

The Reading Naturalist

Supplement to No. 12

A
Preliminary List
of
Berkshire Micro-fungi

by HAROLD OWEN

Department of Agricultural Botany
University of Reading

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A P R E L I M I N A R Y L I S T O F
B E R K S H I R E M I C R O - F U N G I

This list is based almost entirely on records and collections of the last 40 years; indeed, most come from the past two decades. It was originally intended that old collections (such few as exist containing Berkshire specimens) and literature should be searched, but this would have involved a great expenditure of time, especially as nearly all the material is unavailable in Reading. It was thought preferable to produce the list with as little delay as possible. The main object in preparing it has been to stimulate collecting. It is a relatively short list, and some groups especially are very poorly represented.

It is not possible to define rigidly what is meant by 'a micro-fungus' : there is no agreed precise limit of fruit-body size dividing micro- and macro-fungi. As interpreted here, 'micro-fungi' excludes the vast majority of the Homobasidiomycetes, as well as many Pyrenomycetes and Discomycetes. Certain plant parasites have been included even though they rank very doubtfully or not at all as micro-fungi.

A substantial number of the records are supported by voucher specimens. The principle has been to enter, for each species in the list, the earliest known specimen; this may be preceded by a record for which no specimen exists, if such a record be of earlier date; where the earliest record (unsupported by specimen) of a species is without a locality within the county it is given first, followed by the earliest record with a locality.

In cases where a fungus has been recorded on a variety of hosts (or substrata), the first entry in the list is the earliest, and the others follow in alphabetical order of hosts. In the Uredinales aecidial stages precede uredo- and teleuto-stages. Where there is more than one record on any host, all are placed together, irrespective of date, and the host is mentioned before the first.

There are many records, often with specimens, of some fungi, but considerations of space have made it necessary to limit the records for each as noted above.

Where a series of records is due to the same authority, the latter is noted after the last record of the series.

Classification and nomenclature

The system of classification adopted is largely that of G.W. Martin found in Ainsworth, G.C. & Bisby. G.R. (1954). A dictionary of the fungi. 4th Ed. Kew. The arrangement of species within genera, and of genera in orders, is alphabetical.

Nomenclature in most groups usually follows an appropriate standard work, as under :

Myxomycetes Lister, G. (1911). A monograph of the Mycetozoa. London.

Pyrenomycetes Bisby, G.R. & Mason, E.W. (1940). List of Pyrenomycetes recorded for Britain. Trans. Brit. mycol. Soc. 24, 127-143.

Discomycetes Ramsbottom, J. & Balfour-Browne, F.L. (1951). List of Discomycetes recorded from the British Isles. Trans. Brit. mycol. Soc. 34, 38-137.

Ustilaginales Ainsworth, G.C. & Sampson, K. (1950). The British smut fungi (Ustilaginales). Kew.

Uredinales Wilson, M. & Bisby, G.R. (1954). List of British Uredinales. Trans. Brit. mycol. Soc. 37, 61-86. (Wilson & Bisby, 1954)

Sphaeropsidales and Melanconiales Grove, W.B. (1935-37). British stem and leaf fungi. Vol I, 1935 (Grove, 1935); Vol. II, 1937 (Grove, 1937). Cambridge.

Moniliales Wakefield, E.M. & Bisby, G.R. (1941). List of Hyphomycetes recorded for Britain. Trans. Brit. mycol. Soc. 25, 49-126.

The identity of many but not all specimens mentioned in the list has been checked. Thanks are due to the staff of the Commonwealth Mycological Institute for a few identifications. Doubtful records have been excluded.

The names of flowering plants are in agreement with Clapham, A.R., Tutin, T.G. & Warburg, E.F. (1952). Flora of the British Isles. Cambridge. Common names are usually employed for cultivated plants; where binomials appear, these are in accordance with one of the two following works :

Bailey, L.H. (1949) Manual of cultivated plants. New York.

Rehder, A. (1940). Manual of cultivated trees and shrubs. New York.

Common names of plant diseases are those given by Moore, W.C. (1959). British parasitic fungi. Cambridge. (Moore, 1959)

Synonymy

Some of the more common synonyms are given in brackets following the accepted name, and the synonyms also appear in the alphabetical arrangement, cross-referenced to the current name.

Sources of records

Besides the works listed earlier, the following have been searched for records. After each is given, in brackets, the abbreviation used in the list (similarly for certain references listed under 'Classification and nomenclature').

- Anon. (1918). Report on the occurrence of insect and fungus pests on plants in England and Wales in the year 1917. Misc. Publ. Bd Agric., Lond. 21. (Anon., 1918)
- Anon. (1920). Report on the occurrence of insect and fungus pests on plants in England and Wales in the year 1918. Misc. Publ. Bd Agric., Lond. 23. (Anon., 1920)
- Cotton, A.D. (1921). (In) Report on the occurrence of insect and fungus pests on plants in England and Wales for the year 1919. Misc. Publ. Minist. Agric., Lond. 33. (Cotton, 1921)
- Cotton, A.D. (1922). Fungus diseases of crops 1920-1921. Misc. Publ. Minist. Agric., Lond. 38. (Cotton, 1922)
- Grove, W.B. (1913). The British rust fungi (Uredinales). Cambridge. (Grove, 1913)
- Moore, W.C. (1943). Diseases of crop plants. A ten years' review (1933-1942). Bull. Minist. Agric., Lond. 126. (Moore, 1943)
- Moore W.C. (1948). Diseases of crop plants 1943-1946. Bull. Minist. Agric., Lond. 139. (Moore, 1948)
- Pethybridge, G.H. (1926). Report on the occurrence of fungus, bacterial and allied diseases of crops in England and Wales for the years 1922-1924. Misc. Publ. Minist. Agric., Lond. 52. (Peth., 1926)
- Pethybridge, G.H. (1929). Report on the occurrence of fungus, bacterial and allied diseases of crops in England and Wales for the years 1925, 1926 and 1927. Misc. Publ. Minist. Agric., Lond. 70. (Peth., 1929)
- Pethybridge, G.H., Moore, W.C. & Smith, A. (1934). Fungus and other diseases of crops 1928-1932. Bull. Minist. Agric., Lond. 79. (Peth. et al., 1934)
- Data from records of the Ministry of Agriculture, Fisheries and Food, Plant Pathology Laboratory Harpenden, by kind permission of the Director, Mr. W.C. Moore, C.B.E., M.A. (PPL)
- Data from records of the Ministry of Agriculture, Fisheries and Food, National Agricultural Advisory Service, Regional Headquarters, Coley Park Reading, by kind permission of Mr. E. Lester, B.Sc., Plant Pathologist. (CP)

Collectors

The records of a number of collectors have contributed largely to the list; those most frequently mentioned are given below, with the initials used in the list to refer to their records. Initials followed by numbers denote herbarium specimens (living cultures in the case of DS) which are kept in the Department of Agricultural Botany, University of Reading.

G.A. Carter	(GAC)
J.P. Cooper	(JPC)
R.E. Gunn	(REG)
G. Haworth	(GH)
J.M. Hirst	(JMH)
J. Lacey	(JL)
A.M. Mullock	(AMM)
G. Owen	(GO)
H. Owen	(HO)
P.M. Owen	(PMO)
D. Snow	(DS)
P.M. Townsend	(PMT)

CLASS MYXOMYCETES

Brefeldia maxima Rost. Growing over various plants in garden - Caversham 1.11.58 (--McCormick - A.M. Simmonds - HO 1139).

Fuligo septica Gmel. 'Flowers of tan'. On cabbage - 1940 (Moore, 1943); cucumber beds invaded - Wokingham 11.7.47 (CP); turf above septic tank - Maidenhead 1.7.59 (A.M. Simmonds).

Phyasarum gyrosum Rost. On Dahlia (tuber) - Maidenhead 1.4.49 (CP).

CLASS PHYCOMYCETES

PLASMODIOPHORALES

Plasmodiophora brassicae Wor. Club root of crucifers. 1918 (Anon., 1920); on Brussels sprouts - Winnersh 20.4.54; on cabbage - Winnersh 9.8.50 (CP); on cauliflower - Shinfield 13.10.56 (JL 44); on kale - Wokingham 11.7.52 (CP); on swede - 1959 (PPL).

Spongospora subterranea (Wallr.) Lagerh. Powdery scab of potato. Blewbury 6.8.52 (CP).

S. subterranea (Wallr.) Lagerh. f.sp. nasturtii Toml. Crook root of watercress. Wantage 12.3.53 (CP).

CHYTRIDIALES

Synchytrium endobioticum (Schilb.) Perc. Wart disease of potato. 1941 (PPL); Inkpen 15.9.47 (CP).

Urophlyctis alfalfae (Lagerh.) Magn. Crown wart of lucerne. Shinfield 23.9.57 (REG 126/184); on Medicago falcata L. - Shinfield 5.10.57 (REG 127/194); on M. varia Martyn - Shinfield 5.10.57 (REG 128/193).

SAPROLEGNIALES

Saprolegnia ferax (Gruith.) Thur. On mayfly Cloeon dipterum (L.) - Tilehurst 2.3.59 (A. Price - HO 1147).

PERCOSPORALES

Bremia lactucae Regel Downy mildew of lettuce. 1919 (Cotton, 1921); Shinfield 1946 (PPL); Reading 10.7.51 (PMO - HO 790); on Senecio jacobaea L. - Windsor 4.9.58 (HO 1120).

- Cystopus candidus (Pers. ex Chev.) Lev. White blister of crucifers.
On marrow-stem kale (Moore, 1943); on Aubrietia - Woodley 21.4.60 (HO 1172); on Capsella bursa-pastoris (L.) Medic. - Shinfield 13.10.56 (JL 33); on Lunaria annua L. - Reading 1947 (PPL).
- Peronospora antirrhini Schröt. Downy mildew of Antirrhinum. Twyford 22.6.50 (CP).
- P. arborescens (Berk.) de Bary Downy mildew of poppy. 1939 (Moore, 1943).
- P. destructor (Berk.) Casp (= P. schleideni Unger) Downy mildew of onion. 1920 (Cotton, 1922); Reading 1945 (PPL); Shinfield 13.3.57 (JL 71); on shallot 1931 (Peth. et al., 1934).
- P. effusa (Grev. ex Desm.) Rabenh. Downy mildew of spinach. 1921 (Cotton, 1922).
- P. galligena Blum. Downy mildew of Alyssum. On A. saxatile L. - Maidenhead 18.7.52 (CP).
- P. parasitica (Fr.) Tul. Downy mildew of crucifers. On cauliflower - Reading 1927 (Peth., 1929); on Alliaria petiolata (Bieb.) Cavara & Grande - Stanford Dingley 24.5.43 (PMT - HO 1099); on Capsella bursa-pastoris (L.) Medic. - Shinfield 13.10.56 (JL 33); on cauliflower - Shinfield 21.3.58 (JL 166); on kale - Barkham 13.7.55; on stock - Winkfield 8.6.51 (CP).
- P. radii de Bary On Matricaria chamomilla L. - Sonning 18.5.60 (DS - HO 1179).
- P. schachtii Fuckel Downy mildew of sugar beet. (Peth., 1929).
- P. schleideni Unger, see P. destructor
- P. trifoliorum de Bary Downy mildew of clover. On crimson clover - 1924 (Peth., 1926); on lucerne - nr. Wantage 11.8.53 (CP).
- P. viciae (Berk.) Casp. On garden peas - 1920 (Cotton, 1922); on field peas - 1922 (Peth., 1926); on pea - Hungerford 1943 (PPL); on Vicia cracca L. - Shinfield 22.9.57 (REG 120/172).
- Phytophthora cactorum (Leb. & Cohn) Schröt. On strawberry - Wallingford 10.8.51 (CP).
- P. cryptogea Pethybr. & Laff. On tomato (root rot) - Shiplake 12.4.48; on aster (root rot) - Reading 27.5.57; on Calceolaria - Reading 6.5.57; on carnation (roots) - Woolhampton 7.6.55; on Celosia - Reading 25.6.53 (CP); on Chrysanthemum (foot rot) - 1953; on cineraria (foot rot) - 1959 (PPL); on cucumber (roots) - Woolhampton 7.6.55; on tulip (shanking) - Reading 17.1.55 (CP).
- P. erythroseptica Pethyb. Pink rot of potato. 1922 (Peth., 1926); first reported in England 1921 (see Cotton, J. Minist. Agric. 28, 1126), and in 1922 recorded only from Salop and Berks. On tulip (shanking) - Reading 17.1.55 (CP).
- P. fragariae Hickm. Red core of strawberry. Newbury 5.7.47 (CP).
- P. infestans (Mont.) de Bary Potato and tomato blight. On potato - 1920 (Cotton, 1922); Arborfield 25.8.48 (CP); on tomato - 1927 (Peth., 1929); Shinfield 12.8.58 (CP); Reading 10.11.56 (JL 60).
- P. megasperma Drechsl. On kale/rape - 1958 (PPL).
- P. parasitica Dast. On tomato - Maidenhead 11.7.47; on aster - Reading 27.5.57 (CP); on onion (shanking) - 1958 (PPL).
- P. porri Foister White tip of leek. Shinfield 13.3.57 (JL 72).
- P. richardiae Buism Root rot of arum lily. 1927 (Peth., 1929).
- P. sp. On onion (shanking) - Newbury 1949; on tulip (shanking) - 1955 (PPL).

