

VII. DISEASES OF MISCELLANEOUS PLANTS

Some 400 specimens, which were added to the Mycological Herbarium, Division of Botany, Ottawa, in the past year, are reported here or in the preceding sections. To reduce the number of entries in this section, all specimens of fungi parasitic on cultivated plants and collected in 1934 are reported in their proper place in the preceding sections, the accession number of each specimen being given. Thus, specimens of Tilletia foetens collected on Triticum aestivum are reported under wheat bunt (p.2) All other records supported by specimens in this Herbarium are reported in this section and are indicated by an asterisk (*). In addition many records of miscellaneous diseases unsupported by specimens are also reported below. The principal contributors and the areas, in which they collected, were: G.E. Woolliams, Okanagan valley, B.C.; M.W. Cormack, Alberta; R.C. Russell, central Saskatchewan; B.J. Sallans, southern Saskatchewan; and J. Adams, Anticosti island, Que. Most of the saprophytic fungi were collected during a few excursions chiefly to Mount Burnet, Que., 17 miles north of Ottawa, the last two weeks in September.

Abies Balsamea (L.) Mill.

#Volutella ciliata (A. & S.) Fr. var. stipitata Sacc. on cones,
Mt. Burnet, Que.

Acer glabrum Torr.

#Phyllosticta minutissima Ell. & Ev. Watertown Lakes, Alta.
#Septoria circinata Ell. & Ev. Watertown Lakes, Alta.

Acer spicatum Lam.

#Rhytisma punctatum (Pers.) Fr. Berthierville, Que.

Acer sp.

#Diatrype stigma (Hoff.) Fr. Cobden, Ont.
#Lycogola flavo-fuscum (Ehr.) Rost. Ottawa, Ont.
#Nectria cinnabarina (Tode) Fr. Chelsea, Que.
#Steganosporium Acerinum Cda. Hillcrest, N.S.

Aesculus Hippocastanum L.

#Nectria cinnabarina (Tode) Fr. Grand Ligne, Que.

Agoseris glauca

#Puccinia Hieracii (Schum.) H. Mart. Annaheim, Sask.
#Puccinia patruelis Arth. Annaheim, Sask.

Agromonia gryposepala Wallr.

#Sphaerotheca Humuli (DC.) Burr. Kingsmere, Que.

Agromonia striata Michx.

#Sphaerotheca Humuli (DC.) Burr. Edmonton, Alta.

- Agropyron junceum Beauv.
#Puccinia graminis Pers. Edmonton, Alta.
- Agropyron repens (L.) Beauv.
Claviceps purpurea (Fr.) Tul. Winnipeg, Man.; #Lake Timagami, Ont.
Erysiphe graminis DC. Lac du Bonnet and Cowan, Man.; York and Westmorland counties, N.B.; #Edmonton, Alta.; Kentville, N.S.
#Phyllachora graminis (Pers.) Fuck. Edmonton, Alta.
Puccinia graminis Pers. Macdonald College, Que.; heavy infection.
#Septoria Agropyri Ell. & Ev. Edmonton, Alta.
- Agropyron Smithii Rydb.
#Claviceps purpurea (Fr.) Tul. McLeod, Alta.; Scott, Sask.
Puccinia graminis Pers. Oakville, Man.
- Agropyron tenerum Vasey
#Claviceps purpurea (Fr.) Tul. N. Battleford, Sask.
#Puccinia Clematidis (DC.) Lagerh. Drumheller, Alta.
- Allium cernuum Roth.
#Puccinia granulispora Ell. & Gall. Peace River, Alta.
- Alnus incana (L.) Moench.
#Erysiphe aggregata (Pk.) Farl. Farnham, Que.
#Phyllactinia corylea (Pers.) Karst. Pike Lake, Sask.
#Taphrina Robinsoniana Gies. Farnham, Que.
- Alnus sp.
#Psilopeziza hydrophila (Pk.) Seav. Digdegwash river, N.B.
- Alopecurus aristulatus Michx.
#Scolecotrichum graminis Fuck. Mulhurst, Alta.
- Althea sp.
#Erysiphe Polygoni DC. Saskatoon, Sask.
- Amaranthus retroflexus L.
Cystopus Bliti (Biv.) Lév. Summerland, B.C.; Plum Coulee, Man.; Macdonald College and Rougemont, Que., heavy infection.
- Ambrosia trifida L.
Erysiphe Cichoracearum DC. Winnipeg, Man.; slight infection
Puccinia Xanthii Schw. Morris, Man., heavy infection;
Winnipeg, Man., medium infection.
- Amelanchier alnifolia Nutt.
Gymnosporangium corniculans Kern. Sidney, Man., severe infection.

#Phyllosticta innumerabilis Pk. Edmonton, Alta.
Podosphaera Oxyacanthae (DC.) DeBary. Winnipeg, Man., slight infection.

Amelanchier canadensis (L.) Medic.
#Apliosporina Collinsii (Schw.) v. Höhn. St. Andrews, N.B.
#Gymnosporangium clavariaeforme (Jacq.) DC. Constance Bay, Ont.
#Gymnosporangium clavipes Cke. & Pk. Grand Manan, N.B.

Amelanchier oblongifolia (T.&G.) Roem.
#Gymnosporangium clavipes Cke. & Pk. Constance Bay, Ont.

