrh. | S. CUSPIDATUM. Ehrh. |
| N. North Hants, <i>Hill Herb.</i> | N. Hants, <i>Hill Herb.</i> |
| S. Obere, New Forest, <i>R.</i> | S. Roman Arch; Vinney Ridge, |
| S. SUBSECUNDUM. Nees. | New Forest (forma submersum), <i>R.</i> |
| S. Nut Heath, <i>R.</i> | S. MEDIUM. Limpr. |
| VAR OBESUM. Schp. | S. Holmsley Bog, New Forest, <i>R.</i> |
| S. - Vinney Ridge, and near | CATHARINEA UNDULATA. W. and M. |
| Roman Arch, New Forest, <i>R.</i> | Frequent in woods on clay and |
| VAR VIRIDE. Boul. | usually fruiting abundantly. |
| S. Vinney Ridge, <i>R.</i> | VAR MINOR. W. and M. |
| VAR INUNDATUM. | W. Combley Wood, <i>L.</i> |
| S. Obere, <i>R.</i> | |

- POLYTRICHUM NANUM.** Neck.
N. Sidminton Common. Near
Woodhay station, *Comyns*.
S. Bournemouth, *R.*
- P. ALOIDES.** Hedw.
N. Swarraton, *E.*
S. Claypit, Ivy Bank, *R.*
W. Parkhurst Forest, *L.*
- P. URNIGERUM.** L.
N. Gravel path in Burghclere
Rectory garden, December, 1906.
- P. PILIFERUM.** Schreb.
N. Milford Woods.
S. Nut Heath, *R.*
W. St. George's Down, etc., *L.*
- P. JUNIPERINUM.** Willd.
N. Swarraton, *E.*
W. Brightstone Down, etc., *L.*
- P. GRACILE.** Dicks.
W. Marvell Copse, *L.*
- P. FORMOSUM.** Hedw.
W. Parkhurst Forest, *L.*
- P. COMMUNE.** *L.*
Common in the New Forest.
W. The Wilderness, *L.*
- ARCHIDIUM ALTERNIFOLIUM.** Schp.
S. Picket Post, New Forest, *R.*
- PLEURIDIUM AXILLARE.** Ldb.
W. The Wilderness, *L.*
- P. SUBULATUM.** Rab.
N. Railway embankment near
Woodhay station. Swarraton, *E.*
S. Ridley Wood; Hut Wood, *R.*
W. Parkhurst Forest, *L.*
- DITRICHUM FLEXICAULE.** Hpe.
N. Chalk pit at Basingstoke,
Brocas.
S. Under Beech trees on the Downs
near Winchester, very fine speci-
mens; St. Catherine's Hill.
W. Ashéy Down; Westover Down,
L.
- SELIGERIA PUSILLA.** B. and S.
S. Near Twyford gate, *Warner*
Herb.
- S. CALCAREA.** B. and S.
N. Old chalk pit at the Dell,
Kingsclere, where millions of plants
were seen with their closely packed
capsules in all stages of develop-
ment, producing brown patches of
colour on the vertical face of the
chalk. Sparsholt, *Heathcote*.
- S. Chalk pit at Winchester, 1853.
Brocas. Chalk pit Kingsway,
Winchester, 1906.
W. Carisbrooke; Chalk pit, New-
port, *L.*
- S. RECURVATA.** B. and S.
W. Without precise locality, *Venables*
- CERATODON PURPUREUS.** Brid.
A very common and variable moss.
The peristome of the capsule affords
an interesting microscopic object.
- C. CONICUS.** Ldb.
S. On a wall at Ringwood, *R.* A
very local species in England. The
specimen on which the record rests
was determined by Mr. J. E.
Bagnall. The plant sent to me as
the same thing was something
quite different, so there was possibly
a mixture of material.
- DICRANELLA HETEROMALLA.** Schp.
Common on shady banks and in
woods.
VAR **INTERRUPTA.** B. and S.
W. Sandown, *L.*
- D. SECUNDA.** Ldb.
W. Staple's, *L.*
- D. VARIA.** Schp.
N. Chalk pit near Kingsclere.
Swarraton, *E.*
S. By a stream near Lyndhurst.
W. Landslip, *L.*
- DICRANOWEISIA CIRRATA.** Ldb.