Plasmopara pusilla (de Bary) Schröt. On Geranium pratense L. -
Wokingham 27.7.52 (CP).

Pseudoperonospora humuli (Miy. & Tak.) Wilson Downy mildew of hop.
1927 (Peth., 1929).

Pythium ultimum Trow On tomato (foot rot) - Winnersh 9.10.50; on
Antirrhinum (damping-off) - Warfield 14.2.51 (CP); on Hemerocallis
(stem rot) - 1958 (PPL).

P. sp. On sugar beet (black leg) - 1930 (Peth. et al., 1934); on
Antirrhinum (damping-off) - Warfield 1951; on cucumber (root rot) -
1959; on Freesia - 1959; on mangold (black leg) - 1954; on
Pelargonium (foot rot) - 1959 (PPL).

MUCORALES

Absidia glauca Hagem. From soil - Reading Feb. 1955 (DS 160).

Mucor ramannianus Möller From soil - Reading Feb. 1955 (DS 133).

M. sp. From soil - Reading Feb. 1955 (DS 113).

Rhizopus stolonifer (Ehrenb. ex Fr.) Lind. Reading Jul. 1959 (DS 270).

C L A S S A S C O M Y C E T E S

TAPHRINALES

Note. Several species regarded by Ramsbottom & Balfour-Browne
(1951) as belonging to Exoascus are placed here under Taphrina.

Taphrina aurea Fr., see T. populina

T. bullata (Berk.) Tul. Pear leaf blister. 1925 (Peth., 1929).

T. cerasi (Fuckel) Sadeb. Witches' broom and leaf curl of cherry.
1932 (Peth. et al., 1934).

T. deformans (Berk.) Tul. Peach leaf curl. 1927 (Peth., 1929);
Faringdon 11.6.51 (CP); on almond - Reading 2.6.57 (JL 113).

T. minor Sadeb. (? = T. cerasi) On cherry - 1927 (Peth., 1929);
Harwell 27.4.48 (CP).

T. populina Fr. (= T. aurea Fr.) Yellow leaf blister of poplar.
Bracknell 15.9.52 (CP).

MYRIANGIALES

Elsinoe veneta (Burkh.) Jenk. (= Plectodiscella veneta Burkth.; stat.
conid. Gloeosporium venetum Speg.) Cane spot of raspberry and
loganberry. On loganberry - 1926 (Peth., 1929); on raspberry
(Grove, 1937); Shinfield 29.6.43 (JPC 36).

Plectodiscella veneta Burkth., see Elsinoe veneta

DOTHIDEALES

Cymadothea trifolii Wolf (= Dothidella trifolii Bayl.-Ell. & Stansf.)
Black blotch of clover. On crimson clover and wild white clover -
1922 (Peth., 1926); on Trifolium pratense L. - Sonning 29.11.56
(REG 22/21); on T. repens L. - Windsor 4.9.58 (HO 1126).

Dothidella trifolii Bayl.-Ell. & Stansf., see Cymadothea trifolii

Phyllachora graminis (Pers. ex Fr.) Fuckel Black leaf spot of grasses.
On Dactylis glomerata L. - Shinfield 11.2.54 (GAC 4); on Agropyron caninum (L.) Beauv. - Shinfield 20.2.54 (GAC 6).

Plowrightia ribesia (Pers. ex Fr.) Sacc. Black pustule of currant.
On red currant - 1920-21 (Cotton, 1922).

ERYSIPHALES

Erysiphe cichoracearum DC. On marrow - 1922 (Peth., 1926); on Artemisia vulgaris L. - Sonning 7.11.41 (PMT - HO 1067); on Euphorbia amygdaloides L. - Shinfield 20.5.57 (AMM 20); on melon - Shinfield 13.10.56 (JL 40); on Michaelmas daisy - 1928 (Peth. et al., 1934); Shinfield 13.10.56 (JL 38); on Plantago major L. - Reading 11.10.56 (AMM 9); on Sonchus oleraceus L. - Reading 8.10.57 (AMM 60); on Taraxacum officinale agg. - Reading 27.5.58 (AMM 63); on Verbascum thapsus L. - Inkpen 7.10.42 (PMT - HO 1102).

E. galeopsidis DC. On Lamium purpureum L. - Shinfield 13.5.42 (PMT - HO 1068); on L. album L. - Shinfield 15.10.42 (PMT - HO 1076); on L. hybridum Vill. - Reading 5.5.43 (PMT - HO 1078).

E. graminis DC. On oats - 1921 (Cotton, 1922); on barley - 1930; on wheat - 1932 (Peth. et al., 1934); on Agropyron repens (L.) Beauv. - Reading 15.6.41 (PMT - HO 1051); on Alopecurus myosuroides Huds. - Shinfield 22.5.57 (AMM); on Anisantha sterilis (L.) Nevski - Sonning 24.6.54 (GAC 18); on barley - Sonning 24.6.54 (GAC 16); on Bromus mollis agg. - Reading 2.6.41 (PMT - HO 1049); on Cynosurus cristatus L. - Shinfield 5.5.57 (REG 29/120); on Dactylis glomerata L. - Reading 14.6.54 (GAC 14); on Deschampsia caespitosa (L.) Beauv. - Shinfield 16.2.57 (REG 46/31); on Festuca pratensis Huds. - Shinfield 22.5.57 (AMM 22); on Holcus lanatus L. - Sonning 14.2.57 (REG 36/25); on Hordeum murinum L. - Reading 12.6.43 (PMT - HO 1085); on Koeleria gracilis Pers. - Shinfield 26.5.54 (GAC 10); on oats - Reading 29.4.57 (REG 3/88); on Poa trivialis L. - Reading 28.5.55 (GAC 93); on rye - Shinfield 3.5.57 (REG 4/112); on Trisetum flavescens (L.) Beauv. - Shinfield 9.10.54 (GAC 78); on wheat - Bucklebury 24.5.43 (PMT - HO 1080); on Zerna ramosa (Huds.) Lindm. - Shinfield 7.5.57 (REG 105/199).

E. polygoni DC. On Brassicae - 1921 (Cotton, 1922); on Aegopodium podagraria L. - Reading 25.5.43 (PMT - HO 1081); on Anthriscus sylvestris (L.) Bernh. - Stanford Dingley 14.5.43 (PMT - HO 1083); on Anthyllis vulneraria L. - Shinfield 26.10.57 (REG 118/215); on cabbage - Shinfield 20.5.43 (H.B. Gould - HO 1084); on Delphinium

- Shinfield 4.10.41 (FMT - HO 1065); on field pea - Shinfield 22.9.57 (REG 75/170a); on kale - Grazeley 26.9.56 (CP); on Lathyrus pratensis L. - Shinfield 22.9.57 (REG 89/166); on Limonium - 1959 (PPL); on pea - 1928 (Peth. et al., 1934); on Ranunculus repens L. - Reading 8.10.57 (AMM 61); on sainfoin - 1921 (Cotton, 1922); on Trifolium dubium Sibth - Shinfield 26.10.57 (REG 119/218); on T. pratense L. - Reading 26.5.57 (REG 69/131).

E. tortilis (Wallr.) Fr. On Cornus sanguinea L. - Theale 24.5.43 (FMT - HO 1079).

Leveillula taurica (Lev.) Arn. On 'Helianthemum rhodanthe carnea' - Shinfield 10.10.47 (CP).

Oidium begoniae Putt On Begonia - 1955 (PPL).

O. chrysanthemi Rabenh. On Chrysanthemum - 1926 (Peth., 1929); Calcot 1941 (PPL).

O. sp. On carnation - 1932 (Peth. et al., 1934); on mint - 1937 (Moore, 1943); on lilac - Caversham and E. Reading 1950 (PPL); on Viola (Moore, 1959).

Phyllactinia corylea (Pers.) Karst. On Rubus fruticosus agg. - Wokingham 16.5.42 (FMT - HO 1069).

Podosphaera leucotricha (Ell. & Ev.) Salm. On apple - 1919 (Anon., 1920); Purley 27.6.50; on pear, Sotwell 6.11.52 (CP).

P. oxyacanthae (DC.) de Bary On plum - 1957 (PPL); on Crataegus oxyacanthoides Thuill. - Shinfield 22.5.57 (AMM 23).

Sphaerotheca humuli (DC.) Burr On strawberry - 1918 (Anon., 1920); Calcot 21.6.48 (CP); on Poterium sanguisorba L. - Theale ?May 1942 (FMT - HO 1070); on Epilobium montanum L. - Reading 30.5.43 (FMT - HO 1101).

S. humuli (DC.) Burr. var. fuliginea (Schlecht.) Salm. On Sonchus oleraceus L. - Shinfield 29.9.41 (FMT - HO 1064); on marigold - Woodley 22.11.58 (GO & HO - HO 1143).

S. mors-uvae (Schwein.) Berk. & Curt. On gooseberry - 1920 (Cotton, 1922); Reading ?May 1943 (M.A. Keay - HO 1082).

S. pannosa (Wallr.) Lev. On rose - Hurst 10.10.52 (CP); Shinfield 16.10.56 (JL 45).

S. pannosa (Wallr.) Lev. var. persicae Wor. On peach - 1927 (Peth., 1929).

HYPOCREALES

Claviceps purpurea (Fr.) Tul. Ergot. On wheat (Peth., 1929); on barley - Blewbury 1941 (PPL); on Dactylis glomerata L. - Reading 7.11.56 (REG 43/11); on Festuca arundinacea Schreb. - Sonning 8.11.56 (REG 26/5); on Holcus lanatus L. - Reading 28.10.56 (REG 42/1); on Lolium perenne L. - Shinfield 4.11.53 (GAC 2); on Molinia caerulea (L.) Moench. - Shinfield 26.10.57 (REG 112/209); on Phleum pratense L. - Reading 13.1.57 (REG 45/18); on rye - 1940 (Moore, 1943).

