

VII. DISEASES OF MISCELLANEOUS PLANTS

The present section contains records of over 400 specimens, which were added to the Mycological Herbarium, Division of Botany, Ottawa, in the last year. Most of these specimens have been collected in the past three years, but were only determined during the last 12 months. Where a specimen is deposited in the herbarium, it is marked by an asterisk (*). The chief contributors and the areas, in which they collected, were: G. E. Woodlams, Okanagan valley, B.C.; H.T. Gussow and C. Perrault, Cacouna, Que.; J. Adams, Anticosti island, Que.; A. W. McCallum, in the Gaspé, Que.; and J. W. Groves, wood-inhabiting Inoperculatae, Ottawa, Ont., and Kingsmere, Que. Many individual specimens were also sent by collaborators. Records for this section were chiefly sent from Manitoba and Saskatchewan, with specimens accompanying, all of which have not been examined.

Abies balsamea (L.) Mill

- *Asterina nuda Pk. Kentville, N.S.
- *Colyptospora Goeppertiana Kühn, Cacouna, Que.
- *Dasyscypha Agassizii (B. & C.) Sacc. L'Islet Co., Que.
- *Dermatea balsamea (Pk.) Seaver, Mt. Burnet, Que.
- *Herpotrichia nigra Hartig, Mt. Lyall, Gaspé, Que.
- *Melampsorella Caryophyllacearum Schroet. Anticosti island, Que. (J. Adams)
- *Scoleconectria balsamea (Cke. & Pk.) Seav. Mt. Burnet, Que. (H.T. Gussow)

Abies grandis Lindl.

- *Creonectria Cucurbitula (Sacc.) Seav. on bark, Cowichan lake. B.C.

Acer glabrum Torr.

- *Phyllosticta minutissima Ell. & Ev. South Canoe, B.C.

Acer Negundo L.

- *Coryneum septosporiodes Sacc. & Syd. Edmonton, Alta.
- *Hypoxyton rubiginosum (Pers.) Fr. Keewatin, Ont.
- *Nectria Peziza (Tode) Fr. Keewatin, Ont.
- *Piggotia Negundinis E. & D. Martinville, Que.
- *Septoria Negundinis Ell. & Ev. Martinville, Que.
- *Sphaeropsis albescens Ell. & Ev. Edmonton, Alta.
- *Tubercularia vulgaris (Tode) Fr. Edmonton, Alta.

Acer pennsylvanicum L.

- *Rhytisma punctatum (Pers.) Fr. Kingsmere, Que.
- *Septoria acerina Pk. Algonquin Park, Ont.

Acer rubrum L.

- *Phyllosticta acericola Cke. & Ell. Berthierville, Que.

- *Rhytisma acerinum (Pers.) Fr. Berthierville, Que.
 *Sphaeronema acerinum Pk. Kingsmere, Que.
- Acer saccharinum L.
 *Rhytisma acerinum (Pers.) Fr. Ste. Anne, Que.
- Acer saccharum Marsh.
 *Steganosporium acerinum Cda. Stanstead, Que.; Ottawa, Ont.
 *Verticillium Dahliae Kleb. Stanstead, Que.
- Acer sp.
 *Creonectia purpurea (L.) Seav. Mt. Burnet, Que.
 *Massaria vomitoria B. & C. on dead sapling, Abbotsford, Que.
 *Ustulina vulgaris Tul. on stump.
- Actaea rubra (Ait.) Willd.
 *Puccinia Clematidis (DC.) Lagerh. Kingsmere, Que.
- Agrimonia gryposepala Wallr.
 *Pucciniastrum Agrimoniae (Schw.) Tranz. Chelsea, Que.
- Agropyron caninum (L.) R. & S.
Claviceps purpurea (Fr.) Tul. Steinbach, Man., trace.
- Agropyron cristatum J. Gaertn. (cult.)
Claviceps purpurea (Fr.) Tul. Winnipeg, Man., trace.
- Agropyron dasystachyum (Hook.) Schrib.
 *Ustilago bromivora (Tul.) Fisch. v. Waldh. Edmonton, Alta.
 July, artificially inoculated.
- Agropyron Griffithsii Scribn. & Smith
 *Ustilago bromivora (Tul.) Fisch. v. Waldh. Edmonton, Alta.
 July, artificially inoculated.
- Agropyron repens (L.) Beauv.
Erysiphe graminis DC. Common in York and Sunbury counties,
 N.B.
 *Phyllachora graminis (Pers.) Fuock. St. Francois, Que.
Puccinia graminis Pers. Winnipeg, Man., trace.
- Agropyron Richardsoni Schrad.
 *Bacterium Agropyri (O'Gara) Stev. Innisfail, Alta. (A.W.
 Henry)
Claviceps purpurea (Fr.) Tul. Swan River, Man., slight in-
 fection.
 *Ustilago bromivora (Tul.) Fisch. v. Waldh. artificially
 inoculated. Edmonton, Alta. July.
- Agropyron Smithii Rydb.
Claviceps purpurea (Fr.) Tul. Bird's Hill, Man., fifty