Amphicarpa monoica (L.) Ell.
#Synchytrium decipiens (Pk.) Lagerh. Ottawa, Ont.

Andromeda polifolia L.
#Rhytisma Andromedae (Pers.) Fr. Anticosti Island, Que.

Andropogon furcatus Muhl.
Puccinia Andropogonis Schw. Westbourne, Man., heavy infection.

Anemone canadensis L.
Puccinia Clematidis (DC.) Lagerh. Carman and Pine River, Man., trace.

Anemone cylindrica A. Gray
Phleospora Anemones Ell. & Kellerm. Humboldt, Sask.
#Puccinia Clematidis (DC.) Lagerh. Lanigan, Sask.

Anemone virginiana L.
Puccinia Clematidis (DC.) Lagerh. Alymer, Que.

Antennaria canadensis Green
#Phialea phaeoconia Fairm. Iberville, Que.

Antirrhinum majus L.
#Puccinia Antirrhini Diet. & Holw. Kamloops, B.C.; Saskatoon, Sask.

Apium graveolens L.
#Cercospora Apii Fr. Abord à Plouffe, Que.

Apocynum androsaemifolium L.
#Cylindrosporium sibiricum D.&B. Oxbow, Sask.

Arabis sp.
#Puccinia monoica Arth. Pike Lake, Sask.

Aralia nudicaulis L.
Nyssopsora clavellosa (Berk.) Arth. Minaki, Ont.

Arctium minus Bernh.

Puccinia Bardanae Cda. Winnipeg, Man.; #Philipsburg, Que.

Arenaria lateriflora L.

#Puccinia Arenariae (Schum) Wint. Anticosti Is., Que.

Artemisia biennis Willd.

#Ophiobolus acuminatus (Sow.) Duby, Indian Head, Sask.
(det. J. Dearness)

Artemisia frigida Willd.

#Puccinia Absinthii (Hedw.) DC. Ethelbert, Man. This was reported last year as P. Millefolii Fuok. Examination of the specimen showed it belonged here.

Asparagus officinalis L.

#Puccinia Asparagi DC. Saskatoon, Sask.

Aster cordifolius L.

Puccinia Asteris Duby. Kenora, Ont., medium infection.

Aster laevis L.

#Coleosporium Solidaginis (Schw.) Thum. Athabasca, Alta.

Aster umbellatus Mill.

#Coleosporium Solidaginis (Schw.) Thum. Clova, Que.

Aster sp.

#Coleosporium Solidaginis (Schw.) Thum. Montney, B.C.
Erysiphe Cichoracearum DC. Winnipeg, Man., medium infection.
#Puccinia Asteris Duby. Clova, Que.
Puccinia extensicola Plowr. #Lanigan, Sask.; Carman, Man.,
medium infection and Sanford, Man., a trace.

Astragalus mallissimus Sorr.

#Physalospora megastoma (Pk.) Sacc. Clandonald, Alta.

Avena fatua L.

Puccinia coronata Cda. Lorette, Man., trace.
Puccinia graminis Pers. Man., slight infection throughout the province.

Beckmannia erucaeformis (L.) Host.

#Puccinia coronata Cda. St. Paul, Alta.

Betula lutea Michx.

#Hypoxyton multifforme Fr. Falconwood, P.E.I.
#Nectria episphaeria (Tode) Fr. Cobden, Ont.

Betula papyrifera Marsh

#Diatrypella discordea Cke. & Pk. Kingsmere, Que.

Betula subcordata#Helotium citrinum (Hedw.) Fr. Enderby, B.C.Betula sp.#Exidia glandulosa (Bull.) Fr. Mt. Burnet, Que.#Hypoxylon multifforme Fr. Mt. Burnet, Que.Bidens cernua L.Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schlecht.)

Fraser valley, B.C., general; #Surrey, B.C.

Salm

Boletus sp.#Sepedonium chrysospermum Fr. Mt. Burnet, Que.Bromus ciliatus L.#Mycosphaerella Wichuriana (Schroet.), Hobbema, Alta.#Puccinia Clematidis (DC.) Lagerh. Edmonton, Alta.Bromus inermis Leyss.#Septoria bromigena Sacc. Saskatoon, Sask.Calamagrostis sp.Claviceps purpurea (Fr.) Tul. Emma Lake, Sask.Calamovilfa longifolia (Hook.) Hack.Puccinia amphigena Diet. Westbourne, Man., medium infection.Capsella Bursa-pastoris (L.) Medic.Cystopus candidus (Pers.) de Bary, Saanichton, B.C.; Macdonald College, Que.; Queens Co., P.E.I.Peronospora parasitica (Pers.) de Bary, Macdonald College, Que.Carex aquatilis Wahl.#Cintractia Caricis (Pers.) Magn. Lake Waskiseu, Sask.Carex siccata Den.#Septoria caricinella Sacc. Constance Bay, Ont.Carex sp.#Puccinia hieraciatum (Schw.) Arth. & Kern. Old Chelsea, Que.Carya sp.#Eutypa milliaria (Fr.) Sacc. Portland, Ont.Celastrus scandens L.Phyllactinia corylea (Pers.) Karst. Winnipeg, Man., medium infection.

Cerastium arvense L.