Cordyceps militaris (L. ex Fr.) Link On caterpillar - Woodley 16.11.58
(GO & HO - HO 1141).

Epichloe typhina (Pers. ex Fr.) Tul. Choke. On Dactylis glomerata L. -
nr. Wantage 7.7.52 (CP); on Agrostis stolonifera L. - Shinfield
20.5.55 (GAC 87); on Arrhenatherum elatius (L.) J. & C. Presl -
Reading 10.7.57 (REG 103/204); on Dactylis glomerata L. - Reading
25.6.54 (GAC 23); on Holcus mollis L. - Reading 20.6.57 (PEG 104/
200); on H. lanatus L. - Shinfield 1.7.54 (GAC 26); on Phleum
pratense L. - Shinfield 9.10.54 (GAC 74).

Griphosphaeria nivalis (Schaffnit) Müller & von Arx (= Fusarium nivale)
Snow mould of turf. On grasses (golf greens) (K. Sampson - Peth.
et al., 1934).

Nectria cinnabarina (Tode ex Fr.) Fr. (stat. conid. Tubercularia vulgaris
Tode) Coral spot. On red currant - 1922 (Peth., 1926); on Aesc-
culus hippocastanum L. - Shinfield 26.6.43 (JPC 30); on A. indica
Colebr. - Shinfield 18.11.56 (JL 61); on black currant - Reading
2.10.43 (JPC 33).

N. galligena Bres. (stat. conid. Cylindrocarpon mali (Allesch.) Wollenw.
= Fusarium willkommii Lind.) Canker and eye rot of apple and pear.
On apple (canker) - 1927 (Peth., 1929); (Eye rot of fruit) - 1929
(Peth. et al., 1934); Shinfield 20.11.43 (JPC 62); on pear (eye
rot of fruit) - Winnersh 11.9.51 (CP).

SPHAERIALES

Ceratostomella ulmi Buism. Dutch elm disease. On weeping elm -
Cholsey 31.8.56 (CP).

Chaetomium murorum Corda On Parapholis filiformis (Roth) C.E. Hubbard
(Germinating seed) - Reading 5.3.59 (J.F. Elston - HO 1145).

Diaporthe pernicioso Marchal On plum - 1920-21 (Cotton, 1922).

Didymella applanata (Niessl) Sacc. Spur blight of raspberry.
Reading 1942 (PPL).

D. lycopersici Kleb. Stem and fruit rot of tomato. 1925 (Peth.,
1929); Reading 1942 (PPL); Reading 10.11.56 (JL 59).

Didymellina dianthi C.C. Burr Ring spot of carnation. 1959 (PPL).

D. macrospora Kleb. (stat. conid. Heterosporium gracile Sacc.; perfect
stage not yet seen in Britain) Leaf spot of Iris, etc. On Iris -
Shinfield 26.10.42 (JPC 3); on Freesia - Wokingham 23.10.53 (CP).

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk. (stat. conid.
Gloeosporium fructigenum Berk.) Bitter rot of apple fruit.
1926 (Peth., 1929); on privet (dieback and canker of young
shoots) - Shinfield 24.9.56 (CP).

- Gnomonia erythrostoma (Pers. ex Fr.) Auersw. Leaf scorch of cherry.
1923 (Peth., 1926).
- G. leptostyla (Fr.) Ces. & de Not. Leaf blotch of walnut. 1953 (PPL).
- Mycosphaerella brassicicola (Duby) Oudem. Ring spot of Brassicae.
On broccoli - 1921 (Cotton, 1922); on Brussels sprouts - Shinfield 19.10.57 (JL); on cabbage - Reading 2.2.58 (JL 156).
- M. carinthiaca Jaap Mid-vein spot of red clover. 1923 (Peth., 1926).
- M. fragariae (Tul.) Lind. (stat. conid. Ramularia tulasnei Sacc.)
Leaf spot of strawberry. 1930 (Peth. et al., 1934); Shinfield 29.10.42 (JPC 4).
- M. pinodes (Berk. & Blox.) Vestergr. Foot rot and leaf and pod spot of pea. 1922 (Peth., 1926).
- M. sentina (Fr.) Schröb. (stat. conid. Septoria piricola Desm.) Leaf fleck of pear 1920-21 (Cotton, 1922).
- Ophiobolus graminis (Sacc.) Sacc. Take-all of cereals. On wheat - 1928 (Peth. et al., 1934); Mortimer 16.9.48; on barley - Hungerford 10.6.50 (CP).
- Physalospora obtusa (Schw.) Cooke (stat. conid. Sphaeropsis malorum Peck)
Black rot and leaf spot of apple. Shinfield 9.8.44 (JPC 90).
- Pleospora betae Björling (stat. conid. Phoma betae Frank) Black leg of sugar beet and mangold. On mangold - Mortimer 7.4.48 (CP).
- P. calvescens (Fr.) Tul. (perfect stage not yet found in Britain; stat. conid. Helminthosporium papaveris Hennig) Leaf blight of poppy. On opium poppy grown for oil-seed - Woodley 12.8.50 : first British record (W. Buddin - PPL).
- P. herbarum (Pers. ex Fr.) Rabenh. (stat. conid. Stemphylium botryosum Wallr.) On lucerne - Sonning 21.11.43 (JPC 63); on onion (decaying stem) - Reading 10.1.44 (JPC 71).
- Pyrenophora avenae Ito & Kuribay (stat. conid. Helminthosporium avenae Eidam) Leaf spot and seedling blight of oats. (Moore, 1948).
- P. graminea Ito & Kuribay (perfect stage not yet found in Britain; stat. conid. Helminthosporium gramineum Rabenh.) Leaf stripe of barley. 1931 (Peth. et al., 1934); Reading 26.5.55 (GAC 92).
- Sphaerulina rehmana Jaap (perfect stage not yet found in Britain; stat. conid. Septoria rosae Desm.) Leaf scorch of rose. 1936 (Moore, 1943).
- Sordaria destruens (Shear) Hawker On Gladiolus (leaves) - Reading Jun. 1955 (DS 174).
- Venturia inaequalis (Cooke) Wint. (stat. conid. Fusicladium dendriticum (Wallr.) Fuckel) Apple scab. Shinfield 1941 (PPL); Shinfield 2.10.43 (JPC 31).
- V. pirina Aderh (stat. conid. Fusicladium pirinum (Lib.) Fuckel) Pear scab. Perithecial stage on overwintered leaves (Peth., 1929); on fruit - Shinfield 20.10.44 (JPC 109).
- Xylaria vaporaria Berk. Invader of mushroom beds (Moore, 1943).

PHACIDIALES

Phacidium multivalve (DC. ex Fr.) Kunze & Schm. On Ilex aquifolium L.
(fallen leaves) - Caversham 4.2.52 (PMO & HO - HO 839).

Rhabdocline pseudotsugae Syd. Needle cast of Douglas fir. (Moore, 1959).

Stegia ilicis Fr. On Ilex aquifolium L. (fallen leaves) - Caversham
24.2.52 (HO 840).

HELOTIALES

Diplocarpon earlianum (Ell. & Everh.) Wolf (perfect stage not yet found
in Britain; stat. conid. Marssonina fragariae (Sacc.) Kleb.) Leaf
scorch of strawberry. 1932 (Peth. et al., 1934).

D. rosae Wolf (perfect stage not yet found in Britain; stat. conid.
Actinonema rosae (Lib.) Fr.) Black spot of rose. Reading
29.6.43 (JPC 37)

Fabraea maculata Atk. (perfect stage not yet found in Britain; stat.
conid. Entomosporium maculatum Lev.) Leaf blight and fruit spot
of quince 1932 (Peth. et al., 1934); Winnersh 29.10.47 (CP).

Neofabraea perennans Kienh. (Apothecia found in Britain 1956, see
Guthrie, E.J. (1959). Trans. Brit. mycol. Soc. 42 502-506. who
described them under Pezicula malicorticis (Jacks.) Nannf. Stat.
conid. Gloeosporium perennans Zeller & Childs) Perennial canker
and fruit rot of apple. Waltham St. Lawrence 28.11.55 (CP);
Reading 30.11.56 (JL 63)

Pezicula alba Guthrie, see Gloeosporium album
P. malicorticis (Jacks.) Nannf., see Neofabraea perennans

Pilacre pallida (Pers. ex Fr.) Boud. (= Roesleria hypogaea Thum & Pass.,
R. pallida Sacc.) On peach (roots of dead trees) - 1936 (Moore, 1943).

Pseudopeziza medicaginis (Lib.) Sacc. Leaf spot of lucerne and trefoil.
On trefoil - 1927 (Peth., 1929); on lucerne - 1953 (PPL).

P. ribis Kleb. (stat. conid. Gloeosporium ribis (Lib.) Mont. & Desm.)
Leaf spot of currant and gooseberry. On black currant - 1926; on
red currant - 1927 (Peth., 1929); on black currant - Shinfield
29.6.43 (JPC 35); on red currant - Cumnor 14.7.50; on gooseberry
- Shurlock Row 12.3.50 (CP).

P. trifolii (Fr.) Fuckel Leaf spot of clover. Newbury 21.6.52 (CP).

Roesleria hypogaea Thum & Pass., see Pilacre pallida
R. pallida Sacc., see Pilacre pallida

Sclerotinia fructigena Aderh. & Ruhl. (perfect stage not yet found in
Britain; stat. conid. Monilia fructigena Pers.) Brown rot.
On plum - 1927 (Peth., 1929); Shinfield (DS 118); on apple -

- 1944 (PPL); Shinfield (DS 117); on Malus purpurea (Barbier) Rehd. - Reading 1935 (Moore, 1959); on pear - 1929 (Peth. et al., 1934).
- S. gladioli Drayt. (stat. mycel. Sclerotium gladioli Massey) Dry rot of corms. On Gladiolus - Bracknell 15.9.52 (CP); Reading Jun. 1955 (DS 175); on Freesia - Wallingford 3.12.56 (CP).
- S. laxa Aderh. & Ruhl. (perfect stage very rare; stat. conid. Monilia cinerea Bon.) Brown rot On plum - Shinfield 13.10.43 (JPC 46).
- S. mespili Schellenb. Leaf blotch of medlar. May 1959 (PPL).
- S. narcissicola Greg. (stat. conid. Botrytis narcissicola Kleb.) Smoulder of Narcissus. Newbury 28.4.53 (CP).
- S. sclerotiorum (Lib.) de Bary On tomato - 1923 (Peth., 1926); on carrot - 1946 (PPL); Reading 4.2.58 (JL 158); on cauliflower - 1955 (PPL); on chicory (Moore, 1959); on Chrysanthemum - 1935 (Moore, 1943); on cucumber - Twyford 24.6.49; on Dahlia - Maidenhead 18.6.49; on lettuce - Wokingham 27.9.55; on tomato - Burghfield 24.5.48 (CP); on Zinnia - 1935 (Moore, 1943).
- S. trifoliorum Erikss. Clover rot. 1923 (Peth., 1926); Shinfield 1942; on broad red clover - Warfield 1945 (PPL); on late-flowering red clover - Kintbury 6.3.50 (CP); on lucerne - Theale 1944; on sainfoin - 1953 (PPL).
- S. sp. (probably S. sclerotiorum or S. trifoliorum) On field beans - 1930 (Peth. et al., 1934).

TUBERALES

- Pseudobalsamia microspora Diehl. & Lamb. Mushroom bed truffle. 1938 (Moore, 1943).