per cent of the plants infected.
Puccinia Clematidis (DC.) Lagerh. Bird's Hill, Man.,
 moderate infection.

Agropyron tenerum Vasey

Claviceps purpurea (Fr.) Tul. Winnipeg, Man., 95% of the
 plants infected.

Erysiphe graminis DC. Lac du Bonnet, Man., 1933, trace

*Ustilago Bromivora (Tul.) Fisch. v. Waldh. Edmonton, Alta.,
 July, artificially inoculated; Nappan, N.S., July 21.
 First record for Nova Scotia.

Agropyron trachycaulon (Lk.) Malte var. ciliatum (Scribn. & Sm.) Malte

*Puccinia Clematidis (DC.) Lagerh. Peachland, B.C.

Agropyron sp.

Septoria Agropyri Ell. & Ev. Pense, Sask.

Alnus incana Willd.

*Tympanis alnea (Pers.) Fr. Constance Bay, Ont.

Alnus rubra Bong.

*Phyllactinia corylea (Pers.) Karst. Summerland, B.C.

Alnus sp.

*Creonectria purpurea (L.) Seav. La Salle woods, Montreal
 Que.

*Phyllactinia corylea (Pers.) Karst. Deschambault, Que.

*Scorias spongiosa (Schw.) Fr. Farmers Rapids, Que.
 Fredericton, N.B.

Althaea rosea L. (cult.)

*Ascochyta althaeina Sacc. & Bizz. Abbotsford, Que.

*Puccinia Malvacearum Bert. Lennoxville, Que.

*Septoria malvicola Ell. & Mart. St. Pacome, Que.

Ambrosia psilostachya DC.

Puccinia Xanthii Schw. Pipestone, Man., slight. This is
 apparently a new host for Canada.

Amelanchier alnifolia Nutt.

Apiosporina Collinsii (Schw.) v. Höhn. Lac du Bonnet, Man.,
 severe.

Amelanchier florida Lindl.

*Gymnosporangium juvenescens Kern, Hedley, B.C.

Amelanchier sp.

*Gymnosporangium clavipes Cke. & Pk. Grand Lake, Queens Co.,
 N.B.

*G. juvenescens Kern, Estevan, Sask.

Amphicarpa monoica (L.) Ell.

*Synchytrium aecidioides (Pk.) Lagerh. Ottawa, Ont.; Oka, Que.

Andromeda polifolia L.

*Rhytisma Andromedae (Pers.) Fr. Anticosti island, Que. (J. Adams)

Anemone canadensis L.

*Plasmopara pygmaea (Ung.) Schröt. Muenster, Sask.
Puccinia Clematidis (DC.) Lagerh. Lac du Bonnet, Man.,
trace; Bede and Cowan, heavy infection.