#Melampsorella Cerastii (Pers.) Schroet. New Brunswick.

Chamaedaphne caliculata L.

#Venturia pulchella Cke. & Pk. Proton, Ont.

Chelone glabra L.

Erysiphe cichoracearum DC. Doak, N.B.; Queens Co., P.E.I.

Chenopodium album L.

Peronospora effusa (Grev.) Rabh. #Edmonton, Alta.; Ethelbert, Elm Creek, St. Agathe, Plum Coulee, Man., general throughout province; Côte des Neiges and Macdonald College, Que.; Fredericton, N.B.; Queens Co., P.E.I.

Puccinia subnitens Diet. Minto, Man., slight infection.

Circaea lutetiana L.

#Puccinia Circaeae Pers. Ottawa, Ont.

Cirsium arvense L.

Puccinia suaveolens (Pers.) Rostr. East Kelowna, B.C., severe in an orchard; Rougemont, Qué., slight infection.

Septoria Cirsii Niessl, Ashville, Man., slight infection.

Cirsium undulatum Nutt.

#Uromyces Junci (Desm.) Tul. Birch Lake, Alta.

Clavaria cinerea Bull.

#Eleutheromyces subulatus (Tode) Fuck. Kingsmere, Que.

Claytonia caroliniana Michx.

#Puccinia Mariae-Wilsoni G.W. Clinton, Ottawa, Ont.; Abbotsford, Que.

Clematis ligusticifolia Nutt.

#Cercospora squalidula Pk. Allen Grove, B.C.

#Didymaria Clematidis Cke. & Harkn. Allen Grove, B.C.

Clintonia borealis (Ait.) Raf.

Puccinia mesomajalis B. & C. Minaki, Ont., light infection.

Commandra pallida DC.

Cronartium Commandrae PK. Lac du Bonnet, Man., 100% in patches.

Comptonia asplenifolia L.

#Cronartium Comptoniae Arth. Constance Bay, Ont.

Convolvulus sepium L.

Puccinia Convolvuli (Pers.) Cast. St. Adolphe, Man., trace.

Cornus canadensis L.

Puccinia porphyrogenita Curtis, Queens Co., P.E.I., trace to heavy.

Cornus stolonifera Michx.

Septoria cornicola Desm. St. Adolphe, Man., trace.

Cornus sp.

Monilia Corni Reade, Vancouver island, B.C. Slight damage in low-lying areas; affected leaves fall but fresh growth follows.

Corylus americana Walt.

Gnomoniella Coryli (Batsch.) Sacc. var. circinata Dearn. & Bisby. Pine River, Man., trace.

Septoria corylina Pk. Pine River, Man., slight infection.

Corylus rostrata Ait.

#Gnomoniella Coryli (Batsch.) Sacc. Emma Lake, Sask.

Crataegus sp.

#Gymnosporangium clavipes Cke. & Pk. Saskatoon, Sask.

Dentaria diphylla Michx.

#Cystopus candidus (Pers.) Lév. Old Chelsea, Que.

Dirca palustris L.

#Aecidium hydnoideum B. & C. Eagle Depot, Que.

Distichlis spicata (L.) Greene

Puccinia subnitens Diet. Transcona, Man., heavy infection.

Distichlis stricta (Torr.) Rydb.

#Puccinia subnitens Diet. Vonda, Sask.

Dodecatheon pauciflorum (Durand) Greene

#Puccinia Ortonii Jacks. Zone 7 and Humboldt, Sask., first record for survey.

Elymus canadensis L.

Claviceps purpurea (Fr.) Tul. Lacombe, Alta., medium to severe in isolated patches.

Helminthosporium Tritici-repentis Died. Carman, Man. Abundant on leaf blades and culms causing large spots. First record for Man. (J.E. Machacek)

Phyllachora graminis (Pers.) Fuck. Winnipeg, Man., abundant in shady places.

Elymus innovatus Beal.

#Claviceps purpurea (Fr.) Tul. Humboldt, Sask.

Elymus Macounii Vasey

Claviceps purpurea (Fr.) Tul. Winnipeg, Man., slight infection.

#Septoria bromigena Sacc. Margo, Sask. This is a very interesting and new record. Further search for this parasite should be made on this and other species of Elymus.

Epilobium angustifolium L.

#Pucciniastrum Abieti-Chamaenerii Kleb. Clyde, Alta.; Clova Que.

Ramularia punctiformis (Schl.) Höhn. Duck Mt. Forest Reserve, Man., medium infection.

Erigeron canadensis L.

Yellows (virus) was general in York county, N.B.

Euphorbia serphyllifolia Pers.

Uromyces proeminens (DC.) Pass, var. typica Arth. Fort Garry, Man., medium infection.

Fagus sp.

#Xylaria corniformis Fr. On decayed wood, Mt. Burnet, Que.

Fragaria canadensis Michx.

Ramularia Tulasnei Sacc. Man., infection general.

Fragaria glauca (S. Wats.) Rydb.

Marssonina Fragariae (Sacc.) Kleb. Dana, Sask., first report from Saskatchewan.

#Ramularia Tulasnei Sacc. St. Gregor, Sask.

Galeopsis tetrahit L.

#Septoria Galeopsidis Westd. Edmonton, Alta.

Galium asprellum Michx.

#Puccinia punctata Link, Richmond, P.E.I.