CLASS BASIDIOMYCETES

USTILAGINALES

- Entyloma calendulae (Oudem.) de Bary f. dahliae (Syd.) Viegas (= E. dahliae Syd) Dahlia smut. 1928 (Peth. et al. 1934; first British record 1927, Surrey); Maidenhead 1946 (PPL).
- E. dahliae Syd., see E. calendulae f. dahliae
- Tilletia caries (DC.) Tul. Bunt of wheat. (Peth. et al., 1934).
- Urocystis agropyri (Preuss.) Schröt. On Agropyron repens (L.) Beauv. - Bracknell 13.5.55 (GAC 84).
- U. eranthidis (Pass.) Ainsw. & Samps. Smut of winter aconite (Eranthis hyemalis (L.) Salisb.). (as U. anemones) - Shinfield 1944 (PPL); Shinfield 11.5.55 (GH - HO 982).
- Ustilago avenae (Pers.) Rostr. (= U. perennans Rostr.) Loose smut of oats and smut of tall oat grass. 1924 (Peth., 1926); Shinfield 23.5.55 (GAC 89); on Arrhenatherum elatius (L.) J. & C. Presl - Theale 14.5.43 (PMT - HO 1097).

- U. bullata Berk. Ear smut of brome grasses On B. mollis agg. -
Reading 26.5.55 (GAC 91).
- U. grandis Fr. On Phragmites communis Trin. - Shinfield 8.10.41 (HO 1091).
- U. hordei (Pers.) Lagerh. (= U. kolleri Wille). Covered smut of barley
and oats. On barley - 1923 (Peth., 1926); Hungerford 1950 (PPL);
on oats - 1924 (Peth., 1926).
- U. kolleri Wille, see U. hordei
- U. longissima (Sow. ex Schlecht.) Meyen On Glyceria fluitans (L.) R.Br. -
Reading 13.5.43 (J.O. Wright - HO 1094); on G. maxima (Hartm.) Holmb.
- Reading 19.7.52 (PMO & HO - HO 848).
- U. maydis (DC.) Corda (= U. zaeae (Beckm.) Unger) Maize smut. Nr.
Reading - 1943 (PPL).
- U. nuda (Jens.) Rostr. (= U. tritici (Pers.) Rostr.) Loose smut of
wheat and barley. On barley - 1923 (Peth., 1926); Abingdon
21.6.52 (CP); Sonning 17.6.54 (GAC 15); on wheat - Sonning 1941,
(PPL); Shinfield 22.6.57 (REG 6/136).
- U. perennans Rostr., see U. avenae
- U. striiformis (Westend.) Niessl Stripe smut of grasses. On Alopecurus pratensis L. - Shinfield 8.10.41 (PMT - HO 1090); on
Agrostis stolonifera L. - Reading 20.5.55 (GAC 88); on Dactylis glomerata L. - Sonning 24.6.54 (GAC 17); on Holcus mollis L. -
Wokingham 16.5.42 (PMT - HO 1092); on H. lanatus L. - Reading
13.5.43 (J.O. Wright - HO 1095).
- U. tritici (Pers.) Rostr., see U. nuda
- U. violacea (Pers.) Fuckel Anther smut of carnation. ?1936 (Moore,
1943); on Melandrium album (Mill.) Garcke - Reading ?May 1943
(PMT - HO 1096).
- U. zaeae (Beckm.) Unger, see U. maydis

UREDINALES

Coleosporium senecionis Fr., see C. tussilaginis

C. tussilaginis (Pers.) Lev. (= C. senecionis Fr.) On Calendula (garden
marigold) - Reading 1937 (Moore 1943); on cineraria (Senecio cruentus DC) - Warfield 18.12.53 (CP); II on Senecio leucostachys
Baker (Note: not in Wilson & Bisb., 1954) - Shinfield 11.10.48
(JMH 98); II on Senecio vulgaris L. - Shinfield 27.10.40 (HO 110);
II, III on S. vulgaris - Sonning 4.11.41 (HO 213); II, III on
Sonchus oleraceus L. - Shinfield 2.11.41 (HO 211).

Cronartium ribicola J.C. Fisch. Black currant rust. 1917 (Anon.,
1918); Windsor 1919 (Cotton, 1921); III - Shinfield 27.10.40
(HO 111).

Cumminsella mirabilissima (Peck) Nannf. Mahonia rust. O, I, II, III
on M. aquifolium (Pursh) Nutt. - Shinfield 20.5.50 (JMH 273); II,
III on M. aquifolium - Reading 26.4.42 (J.O. Wright - HO 218).

Gymnosporangium clavariiforme (Pers.) DC., see G. fuscum

G. fuscum DC. Pear rust. (as G. clavariiforme) - 1918 (Anon., 1920).

- Kuehneola uredinis (Link) Arth. Stem rust of blackberry. O, I, II
on Rubus fruticosus agg. - Wokingham 6.10.41 (B. Colson - HO 193).
- Melampsora euonymi-caprearum Kleb. On Euonymus europaeus L. - Shinfield
26.4.57 (JL 96).
- M. euphorbiae Cast. II, III on Euphorbia helioscopia L. - Shinfield
8.10.41 (HC 201); II on E. peplus L.) Reading 13.5.43 (HO 251).
- M. larici-caprearum Kleb. II on Salix caprea L. - Streatley 19.6.49
(JMH 165).
- M. tremulae Tul. Poplar rust. O, I on Mercurialis perennis L. -
Shinfield 5.5.41 (HO 141); II on Populus alba L. - Arborfield 2.5.43
(M.A. Keay - HO 254); II on P. tremula L. - Arborfield 12.10.40
(HO 101).
- Melampsorella symphyti (DC.) Bub. II on Symphytum officinale L. -
Sonning 29.4.48 (JMH 21).
- Melampsorium betulinum (Desm.) Kleb. II on Betula pubescens Ehrh. -
Arborfield 12.10.40 (HO 102).
- Phragmidium fragariastrum (DC.) Schröb. II, III on Potentilla sterilis
(L.) Garcke - Arborfield 12.6.48 (JMH 31).
- P. mucronatum (Pers.) Schlecht. Rose rust. I on Rosa sp. - Burghfield
1.6.41 (HO 153); II, III on cultivated rose - Shinfield 27.10.40
(HO 109).
- P. sanguisorbae (DC.) Schröb. O, I, II on Poterium sanguisorba L. -
nr. Basildon 23.4.49 (JMH 134).
- P. violaceum (Schultz) Wint. Blackberry rust. 1940 (Moore, 1943);
II on Rubus fruticosus agg. - Shinfield 12.5.41 (HO 147); II, III
on R. fruticosus agg. - Reading 29.10.47 (JMH 3).
- Puccinia acetosae Körn. II on Rumex acetosella L. - Reading 29.10.47
(JMH 6).
- P. adoxae Hedw. f III on Adoxa moschatellina L. - Shinfield 26.4.57
(JL 95).
- P. agropyrina Erikss. II on Agropyron repens (L.) Beauv. - Shinfield
10.11.40 (HO 122).
- P. anomala Röstr., see P. hordei
- P. antirrhini Diet. & Holw. Antirrhinum rust II, III - Shinfield
26.10.40 (HO 108).
- P. arenariae (Schum.) Wint. (= P. lychnidearum Link) On Dianthus (new
seedling varieties) - 1935 (Moore, 1943); on Melandrium sp. prob.
M. album (Mill.) Garcke - Sonning 16.11.48 (JMH 106); on Sweet
William - Reading 1950 (PPL); on Stellaria media (L.) Vill. -
Arborfield 30.4.50 (JMH 253).
- P. baryi (Berk. & Br.) Wint., see P. brachypodii
- P. betonicae DC. III on Stachys officinalis (L.) Trev. - Arborfield
29.4.42 (FMT - HO 220).
- P. brachypodii Otth (= P. baryi (Berk. & Br.) Wint.) II on Brachypodium
sylvaticum (Huds.) Beauv. - Reading 2.10.54 (GAC 67).
- P. bromina Erikss Brown rust of brome grasses. II on Bromus arvensis
L. - Shinfield 30.10.48 (JMH 91); II, III on Anisantha sterilis (L.)

- Nevski - Sonning 22.5.49 (JMH 160); II on Bromus mollis agg. - Arborfield 28.5.49 (JMH 163).
- P. caricina DC. (= P. caricis Reb., P. pringsheimiana Kleb.) Gooseberry cluster-cup rust On gooseberry - 1929 (Peth. et al., 1934); O, I - Reading 5.5.50 (JMH 257); O, I on Urtica dioica L. - Reading 8.6.41 (HO 153); II, III on Carex caespitosa L. - Theale 12.11.41 (HO 214); II, III on C. hirta L. - Burghfield 1.10.41 (HO 184).
- P. caricis Reb., see P. caricina
- P. centaureae DC. II on Centaurea nigra L. - Arborfield 30.4.50 (JMH 256).
- P. chrysanthemi Roze Chrysanthemum rust 1922 (Peth., 1926); II - Shinfield 25.11.40 (HO 125).
- P. cnici H. Mart. On Cirsium vulgare (Savi) Ten. - Reading 1.6.57 (JL 111).
- P. coronata Corda Crown rust of oats and grasses. I on Rhamnus cathartica L. - Theale 26.6.41 (HO 164); II, III on Agrostis stolonifera L. - Mortimer 21.6.48 (JMH 40); II on Alopecurus pratensis L. - Shinfield 8.10.41 (HO 199); II on Arrhenatherum elatius (L.) J. & C. Presl - Reading 6.11.40 (HO 115); II, III on Festuca pratensis Huds. - Shinfield 9.10.54 (GAC 79, 80); II on Holcus mollis L. - Shinfield 9.10.54 (GAC 76); II, III on H. lanatus L. - Reading 29.10.47 (JMH 2); II, III on Lolium multiflorum Lam. - Shinfield 4.10.41 (HO 190); III on L. perenne L. - Shinfield 10.11.40 (HO 121); II on oats - Sonning 14.10.41 (HO 206).
- P. cyani Pass. Rust of cornflower. II, III - Woodley 25.6.56 (GH & HO - HO 1034).
- P. dispersa Erikss. & Henn. (= P. secalina Grove) Brown rust of rye. 1920-21 (Cotton 1922); II on rye - Shinfield 10.5.50 (JMH 262).
- P. festucae Plowr II on Festuca heterophylla Lam. - Shinfield 8.10.41 (HO 197).
- P. glechomatis DC. III on Glechoma hederacea L. - Reading 2.11.41 (T.M. Harris - HO 212).
- P. glumarum Erikss. & Henn. Yellow rust of cereals. On wheat - 1931 (Peth. et al., 1934); II on wheat - Stanford Dingley 10.6.42 (HO 225); II, III on wheat - Shinfield 11.7.51 (HO 788); III on Agropyron caninum (L.) Beauv. - Shinfield 20.2.54 (GAC 7); III on Dactylis glomerata L. - Shinfield 11.2.54 (GAC 3); II on Zerna ramosa (Huds.) Lindm. - Shinfield 30.10.48 (JMH 92).
- P. graminis Pers. Black stem rust of cereals. On oats - 1925 (Peth., 1929); on wheat (Peth. et al., 1934); II on wheat - Sonning 30.7.51 (HO 794); II on Agrostis tenuis Sibth. - Arborfield 20.6.48 (JMH 39); on Anisantha sterilis (L.) Nevski - Reading 14.5.57 (REG 90/128); II, III on Dactylis glomerata L. - Shinfield 10.11.40 (HO 119).
- P. graminis Pers. f. sp. phlei-pratensis (Erikss. & Henn.) Stakm. & Piem. II on Phleum pratense L. - Shinfield 20.11.49 (JMH 245).
- P. holcina Erikss. II on Holcus lanatus L. - Shinfield 22.3.43 (J.O. Wright - HO 249).
- P. hordei Otth (= P. anomala Rostr., P. simplex (Wint.) Erikss. & Henn.) Brown rust of barley. 1923 (Peth., 1926); II - Sonning 29.10.41 (HO 210); II, III - Shinfield 9.7.51 (HO 785).
- P. hypochaeridis Oudem. On Hypochaeris radicata L. - Reading 28.5.57 (AMM. 26).