N. Ecchinswell. This moss seems
very partial to decayed thatch, roofs
of which are sometimes covered
with its olive green cushions.
Swarraton, *E.*
- CAMPYLOPUS FLEXUOSUS.** Brid.
S. Near Bournemouth, *Warner*
Herb.
W. Headon Hill, *L.*
VAR **PARADOXUS.** Husn.
S. Hut Heath, N. Stoneham,
R.
- C. PYRIFORMIS.** Brid.
S. Common on heaths and banks,
R.
W. Parkhurst Forest, *L.*
- C. BREVIPIUS.** B. and S.
S. Bournemouth, *R.* Heath near
Brockenhurst.

- DICRANUM BONJEANI. De Not.
Frequent in bogs and on wet heaths.
- D. SCOPARIUM. Hedw.
VAR ORTHOPHYLLUM. Brid.
W. Headon Hill, *L.*
- D. MAJUS. Turn.
S. New Forest, *R.*
- LEUCOBRYUM GLAUCUM. Schp.
North Hants, *Hill Herb.*
S. Cranbury Wood, near Otterbourne, 1906.
Bassett Wood, *R.* Near Brockenhurst.
It fruits in the New Forest but rarely elsewhere.
- L. ALBIDUM. Ldb.
The New Forest is the only known locality for this plant in England. I was shown the spot near Lyndhurst by Mr. Rayner last summer, but although the moss was found in great plenty under oak trees no capsules were to be seen. Mr. Dixon considers it unsafe to name these specimens in the absence of fruit, but the moss appears to be the same as a fertile example gathered by Mr. Piffard in the same spot a year or two previously. Small states of *L. glaucum* occur in the Forest, and these apparently form a series of intermediates which connect *L. albidum* with the commoner species.
- FISSIDENS EXILIS. Hedw.
N. On wet clay in Milford Woods, Highclere, December; 1906. A very small moss.
W. Without precise locality, *L.*
- F. VIRIDULUS. Wahl.
N. Milford Woods.
W. Combléy Wood; Garston Down, *L.*
- F. INCURVUS. Starke.
N. Lane, near Kingsclere.
W. The Landslip, *L.*
- F. TAMARINDIFOLIUS. Wils.
W. The Landslip, *L.*
- F. BRYOIDES. Hedw.
A pretty little species which is frequent on clay banks and on the ground, often producing an abundance of capsules. The bright red peristome forms a beautiful microscopic object.
- F. ADIANTOIDES. Hedw.
S. Obere, New Forest, *R.*
W. Undercliff, near Ventnor; Ashhey Down, *L.*
- F. DECIPIENS. De Not.
S. St. Catherine's Hill.
W. The Landslip, *L.*
- F. TAXIFOLIUS. Hedw.
Frequent on clay banks and on ditch sides.
- GRIMMIA APOCARPA. Hedw.
N. Longwood Warren, near Winchester. *Herb Warner.*
Sidown Hill, near Highclere.
W. Near Ventnor, *Bloxam.*
Blackgang, *L.*
- G. PULVINATA, Sm.
N. Walls at Echinswell and elsewhere
S. Wall at Ivy Bank, *R.*
W. Common on walls in the Island, *L.*
- RHACOMITRIUM CANESCENS. Brid.
S. Downs, near Winchester.
- ACAULON MUTICUM. C. M.
N. Tanhouse, near Kingsclere, Woodlands, April, 1906.
- PHASCUM CUSPIDATUM. Schreb.
N. Sydmonton.
S. Garden at Ivy Bank, Southampton, *R.*
- P. FLÖRKEANUM. W. and M.
N. Field on the chalk, near Echinswell, Dec., 1906. An exceedingly minute species, which can usually only be found after a most careful search, when plants become visible as minute red points on the soil.
- P. CURVICOLLE. Ehrh.
North Hants, *Hill Herb.*
S. Highfields, near Winchester.
- POTTIA RECTA. Mitt.
N. Chalky field at Echinswell; Swarraton, *E.*
S. Highfields, near Winchester.
W. Garstons; Ashhey Down, *L.*
- P. TRUNCATULA. Ldb.
N. Common on clay banks in the early spring, the numerous capsules being usually very conspicuous.
W. Near Ventnor, *Bloxam.*

- P. INTERMEDIA. Furn. VAR
LITTORALIS. Mitt.
W. Brightstone Down, *L.*
- P. MINUTULA Furn.