Anemone cylindrica A. Gray

Phleospora Anemones Ell. & Kellerm. Ethelbert, Man. Heavy infection.

Anemone virginiana L.

Puccinia Clematidis (DC.) Lagerh. Dutton, Man. Severe infection.

Anemone sp.

*Puccinia Anemones-virginianae Schw. Kingsmere, Que.

Antirrhinum majus L. (cult.)

*Puccinia Antirrhini Diet. & Holw. Windsor, Ont.

Arabis retrofracta Greene

*Puccinia monoica Arth. Sutherland, Sask.

Arabis sp.

Cystopus candidus (Pers.) de Bary, Lac du Bonnet, Man.
June 16, trace.

Aralia nudicaulis L.

*Nyssopsora clavellosa (Berk.) Arth. near Federal Hill,
Gaspé, Que.

Arctium Lappa L.

Septoria Lapparum Sacc. Lac du Bonnet, Man., June 16,
trace.

Arctium minus Bernh.

*Puccinia Bardanae Cda. North Gower, Ont.

Arisaema triphyllum (L.) Schott.

*Uromyces Caladii (Schw.) Farl. Beauceville and Abbotsford,
Que.

Aristolochia macrophylla Lamb. (cult.)

*Phyllosticta Aristolochiae Tassi, Beebe, Que.

Artemisia biennis Willd.

Cystopus cubicus (Strauss) Lévl. Brunkild, Man., moderate infection.

Artemisia frigida Willd.

Puccinia Millefolii Fuok. Virden and Ethelbert, Man., slight infection. First record apparently on this host for Canada.

Artemisia gnaphalodes Nutt.

Puccinia universalis Arth. Oak Lake, Man., moderate infection.

Aster cordifolius L.

*Coleosporium Solidaginis (Schw.) Thüm. Ottawa West, Ont.

Aster laevis L.

Puccinia extensicola Plowr. Morden and Lac du Bonnet, Man., slight infection.

Aster Lindleyanus T. & G.

*Coleosporium Solidaginis (Schw.) Thüm. Westboro, Ont.

*Puccinia extensicola Plowr. Federal Hill, Gaspé, Que.

Aster multiflorus Ait.

Puccinia extensicola Plowr. Virden, Man., infection slight.

Aster paniculatus Lam.

*Coleosporium Solidaginis (Schw.) Thüm. Ottawa, Ont.

Septoria atropurpurea Pk. Strathclair, Man., trace.

Aster Tradescanti L.

*Coleosporium Solidaginis (Schw.) Thüm. Ottawa, Ont.

Aster sp.

*Coleosporium Solidaginis (Schw.) Thüm. Kingsmere and Cacouna, Que.

Erysiphe Cichoracearum DC. York county, N.B.

Avena sativa L. (cult.)

*Puccinia coronata Cda. Shediac, N.B.

Berberis vulgaris L. (cult.)

*Phytomonas Berberidis Thornb. & And. Ottawa, Ont.

*Puccinia graminis Pers. Merrickville, North Gower and Appleton, Ont.

Betula alba L. var. papyrifera (Marsh.) Spach

*Chlorosplenium aeruginascens (Wyl.) Karst. Clova, Que.

Septoria microsperma Pk. Lotbinière, Que.

*Taphrina flava Parl. Tremont, N.S.

Betula occidentalis Hook.

*Daldinia occidentale Child, Cheetzi, B.C. (A.T. Davidson)
Nov. 1926.

Betula sp.

*Daldinia concentrica de Not. Ottawa district, Ont., Dec. 28,
1926. (W.S. Odell)

*Daldinia occidentale Child, Snow Mountain, B.C. (H.R. McLarty)
Oct. 13; Summerland, B.C. (I. Mounce) Sept. 8, 1932;
Saskatoon, Sask. (I. Mounce) July 25, 1932.

The author reports this species from Ontario and British
Columbia. The Saskatchewan record is new, but is in line
with the distribution that she reported for the species.