- P. hysteriorum Röhrl. (= P. tragopogonis Corda) O, I on Tragopogon pratensis L. - Sonning 15.5.50 (JMH 269).
- P. iridis Rabenh. Iris rust. 1926 (Peth., 1929).
- P. lapsanae Fuckel O, I, II on Lapsana communis L. - Reading 26.4.42 (T.M. Harris - HO 219).
- P. lychnidearum Link. see P. arenariae
- P. malvacearum Mont Hollyhock rust. III - Reading 28.10.40 (HO 112); III on Malva moschata L. - Arborfield 30.4.50 (JMH 255); III on M. sylvestris L. - Shinfield 12.5.41 (D.H. Maggs - HO 146).
- P. menthae Pers. Mint rust. O, I on garden mint - Reading 5.5.41 (T.M. Harris - HO 140); II, III on Mentha aquatica L. - Theale 12.11.41 (HO 215).
- P. oblongata (Link) Wint. II on Luzula pilosa (L.) Willd. - Mortimer 21.6.48 (JMH 41); II on L. campestris (L.) DC. - Finchampstead 11.6.52 (PMO & HO - HO 845).
- P. obscura Schröt. II on Luzula campestris (L.) DC. - Reading 9 5.49 (JMH 145).
- P. obtegens Tul. ex Fuckel O on Cirsium arvense (L.) Scop. - Shinfield 1.6.41 (HO 152); III on C. arvense - Shinfield 10.11.40 (HO 120).
- P. perplexans Plowr. III on Alopecurus pratensis L. - Sonning 9.10.49 (JMH 241).
- P. phragmitis (Schum.) Körn. O, I on Rumex obtusifolius L. - Arborfield 22.5.49 (JMH 156); III on Phragmites communis Trin. - Arborfield 22.5.49 (JMH 157).
- P. poae-nemoralis Oth II on Anthoxanthum odoratum L. - Sonning 31.4.49 (JMH 142).
- P. poarum Niels. II on Poa compressa L. - Shinfield 8.10.41 (HO 194); II on P. annua L. - Reading 13.11.48 (JMH 102); II on P. palustris L. - Shinfield 8.10.41 (HO 195); II on P. pratensis L. - Shinfield 8.10.41 (HO 194); II on P. trivialis L. - Reading 4.5.49 (JMH 143); II, III on P. nemoralis L. - Shinfield 1.6.50 (JMH 278). (Note: P. compressa and P. palustris are not mentioned as hosts of this rust by Wilson & Bisby 1954.)
- P. polygoni-amphibii Pers. II, III on Polygonum amphibium L. - Caversham 12.10.50 (HO 752); II, III on P. convolvulus L. - Sonning 3.10.51 (HO 830).
- P. porri Wint. Onion and leek rust. On onion - nr. Reading 1935 (Moore, 1943); II on onion x leek - Shinfield 18.10.42 (HO 244); II on leek - Reading 23.3.43 (HO 250); II on chives - Shinfield 5.5.48 (JMH 25).
- P. pringsheimiana Kleb., see P. caricina
- P. pruni-spinosae Pers., see Tranzschelia pruni-spinosae
- P. pulverulenta Grev. O, I on Epilobium hirsutum L. - Reading 8.6.41 (HO 157); O, I, II, III on E. hirsutum - Shinfield 13.6.42 (HO 227); II on E. montanum L. - Reading 7.7.52 (PMO & HO - HO 847).
- P. saniculae Grev. II, III on Sanicula europaea L. - Bradfield 21.11.48 (JMH 111).
- P. secalina Grove, see P. dispersa
- P. sessilis Schneid. O, I on Arum maculatum L. - Sindlesham 30.4.50 (JMH 252); III on Phalaris arundinacea L. - Maidenhead 23.11.40 (HO 124)
- P. simplex (Wint.) Erikss. & Henn., see P. hordei

- P. sorghi Schw. Maize rust. Reading 1943 (PPL); II, III - Reading 6.10.49 (T.M. Harris - JMH 240). (Note: only uredospores are recorded by Wilson & Bisby, 1954.)
- P. taraxaci Plowr II on Taraxacum officinale agg. - Theale 26.6.41 (HO 163); II, III on T. officinale - Reading 29.10.47 (JMH 4).
- P. tragonogonis Corda, see P. hystereum.
- P. triseti Erikss. II, III on Trisetum flavescens (L.) Beauv - Sonning 22.6.49 (JMH 167).
- P. triticina Erikss. Brown rust of wheat. (Peth. et al., 1934). II - Sonning 14.10.41 (HO 207).
- P. valantiae Pers. III on Galium cruciata (L.) Scop. - Shinfield 17.1.58 (HO 1112).
- P. variabilis Grev. I on Taraxacum officinale agg. - Cockpole Green 17.3.49 (JMH 125).
- P. veronicae Schröt. On Veronica montana L. - Shinfield 10.5.57 (AMM 17).
- P. vincae Berk. Periwinkle rust. (Rare) II, III on Vinca major L. - Streatley 26.5.53 (C.B.F. Smith - J.T. Fletcher 47 - HO 996).
- P. violae DC. Violet rust. O, I on Viola riviniana Reichb. - Shinfield 5.5.41 (D.H. Maggs - HO 144); III on V. riviniana - Windsor 4.9.58 (HO 1123).
- Pucciniastrum agrimoniae Tranz II on Agrimonia eupatoria L. - Shinfield 11.10.42 (HO 243).
- P. epilobii Otth II on Chamaenerion angustifolium (L.) Scop. - Windsor 4.9.58 (HO 1124).
- Tranzschelia anemones (Pers.) Nannf. O, III on Anemone nemorosa L. - Arborfield 25 4.42 (HO 216).
- T. pruni-spinosae (Pers.) Diet. On plum - 1920 (Cotton, 1922); III on plum - Shinfield 18.10.42 (HO 245).
- Triphragmium ulmariae (DC.) Link I on Filipendula ulmariae (L.) Maxim. - Cothill 27.6.41 (HO 166); III on F. ulmariae - Woodley 12.10.53 (J.T. Fletcher 107 - HO 994).
- Uromyces acetosae Schröt. (Aecidial stage uncommon) O, I, II on Rumex acetosa L. - Reading 14.6.48 (JMH 35a).
- U. betae (Pers.) Lev. Beet and mangold rust. On mangold, sugar beet and spinach beet - 1921 (Cotton, 1922); on garden beet (Peth., 1929); on mangold - Sonning 3.11.42 (J.O. Wright - HO 248).
- U. dactylidis Otth (= U. poae Rabenh.) O, I on Ranunculus ficaria L. - Shinfield 12.5.41 (HO 145); O, I on R. acris L. - Burghfield 4.5.60 (F.W. Barker - HO 1174); O, I on R. bulbosus L. - Sonning 29.4.48 (JMH 22); II, III on Dactylis glomerata L. - Burghfield 1.10.41 (HO 185); II on Poa compressa L., P. palustris L., P. pratensis L., P. trivialis L. - Shinfield 9.10.54 (GAC 72, 70, 69, 71). (Note: P. compressa and P. palustris are not mentioned as hosts of this rust by Wilson & Bisby, 1954.)
- U. dianthi (Pers.) Niessl Carnation rust. II III - Shinfield 13.11.40 (HO 123).

- U. fabae de Bary Bean rust. On field and broad beans - 1931 (Peth. et al., 1934); on Lathyrus pratensis L. - Shinfield 22.9.57 (AMM 51).
U. flectens Lagerh III on Trifolium repens L. - Reading 19.6.41 (HO 161).
U. onobrychidis (Desm.) Lev. II on Onobrychis viciifolia Scop. - Shinfield 20.11.49 (JMH 246).
U. poae Rabenh., see U. dactylidis
U. rumicis (Schum.) Wint. II, III on Rumex patientia L. (cultivated sorrel) - Shinfield 4.7.50 (HO 740).
U. scillarum (Grev.) Wint. III on Endymion non-scriptus (L.) Garcke - Arborfield 8.5.48 (JMH 26).
U. valeriana Fuckel II on Valeriana officinale L. - Woodley 12.6.58 (HO 1116).

Xenodochus carbonarius Schlecht. I on Sanguisorba officinalis L. - Burghfield 1.6.41 (G.F. Mattingley - HO 154).

TREMELLALES

Helicobasidium purpureum Pat. (stat. mycel. Rhizoctonia crocorum DC. = R. violacea Tul.) Violet root rot. On potato - 1920-21 (Cotton, 1922); on alsike clover - Reading 1924 (Peth., 1926); on carnation - Kingstanding 1934 (Moore, 1943); on carrot - Longworth 3.11.55; on mangold and sugar beet - Kintbury 8.11.50; on potato - Wargrave 9.9.48 (CP); on Phlox (new host record) - 1932 (Peth. et al., 1934).

Iterosonilia perplexans Derx Parsnip canker and flower scorch of Chrysanthemum. On parsnip - Grazeley 25.11.56 (CP); Shinfield 13.3.57 (JL 69); on Chrysanthemum - 1958 (PPL).

EXOBASIDIALES

Exobasidium vaccinii (Fuckel) Wor. On Azalea (imported plants) - Binfield 18 2.49 (CP).

AGARICALES

Armillaria mellea (Vahl) Fr. Armillaria root rot. On lilac (Peth. et al., 1934); on apple - Mortimer 13.8.52; on black currant - Mortimer 10.5.50; on gage - Ashampstead 15.10.53; on lilac - Wallingford 4.11.53; on pear - Sotwell 6.11.52 (CP); on plum - 1953; on quince - 1955; on raspberry - 1959 (PPL); on walnut - 1938 (Moore, 1943); on weeping willow - 1958; on Wistaria - Reading 1958 (PPL).

Collybia velutipes (Curt. ex Fr.) Quel Stem toadstool of red currant. 1921 (Cotton 1922).

Corticium fuciforme (Berk.) Wakef. Red thread of turf grasses. 1930 (Peth. et al., 1934).

C. solani (Prill. & Delacr.) Bourd. & Galz. (= Pellicularia filamentosa (Pat.) Rogers; stat. mycel. Rhizoctonia solani Kühn) On Antirrhinum (damping off) - 1925 (Peth., 1929); on barley (sharp eyespot) - nr.

Wantage 28.7.53 (CP); on bean (Vicia) (root rot) - Ascot 1949 (PPL); on cauliflower (wire stem) - Longworth 13.2.56 (CP); on Dahlia - 1934 (Moore, 1943); on Iris - Jun. 1956 (DS 193); on radish (canker) - nr. Wokingham 1948; on Ranunculus (ornamental) (damping off) - Wallingford 1951 (PPL); on rape (damping off) (Moore, 1959); on Zinnia (damping off) - 1934 (Moore, 1943).