N. Chalk field at Ecchinswell.
Swarraton, *E.*
- P. STARKEANA, C. M.
W. The Undercliff; Landslip;
Garstons, *L.*
- P. LANCEOLATA, C. M.
N. Railway embankment, near
Woodhay station. Swarraton, *E.*
S. Field, near Ropley.
W. Near Ventnor, *Bloxam*. The
Landslip, *L.*
- TORTULA RIGIDA Schrad.
W. Near Ventnor, *Bloxam*.
- T. AMBIGUA Angstr.
N. Chalk pit, Sydmontom Brick
Kiln.
W. Ashy; Garstons, *L.*
- T. ALOIDES De Not.
W. The Landslip, *L.*
- T. MARGINATA, Spr.
N. Brickwork of water course in
Milford Woods, Dec. 1906.
S. Chilworth, *R.*
W. Near Ventnor, *Bloxam*; Vent-
nor, *R.* Carisbrooke Castle, *L.*
- T. MURALIS, Hedw.
Common everywhere on walls and
stones.
- T. SUBULATA. Hedw.
N. Highclere; Spring Lane, Burgh-
clere. Swarraton, *E.*
W. Ventnor, *R.*
- T. MUTICA. Ldb.
N. Roots of trees by water, near
Wash Common, where the stream
divides Berks and Hants. I
found a few fruiting stems on
the Berkshire side, further along
the stream. It is very rarely
seen fertile.
- T. LAEVIPILA. Schwgr.
Frequent on tree trunks.
- T. INTERMEDIA. Berk.
S. Durley, *R.*
W. Gatcombe, *L.*
- T. RURALIS. Ehrh.
N. Swarraton, *E.* Thatched roof
near Ecchinswell.
- S. In similar situations near Win-
chester. Rownhams, *R.*
W. Roof of shed, Arretton Manor,
L.
- T. RURALIFORMIS. Dixon.
W. Sandy shore near Sandown.
- BARBULA LURIDA. Ldb.
S. Mortar of wall at Compton,
Winchester. North Stoneham
House, *R.*
W. The Landslip, cfr.; top of
brick wall, Ashy Down, *L.*
Mr. Ingham has given the name
obtusifolia to a form found on
the Landslip by Mr. Livens.
- B. RURELLA. Mitt.
N. Spring Lane, Burghclere.
Swarraton, *E.*
S. Wall of Winchester Cathedral
Close.
W. Ventnor, *R.*
- B. TOPHACEA. Mitt.
W. The Landslip; Undercliff,
near St. Laurence.
- B. FALLAX. Hedw.
N. Hockley's Hole, near Ecchins-
well.
S. St. Catherine's Hill; Garden
at Ivy Bank, *R.*
W. Common in the Island, *L.*
- VAR BREVIFOLIA. Schultz.
W. Near Ventnor, *Bloxam*;
The Landslip, *L.*
- B. RIGIDULA. Mitt.
S. Mortar of wall at Compton,
near Winchester, March, 1906.
W. Ashy Down, *L.*
- B. CYLINDRICA. Schp.
N. Highclere Park.
W. Haven St., Shalfleet, *L.*
- B. VINEALIS. Brid.
N. Ecchinswell.
S. Wall at Ivy Bank, *R.*
W. Landslip; Gatcombe, *L.*
- B. SINUOSA. Braithw.
N. Abundant on the roots of
beech trees at the foot of Sidown
Hill, where the soil is calcareous.
Swarraton, *E.*
W. Ventnor, *R.*
- B. HORNSCHUCHIANA. Schultz.
W. Without precise locality, *Venables*.

- B. REVOLUTA. Brid.
N. Wall in Kingsclere village.
S. Wall opposite Compton Church,
near Winchester.
W. Without precise locality, *L.*
- B. CONVOLUTA. Hedw.
N. Sydmonton, Brick Kiln.
S. Rockery at Ivy Bank, *R.*
VAR SARDOA, B. & S.
N. Bank near the Rectory,
Swarraton. Near Kingsclere.
- B. UNGUICULATA. Hedw.
VAR OBTUSIFOLIA.
W. The Landslip, *L.*
VAR CUSPIDATA. B. and S.
W. Newport, etc., *L.*
The type of this species is
frequent on walls and bare
ground, often occurring in
pale green patches.
