

The Fungous Flora of Manitoba II.

G.R. Bisby, A.H.R. Buller, and John Dearness

"The Fungi of Manitoba", published in 1929, listed 1,969 species of fungi exclusive of dermatophytes. The first supplement in the Canadian Plant Disease Survey Report (hereafter referred to as "P.D.S.") for 1931 recorded the addition of 142 species. This, the second supplement, adds 289 species and varieties making a total of 2,400 known in the province on Nov. 1, 1933. There are, in addition, several fungi attacking man and some of the higher animals. Dr. A.M. Davidson's preliminary list, pages 145-146 of the book, listed 20 such fungi. A revised list of fungi on man only, listing 9 species, is given in Can. Jour. Res. 7:233-235, 1932, by Drs. Davidson and Gregory.

This list follows the style of the preceding. Species marked "(n)" require further study. When no locality is given, the fungus either was found near Winnipeg, or is a soil or butter fungus in which exact locality is not known to be important. The writers are glad to acknowledge the help of experts with various species, in particular that of Dr. Irene Mounce, and of Drs. W.L. Gordon, J.E. Machacek, and other members of the Dominion Rust Research Laboratory.

The only correction of previous lists particularly requiring mention is the reference "Dasyschypha (n) Willkommii" on Pinus, P.D.S. '31, p. 109. While this fungus is morphologically somewhat like D. Willkommii, it is certainly not that injurious species of Europe.

Three publications are cited with certain species. These are:

1. G.R. Bisby, N. James and M. Timonin. Fungi isolated from Manitoba soil by the plate method. Can. Jour. Res. 8:253-275. 1933.
2. G.R. Bisby, M.C. Jamieson and M. Timonin. The fungi found in butter. Ibid. 9:97-107. 1933.
3. Eleanor Silver Dowding. Gelasinospora, a new genus of Pyrenomycetes with pitted spores. Ibid. 9:294-305. 1933.

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51. Myxococcus (n) ruber Baur. On dung.  
Membranosorus Heterantherae Ost. & Pet. On Heteranthera dubia, Lake of the Woods (Zeitschr. Bot. 23:13. 1930)  
Arcyria ferruginea Sauter. On Populus.  
A. nutans (Bull.) Grev. On wood, Victoria Beach.  
Cienkowskia reticulata (A. & S.) Rost. On wood.
52. Didymium anellus Morg. On old sunflower leaves (A. Brown).  
D. xanthopus (Ditm.) Fr. On wood.
53. Physarum (n) galbeum Wing. On bark of Populus.  
Stemonitis ferruginea var. violacea Meyl. On leaves.
54. Trichia favoginea (Batsch) Pers. On wood. Keewatin.
55. Saprolegnia parasitica Coker. On goldfish (P.H. Gregory).
56. Plasmopara Geranii (Pk.) Berl. & de T. On Geranium maculatum, Berens River.  
P. pygmaea (Unger) Schroet. On Anemone canadensis, Cowan (J. E. Machacek).  
Pythium deBaryanum var. Pelargonii H. Braun. On Pelargonium (det. T.C. Vanterpool).  
Absidia glauca Hagem. In soil (1:257).  
A. Orchidis (Vuill.) Hagem. In soil (1:257).  
A. spinosa Lindner. In soil and butter (1:257; 2:100).  
Cunninghamella verticillata Paine. In butter (2:100)  
Mortierella isabellina Oud. var. ramifica Dixon-Stewart. In soil (1:257).  
Mucor (n) abundans Povah. In soil (1:257).  
M. circinelloides van Tiegh. In butter (2:102) and debris.  
M. dispersus Hagem. In soil (1:257).  
M. hiemalis Wehm. In soil (1:257).  
M. spinosus Lindner. In flour, etc., in a bakery.  
M. (n) sylvaticus Hagem. In soil (1:257).  
Pilobolus umbonatus Buller in MS. On dung.
57. Rhizopus Cohnii Berl. & de T. In lung of chicken.  
R. elegans Eidam. In soil and butter (1:257; 2:103).  
R. nodosus Namysl. In butter (2:103).  
Syncephalastrum racemosum Cohn. In soil (1:257).  
Syncephalis nodosus van Tiegh. On Pilobolus, etc.  
Zygorhynchus heterogamus Vuill. In soil (1:257).  
Z. (n) Moelleri Auct. Amer. In soil (1:258).
58. Taphrina ?Alni-incanae (Kuehn) Magn. On alder catkins.  
Trichoglossum tetrasporum Sind. & Fitzp. Kenora (M. Timonin).