Pellicularia filamentosa (Pat.) Rogers, see Corticium solani

Stereum purpureum (Fr.) Fr. Silver leaf. On apple and red currant - 1920-21 (Cotton, 1922); on black and red currant - 1922 (Peth., 1926); on apple - Maidenhead 1941 (PPL); on cherry - 1929 (Peth. et al., 1934); on gooseberry - 1925 (Peth., 1929); on plum - Burghfield 13.9.51 (CP); on Prunus triloba Lindl. - 1953 (PPL).

F U N G I I M P E R F E C T I

SPHAEROPSIDALES

- Aposphaeria agminalis Sacc On Corylus avellana L. (stem) - Reading 21.8.44 (JPC 92).
- A. violacea Bert. (= Phoma pigmentivora Masee) On paint - Ascot (DS 156).
- Ascochyta bohémica Kab. & Bub. Leaf spot of Campanula. On 'C. betulae-folia' and C. raineri Perp. - Maidenhead 1939: first British record (Moore, 1943; Moore, 1959).
- A. dahliicola (Brun.) Petr. Leaf spot of Dahlia. (Uncommon) 1937 (Moore, 1943).
- A. fabae Speg. Leaf spot of broad and field beans. (Grove, 1935).
- A. graminicola Sacc. On Zerna ramosa (Huds.) Lindm. - Shinfield 9.7.51 (HO 784).
- A. imperfecta Peck Black stem of lucerne. On trefoil - Newbury 26.3.49; on lucerne - Pusey 6.4.49 (CP).
- A. phaseolorum Sacc. Blotch of runner bean. (Rare) 1930 (Peth. et al., 1934).
- A. pisi Lib. Leaf and pod spot of field and garden pea. Shinfield 10.9.44 (JPC 118).
- A. scabiosae Rabenh. Leaf spot of scabious. Shinfield 5.10.50, Hurst 16.10.50: first British record (CP).
- Camarosporium ambiens (Cooke) Grove On Acer saccharinum L. (= A. dasycarpum Ehrh.) - Shinfield (E.M. Wakefield - Grove, 1937).
- C. karsteni Sacc. & Syd. On apple - Reading (W. Buddin - Grove, 1937).
- C. propinquum Sacc. On Corylus (W. Buddin - Grove, 1937).
- Coniothyrium concentricum (Desm.) Sacc Leaf spot of Agave. On Yucca sp. - Reading 19.5.44 (JPC 77).
- Cytospora sp. On peach (dieback) - 1931 (Peth. et al., 1934); on apple (twigs, associated with papery bark) - Mortimer 10.4.48 (CP).

Dilophospora alopecuri (Fr.) Fr. Twist of wheat. On Dactylis glomerata L. - Shinfield 23.5.55 (GAC 90).

Diplodina ?delphinii Lask. Stem rot of Delphinium. On larkspur - Wash Common 24.6.53 (CP).

Dothichiza populea Sacc. & Briard Canker and dieback of poplar (Moore, 1959).

Gloeodes pomigena (Schw.) Colby Sooty blotch of apple. 1958 (PPL).

Heteropatella antirrhini Buddin & Wakef. (= Cercospora antirrhini Wakef., Pseudodiscosia antirrhini (Wakef.) Buddin & Wakef.) Shot hole of Antirrhinum. 1922 (Peth., 1926); Reading (Grove, 1937).

H. dianthi Buddin & Wakef., see H. valtellinensis

H. valtellinensis (Trav.) Wollerw. (= H. dianthi Buddin & Wakef., Pseudodiscosia dianthi Hösterm. & Laub.) Leaf rot of carnation. On pinks - Bucklebury 1927 (W. Buddin - Peth., 1929); on carnation (Grove, 1937); Shinfield 13.10.56 (JL 36).

Leptothyrium pomi (Mont. & Fr.) Sacc. Fly speck of apple and pear fruit. On apple - 1917 (Anon., 1918).

Phoma apiicola Kleb. Root rot of celery. Reading (Grove, 1935).

P. betae Frank. see Pleospora betae

P. destructiva Plowr Fruit rot of tomato. 1932 (Peth. et al., 1934); Reading 2.12.44 (JPC 117).

P. foveata Foister (According to Malcolmson, J.F (1958). Trans. Brit. mycol. Soc. 41 413-418, P. foveata together with P. tuberosa Melh. et al., should be included in P. solanicola Prill. & Delacr.) Gangrene of potato. Newbury 15.4.47 (CP).

P. lavandulae Gabot. Lavender shab. (Moore 1943); Reading 12.11.44 (JPC 111).

P. lingam (Fr.) Desm Dry rot and canker of turnip and swede, canker of Brassicae On swede - Shinfield 3.12.44 (JPC 116); on spring cabbage - Aldermaston 1946 (PPL).

P. pigmentivora Masee, see Aposphaeria violacea

P. solanicola Prill. & Delacr., see P. foveata

P. ?tuberosa Melh. et al. Phoma rot of potato. 1924 (Peth., 1926).

P. sp. On potato, apparently causing spotting of haulm - Streatley 1941 (W. Buddin & I.F. Storey - PPL); on eggplant - 1945 (Moore, 1959); on Limonium (foot rot) - Cholsey 1934 (Moore, 1943; Moore, 1959).

Phomopsis cinerascens (Sacc.) Trav. Fig canker. 1925 (Peth., 1929); Shinfield (W Buddin & E.M. Wakefield - Grove, 1935).

P. incarcerata Höhnell On rose - ?1925 (Peth., 1929); Reading (Grove, 1935).

P. sp. Associated with foot rot of statice (Limonium) - Cholsey 1934 (Moore, 1943; Moore, 1959).

Phyllosticta antirrhini Syd. Stem rot of Antirrhinum. 1923 (Gdnr's Chron. 76 150 (1924); Peth., 1926; Grove, 1935).

- P. forsythiae Sacc. Leaf spot of Forsythia. (Rarely recorded)
1937 (Moore, 1943; Moore, 1959).
- P. primulicola Desm. Leaf spot of Primula. On polyanthus - Nov.
1959: 2nd British record (PPL).
- P. violae Desm. Leaf spot of violet. 1932 (Peth. et al., 1934).
- Selenophoma donacis (Pass.) Sprague & A.G. Johnson (= Septoria oxyspora
Penz. & Sacc.) Halo spot of barley and grasses. On Phleum
pratense L. - Shinfield 25.6.54 (GAC 24).
- Septoria apii Chester Leaf spot of celery. (?)1918 (Anon., 1920);
(?)Reading 1922 (Peth., 1926); see S. apii-graveolentis.
- S. apii-graveolentis Dorogin Leaf spot of celery. Until about 1940
this disease was always attributed in Britain to S. apii but
both species are concerned, and S. apii-graveolentis is much the
more common (Moore, 1959). Ascot 6.11.52 (CP); Shinfield
19.10.57 (JL 140).
- S. chrysanthemella Sacc Blotch of Chrysanthemum. Reading 1945
(W. Buddin - PPL).
- S. dianthi Desm On carnation 1930 (Peth. et al., 1934); Reading
(Grove, 1935).
- S. drummondii Ell. & Everh. On Phlox - 1925 (Peth., 1929); on
P. drummondii Hook. - Reading (W. Buddin - Grove 1935).
- S. graminum Desm. see S. tritici
- S. helenii Ell. & Everh. Leaf spot of Helenium. Twyford 1949:
4th British record (W. Buddin - PPL).
- S. lavandulae Desm. Leaf spot of lavender. Shinfield 11.8.44 (JPC 91).
- S. leucanthemi Sacc. & Speg. On Chrysanthemum - Faringdon 1949 (PPL).
- S. lobeliae Peck Leaf blotch of Lobelia. On L. siphilitica L
'var. nana' - Maidenhead 1939 (Moore, 1959).
- S. ?obscura Trail On Campanula raineri Perp. - Maidenhead 1939 (Moore,
W.C. (1940). Trans. Brit. mycol. Soc. 24. 59; Moore, 1943; Moore,
1959).
- S. oxyspora Penz. & Sacc., see Selenophoma donacis
- S. petroselinii Desm. Leaf spot of parsley. (Grove, 1935).
- S. piricola Desm., see Mycosphaerella sentina
- S. rosae Desm., see Sphaerulina rehmanniana
- S. rubi Westend. Septoria spot of blackberry. On Rubus fruticosus
agg. - Streatley 2 6.44 (JPC 79).
- S. tritici Rob. & Desm. (= S. graminum Desm.) Leaf spot of wheat.
1923 (Peth., 1926); Aldworth 5.8.44 (JPC 84).
- Sphaeropsis malorum Berk., see Physalospora obtusa
- Stagonospora compta (Sacc.) Died., see S. meliloti
- S. curtisii (Berk) Sacc. Leaf scorch of Narcissus. Moultsford
19.4.52 (CP).
- S. meliloti (Lasch.) Petr. (= S. compta (Sacc.) Died.) Leaf spot of
clover. On Trifolium repens L. - Reading (Grove, 1935).
- S. sp. Red fire disease of Hippeastrum. Reading 1957 (PPL).
- Wojnowicia graminis (McAlp.) Sacc. On wheat - Reading (Grove, 1937).

MELANCONIALES

Actinonema rosae (Lib.) Fr., see Diplocarpon rosae

Colletotrichum atramentarium (Berk. & Br.) Taubenh. Black dot of potato and tomato. On potato - 1941 (W. Buddin - PPL); on tomato - nr Wokingham 27.5.53 (CP).

C. lindemuthianum (Sacc. & Magn.) Bri. & Cav. Anthracnose of dwarf bean. 1932 (Peth. et al., 1934); Reading 5.8.44 (JPC 85).

C. phomoides (Sacc.) Chester Ripe rot of tomato. (Rare) 1941: 2nd British record (Moore, 1943); Reading 2.12.44 (JPC 119).

C. trifolii Bain & Essary Anthracnose of lucerne. 1957 (PPL).

Cryptosporium minimum Laub. Black blotch of rose. Reading (Grove, 1937).

Entomosporium maculatum Lév., see Fabraea maculata

Gloeosporium album Osterw. (Apothecia found in Britain 1956, see Guthrie, E.J. (1959). Trans. Brit. mycol. Soc. 42 502-506, who described them under Pezicula alba sp. nov.) Bitter rot of apple, fruit rot of pear and quince. On apple - 1926 (Peth., 1929); on 'Pyrus communis, P. malus, P. cydonia' - Reading (Grove, 1937); on apple - Reading Mar. 1955 (DS 170-172); Shinfield 22.1.59 (JL G21 - HO 1165).

G. concentricum (Fr.) Berk. & Br. Light leaf spot of Brassicaceae. 1928 (Peth. et al., 1934).

G. fructigenum Berk., see Glomerella cingulata

G. musarum Cooke & Massee Banana anthracnose. On imported banana fruit - Reading 5.2.51 (PMO - HO 755).

G. perennans Zeller & Childs, see Neofabraea perennans

G. ribis (Lib.) Mont. & Desm., see Pseudopeziza ribis

G. rosarum (Pass.) Grove see Sphaceloma rosarum

G. tiliae Oudem. Leaf spot of lime. Reading 14.11.44 (JPC 112).

G. venetum Speg., see Elsinoe veneta

G. veronicorum Ces On Veronica agrestis L. - Shinfield 25.3.43 (JPC 19).

G. sp. On tomato fruit, causing spot - 1941 (W. Buddin & I.F. Storey - PPL).

Marssonina fragariae (Sacc.) Kleb., see Diplocarpon earlianum

M. panattoniana (Berl.) Magn. Ring spot of lettuce. 1930 (Peth. et al., 1934); Wallingford 17.5.51 (CP).

Pestalotia annulata Berk. & Curt. 'Recorded on dead leaves of Ilex aquifolium, Sept. 1879, from Hermitage, Berkshire, by Rev. J.E. Vize (Trans. Wool. Club) n.v.' (Grove, 1937).