- WEISIA CRISPA. Mitt.
W. Garstons Down, *L.*
- W. MICROSTOMA. C.M.
N. Swarraton, 1898.
S. St. Catherine's Hill, 1906.
- W. TORTILIS. C.M.
W. Bembridge, 1865, *G. Davies.*
(*Hunt Herb.*) Rowborough Down,
Landslip, *L.*
- W. VIRIDULA. Hedw.
Not uncommon on marly banks.
- W. VERTICILLATA. Brid.
N. Swarraton, *E.*
- CINCLIDOTUS FONTINALOIDES.
P. Beaur.
North Hants, *Hill Herb.*
- ENCALYPTA STREPTOCARPA. Hedw.
N. Swarraton, *E.*
W. Carisbrooke, *L.*
- ZYGODON VIRIDISSIMUS. R. Br.
N. Fruiting on tree trunks in Mil-
ford Woods, Highclere, December,
1906; Spring Lane, Burghclere.
W. Parkhurst Forest, *L.*
- Z. STIKTONI. Schp.
W. Carisbrooke Castle, *L.*
- ULOTA BRUCHII. Hornsch.
W. Parkhurst Forest, *L.*
- U. CRISPA. Brid.
N. Swarraton, *E.* Ampfield Wood,
Warner Herb.
W. Near Ventnor, *Bloxam.*
VAR INTERMEDIA DIXON.
N. Tree trunks, Sydmonton
Common; Pen Wood, Highclere.
- S. Tree trunks, near Holmsley.
Chilworth, *R.*
- U. PHYLLANTHA. Brid.
W. Arretton Down, *L.*
- ORTHOTRICHUM ANOMALUM VAR
SAXATILE. Milde.
N. The specimen in Hill Herb.
named *O. ANOMALUM* probably
belongs here.
S. A single tuft, probably belonging
to VAR SAXATILE MILDE was seen
on a wall at Compton, Winchester,
in 1906.
W. Cowes, *R.*
- O. LEIOCARPUM. B. and S.
North Hants, *Hill Herb.*
- O. LYELLII. H. and T.
N. Tree in Spring Lane, Burghclere.
I have never found it fruiting in
Hants. Swarraton, *E.*
S. Durley, *R.*
W. Near Ventnor, *Bloxam*; Park-
hurst Forest, *L.*
- O. AFFINE. Schrad.
N. Near Kingsclere. Hockley's
Hole. Swarraton, *E.*
S. Shawford, *Herb Warner.*
W. Near Ventnor, *Bloxam*; Park-
hurst Forest, *L.*
- O. STRAMINEUM. Hornsch.
North Hants, *Hill Herb.* This
may be an error, but I had not
an opportunity of examining the
specimen critically.
- O. DIAPHANUM. Schrad.
N. Sydmonton. Swarraton, *E.*
S. Durley, *R.*
W. Ventnor, *Bloxam*; Combley;
Ashy Down, on post, large form,
L.
- SPLACHNUM AMPULLACEUM. L.
N. North Hants, *Hill Herb.*
S. Bog near Holmsley, sparingly.
New Forest, *L.*
- EPHEMERUM SERRATUM. Hpe.
North Hants, *Hill Herb.*
- PHYSCOMITRUM PYRIFORME. Brid.
N. Worthy meadows, near Win-
chester, *Herb Warner.*
W. The Wilderness, *L.*
- FUNARIA FASCICULARIS. Schp.
N. Swarraton, *E.*

- F. ERICETORUM. Dixon.
North Hants, *Hill Herb.*
- F. HYGROMETRICA. Sibth.
Not uncommon in places bare of
vegetation, especially where the
ground has been burned.
- AULACOMNIUM PALUSTRE. Schwgr.
N. North Hants, *Hill Herb.*
S. Hut Wood, New Forest, *R.*
W. The Wilderness, *L.*
- A. ANDROGYNUM. Schwgr.
Frequently seen on hedge banks, in
a gemmiform state; the fruit is
extremely rare and hardly ever
found in England.
- BARTRAMIA POMIFORMIS. Hedw.
Apple Moss.
N. Bank in lane near Sidmonton
Common; Lane near Woodhay
Station.
S. Hursley. *Herb Warner.* Bassett,
R.
- PHILONOTIS RIGIDA. Brid.