Brassica pekinensis Rupr. (cult.)

*Cercospora albo-maculans (Ell. & Ev.) Sacc. Strathroy,
Ont.

Bromus ciliatus L.

*Puccinia Clematidis (DC.) Lagerh. Vermilion, Alta.

Bromus Hookerianus Thurb.

*Puccinia Clematidis (DC.) Lagerh. South Canoe, B.C.

Bromus inermis Leyss.

Claviceps purpurea (Fr.) Tul. Winnipeg, Man., ten per cent
of the plants infected; Gimli, trace.

Scolecotrichum graminis Fuck. Light infection in 2 fields
in Alberta.

Septoria bromigena Sacc. Morris and Homewood, Man., severe,
of general occurrence in southern Manitoba.

Helworms caused reddish galls along the midrib of the
leaves, Inglis, Man.

Bromus tectorum L.

*Ustilago bromivora (Tul.) Fisch. v. Waldh. Oliver, B.C.

Calamagrostis americana Scribn.

Claviceps purpurea (Fr.) Tul. Minitonas, Man., 75% of the
plants infected.

Calamagrostis canadensis (Michx.) Beauv.

Claviceps purpurea (Fr.) Tul. *Terrace, B.C.; 75% of the
plants infected in 15 localities in northern Manitoba.

Puccinia coronata Cda. Cowan and Boissevain, Man. Moderate
infection.

Capsella Bursa-pastoris (L.) Medic.

*Cystopus candidus (Pers.) de Bary, Ottawa and North Gower,

Ont.; Anticosti island, Que. (J. Adams)
 *Peronospora parasitica (Pers.) de Bary, Anticosti island,
 Que. (J. Adams)

Caragana sp. (cult.)

*Septoria Caraganae (Jacq.) Died. Indian Head, Sask.

Carex Goodenowii J. Gray

*Cintractia Caricis (Pers.) Magn. Cacouna, Que.

Caulophyllum thalictroides Michx.

*Cercospora Caulophylli Pk. Kingsmere, Que.

Celastrus scandens L.

*Phyllactinia corylea (Pers.) Karst. Kingsmere, Que.

Chamaedaphne calyculata (L.) Moench

*Dermatea pezezoides Pk. Ottawa, Ont.

Chamaenerion spicatum (Lam.) S.F. Gray

Puccinia ludibunda Ell. & Ev. Bowsman, Man., trace.

*Pucciniastrum Abietis-Chamaenerii Kleb. South Canoe, B.C.

Chenopodium album L.

*Peronospora effusa (Grev.) Rabh. Garson, Man., moderate infection.

Puccinia subnitens Diet. Morden, Man., heavy infection

First record on this host in Manitoba. (W.L. Gordon)

Stagonospora Atriplicis (West.) Lind. Starbuck, Man.

moderate infection.

Chiogenes hispidula (L.) T. & G.

*Chrysomyxa Chiogenis Diet. Mt. Lyall, Gaspé, Que.

Chrysanthemum Leucanthemum L.

Yellows (virus) was common on this plant in fields in York and Sunbury counties.

Cicuta maculata L.

Puccinia Cicutae Lasch, Greenwich, N.S. Infection general on a few plants.

Circaea alpina L.

*Puccinia Circaeae Pers. Crooked River, Sask.; Federal Hill, Gaspé, Que.

Circaea lutetiana L.

*Puccinia Circaeae Pers. Kingsmere, Que.

Cirsium arvense L.

*Puccinia suaveolens (Pers.) Rostr. Ottawa, Ont.; Anticosti

island, Que. (J. Adams)

Cirsium lanceolatum (L.) Hill

*Puccinia Cnici H. Mart. North Gower, Ont.

Cirsium undulatum (Nutt.) Spreng.

Puccinia Cirsii Lasch, Griswold, Man., few plants infected.

Clematis ligusticifolia Nutt.

*Puccinia Clematidis (DC.) Lagerh. Summerland, B.C.