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59. Ascophanus argenteus (Curr.) Boud. On dung.  
Patella abundans (Karst.) Seaver. On burnt places,  
Clear Lake.
60. Peziza fimenti (Fckl.) Seaver. On dung.
62. Ciboria caucus (Rebent.) Fckl. On poplar catkins.  
Godronia (n) urceolus (A.&S.) Karst. On Ribes.  
Mollisia caesia (Fckl.) Sacc. On Symphoricarpos.  
Orbilina (n) coccinella (Somff.) Fr. On wood.
63. Pezizella inquilina (Karst.) Rehm. On Equisetum, Berens  
River.  
Clithris lactea (C. & P.) E. & E. On Ledum. Berens River.
64. Sphaeropezia Vaccinii Rehm. Form on bear-berry, Victoria  
Beach.
65. Hysteroglyphium (n) nova-caesariense (Ell.) Roum. Berens River
66. Lophodermium sphaerioides (A. & S.) Duby. On Ledum, Berens  
River.  
Mytilidion Thujarum (C. & P.) Lohman. On Thuja, E. Man.
67. Acrospermum compressum Tode. On old grass.
69. Elsince Ledi (Pk.) Zeller. On Ledum, Vivian.  
Chaetomium (n) funicola Cke. In soil (1:258).  
C. olivaceum C. & E. In soil.  
C. setosum Wint. In butter (2:101).  
C. (n) spirale Zopf. In soil. (1:258)  
C. spirochaete Palliser. On old paper.  
Delitschia furfuracea Niessl. On dung, Long Point (Coll.  
Wm. Güssow, det. S. Dowding).
70. Fimetaria discospora (Auersw.) G. & S. On dung, Long Point.  
Wm. Güssow)  
F. funicola Cke. In dung culture.  
F. leucoplaca (B. & Rav.) G. & S. On dung, Victoria Beach.  
Gelasinospora cerealis Dowding (3). Cereal roots (J. E.  
Machacek)  
G. tetrasperma Dowding (3). On dung, near Churchill (Wm.  
Güssow)  
Pleurae erostrata D. Griff. On dung.  
Sporormia fasciculata Jensen. In soil (1:258)  
Acanthostigma (n) Clintoni Pk. On Populus.  
A. (n) dispar Merg. On Populus.  
A. microsporon Karst. Form on old wood.

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71. Calosphaeria exilis E.&E. On Populus.  
Teichospora fulgurata E.&E. Old wood.
73. Didymella lophospora Sacc. & Speg. On Vitis.  
Leptosphaeria (n) culmorum Awd. On grass, Berens River.  
L. (n) mesoedema (B. & C.) E.&E. On old stems (J. E. Machacek).
74. Metasphaeria Polygoni-sagittati (Schw.) E. & E. On Polygonum.  
Ophiobolus (n) anguillides (Cke.) Sacc. On Heracleum.
75. Phomatospora Rosae Rehm. On Rosa.
76. Anthostomella (n) pholidigena (Ell.) E. & E. On Thuja,  
E. Man.
78. Melanconis marginalis (Pk.) Wehmeyer. On Alnus, E. Man.  
M. thelebola (Fr.) Sacc. On Alnus, Berens River.
79. Diatrypella placenta Rehm. On Alnus, Berens River.
80. Sporobolomyces salmonicolor Kluyv. & van Niel.
81. Cintractia subinclusa (Koern.) Magn. On Carex atherodes.  
Doassansia Sagittariae (Westend.) Fisch. Poplar Point.
82. Coleosporium Viburni Arth. On V. Lentago.  
Gymnosporangium Nelsoni Arth. On Amelanchier, Victoria Beach.
83. Melampsoropsis Cassandrae (Pk. & Clint.) Arth. On Chamaedaphne calyculata, Berens River.
85. Puccinia intermixta Pk. On Iva axillaris, Hamiota.  
P. Iridis (DC.) Rab. On Iris, West Hawk Lake, E. Man.
87. Pucciniastrum Potentillae Kom. On Sibbaldiopsis, E. Man.  
P. sparsum (Wint.) Ed. Fisch. Churchill ('32 P.D.S. report, p. 100).  
Uromyces plumbarius Pk. On Gaura coccinea. Wawanesa (H. Groh).  
Platyglöea fimicola Schroet. On dung.
88. Sebacina incrustans (Pers.) Fckl. On ground.
89. Corticium laeve Pers. On Pyrus Malus.