W. Shanklin, *L.*
- P. CAPILLARIS. Ldb.
S. Near Mark Ash, New Forest,
R.
- P. CALCAREA. Schp.
North Hants, *Hill Herb.*
- LEPTOBRYUM PYRIFORME. Wils.
W. Newport (in greenhouse), *L.*
- WEBERA NUTANS. Hedw.
N. Swarraton, *E.*
S. Claypit, at Ivy Bank, *R.*
W. Parkhurst Forest, *L.*
VAR LONGISETA, B. and S.
S. Bank at North Stoneham, *R.*
- W. ANNOTINA. Schwgr.
S. Picket Post, New Forest;
Swaythling; Southampton, *R.*
- W. CARNEA. Schp.
W. Near Ventnor, *R.* Shanklin, *L.*
- W. ALBICANS. Schp.
W. Ningwood, *L.* Blackgang
Chine, 1900.
- W. TOZERI. Schp.
W. On sandstone, Apse, *L.*
- BRYUM INCLINATUM. Bland.
N. Swarraton, *E.*
- B. PALLENS. Sw.
S. Near Lyndhurst Road Station, *R.*
- W. Sandown Cliffs, *L.*
- B. BIMUM. Schreb.
N. Swarraton, *E.*
- B. INTERMEDIUM. Brid.
W. Without precise locality.
Venables.
- B. CAESPITICUM, *L.*
S. Chilworth, *R.*
W. Ventnor, *Bloxam.* Cowes, *R.*
Widcombe, etc., *L.*
- B. CAPILLARE, *L.*
Common on walls.
- B. OBCONICUM. Hornsch.
W. Shanklin, *Herb Hunt.*
- B. DONIANUM. Grev.
W. Blackwater, *L.*
- B. ERYTHROCARPUM. Schwgr.
W. Near Ventnor, *Bloxam.* Colwell
Bay in fine fruit; male plants near
Blackwater; Clay ground, Park-
hurst Forest, *L.*
- B. ATROPURPUREUM. W. and M.
North Hants, *Hill Herb.*
S. St. Catherine's Hill. On bricks
at Ivy Bank, *R.*; Parkhurst Forest,
L.
- B. MURALE. Wjls.
S. Lyndhurst Road Station, *R.*
W. Gatcombe, *L.*
- B. ARGENTEUM. *L.*
Common on waste ground, brickwork,
etc.
VAR LANATUM. B. and S.
W. Ryde, Isle of Wight, *R.*
Near Blackwater, Carisbrooke,
L.
- B. ROSEUM. Schreb.
N. Amongst grass on heathy
ground, near Tanhouse, *Comyns.*
W. Brightstone Down, *L.*
- MNIUM AFFINE. Bland.
N. Lane near Adbury, *Comyns.*
Caveley Woods.
W. Arretton; Newport; Undercliff;
L.
- M. CUSPIDATUM. Hedw.
N. Swarraton, *E.*
- M. ROSTRATUM. Schrad.
N. Swarraton, *E.*
W. Combley; Apes Down; Under-
cliff, *L.*

- M. UNDULATUM*, *L.*
Frequent in woods.
- M. HORNUM*, *L.*
A common species in open woods where it often carpets the soil.
- M. STELLARE*, *Reich.*
N. Copse by a stream at North Sydmonton, 1906.
W. Ventnor, *R.* The Landslip, *L.*
- M. PUNCTATUM*, *L.*
S. Woodlands, *R.*
W. The Landslip, *L.*
- M. SUBGLOBOSUM*, *B. and S.*
W. Whitwell; The Wilderness, *L.*
- FONTINALIS ANTIPYRETICA*, *L.*
N. Swarraton, *E.*
W. Carisbrooke, *L.*
- CRYPHÆA HETEROMALLA*, *Mohr.*
N. On old elders in Milford Woods; tree trunk, Ladle Hill, Burghclere; hedge near Adbury; on tree trunks near Kingsclere; Swarraton, *E.*