Galium boreale L.

#Hainesia borealis Ell. & Ev. Allen Grove, B.C.; Dana, Sask.

Puccinia rubefaciens Johans. Virden, Man., trace; Kenville, Man., abundant in patches.

Galium sp.

#Puccinia punctata Link, St. Peters, P.E.I.

Glyceria borealis (Nash) Batchelder

Claviceps purpurea (Fr.) Tul. St. Francois Xavier, Que., medium infection.

Glyceria grandis Wats.

Ustilago longissima (Sow.) Tul. Rapid City, Man.; abundant

in wet area causing distortion of leaves and stunting of plants. First record for Manitoba.

Glycyrrhiza lepidota (Nutt.) Pursh.

#Uromyces Glycyrrhizae (Rabh.) P. Magn. Coderre, Sask.

Grossularia sp.

#Puccinia Pringsheimiana Kleb. Lanigan, Sask.

Hedysarum boreale Nutt.

#Uromyces Hedysari-obscuri (DC.) Cav. & Picc. Reynaud, Sask.

Helianthus annuus L. (cult)

#Puccinia Helianthi Schw. Saskatoon, Sask.

Helianthus fascicularis Greene

#Plasmopara Halstedii Farl. Marzville, Alta.

Helianthus Maximiliani Schrad.

Puccinia Helianthi Schw. Cartwright and Winnipeg, Man., trace.

Helianthus subrhomboides Rydb.

Puccinia Helianthi Schw. Lockwood, Sask.

#Uromyces Junci (Desm.) Tul. Lanigan, Sask.

Helianthus sp.

#Septoria Helianthi Ell. & Kell. Drumheller, Alta.

Hepatica triloba Chaix

#Ascochyta Vodakii Bubak, Ottawa, Ont.

Hieracium albertinum Harr.

#Puccinia Hieracii (Schum.) Mart. Islay, Alta.

Holcus Sorghum var. sudanensis

#Bacillus Sorghi Burr. Indian Head, Sask.

Hordeum jubatum L.

Claviceps purpurea (Fr.) Tul. Winnipeg, Man., slight.

Puccinia graminis Pers. Charlottetown, P.E.I., trace to heavy.

#Puccinia Clematidis (DC.) Lagerh. Edmonton, Alta.

Septoria Passerinii Sacc. #St. Paul, Alta.; Elie, Man., heavy infection in patches.

#Ustilago Lorentziana Thum. Alix, Alta.; Medium infection in one field in the Peace River district, Alta.; Saskatoon, Markinch and zone 9 in Saskatchewan.

Hordeum vulgare L.

#Ustilago Hordei (Pers.) K. & S. Grand Prairie, Alta.; Neilburg, Sask.

Ilex verticellata (L.) Gray

#Rhytisma concavum Ell. & Kell. Berthierville, Que.

Iris versicolor L.

Puccinia Iridis (DC.) Rabh. #Anticosti Is., Que.; Magog, Que.

#Puccinia sessilis Schneid. Bennett Lake, Ont.

Iva axillaris Pursh

#Puccinia intermixta Pk. Hawker, Sask.

Iva xanthifolia Nutt.

Basidiophora Kellermanii (E. & H.) Wils. Oakville, Man., slight infection.

Juncus filiformis L.

#Uromyces Junci (Desm.) Tul. Saskatoon, Sask.

Juncus tenuis Willd.

#Uromyces Silphii (Syd.) Arth. Pike Lake, Sask.

Juniperus communis L. var. depressa Pursh.

Cercospora Sequoiae E. & E. var. Juniperi E. & E. Zone 9, Sask.

#Gymnosporangium clavariaeforme (Jacq.) DC. Woodside, N.S.

Gymnosporangium clavipes Cke. & Pk. Saskatoon, Sask., light infection; Old Chelsea, Que.; Woodside, N.S.

Juniperus horizontalis (Moench) Rydb.

Gymnosporangium corniculans Kern, Saskatoon, Sask., light infection.

#Gymnosporangium juvenescens Kern, Saskatoon, Sask., light infection.

Lactuca pulchella (Pursh.) DC.

#Bremia Lactucæ Regel, Annaheim, Sask.

Puccinia minussensis Thüm. #Annaheim, Sask.; in Manitoba the disease was found to be severe at Binscarth, medium at Winnipeg and traces at Minnedosa and Dauphin.

Puccinia patruelis Arth. #Annaheim, Sask.; Melbourne, Man., medium infection, and Riding Mts. and Winnipeg, Man., trace.

Larix laricina Koch

#Melampsora Medusæ Thüm. Eagle Depot, Que.

Lathyrus venosus Muhl.

Erysiphe Polygoni DC. Zone 8, Sask.; Winnipeg, Man., in patches.

Ledum groenlandicum Oeder

Chrysomyxa ledicola Lagerh. Banff, Alta.; Whitemouth, Man.