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89. Corticium pelliculare Karst. On Ulmus.  
Cyphella galeata (Schum.) Fr. On moss. Vivian.  
C. (n) trachychaeta E. & E. On oak leaves.  
Hymenochaete agglutinans Ell. On branches.
90. H. corrugata (Fr.) Lév. On wood.  
Hypochnus subferrugineus Burt. On burnt wood.
91. Stereum sanguinolentum Alb. & Schw. On a conifer, E. Man.
93. Hydnum (n) spadiceum Pers. Ingolf.
94. Fistulina hepatica (Huds.) Fr. On oak, Headingly (Dr. W. J. Grant).
95. Polyporus guttulatus Pk. On wood, Bird's Hill.  
P. nidulans Fr. On Viburnum.
96. P. vulgaris (Fr.) Cke. On wood.
97. Trametes malicola B. & C. On Populus.  
T. suaveolens (L.) Fr. On Salix.  
Boletinus paluster Pk. In muskeg, Kenora.
99. Collybia atrata Fr. On burnt places, Clear Lake.
103. Lepiota americana Pk. Not uncommon in 1933.  
Marasmius (n) erythropus Fr. Clear Lake.  
Mycena atroalba Fr. Amongst moss.  
M. crystallina Pk. On mossy bark.  
M. cyaneobasis Pk. On wood or debris.
104. Omphalia (n) umbratilis Fr. On burnt places, Clear Lake.  
Pleurotus fimbriatus Fr. var. regularis Kauff. Victoria Beach.
106. Tricholoma fuligineum Pk. Clear Lake.
107. Eccilia (n) mordax Atk. Vivian.  
Entoloma jubatum Fr. Ingolf.
109. Cortinarius badius Pk. Clear Lake.
110. Galera cyanopes Kauff. Victoria Beach.  
G. (n) flava Pk. On the ground.
111. Hebeloma mesophaeum Fr. In sandy woods, Beausejour.

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111. Hebeloma simile Kauff. Clear Lake.
112. Naucoria tabacina Fr. In grassy woods, Victoria Beach.  
Pholiota (n) mycenoides Fr. In moss, Clear Lake.
113. Tubaria (n) pellucida (Bull.) Fr. In deciduous woods.
114. Psalliota silvatica Fr. Berens River.  
Psilocybe (n) spadicea Fr. Ingolf.
115. Coprinus apthosus Fr. On wood in a cellar.
122. Acrostalagmus albus var. varius Jensen. In soil.  
Alternaria tenuis Nees. In soil and butter (1:265; 2:100).  
Aspergillus flavipes (Bain. & Sart.) Thom & Church. In soil and butter (1:259; 2:101).  
A. flavus Link. In soil and butter (1:259; 2:101).  
A. insuetus (Bain.) Thom & Church. In cereal roots (J. E. Machacek).  
A. (n) nidulans (Eid.) Wint. In butter (2:101).  
A. Okazakii Okazaki. In soil (1:259).  
A. repens (Cda.) deBary & Wor. On damp tobacco.  
A. Sydowi (Bain. & Sart.) Thom & Church. In flour and soil.  
A. ustus (Bain.) Thom & Church. In soil and butter (1:259; 2:101).  
A. versicolor (Vuill.) Tirab. In soil (1:259).
123. Botryotrichum atrogriseum van Beyma. In soil (1:265)  
B. piluliferum Sacc. & March. In soil (1:265).  
Botrytis terrestris Jensen. In soil (1:260).  
B. Tulipae (Lib.) Lind. On tulips from Ontario.  
Cephalosporium acremonium Cda. In soil and butter (1:260; 2:101).  
C. (n) curtipes Sacc. In soil (1:260).  
C. humicola Oud. In soil (1:260).  
Cercospora Bizzozzeriana Sacc. & Berl. On Lepidium Draba, Brandon.
124. C. illinoensis Barth. On Asclepias syriaca.  
C. Ziziae E. & E. On Zizia cordata. Bird's Hill.
125. Cladosporium Paeoniae Pass. On cultivated Paeonia.  
C. (n) stercorarium Cda. On rabbit dung.  
Coniosporium arundinis (Cda.) Sacc. In soil and butter (1:266; 2:101).
126. Cylindrocarpon candidum (Link) Wollenw. In soil (1:260).  
C. candidum var. majus Wollenw. In soil (1:260).