S. Tree trunk in hedge between Winchester and Hursley.
W. Near Ventnor; the Undercliff, *L.*
- NECKERA COMPLANATA*, *Hvbn.*
Common on tree trunks. Milford Woods, *cf.* Near Lyndhurst *cf.*
- N. PUMILA*, *Hedw.*
N. Beech trunks, Hockley's Hole, near Ecchinswell. Milford Woods in fruit. Swarraton, *E.*
S. Beech trees near the Devil's Punch Bowl, Winchester. Between Lyndhurst and Brockenhurst, *cf.*
W. Near Ventnor, *Bloxam.* Apes Down Woods, *L.*
- N. CRISPA*, *Hedw.*
S. St. Catherine's Hill.
W. Without precise locality, *Venables.* Tolt; Carisbrooke, *L.*
- HOMALIA TRICHOMANOIDES*, *Brid.*
N. Highclere. Near Sydmonton Common.
W. Carisbrooke, *L.*
- LEUCODON SCIUROIDES*, *Schwgr.*
N. Spring Lane, Burghclere and in other places. Common on trees in woods about Winchester, but I never saw a capsule. Micheldever Woods, Swarraton.
W. Blackwater, *L.*
It sometimes grows on walls.
- PTEROGONIUM GRACILE*, *Sw.*
N. On one tree trunk near Sidown Hill, Highclere.
S. With *EURHYNCHUIM MYOSUROIDES* on a sloping tree trunk between Lyndhurst and Christchurch, fruiting abundantly. Picket Post, *R.*
- ANTITRICHIA CURTIPENDULA*, *Brid.*
W. Without precise locality, *Venables.*
- POROTRICHUM ALOPECURUM*, *Mitt.*
N. Very fine and abundant near Kingsclere. Spring Lane, Burghclere. Swarraton, *E.*
W. Near Ventnor, *Bloxam.* Tolt Wood, etc., *L.*
- LESKEA POLYCARPA*, *Ehrh.*
N. Tree holes at Wash Water where the Enborne stream divides Berks and Hants.
- ANOMODON VITICULOSUS*, *H. and T.*
Usually common on tree roots in hedges.
- LEPTODON SMITHII*, *Mohr.*
N. Swarraton, *E.*
S. Near Bournemouth, *Clemenshaw.*
W. Near Ventnor, *Bloxam;* Gatcombe, *L.*; near Sandown.
- THUIDIUM TAMARISCINUM*, *B. and S.*
Common on shady banks, etc., but I have never seen it fruiting.
- T. DELICATULUM*, *Mitt.*
W. Carisbrooke, *L.*
- T. RECOGNITUM*, *Ldb.*
S. St. Catherine's Hill.
W. Without precise locality, *L.*
- T. HYSTRICOSUM*, *Mitt.*
N. Sydmonton Brick Kilns. Hockley's Hole, near Ecchinswell. Kingsclere. Swarraton, *E.*
S. St. Catherine's Hill.
- CLIMACIUM DENDROIDES*, *W. and M.*
N. Newtown Common. Swarraton, *E.*
S. Twyford meadows, Winchester.
- CYLINDROTHECIUM CONCINNUM*, *Schp.*
N. On the chalk near Kingsclere.
S. St. Catherine's Hill. Highfields, near Winchester.
- ISOTHECIUM MYURUM*, *Brid.*
N. Tree trunks, Sidown Hill, Highclere. Caveley Woods, near Ecchinswell. Swarraton, *E.*

- S. Picket Post, *R.*
W. Ventnor, *R.* Wootton Woods, *L.*
- PLEUROPOUS SERICEUS.** Dixon.
Very common on walls and trees all over the county.
- CAMPTOTHECIUM LUTESCENS.** B. & S.
N. Highclere Park, usually abundant on the chalk but rare in fruit. Hockley's Hole. Swarraton, *E.*
S. St. Catherine's Hill.
W. Near Ventnor, *Bloxam.* Downs, *L.*
- BRACHYTHECIUM GLAREOSUM.** B. & S.
N. Highclere Park. Ladle Hill, Burghclere.
S. Netley Marsh; *R.*
W. Near Ashley Down, *L.*
- B. ALBICANS.** B. and S.
N. Highclere Park. Swarraton, *E.*
W. St. George's Down, *L.*
- B. SALEBROSUM.** B. and S.
VAR PALUSTRE. Schp.
S. Downs near Oliver's Battery, 1906.
- B. RUTABULUM.** B. and S.
VAR LONGISETUM. B. and S.
S. North Stoneham, *R.*
VAR ROBUSTUM. B. and S.
S. Bournemouth, *R.*
W. The Wilderness, *L.*
- B. RIVULARE.** B. and S.