*Septoria Clematidis Rob. Indian Head, Sask.

Clintonia borealis (Ait.) Raf.

*Puccinia mesomajalis B. & C. Federal Hill, Gaspé, Que.

Comandra pallida DC.

*Cronartium Comandrae Pk. Chalk River, Ont.

Convolvulus sepium L.

Septoria Convolvuli Desm. Homewood, Man., slight

Cornus alternifolia L.

*Microsphaera Alni (Wallr.) Salm. Abbotsford, Que.

Cornus canadensis L.

*Glomerularia Corni Pk. Cacouna, Que.

*Puccinia porphyrogenita Curtis, Federal Hill, Gaspé, Que.

Cornus circinata L'Her

*Pezicula Corni Petrak, Ottawa, Ont.

Corylus americana Walt.

Gnomoniella Coryli (Batsch) Sacc. Marysville, N.B.

Septoria corylina Walt. Lac du Bonnet, Man., June 16., slight.

*Tubercularia vulgaris (Tode) Fr. Edmonton, Alta.

Corylus rostrata Ait.

*Diplodina macrospora Ell. & Ev. Constance Bay, Ont.

Corylus sp.

*Genangium furfuraceum (Roth) de Not. M.A.C., Winnipeg, Man.

*Discosia artocreas (Tode) Fr. Lennoxville, Que.

Crataegus Oxycantha candida (cult.)

*Gymnosporangium globosum Farl. Arboretum, Ottawa, Ont.

Crataegus sanguinea (cult.)

*Gymnosporangium globosum Farl. Arboretum, Ottawa, Ont.

Crataegus sp.*Gymnosporangium clavipes Cke. & Pk. Hull, Que.*G. globosum Farl. Ottawa, Ont.Cucumis sativus L. (cult.)*Cladosporium cucumerinum Ell. & Arth. Brampton, Ont.Dactylis glomerata L.*Puccinia graminis Pers. Vernon, B.C.Delphinium cultorum Voss (cult.)*Erysiphe Polygoni DC. Summerland, B.C.Dianthus sp. (cult.)*Uromyces caryophyllinus (Schrank) Wint., greenhouse, Toronto, Ont.*Ustilago violacea (Pers.) Fuck., on both red and white flowering varieties. Greenhouse, Toronto, Ont.Dicentra canadensis DC.*Peronospora Dicentrae Syd.; near Kingston, Ont.Dirca palustris L.*Aecidium hydnoideum B. & C. Chalk River, Ont.Distichlis spicata (L.) Greene*Uromyces Peckianus Farl. Sidney, B.C.Elymus canadensis L.Claviceps purpurea (Fr.) Tul. Winnipeg, Man., trace.Elymus condensatus Presl.*Claviceps purpurea (Fr.) Tul. West Summerland, B.C.*Puccinia Clematidis (DC.) Lagerh. West Summerland and Vernon, B.C.Elymus curvatus PiperClaviceps purpurea (Fr.) Tul. Winnipeg, Man., trace.Elymus sp.Epichloe typhina (Pers.) Tul. Several tufts of grass at M.A.C., Winnipeg, Man., bore this fungus, which is not common in Manitoba (G.R. Bisby); the imperfect stage, Sphacelia typhina (Pers.) Sacc., was collected on an unknown grass at Abbotsford, Que. (3502)Empetrum nigrum L.*Chrysomyxa Empetri Schroet. Mt. Lyall and Mt. Sterling, Gaspé, Que.*Rhytisma Empetri Fr. Table Top Mt., Gaspé, Que.

Epilobium sp.

*Pucciniastrum pustulatum (Pers.) Diet. Federal Hill,
Gaspé, Que.

Erigeron canadensis L.

Yellows (virus) was common on this plant in Westmoreland
Sunbury, York and Queens counties, N.B.

Erythronium americanum Ker.

*Ustilago Heufleri Fuck. Kingston, Ont.

Eupatorium urticifolium Reichard

*Puccinia Eleocharidis Arth. Kingsmere, Que.