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126. Cylindrocarpon didymum (Hart.) Wollenw. In soil (1:260).  
C. (n) heteronemum (B. & Br.) Wollenw. In soil (1:260).  
C. macrosporum (Fres.) Wollenw. In soil (1:260).  
Fusarium arthrosporioides Sherb. In cereal roots (W. L. Gordon).  
F. (n) bulbigenum Cke. & Mass. In butter (2:101).  
F. culmorum var. cereale (Cke.) Wollenw. In soil (1:261) and roots.  
F. dimerum Penz. In butter (2:101).  
F. Equiseti (Cda.) Sacc. In soil (1:261) and roots.  
F. Equiseti var. bullatum (Sherb.) Wollenw. In cereal roots.  
F. herbarum (Cda.) Fr. From cereal roots (W. L. Gordon).  
F. herbarum var. avanaceum (Fr.) Wollenw. In soil (1:261).  
F. ossicolum (B. & C.) Sacc. (F. Equiseti form 1). In soil.  
F. oxysporum var. aurantiacum (Cda.) Wollenw. In soil.  
F. Poae (Pk.) Wollenw. In soil, butter (1:261; 2:101) and roots.  
F. reticulatum Mont. In soil (1:261)  
F. sambucinum Fekl. In soil (1:261)  
F. Scirpi Lamb. & Faut. In soil (1:261)  
F. Scirpi var. acuminatum (E. & E.) Wollenw. In soil (1:261).  
F. Scirpi var. filiferum (Preuss) Wollenw. From cereal roots.  
F. Solani var. Martii (App. & Wollenw.) Wollenw. In soil (1:261)  
F. sporotrichioides Sherb. In soil (1:261).  
F. trichothecioides Wollenw. In decayed potato tubers. (W.L. Gordon)  
F. vasinfectum Atk. In soil (1:261).  
F. vasinfectum var. lutulatum (Sherb.) Wollenw. In soil (1:261).  
F. vasinfectum var. zonatum (Sherb.) Wollenw. In soil (1:261).
127. Geotrichum candidum Link. In soil and butter (1:261; 2:101).  
Gliocladium atrum Gilm. & Abb. In soil (1:262).  
G. catenulum Gilm. & Abb. In soil (1:262).  
G. penicilloides Cda. In soil (1:262).  
G. roseum (Link) Bain. In soil (1:262) and cereal roots.  
Haplographium (n) bicolor Grove. On old wood.  
Helicoma monilipes Ell. & Johnson. On old wood (I. Mounce).  
Helminthosporium geniculatum Tracy & Earle. In soil and roots (J. E. Machacek).

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127. Helminthosporium tetramera McKinney. In cereal roots (J. E. Machacek).  
H. torulosum (Syd.) Ashby. In cereal roots (J. E. Machacek).
128. Hormodendron (n) viride (Fres.) Sacc. In soil.  
Hyalopus (n) ochraceus Cda. On bark of Populus.  
Hymenula affinis (Faut. & Lam.) Wollenw. In soil and butter (1:262; 2:102).  
Lemonniera aquatica de Wild. In water.  
Monilia (n) geophila Oud. In soil (1:262).  
M. implicata Gilm. & Abb. In soil.  
Monotospora Daleae Mason. In soil (1:266 as Mycogone).  
Myrioconium comitatum J.J. Davis, stage of Sclerotium bifrons.  
Oedocephalum (n) beticola Oud. On paper.  
Ovularia avicularis Pk. On Polygonum erectum.  
Pachybasium pyramidale (Bonord.) Oud. On grass.  
Paecilomyces aureo-cinnamomeum (Biourge) Thom. In butter (2:102).  
P. varioti Bain. In butter (2:102).  
Pedilospora parasitans v. Hoehn. On old wood.  
Penicillium albidum Sopp. In soil (1:262).  
P. atramentosum Thom. In butter (2:102).  
P. aurantio-brunneum Dierckx. In soil and butter (1:262; 2:102).  
P. brazilense Thom. In soil (1:262).  
P. breviscompactum Dierckx. In butter (2:102).  
P. canescens Sopp. In soil (1:262).  
P. carmino-violaceum Dierckx. In soil (1:263).  
P. chrysogenum Thom. In soil and butter (1:263; 2:102).  
P. (n) citreo-sulfuratum Biourge. In flour.  
P. (n) cyclopium Westl. In butter (2:102).  
P. Dierckxii Biourge. In soil.  
P. (n) Duclauxi Delac. In soil (1:263).
129. P. frequentans Westl. In soil (1:263).  
P. funiculosum Thom. In soil (1:263).  
P. Gladioli McCull. & Thom. On Gladiolus corms.  
P. griseo-roseum Dierckx. In soil (1:263).  
P. (n) griseum Sopp. In butter (2:102).  
P. guttulosum Abbott. In soil.  
P. (n) Herquei B. & S. In soil.  
P. implicatum Biourge. In butter (2:102).  
P. intricatum Thom. In soil (1:263).  
P. janthinellum Biourge. In soil (1:263).  
P. Johannoli Zal. In butter (2:102).  
P. Kapuscinskii Zal. In soil (1:263).  
P. lanosum Westl. In butter (2:102).