N. On earth by stream at North Sydmonton. By a stream near Kingsclere Woodlands; brickwork of water-course in Millford Woods. Swarraton, *E.*
- B. VELUTINUM.** B. and S.
Very common.
- B. CAESPITOSUM.** Dixon.
N. Tree trunk near Tanhouse, *cf.* February, 1906. Rare in fruit.
- B. ILLECEBRUM.** De Not.
N. Rides of Millford Wood, Highclere, Park, where it occurs in extensive patches.
S. Cadnam Lane, New Forest. *Herb Warner.*
- B. PURUM.** Dixon.
Fruiting specimens were found by Mr. Rayner, at Lynford enclosure, New Forest. Although a common moss it is not often found fruiting.
- EURHYNCHIUM PILIFERUM.** B. & S.
N. Anchor, Lodge, Basingstoke, *Herb Hunt.* Highclere Park. Swarraton, *E.*
W. Near Ventnor, *Bloxam.*
- E. CRASSINERVIUM.** B. and S.
N. Abundant on the chalky soil under Beech trees at the foot of Beacon Hill. Roots of Beech trees in a wood at Swarraton, *E.* (Fruiting abundantly, March, 1906).
S. Wall of Winchester Cathedral Close.
W. Ventnor, *R.* Widcombe, *L.*
- E. SPECIOSUM.** Schp.
W. The Wilderness, on the ground in wet copse, *L.*
- E. PRAELONGUM.** B. and S.
Common on shady banks, where it sometimes fruits very freely.
VAR STOKESII L. Cat. Ed. II.
W. Carisbrooke Castle in grass of moat, *L.*
- E. SWARTZII** HOBK.
Common in fields on clay.
W. A form with long pointed stem leaves simulating *E. ABBREVIATUM*, occurs on Rowborough Down. Another robust form, from the Landslip, has some of the leaves doubly nerved, *L.*
VAR RIGIDUM.
W. Rowborough Down, *L.*
- E. ABBREVIATUM.** Schp.
N. Sandy copse near Kingsclere.
S. Netley Marsh, *R.* This used to be considered a rare moss, but it has recently been detected in quite a number of localities in the South of England.
- E. PUMILUM.** Schp.
N. On the chalk at Sidown Hill, Dec. 1906; Lane near Kingsclere.
S. Lane near Compton, Winchester, March, 1906.
W. Bonchurch; Rowboro, *L.*
- E. TEESDALEI.** Schp.
N. Swarraton, *E.*
W. Gatcombe Mill, *L.*
- E. TENELLUM.** Milde.
N. Basingstoke, *Brucas.*
S. Lane near Compton, Winchester 1906.

- S. Lane near Compton, Winchester, March, 1906;
W. Carisbrooke Castle.
- E. MYOSUROIDES. Schp.
N. Tree trunks at Sydmonton; Milford Woods; Fruiting abundantly on a tree in Pen Wood. Swarraton, *E.*; Preston Candover; Near Ropley.
S. New Forest, near Lyndhurst.
W. Without precise locality, *Venables*; The Landslip; Rowborough Down, *L.*
- E. CIRCINATUM. B. and S.
W. Ventnor, *Bloxam*; Undercliff; Landslip; Carisbrooke; Rowboro, *L.*
- E. STRIATUM. B. and S.
N. Common on the chalk; Spring Lane, Burghclere, *cf.*, Nov., 1906. Swarraton, *E.*
S. Ringwood.
W. Near Ventnor, *Bloxam*; Comb-ley Woods, *L.*
- E. STRIATULUM. B. and S.
N. Swarraton, *E.*
W. Near Ventnor, *Bloxam*.
- E. RUSCIFORME. Milde.
N. Highclere. Swarraton, *E.*
S. By the Itchen, nr. Winchester.
W. Near Blackgang; Mill Race, Gatcombe, *cf.*, *L.*
- E. MURALE. Milde.
N. One or two tufts were seen on the chalk under trees near Highclere Park, Dec., 1906; Milford.
S. Ringwood, *R.*
W. Carisbrooke Castle, *L.*
- E. CONFERTUM. Milde.
A frequent species on stones and tree stumps; usually seen in abundant fruit.
- PLAGIOTHECIUM BORRERIANUM. Spr.