Euphorbia glyptosperma Engelm.

*Uromyces proeminens (DC.) Pass. Bell's Corners, Ont.

Eutrema Edwardsii R. Br.

*Pleospora herbarum (Pers.) Rabh. Maguse River, N.W.T.
9-7-32. (coll. Wm. Gussow, det. J. Dearness)

Fagus grandifolia Ehrh.

*Hypoxylon cohaerens Pers. Chelsea, Que.

Fragaria canadensis Michx.

Ramularia Tulasnei Sacc. General in most localities in Man.

Fraxinus sp.

*Phyllosticta viridis E. & K. Lumsden, Sask.

*Piggotia Fraxini B. & C. Lumsden, Sask.

*Sphaerographium Fraxini (Pk.) Sacc. Kingsmere, Que.

Gaultheria Shallon Pursh.

*Dasyscypha Gaultheriae (E. & E.). Trail, B.C.

Phyllosticta Gaultheriae E. & E. General on Vancouver island,
B.C. September, 1933.

Glycyrrhiza lepidota (Nutt.) Pursh.

Uromyces Glycyrrhizae (Rabh.) P. Magn. Lac du Bonnet, Man.,
heavy; Winnipeg, moderate.

Grindelia squarrosa (Pursh.) Dunal

*Puccinia Grindeliae Pk. Prud'homme, Sask.

Helianthus annuus L.

*Sclerotinia Sclerotiorum (Lib.) de Bary. Colonsay, Sask.

Helianthus giganteus L.

Puccinia Helianthi Schw. Griswold and Brunkild, Man., slight

Helianthus Maximiliani Schrad.

Puccinia Helianthi Schw. Swan River, Man., slight; La Salle, severe.

Heraclium lanatum Michx.

Cylindrosporium Heracliei Ell. & Ev. Bowsman, Man., slight.

Hieracium canadense Michx.

*Puccinia Hieracii (Schum.) H. Mart. Anticosti island, Que.
(J. Adams)

Hieracium sp.

Yellows (virus) was found on this plant in abundance at the Experimental Station, Fredericton, N.B.

Hordeum distichon L. (cult.)

*Puccinia anomala Rostr. Burritts Rapids, Ont.

Hordeum jubatum L.

Erysiphe graminis L. Lac du Bonnet, Man. Severe on some plants.

Septoria Passerinii Sacc. Gretna, Man., moderate; Morris, heavy.

Ustilago Lorentziana Thum. Trace in zone 10 of Alberta.

Hordeum vulgare L.

*Puccinia anomala Rostr. Burritts Rapids, Ont.

Hordeum sp. (cult.)

*Helminthosporium teres Sacc. Manotick, Ont.

Houstonia caerulea L.

*Uromyces houstoniatus (Schw.) Sheldon, Lennoxville, Que.

Hydrocotyle sp.

*Erysiphe Polygoni DC. Chelsea, Que.

Hypericum sp.

*Uromyces Hyperici-frondosi Arth. Kingsmere, Que.

Iris versicolor L.

Heterosporium gracile (Wallr.) Sacc. Morden, Man., June 5, slight.

*Puccinia Iridis (DC.) Rabh. Fredericton, N.B.

Iris sp. (cult.)

Heterosporium gracile (Wallr.) Sacc. Beebe, Que.

Iva xanthifolia Nutt.

Basidiophora Kellermanii (E. & H.) Wils. Morden, Man., trace.

Juglans cinerea L. *

*Marssonina Juglandis (Lib.) Magn. Abbotsford and St.
Sulpice, Que.

Juniperus communis L. var. depressa Pursh

*Gymnosporangium clavariaeforme (Jacq.) DC. Carp, Ont.

*G. clavipes Cke. & Pk. Carp, near Kingston, Constance Bay,
Ont.; Hull, Que.

Juniperus horizontalis Moench.