- Lophodermium sphaerioides (A. & S.) Duby, Whitemouth, Man.,
common,
- Lepidium densiflorum Schrad.
#Peronospora parasitica (Pers.) Tul. Saskatoon, Sask.
- Lilium sulphurgalex princeps (cult.)
#Uromyces Holwayi Lagerh. Simcoe, Ont.
- Linum Lewisii Pursh.
Melampsora Lini (Pers.) Lév. #Peace River, Alta., Jasper
Park, Alta., prevalent.
- Lolium rigidum
Claviceps purpurea (Fr.) Tul. Winnipeg, Man., trace.
- Lonicera sp.
#Microsphaera Alni (Wallr.) Wint. Clova, Que.
- Lycopus uniflorus Michx.
Puccinia augustata Pk. Queens Co., P.E.I.
- Lycodesmia juncea Don.
#Puccinia Stipae Arth. Saskatoon, Sask.
- Malva rotundifolia L.
Puccinia Malvacearum Bert. Winnipeg, Man. First record for
Manitoba on this host; abundant in one location. Macdonald
College, Que., common.
Septoria malvicola Ell. & Mart. Macdonald College, Que.
- Malva sp. (cult.)
#Puccinia Malvacearum Bert. Winnipeg, Man.
- Menispermum canadense L.
Entyloma Menispermii Farl. & Trel. St. Adolphe, Man., trace.
- Mentha canadensis L.
#Puccinia Menthae Pers. Falher, Alta.
- Mentha glabrior (Hook.) Rydb.
#Puccinia Menthae Pers. Pike Lake, Sask.
#Septoria menthicola Sacc. & Let. Thorhild, Alta.
- Mitella nuda L.
#Puccinia Heucherae (Schw.) Diet. Ellis Bay, Que.
- Monarda mollis L.
#Puccinia Menthae Pers. Derwent, Alta.

- Monarda mollis L. var. menthaefolia Fern.
#Puccinia Menthae Pers. Cutbank, B.C.
- Monolepis Nuttalliana (R. & S.) Wats.
Cystopus Bliti (Biv.) Lév. Scott, Sask., moderate infection.
- Nabalus albus (L.) Hooker
Puccinia patruelis Arth. Virden, Man., heavy infection
- Oenothera biennis L.
#Septoria Oenotherae Westd. Myrnam, Alta.
- Osmorrhiza longistylis (Torr.) DC.
Puccinia Pimpinellae (Strauss) H. Mart. Aecial stage prevalent
in Manitoba; #Pike Lake, Sask.
Septoria Aegopodii Desm. Winnipeg, Man., medium, scattered
infections.
- Panicum capillare L.
Puccinia emaculata Schw. Hull, Que.
- Panicum miliaceum L.
#Sorosporium Panicis-miliacei (Pers.) Takah. Indian Head, Sask.
- Phalaris arundinacea L.
#Puccinia sessilis Schneid. Sutherland, Sask.
- Phaseolus vulgaris L.
#Fuligo septica (L.) Gmelin, Rockcliffe, Ont.
- Phragmites communis Trin.
Hadrotrichum lineare Pk. Cowan, Man., abundant.
Napicladium arundinacearum (Cda.) Sacc. Cowan, Man., slight
infection. First record for Manitoba.
- Pinus Banksiana Lamb
#Biatorrella resinae (Fr.) Mudd. Constance Bay, Ont.
#Zythia resinae (Ehrenb.) Karst. Constance Bay, Ont.
- Pisum sativum L.
#Uromyces Fabae (Pers.) de Bary, C.E.F., Ottawa, Ont.
- Plantago major L.
Erysiphe Cichoracearum DC. Winnipeg, Man.; Kenora, Ont., heavy
infection; Macdonald College and Côte des Neiges, Que.,
heavy infection.
Yellow (virus) was general in York and Sunbury counties, N.B.
- Poa compressa L.
Erysiphe graminis DC. Carman and Winnipeg, Man., heavy
infection.

- Poa eminens J.S. Presl
#Claviceps purpurea (Fr.) Tul. Anticosti Is., Que.
- Poa pratensis L.
Claviceps purpurea (Fr.) Tul. Winnipeg, Man., medium infection.
- Poa triflora Gilib.
Erysiphe graminis DC. Winnipeg, Man., medium infection.
- Polygonum aviculare L.
Erysiphe Polygoni DC. Winnipeg, Man., and Kenora, Ont. medium infection; Macdonald College, Que., severe infection.
Uromyces Polygoni (Pers.) Fuck. #Carstairs, Alta.; Macdonald College, Que.
- Polygonum fluitans (Eaton) Greene
#Puccinia Polygoni-amphibii Pers. Prudhomme, Sask.
- Polygonum pennsylvanicum L.
#Ustilago utriculosa (Nees) Tul. Ottawa, Ont.
- Polygonum Persicaria L.
Septoria Polygonorum Desm. Queens Co., P.E.I., moderate infection.
- Polygonum viviparum L.
#Puccinia Bistortae (Str.) DC. Anticosti Is., Que.
- Polygonum sp.
Erysiphe Polygoni DC. Caron, Sask.
Ovularia avicularis Pk. St. Gregor, Sask.
#Puccinia Polygoni-amphibii Pers. St. Gregor, Emma Lake and Carlyle, Sask.
- Populus sp.
#Septoria populicola Pk. Indian Head, Sask.
- Portulaca oleracea L.
Cystopus Portulacae (DC.) Lév. #Saskatoon, Sask.; Morden and Winnipeg, Man., slight infection
- Potentilla Anserina L.
Ramularia arvensis Sacc. Selater, Man., slight infection; Ashville, Man., heavy infection.
- Potentilla norvegica L. var. hirsuta (Michx.) Lehm.
#Fabraea Dehnii (Rabh.) Nannf. Falher, Alta.