P. gracilis Kleb. On Saxifraga oppositifolia L. - Maidenhead 12.10.53 (CP).

Pseudodiscosia antirrhini (Wakef.) Buddin & Wakef., see Heteropatella antirrhini

P. dianthi Høsterm. & Laub., see Heteropatella valtellinensis

Septogloeum oxysporum Bomm., Rouss. & Sacc. On Arrhenatherum elatius (L.) J. & C. Presl - Reading 10.9.51 (HO 826).

Sphaceloma rosarum (Pass.) Jenk. (= Glocosporium rosarum) Leaf spot of rose. 1926 (Peth. et al., 1934).

MONILIALES

Acrostalagmus cinnabarinus Corda On dead stem - Reading 21.8.44 (JPC 95); on Dahlia (tuber) - Woodley 23.5.59 (GO - HC 1151).

Alternaria brassicae (Berk.) Sacc. Dark leaf spot of Brassicæ. On turnip - Shinfield 29.10.42 (JPC 53); on Brussels sprouts - Shinfield 19.10.57 (JL 146); on cauliflower - Shinfield 19.10.57 (JL 148).

A. brassicicola (Schwein.) Wiltsh. Dark leaf spot of Brassicæ. On cauliflower - 1957 (PPL); on cabbage - Reading 2.2.53 (JL 157).

A. citri Pierce On orange (fruit) - Reading Jan. 1956 (DS 183).

A. dianthi Stev. & Hall Leaf spot of carnation. 1959 (PPL).

A. solani (Ell. & Mart.) Sor. Alternaria blight of tomato - Shinfield 1947 (DS 88).

A. tenuis auct. On Lunaria annua L. - Shinfield 7.10.43 (JPC 42); from soil - Reading Feb. 1956 (DS 184); on Solanum nigrum L. - Reading Jan. 1959 (DS 264); on tomato (fruit) - Reading 20.6.50 (W.B. Brierley - HO 739).

A. zinniae Pape Leaf spot and seedling blight of Zinnia. Reading 19.11.49 (CP).

A. sp. On ornamental gourd - Reading (DS 87).

Arthrobotrys oligospora Fres On mangolds attacked by Ditylenchus (= Anguillulina) dipsaci (Kuhn) (this fungus traps nematodes) - West Hendred 20.11.48 (CP).

Aspergillus fumigatus Fres. From soil - Shinfield (DS 40).

A. niger van Tiegh. sens. lat. On Anthriscus sylvestris (L.) Bernh. - Sonning 10.10.44 (JPC 104); on onion - Reading 12.1.51 (RMO - HO 753).

A. repens (Corda) de Bary On jam cover - Reading Sep. 1954 (DS 13); from soil - Reading Feb. 1955 (DS 32).

A. ruber (Bremer) Thom & Church On marmalade cover - Reading Aug. 1954 (DS 23, 24).

A. ustus (Bain.) Thom & Church On Eranthis hyemalis (L.) Salisb. (seed) - Reading Feb. 1955 (GH - DS 43).

A. versicolor (Vuill.) Tirab. From soil - Reading 1953 (DS 30).

A. spp. Mushroom bed invaders - Shinfield 13.2.47 (CP).

Botrytis allii Munn. Neck rot of onion. Reading 1941 (W. Buddin - PPL); Shinfield 20.11.43 (JPC 60).

B. cinerea Pers. On gooseberry (dieback) - 1920-21 (Cotton, 1922); on Antirrhinum (seedlings) - 1926 (Peth., 1929); on apple (rot of stored fruit) - 1939 (Moore, 1943); on Astrantia - Reading Jun. 1955 (DS 112); on Brussels sprouts - Reading 1941 (W. Buddin & I.F. Storey - PPL); Shinfield 13.3.57 (JL 70); on cabbage (heart rot) - Kingston Bagpuize 26.1.49 (CP); on cauliflower - 1955 (PPL); on Chrysanthemum (foliage) - 1927 (Peth., 1929); (causing heavy

- loss of blooms) - Shinfield 1941 (W. Buddin & I.F. Storey - PPL); (stem rot) - 1959 (PPL); on Dahlia - Shinfield 13.10.56 (JL 41); on field beans (chocolate spot) - Wantage 1941 (W. Buddin - PPL); Shinfield (DS 95-101); on grapes - Reading (DS 104); on Iris (flower spotting) - Warfield 15.5.56; on larkspur (basal rot) - Wash Common 24.6.53 (CP); on lettuce - Emmbrook 1942 (W. Buddin & I.F. Storey - PPL); Reading 10.11.56 (JL 58); on Limonium - 1936 (Moore, 1943); on mangold (roots) - Brightwell 1942 (W. Buddin & I.F. Storey - PPL; Moore, 1943); on ornamental gourd - Reading Mar. 1955 (DS 110); on paeony (flower buds) - Woodley 27.6.58 (GO & HO - HO 1118); on peach (fruit) - Shinfield 21.10.56 (JL 56); on potato (causing severe loss of haulm in shaded, over-manured crop) - 1930 (Peth. et al., 1934); (haulm) - Sonning 4.3.44 (JPC 76); on raspberry (fruit) - 1932 (Peth. et al., 1934); (cane lesions) - 1953 (PPL); on rhubarb - Shinfield 27.9.58 (JL 192); on Rubus fruticosus agg. (fruit) - Windsor 4.9.58 (HO 1127); on runner beans - Shinfield 19.10.57 (JL 142); on soya bean (stem rot) - Reading Apr. 1957 (DS 256); on strawberry (fruit) - 1950 (PPL); on tomato - 1923 (Peth., 1926); (calyx rot of fruit) - Henley 24.5.51 (CP).
- B. elliptica (Berk.) Cooke Lily disease. 1926 (Peth., 1929); on Lilium candidum L. - Ascot 10.6.53; on L. pardalinum Kell. var. giganteum Hort. - Wantage 14.8.56 (CP).
- B. fabae Sard. Chocolate spot of field and broad bean. 1946 (W. Buddin - PPL); on field winter beans - Cox Green 13.3.52 (CP).
- B. gladiolorum Timmerm. Botrytis rot of Gladiolus. 1954 (PPL); Shinfield (DS 109).
- B. narcissicola Kleb., see Sclerotinia narcissicola
- B. squamosa Walker Leaf rot of onion. Calcot 1950 (PPL); Shinfield 31.10.57 (JL 151).
- B. tulipae (Lib.) Lind Tulip fire. 1925 (Peth., 1929); Faringdon 14.4.49 (CP); Shinfield 1.5.58 (HO 1114).
- B. sp. On Anemone - Faringdon 3.3.52; on Cyclamen - Faringdon 9.10.52 (CP); on Gladiolus (leaf spot) - 1953 (PPL); on haricot beans (grey mould of pods) - 1941 (W. Buddin - PPL); on Narcissus - Reading 8.2.55 (GH - HO 1009); on onion - 1922 (Peth., 1926); on Pyrethrum - Appleton 1943 (PPL); on spring cabbage - 1941 (W. Buddin - PPL); on tomato (fruit) - Littlewick Green 12.8.50 (CP).
- Cephalosporium sp. On Michaelmas daisy - Wokingham 22.7.52 (CP).
- Ceratophorum setosum Kirchn., see Pleiochaeta setosa
- Cercospora beticola Sacc. Leaf spot of sugar beet. 1928 (Peth. et al., 1934); on sugar beet and mangold - Shinfield 29.10.42 (JPC 5).
- C. cantuariensis Salm. & Worm. Leaf spot of hop. (Rare) 1927 (Moore, 1959).
- C. fabae Fautr., see C. zonata
- C. zonata Wint. (= C. fabae Fautr.) Leaf spot of broad and field bean. Enborne 1947 (W. Buddin - PPL).
- C. sp. On Viola - 1937 (Moore, 1943; Moore, 1959).
- Cercospora brassicae (Fautr. & Roum.) Höhnelt White spot of turnip and swede. On turnip - Shinfield 19.10.57 (JL 141).

C. herpotrichoides Fron. Eyespot of cereals. On wheat - Hungerford and Wantage 1941 (W. Buddin - PPL); Sonning 30.7.51 (HO 795); on barley - Hampstead Norris 15.7.55 (CP).

Cladosporium cucumerinum Ell. & Arth. Gummosis of cucumber. Cookham Dean 2.9.53 (CP).

C. fulvum Cooke Leaf mould of tomato. 1924 (Peth., 1926); Reading 20.10.42 (JPC 8).

C. herbarum (Pers.) Link ex Fr. On Iris - Shinfield 3.11.42 (JPC 9); on maize - Reading 10.10.43 (JPC 44); on shoe cream - Reading 31.5.58 (L.E. Cobb - HO 1117).

Clasterosporium carpophilum (Lév) Aderh. Shot-hole of peach cherry, nectarine and almond. On cherry - 1931 (Peth. et al., 1934).

Coniothecium chromatospurum Corda On apple (fruit spotting and rot) - nr. Reading 1923 (Peth., 1926).

Cylindrocarpon mali (Allesch.) Wollenw., see Nectria galligena
C. sp. On Chrysanthemum (root rot) - Shinfield 4.2.55 (HO 968-972).

Cylindrocolla urticae (Pers. ex Fr.) Bon. On Urtica dioica L. (dead stems) - Sonning 22.3.51 (HO 759).

Dactylium sp. On mushroom - Hurley 25.7.50 (CP).

Dendryphium comosum Wallr. On dead stem (Umbellifer) - Reading 2.12.43 (JPC 64).

Dictyosporium elegans Corda On wheat stubble - Lambourn Woodlands 12.11.52 (CP).

Dimorphospora foliicola Tub. (= Fluminispora ovalis Ingold) On submerged decaying leaves of deciduous trees from stream - Reading (Ingold, C.T. (1958). Trans. Brit. mycol. Soc. 41, 369, 412.).

Fluminispora ovalis Ingold see Dimorphospora foliicola

Fusarium avenaceum (Fr) Sacc. Brown foot rot of cereals. On barley - Newbury 21.9.56 (CP).

F. bulbigenum Cooke & Masee, see F. oxysporum f. narcissi
F. bulbigenum Cooke & Masee var. lycopersici (Brushi) Wollenw. & Reink.; see F. oxysporum f. lycopersici

F. caeruleum (Lib.) Sacc. Dry rot of potato. 1913 (Anon., 1920); Shinfield 18.2.43 (JPC 17).

F. conglutinans Wollenw. var. callistephi Beach, see F. oxysporum f. callistephi

F. culmorum (W.G. Sm.) Sacc. On carnation (stem rot) - Shinfield 26.2.44 (JPC 75); on wheat (ears) - Shinfield Jul. 1956 (DS 199).