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129. P. lilacinum Thom. In soil (1:263).  
P. luteum Zukal. In soil (1:263).  
P. Martensii Biourge. In butter (2:102).  
P. nigricans Bain. in Thom. In soil.  
P. oxalicum Currie & Thom. In butter (2:102).  
P. purpurogenum Stoll. In soil and butter (1:263; 2:103).  
P. purpurrescens Sopp. In soil and butter (1:263; 2:103).  
P. restrictum Gilm. & Abb. In soil and butter (1:263; 2:103).  
P. roqueforti Thom. In butter (2:103).  
P. rugulosum Thom. In soil and butter (1:264; 2:103).  
P. rugulosum var. atricolum (Bain.) Thom. In soil (1:264).  
P. sanguineum Sopp. In butter (2:103).  
P. simplicissimum (Oud.) Thom. In soil (1:264).  
P. spinulosum Thom. In soil and butter (1:264; 2:103).  
P. tardum Thom. In soil.  
P. terrestre Jensen. In soil and butter (1:264; 2:103).  
P. Thomii Maire. In soil (1:264).  
P. Thomi Zal. In soil.  
P. variabile Sopp. In soil (1:264).  
P. (n) verrucosum Dierckx. In flour.  
P. viridicatum Westl. In soil and butter (1:264; 2:103).  
Ramularia Impatientis Pk. On Impatiens, Berens River.
130. R. variegata Ell. & Holw. On Petasites. Victoria Beach.  
Rhinotrichum (n) griseum Sacc. On old wood.  
Sclerotium compactum Tode. On leaves.  
S. deciduum J.J. Davis. On stems.
131. Scopulariopsis brevicaulis (Sacc.) Bain. In soil (1:264),  
and very common on spoiled sweet clover.  
S. rufulus Bain. In soil (1:265).  
Sporotrichum roseum Link. In soil and butter (1:265; 2:103).  
Tetracladium marchalianum de Wild. In water.  
Torula convoluta Harz. In soil (1:266).  
Trichocladium asperum Harz. In soil (1:266).  
Trichoderma album Preuss. In soil (1:265).  
T. glaucum Abbott. In soil (1:265).  
Trinacrium (n) mycogonis Tassi. On wood.  
T. (n) subtile Riess. On stems.  
Tuberculina persicina (Ditm.) Sacc. On rusts.  
Verticillium (n) glaucum Bonord. In soil (1:265).  
V. (n) terrestre (Link) Sacc. In soil (1:265).
133. Cylindrosporium Smilacis E. & E. On Vagnera.
134. Libertella acerina West. On Acer Negundo.  
L. betulina Desm. On Betula, Victoria Beach.

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135. Ascochyta teretiuscula Sacc. & Roum. On Carex, Vivian.  
Botryophoma populicola Karst. On Populus.
136. Camarosporium umbonatum Brenckle. On Symphoricarpos.  
Chaetomella (n) atra Fckl. On old wood.
137. Hendersonia arundinacea (Desm.) Sacc. On Phragmites,  
 Berens River.  
Mastomyces Friesii Mont. On Ribes.  
Phoma hibernica Grimes, O'C., & Cum. In butter (2:103).
138. Phoma nebulosa (Pers.) Berk. On old stems.  
P. (n) Paeoniae Allesch. On Paeonia.
140. Septoria Apii var. graveolentis Dorog. On celery.
141. S. Brunellae E. & H. On Prunella, Vivian.
142. S. Menyanthis (Lib.) Desm. On Menyanthes, Gimli.
144. Sphaeronema (n) spinella Kalch. In soil.
145. Stagonospora Petasitidis E. & E. On Petasites, Victoria  
 Beach.

Appendix

The following fungi have been found upon plants or plant parts imported into Winnipeg.

- Alternaria Citri Pierce. On orange (J. E. Machacek).  
Gloeosporium Musarum Cke. Common on ripe banana "peel".  
Phomopsis Citri Fawcett. On grape-fruit (J. E. Machacek).  
Puccinia Ornithogali-thyroidis Diet. On Ornithogalum  
?lacteum grown from bulbs from South Africa.