- Potentilla pectinata Raf.
#Phragmidium Potentillae (Pers.) Karst. Percée, Que.
- Potentilla sp.
#Phragmidium Ivesiae Syd. Beaverlodge, Alta.
#Phragmidium Potentillae (Pers.) Karst. Clandonald, Alta.;
Saskatoon, Sask.
- Prenanthes altissima L.
#Sphaerotheca Humuli (DC.) Bur. var. fuliginea (Schl.) Salm.
Anticosti Is., Que.
- Prunus Cerasus L.
#Exoascus Cerasi (Fuck.) Sacc. Penticton, B.C.
- Prunus melanocarpa (A. Nels.) Rydb.
#Dibotryon morbosum (Schw.) Theiss. & Syd. Saskatoon, Sask.,
slight infection.
- Prunus pennsylvanica L.
#Taphrina Institiae (Sadeb.) Johans. Antigonish, N.S.
- Prunus virginiana L.
Cylindrosporium lutescens Higg. Common throughout Manitoba.
Dibotryon morbosum (Schw.) Theiss. & Syd. General in York
and Sunbury counties, N.B.
- Psoralea Argophyllae Pursh.
#Uromyces Argophyllae Seym. Saskatoon, Sask.
- Pteritis nodulosa (Michx.) Nieuwl.
Uredinopsis Struthiopteridis Störn. St. Adolphe, Man., heavy
infection.
- Pyrola americana Sweet
#Chrysomyxa Pyrolae Rostr. Petawawa, Ont.
- Radicula Armoracia (L.) B.S. Robinson
#Ramularia Armoraciae Fuck. Edmonton, Alta.
- Ranunculus abortivus L.
Uromyces Alopecuri Seym. Carman, Man., trace.
- Rhamnus alnifolia L'Her
Puccinia coronata Cda. Seddon's Corners and Pine River, Man.,
severe infection; Beausejour, Man., medium infection; and
Winnipeg, Man., trace.
- Rhus Toxicodendron L.
#Pileolaria Toxicodendri (B. & Rav.) Arth. Toronto, Ont.

Ribes americanum Mill.

Puccinia Fringsheimiana Kleb. Common throughout the province of Manitoba.

Ribes glandulosum Weber (R. prostratum L'Her)

#Cronartium ribicola Fisch. Clova, Que.

Ribes hudsonianum Richards

Sphaerotheca mors-uvae (Schw.) Berk. Zone 1, Alta.

Ribes nigrum L.

#Sphaerotheca mors-uvae (Schw.) Berk. Saskatoon, Sask.

Ribes sanguineum Pursh.

Cronartium ribicola Fisch. Saanichton, B.C., general infection.

Ribes vulgare Lam.

#Gloeosporium Ribis (Lib.) Mont. & Desm. Indian Head, Sask.

Ribes sp.

#Cronartium ribicola Fisch. Richmond, P.E.I.

Rosa acicularis Lindl.

#Phragmidium Rosae-acicularis Liro, Drumheller, Alta.

Rosa blanda Ait.

#Phragmidium americanum Diet. Anticosti Is., Que.

Rosa gymnocarpa Nutt.

#Phragmidium montivagum Arth. Cache Creek, B.C.

Rosa pisocarpa Gray

#Phragmidium Rosae-californicae Diet. Allen Grove, B.C.

Rosa sp.

Cercospora rosaecola Pass. General throughout the province of Manitoba, in some places quite severe.

#Phragmidium Rosae-arkansanae Deit. Beaverlodge, Alta.

Rubus acaulis Michx.

#Gymnoconia Peckiana (Howe) Trotter, Sutherland, Sask.

Rubus canadensis L.

Gymnoconia Peckiana (Howe) Trotter, P.E.I.

Rubus odoratus L.

#Sphaerotheca Humuli (DC.) Burr. Ottawa, Ont.

Rubus parviflorus Nutt.

#Lachnum bicolor (Bull.) Karst. Vancouver, B.C.

Rubus strigosus Michx.

#Pucciniastrum americanum (Farl.) Arth. Anticosti Is., Que.

Rubus sp.

#Pucciniastrum americanum (Farl.) Arth. Kentville, N.S.

Rudbeckia ampla A. Nels.

Septoria Rudbeckiae Ell. & Halst. Oakville, Man., common.
Uromyces perigynius Halst. Carman, Man. Heaviest infection
ever found in province.

Sagittaria latifolia Willd.

Cercospora Sagittariae E. & K. Elm Creek, Man., severe
infection.

Salix candida Flügge

#Rhynisma Salicinum (Pers.) Fr. Anticosti Is., Que.

Salix sp.

#Gloeosporium Salicis West. Ponoka, Alta.
#Melampsora arctica Rostr. North River, B.C.

Sambucus sp.

#Phoma sambucina Sacc. Indian Head, Sask.

Saxifraga virginiana Michx.

#Puccinia curtipes Howe, Old Chelsea, Que.

Saxifraga sp.

Puccinia curtipes Howe, B.C., general on plants in wild state.

Secale cereale L.