F. dianthi Prill. & Delacr., see F. oxysporum f. dianthi

F. equiseti (Corda) Sacc On tomato (fruit) - Reading 12.11.43 (JPC 56).

F. nivale (Fr.) Ces., see Griphosphaeria nivalis

- F. oxysporum Fr. f. callistephi (Beach) Snyder & Hans. (= F. oxysporum Wollenw. var. callistephi Beach) Wilt of China aster. Shinfield (DS 140).
- F. oxysporum Fr. f. dianthi (Prill. & Delacr.) Snyder & Hans. (= F. dianthi Prill. & Delacr.) Fusarium wilt of carnation. (Moore, 1943); Shinfield 31.7.47 (CP).
- F. oxysporum Fr. f. gladioli (Mass.) Snyder & Hans. Fusarium yellows and corm rot of Gladiolus. In Dutch consignments - 1954 (PPL).
- F. oxysporum Fr. f. lycopersici (Sacc.) Snyder & Hans. (= F. bulbigenum Cooke & Massee var. lycopersici (Brushi) Wollenw. & Reink.) Fusarium wilt of tomato. 1934 (Moore, 1943); Shinfield (DS 136-139).
- F. oxysporum Fr. f. narcissi Snyder & Hans. (= F. bulbigenum Cooke & Massee) Basal rot of Narcissus. Newbury 29.9.47 (CP).
- F. willkommii Lind, see Nectria galligena
- F. sp. On carnation - Arborfield 23.1.57 (CP); on Chrysanthemum (root rot) - Shinfield 9.2.55 (HO 974-976); on Gerbera - Shinfield (DS 141-144); on Iris (roots) - Jun. 1956 (DS 194, 195); on Narcissus - Reading 8 2.55 (GH - HO 1008); on pea (foot rot) - 1953 (PPL); from soil - Reading Feb. 1956 (DS 186); on Tigridia (corms, causing dry rot) - 1930; on wheat (ear blight) (Peth. et al., 1934).

Fusicladium dendriticum (Wallr.) Fuckel, see Venturia inaequalis
F. pirinum (Lib) Fuckel, see Venturia pirina

Gliocladium roseum (Link) Bain. On Chrysanthemum (root rot) - Shinfield 9.2.55 (HO 973).

Gonatobotrys flava Bon. On Raphanus raphanistrum L. and Sinapis alba L. (dead stems) - Shinfield 14.11.42 (JPC 12); on mangold (dead stem) - Shinfield 7 10.43 (JPC 45).

Helminthosporium avenae Eidam, see Pyrenophora avenae
H. cylindricum Corda On dead stems (Umbellifer) - Sonning 7.6.44 (JPC 80)
H. gramineum Rabenh., see Pyrenophora graminea
H. papaveris Hennig, see Pleospora calvescens

Heterosporium gracile Sacc., see Didymellina macrospora

Hymenula rubella Fr. On parsnip - Reading 27.10.44 (JPC 110).

Kebatiella caulivora (Kirchn.) Karak. Scorch of red clover. On late-flowering red clover - Bradfield 3.8.44 (JPC 88); on Trifolium repens L. (Note: not recorded to occur naturally on T. repens (see Moore, 1959)) - Shinfield Sep. 1944 (JPC 105).

Mastigosporium album Riess Leaf fleck of meadow foxtail. On Alopecurus pratensis L. - Reading 28.5.55 (GAC 94).

M. rubricosum (Dearn. & Barth.) Sprague Leaf fleck of cocksfoot. On Dactylis glomerata L. - Shinfield 2.10.43 (JPC 34).

Monilia cinerea Bon. see Sclerotinia laxa
M. fructigena Pers., see Sclerotinia fructigena

Mycogone perniciosa Magn. White mould of mushroom. Wokingham
1.10.47 (CP).

M. rosea Link ex Chev. On mushroom - Arborfield 1938: first
British record (Moore, 1943).

Myrothecium roridum Tode ex Fr. On Viola sp. - 1939 (Moore, 1943);
on Freesia - 1959; on tomato - Winkfield 1949 (PPL).

M. verrucaria (Alb. & Schw.) Ditm. On tomato - Pangbourne 21.6.50 (CP).

Paecilomyces fumosoroseus (Wize) Brown & Smith On larvae of Clostera
pigra Hufn. - Reading 4.10.58 (B.R. Baker - HO 1144).

Passalora graminis (Fuckel) Höhnelt (= Scolecotrichum graminis Fuckel)
On Cynosurus cristatus L. - Shinfield 20.5.55 (GAC 86).

Penicillium corylophilum Dierckx From soil - Shinfield 1954 (DS 48).

P. cyclopium Westl. On Iris tingitana Boiss. & Reut. (bulb) - Reading
Mar. 1955 (DS 44).

P. digitatum Sacc. Blue mould of orange. Reading Jan. 1956 (DS 168).

P. diversum Raper & Fennell var. aureum Raper & Fennell From soil -
Shinfield 1954 (DS 77).

P. expansum Link emend. Thom On tomato (fruit) - Reading 20.10.43
(JPC 23).

P. gladioli Machacek On Gladiolus (corm) - Reading Apr. 1954 (DS 46).

P. italicum Wehm. Green mould of Citrus. On orange - Reading
22.11.42 (JPC 13); on lemon - Reading Jan. 1956 (DS 169); on
grapefruit - Reading May 1959 (DS 267).

P. janthinellum Blourge Culture contaminant (DS 261).

P. luteum Zukal From soil - Reading Feb. 1956 (DS 185).

P. rugulosum Thom From soil - Shinfield 1954 (DS 76).

P. simplicissimum (Oudem.) Thom From soil - Mortimer 1954 (DS 47).

P. spinulosum Thom From soil - Mortimer 1954 (DS 49).

P. thomii Maire On wheat (grain) - Reading Oct. 1954 (DS 45).

P. verruculosum Peyronel From soil - Shinfield 1954 (DS 78).

P. sp. On hyacinth (flower rotting) - 1955 (PPL); in 10% copper
sulphate solution - Reading 3.6.55 (HO 1010); on waterglass -
Reading Oct. 1955 (DS 167).

Pleiochaeta setosa (Kirchn.) Hughes (= Ceratophorum setosum Kirchn.)
Leaf spot of lupin. 1936 (Moore, 1943).

Pycnostysanus azaleae (Peck) Mason Leaf scorch and bud blast of
Rhododendron. Ascot 18.5.54 (CP); Reading 13.3.57 (JL 167).

Ramularia armoraciae Fuckel Pale spot of horse-radish. 1927 (Peth.,
1929); Shinfield 29.10.42 (JPC 2).

R. barbareae Peck On Barbarea vulgaris R.Br. - Shinfield 17.2.45
(JPC 123).

R. beticola Fautr. & Lamb. Ramularia leaf spot of beet. On sugar
beet - 1928 (Peth. et al., 1934); Moultsford 1941 (W. Buddin - PPL).

R. plantaginis Ell. & Mart. On Plantago media L. - Shinfield 7.10.43
(JPC 41).

- R. pratensis Sacc. On Rumex crispus L. - Caversham 3.11.42 (JPC 7);
on R. obtusifolius L. - Shinfield 12.11.42 (JPC 6).
- R. taraxaci Karst. On Taraxacum officinale agg. - Shinfield 29.10.43
(JPC 59).
- R. tulasnei Sacc., see Mycosphaerella fragariae
- Rhynchosporium orthosporum Caldw. Leaf blotch of cocksfoot. On
Dactylis glomerata L. - Shinfield 1.5.51: first British record
(HO 764).
- R. secalis (Oudem.) J.J. Davis Leaf blotch of barley and rye.
On barley (Peth., 1929); 'on fading leaves of Secale cereale,
Hordeum, Bromus and Dactylis' (Grove, 1937: the record on Dactylis
would doubtless be referable to R. orthosporum); on barley -
Sonning 4.5.44 (JPC 78); on Agropyron repens (L.) Beauv. -
Reading 8.6.51 (HO 771); on Hordeum murinum L. - Reading
28.5.51 (HO 770).
- Scolecotrichum graminis Fuckel, see Passalora graminis
- Stechybotrys atra Corda On damp filter paper - Reading 31.1.51 (HO 754).
- S. dichroa Grove On Anthriscus sylvestris (L.) Bernh. (dead stem) -
Sonning 15.10.44 (JPC 107).
- Stemphylium botryosum Wallr., see Pleospora herbarum
- S. sarciniiforme (Cav.) Wiltsh. Ring spot of red clover. On Trifolium
pratense L. - Shinfield 20.10.43 (JPC 51).
- S. sp. On parsley (seed) - Reading 25.2.52 (HO 961).
- Stysanus stemonites (Pers. ex Fr.) Corda On Rumex hydrolapathum Huds.
(dead stem) - Burghfield 22.11.42 (JPC 1).
- Thielaviopsis basicola (Berk. & Br.) Ferraris Black root rot. On
tomato - 1945 (W. Buddin - PPL); on cucumber - Winnersh 20.9.49;
on Phlox - Twyford 26.8.52; on polyanthus - Twyford 4.2.54; on
tomato - Calcot 10.8.51 (CP).
- Trichoderma viride Pers. ex Fr. On Gladiolus (corm) - Reading Apr. 1954
(DS 157); on field bean (roots) - Shinfield Mar. 1955 (DS 130).
- Trichothecium roseum Link ex Fr. On tomato (fruit) - Reading 20.10.43
(JPC 49); on apple and pear (fruit) - Bucklebury 27.1.50 (CP).
- Tubercularia vulgaris Tode ex Fr., see Nectria cinnabarina
- Verticillium albo-atrum Reinke & Berth. On tomato - 1938 (Moore, 1943);
Winkfield 1941 (W. Buddin - PPL); Shinfield 5.10.43 (JPC 39); on
Berberis sp. - 1958 (PPL); on Campanula isophylla Mor. - 1939
(Moore, 1943).
- V. cinerescens Wollenw. Carnation wilt. (Moore, 1943); Cholsey
6.9.48 (CP).
- V. dahliae Kleb. On melon - Burghfield 21.7.48; on Antirrhinum -
Reading 30.7.52; on Chrysanthemum maximum Ram - Bracknell 14.7.53;

on cucumber - Reading 28.6.50 (CP); on Delphinium - 1958 (PPL);
on lupin - Twyford 10.6.53 (CP); on Michaelmas daisy - 1958 (PPL);
on rose - Reading 9.9.50; on strawberry - Faringdon 6.10.48; on
tomato - Shinfield 10.6.49 (CP).

V. nigrescens Pethyb. On tomato - Wokingham 5.5.50 (CP).

V. nubilum Pethyb. On potato (tuber) - Cunnor Nov. 1951 (CP).

V. vilmorinii Gueg) Westend. & van Luijk Wilt of Michaelmas daisy.
Twyford 5.9.50 (CP).

V. sp. On cucumber - Pangbourne 15.6.47; on China aster - Winnersh
14.7.50; on Chrysanthemum - Reading 22.7.47; on lucerne -
Hungerford 29.11.55 (CP); on melon - Binfield 1948 (PPL); on
Michaelmas daisy - Twyford 26.8.52; on Phlox - Twyford 26.8.52 (CP);
on strawberry - 1953 (PPL); on tomato - Faringdon 6.7.51 (CP).

MYCELIA STERILIA

Papulaspora byssina Hots. Brown plaster mould of mushroom beds.
Newbury 28.7.49 (CP).

Rhizoctonia crocorum DC., see Helicobasidium purpureum

R. solani Kühn. see Corticium solani

R. violacea Tul. see Helicobasidium purpureum

R. sp. On Antirrhinum, Ceanothus, Daphne, lilac, Magnolia and privet
- 1958 (PPL).

Sclerotium cepivorum Berk. White rot of onion leek and shallot.

On onion - 1918 (Anon., 1920); Sandhurst 1942 (PPL); Shinfield
31.5.57 (JL 110); on leek - Holyport 1950; on potato onion
Jul. 1959 (PPL).

S. gladioli Massey, see Sclerotinia gladioli

S. tuliparum Kleb. Grey bulb rot of flower bulbs. On tulip - 1926
(Peth., 1929); on Iris - 1958 (PPL).