N. Milford Woods. Garden of Burghclere Rectory.
S. North Stoneham, *R.*
W. The Wilderness, *L.*
- P. DENTICULATUM. B. and S.
Frequent on shady banks in woods.
- P. SYLVATICUM. B. and S.
N. Near Adbury.
S. Bassett, *R.*
W. Carisbrooke, *L.*
- P. UNDULATUM. B. and S.
S. Bournemouth, *R.*
W. Marvell Copse, *L.*
- AMBLYSTEGIUM SERPENS. B. and S.
Common on stones, and decaying wood
- A. VARIUM. Ldb.
W. Whitecroft, near Newport, *L.*
- A. FILICINUM. De Not.
N. By water at Echinswell.
S. Vinney Ridge, New Forest, *R.*
W. Near Ventnor, *Bloxam*; Carisbrooke, *L.*
- A. JURATZKANUM. Schp.
W. Widcombe, on brick wall, *L.*
- HYPNUM RIPARIUM. L.
N. Swarraton, *E.*
S. Bournemouth.
W. Carisbrooke, *L.*
- H. STELLATUM. Schreb.
North Hants, *Hill Herb.*
S. Holmsley Bog, New Forest, 1906.
VAR PROTENSUM. B. and S.
N. On the chalk between Kingsclere and Highclere. Swarraton, *E.*
S. St. Catherine's Hill. Miller's Pond, near Southampton, *R.*
- H. CHRYSOPHYLLUM. Brid.
N. Field near Winchester.
W. Ashey Down, *L.*
- H. EXANNULATUM. Gumb.
VAR BRACHYDICTYON. Ren.
S. Ditch near Brockenhurst.
- H. REVOLVENS. Sw.
North Hants, *Hill Herb.*
- H. COMMUTATUM. Hedw.
North Hants, *Hill Herb.*
W. Near Ventnor, *Bloxam*. The Wilderness, *L.*
- H. CUPRESSIFORME, *L.*
VAR RESUPINATUM. Schp.
N. Swarraton, *E.*
W. Parkhurst, *L.*
VAR FILIFORME. Brid.
N. Sidmorton Common. Swarraton, *E.* Sidown Hill where it occurs in large mats on the tree trunks, in some cases completely hiding the bark.
S. Ivy Bank, Southampton, *R.*
W. Parkhurst Forest, *L.*

- VAR ERICETORUM. B. and S.
S. Hut Heath, *R.*
- VAR TECTORUM. Brid
N. Swarraton, *E.*
S. Ivy Bank, *R.*
W. Ashe; Landslip, *L.*
- VAR ELATUM. B. and S.
W. Ashe, *L.*
- H. IMPONENS. Hedw.
S. New Forest near Lyndhurst,
Specimens from the same locality
are preserved in Herb Boswell at
Oxford.
- H. PATIENTIAE, Ldb.
N. Grassy ride in Milford Woods,
Dec., 1906.
S. Ashurst, *R.*
- H. MOLLUSCUM. Hedw.
N. On the chalk between Kingsclere
and Highclere. Swarraton, *E.*
W. Near Ventnor, *B.* The
Downs, *L.*
- H. PALUSTRE. L.
S. Boards by mill stream, Brocken-
hurst, Hants, *Dixon.*
- H. SCORPIOIDES. L.
North-Hants, *Hill Herb.*
- H. CORDIFOLIUM. Hedw.
W. The Wilderness, *L.*
- H. CUSPIDATUM. L.
Very common in damp meadows.
- H. SCHREBERI. Willd.
N. Sydmonton Common, Ecchins-
well.
S. North Stoneham, *R.*
W. Without precise locality, *Venables.*
- HYLOCOMIUM SPLENDENS. B. and S.
N. Highclere Park. Hockley's
Hole near Ecchinswell. Swarra-
ton, *E.*
S. New Forest, *R.*
W. Near Ventnor, *Bloxam.* Park-
hurst; Brightstone Down, etc., *L.*
- H. BREVIROSTRE. B. and S.
N. Swarraton, *E.*
- H. LOREUM. B. and S.
N. Sparingly on Sidown Hill,
Highclere. Swarraton, *E.*
S. Bartley, *R.*
W. Without precise locality, *Venables.*
- H. SQUARROSUM. B. and S.
Very common.
- H. TRIQUETRUM. B. and S.
Frequent in calcareous districts.

KEW,

September, 1907.