#Claviceps purpurea (Fr.) Tul. Edmonton, Alta.; Vanscoy, Sask.
#Urocystis occulta (Wallr.) Rabh. Balcarres, Sask.

Sempervivum sp.

#Endophyllum Sempervivi (A. & S.) de Bary, Vancouver, B.C.

Senecio aureus L.

#Puccinia recedens Syd. Anticosti Is., Que.

Shepherdia canadensis (L.) Greene

#Septoria Shepherdiae (Sacc.) Dearness, Athabasca, Alta.

Sium ciutaefolium Schrank.

Uromyces Scirpi (Cast.) Burr. Rapid City, Man., medium
infection. First record on this host from Manitoba.

Solanum tuberosum L.

#Colletotrichum atromentarium (B. & Br.) Taub. Unity, Sask.

Solidago canadensis L.

#Coleosporium Solidaginis (Schw.) Thum. Valley River, Man.

Solidago macrophylla Pursh

#Coleosporium Solidaginis (Schw.) Thum. Clova, Que.

Solidago pruinosa Greene

#Coleosporium Solidaginis (Schw.) Thum. Saskatoon, Sask.

Solidago Riddellii Frank

#Coleosporium Solidaginis (Schw.) Thum. C.E.F., Ottawa, Ont.

Solidago rugosa Mill.

#Coleosporium Solidaginis (Schw.) Thum. Gaspé, Que.

Solidago sp.

#Coleosporium Solidaginis (Schw.) Thum. Pike Lake, Sask.;
Mishomis Farm, Que.

#Puccinia extensicola Plow. Lanigan, Sask.

Sorbus scopulina Greene

Gymnosporangium Juniperi Link, Minaki, Ont., medium infection.

Spartina gracilis Trin.

#Claviceps purpurea (Fr.) Tul. Kisbey, Sask.

Spartina sp.

#Leptosphaeria personata Niessl. Charlottetown, P.E.I.

#Uromyces acuminatus Arth. Merigomish, N.S.

Stellaria borealis Bigel

#Melampsorella Cerastii (Pers.) Schroet. Anticosti Is., Que.

Stellaria longipes Goldie

#Melampsorella Cerastii (Pers.) Schroet. Anticosti Is., Que.

Stipa comata Trin. & Rupr.

Puccinia Stipae Arth. Westbourne, Man., medium infection.

Stipa viridula Trin.

Claviceps purpurea (Fr.) Tul. Winnipeg, Man., trace

Symphoricarpos occidentalis Hook.

Septoria Symphoricarpi Ell. & Ev. Banff, Alta.

Symphoricarpos racemosus Michx.

#Cercospora Symphoricarpi Ell. & Ev. Fort St. James, B.C.

Septoria Symphoricarpi Ell. & Ev. Saanichton, B.C., common.

Taraxacum officinale Weber

Colletotrichum Dematium (Fr.) Grove. Winnipeg, Man. Abundant on wilted or dead petioles and midribs. First record for Manitoba.

Puccinia Hieracii (Schum.) Mart. Summerland, B.C., light infection; Salmon Arm, B.C., general infection; #Evansburg, Alta.; Macdonald College, Que., moderate infection; Kentville, N.S.

#Puccinia variabilis Grev. Kentville, N.S.

Ramularia Taraxaci Karst. #Edmonton, Alta.; Oakville, Man., severe infection; Erickson, Man., slight infection.

Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schlecht.) Salm. #Saanichton, B.C.; Yale Co., B.C.; Oakville, Man., slight infection.

Thalictrum dioicium L.

#Puccinia Clematidis (DC.) Lagerh. Lanigan, Sask.

Thalictrum polygamum Muhl.

Erysiphe Polygoni DC. Queens Co., P.E.I., traces.

Thalictrum sp.

Puccinia Clematidis (DC.) Lagerh. Man., common throughout the province.

Triticum aestivum L.

#Pseudomonas atrofaciens (McCull.) Stev. Grandora, Sask.

#Septoria Tritici Desm. Hoey, Sask.

Tsuga canadensis (L.) Carr.

#Keithia Tsugae Parl. Streetsville, Ont.

Urtica gracilis Ait.

Puccinia Urticae Lagerh. Seddon's Corners, Man., heavy infection; Carman, Man., slight infection.

Urtica viridis Rydb.

#Puccinia Urticae Lagerh. Macdowall, Sask.

Vaccinium macrocarpon Ait.

#Venturia compacta Pk. Merigomish, N.S.

Viburnum cassinoides L.

#Coleosporium Viburni Arth. Clova, Que.

Viburnum eradiatum (Oakes) House. (= V. pauciflorum Pylaie)

#Puccinia Linkii Klotzsch, Emma Lake, Sask.

Viburnum Lentago L.

Microsphaera Alni (Wallr.) Salm. Winnipeg, Man., medium infection.

Vicia americana Muhl.

Uromyces coloradensis Ell. & Ev. Winnipeg, Man.
#Uromyces Fabae (Pers.) de Bary, Grimshaw, Alta.; Pike Lake, Sask.

Vicia Craca L.

#Uromyces Fabae (Pers.) de Bary, Ottawa, Ont.

Vicia sparsifolia Nutt.

#Uromyces coloradensis Ell. & Ev. Saskatoon, Sask.

Vicia sp.

#Uromyces coloradensis Ell. & Ev. var. campestris Arth. Clyde, Alta.
#Uromyces Fabae (Pers.) de Bary. Clyde, Alta.

Viola canadensis L.

Puccinia Violae (Schum.) DC. Winnipeg, Man., slight infection;
#St. Gregor, Sask.

Viola sp.

#Puccinia Violae (Schum.) DC. Kingsmere, Que.; Anticosti Is., Que.

Xanthium sp.

Puccinia Xanthii Schw. Delta, Man., trace.

Zea Mays L.

#Epicoccum neglectum Desm. Yarmouth, N.S.
#Puccinia Sorghi Schw. Indian Head, Sask.

Zostera marina L.

#Ophiobolus halimus Diehl & Mounce n. sp. On leaves in culture. Leaves received 5/1/34 from Tidal Cove, St. Andrews, N.B. Removed and dried 13/3/34, Ottawa. - Type

Zygadenus chloranthus Richard

#Puccinia atropuncta Pk. & Clint. Baie Ste Claire, Que.

MISCELLANEOUS FUNGI

After a comparatively dry summer, rain fell abundantly during the ten days preceding September 15. As a result, various edible and poisonous species of mushrooms were more abundant in the Ottawa district than at any time in the past 6 years. From Sept. 15th to 19th numerous large collections of Lepiota naucina Fr. were brought in to be identified at the Laboratory. Then for several days Psalliota campestris (L.) Fr. predominated. Other species were Marasmius oreades (Bolt.) Fr., Armillaria mellea Fr. and the giant puffball, Calvatia gigantea Batsch, immature specimens of which measuring from 6 to 12 inches in diameter were common. Latterly the collections were varied assortments of species chiefly gathered in woods. Specimens were also received by mail from widely scattered points in Ontario and Quebec. Of the poisonous species it should be noted that the fly agaric, Amanita muscaria (L.) Fr. was actually sent by a correspondent enquiring whether or not it was edible. Several collectors suspecting it to be a poisonous species brought it for identification.

Collections of Boletus spp., with notes on the fresh condition and spore prints were made and duplicates were submitted to Dr. W. H. Snell, Brown University, Providence, R.I., for identification. Of the ones submitted to and identified by him the following were the common species: Boletus scaber Rull. ex Fr. and B. edulis Bull. ex Fr., Mt. Burnet, Que.; B. viscidus Fr. (= B. elbensis Pk.) under larch, B. granulatus L. ex Fr. under pine and B. flavus With. ex Fr. under mixed conifers, Forest Belt, Central Experimental Farm, Ottawa, Ont. (I.L. Connors)

- #Aleuria aurantia Fuck. On ground, Mt. Burnet, Que.
- #Ascotremella turbinata Seaver, On old log, Mt. Burnet, Que.
- #Chlorosplenium aeruginascens Nyl. On decaying wood, Kingsmere and Mt. Burnet, Que.
- #Chromocrea gelatinosa (Tode) Seaver, on rotten wood, Mt. Burnet, Que.
- #Coryne sarcoides Fr. On old wood, Mt. Burnet, Que.
- #Cudonia circoinans (Pers.) Fr. On ground, Mt. Burnet, Que.
- #Cyathus Olla Pers. On surface soil, St. Hyacinthe, Que.
- #Delastria rosea Tul. Found in soil of a tulip bed, Eldon, P.E.I. October 27. (Determined by J. Dearness)
- #Geoglossum glabrum Pers. On very rotten wood, Old Chelsea, Que.
- #Helvella elastica Bull. On ground, Mt. Burnet, Que.
- #Helvella infula Schaeff. On rotten wood, Mt. Burnet, Que.
- #Hypocrea rufa (Pers.) Fr. On rotten wood, Mt. Burnet, Que.
- #Leotia stipitata (Bosc.) Schroet. On ground, Mt. Burnet, Que.
- #Microglossum rufum (Schw.) Underw. On decayed wood, Old Chelsea, Que.

- #Paxina fusicarpa (Ger.) Seaver, On surface soil, Kingsmere, Que.
 #Paxina hispida (Schaeff.) Seaver, On old wood, Mt. Burnet, Que.
 #Peziza badia Pers. On ground, Mt. Burnet, Que.
 #Peziza repanda Pers. On old wood, Ottawa, Ont.
 #Plectania coccinea (Scop.) Fuck. On burned wood, Old Chelsea, Que.
 #Pleurogá erostrata D. Griff. On old horse dung culture, Man.
 Agr. College, Winnipeg, Man.
 #Spathularia clavata (Schaeff.) Sacc. On ground, Mt. Burnet, Que.
 #Spathularia velutipes Cke. & Farl. On rotten wood, Mt. Burnet, Que.
 #Sphaerobolus stellatus Tode, On old wood, Mt. Burnet, Que.
 #Stemonitis splendens Rost. On old wood, Ottawa, Ont.
 #Stilbum giganteum Pk. On rotten bark, Mt. Burnet, Que.
 (Det. by J. Dearness)
 #Trichia Botrytis Pers. var. lateritia List. On rotten wood
 Mt. Burnet, Que.
 #Verpa bohemica (Krombh.) Schroet. MacGregor Lake, Que.
 #Xylaria polymorpha (Pers.) Grev. On rotten wood, Ottawa, Ont.