*Gymnosporangium clavipes Cke. & Pk. Ste. Anne de la Pocatière,
Que., May 31 (E. Campagna). This appears to be the first
record of this rust on the above species in Canada or the
United States. (I. L. Connors).

*G. corniculans Kern. Bird's Hill, Man.

Juniperus fragrans (cult.)

*Gymnosporangium globosum Farl. Arboretum, Ottawa, Ont.

Juniperus virginiana L.

*Gymnosporangium globosum Farl. Kingston, Almonte, Ottawa
Ont.

Kalmia latifolia L.

*Mycosphaerella colorata (Pk.) Earle, immature, Ste. Anne de
la Pocatière, Que.

Lactuca pulchella (Pursh) DC.

Puccinia minussensis Thum. General occurrence throughout
Manitoba.

Lactuca sativa L. (cult.)

*Marssonina Panattoniana (Berb.) Magn. Saanichton, B.C.;
Port Dalhousie, Ont.

Lactuca spicata (Lamb.) Hitch.

*Sphaerotheca Humuli (DC.) Burr. var. fuliginéa (Schl.) Salm.
South Canoe, B.C.

Lappula echinata Gilib.

Puccinia subnitens Diet. Deloraine, Man. June 6, slight.
This is apparently the first report on this host.

Lathyrus ochroleucus Hook.

Uromyces Fabae (Pers.) de Bary, Benito, Man., slight.

Lathyrus venosus Muhl.

Mosaic (?virus) was severe, Seddon's Corners, Man.

Ledum gladulosum Nutt.

* Chrysomyxa Ledi de Bary. Hedley, B.C.

Ledum groenlandicum Oeder

* Chrysomyxa Ledi de Bary. Mt. Lyall, Gaspé, Que.

Leontodon autumnalis L.

Yellows (virus) was common on fall dandelion in York,
Sunbury and Westmoreland counties, N.B.

Lepidium densiflorum Schrad.

Cystopus candidus (Pers.) Lév. Lac du Bonnet, Man., severe
on some plants.

Lewisia rediviva Pursh

Uromyces Spragueae Hark. Kaleden, B.C. (G.E. Woolliams)
The material was compared with the descriptions of this
species and that of U. unitus Pk. as given in the N. Am.
Flora 7:444 et seq. and with F. Col. 1373 referred by
Arthur to U. unitus. Without doubt, the above collection
is referable to the above species rather than U. unitus.
(I.L. Connors)

Lonicera orientalis

* Glomerularia Corni Pk. Arboretum, Ottawa, Ont.

Lonicera sp.

* Phyllosticta Caprifolii (Opiz.) Sacc. Beebe, Que.

Lupinus perennis L.

* Erysiphe Polygoni DC. Summerland, B.C.

Lycopersicum esculentum Mill. (cult.)

* Alternaria Solani (E. & M.) J. & G. Farnham, Que.

* Septoria Lycopersici (Speg.) Sacc. Manotick, Ont.

Lygodesmia juncea Don.

* Puccinia Stipae Arth. Pike Lake, Sask.

Malva rotundifolia L.

Septoria malvicola Ell. & Mart. North Gower, Ont.;
Fredericton, N.B., a few plants affected Sept. 2.

Medicago sativa L.

* Plenodomus Meliloti Dearn. & Sanf. Picardville, Alta.

* Pseudopeziza Medicagois (Lib.) Sacc. Summerland and Vernon,
B.C.; Aylmer, Que.

* Uromyces Medicagois Pass. North Gower, Ont.

Melilotus alba Desv.

* Stagnospora Meliloti (Lasch) Petrak, South Canoe, B.C.

Melilotus officinalis (L.) Lam.

* Stagonospora Meliloti (Lasch) Petrak, Indian Head, Sask.

Mentha canadensis L.

* Puccinia Menthae Pers. M.A.C., Winnipeg, Man.; West
Summerland, B.C.

Mentha glabrior (Hook.) Rydb.

* Puccinia Menthae Pers. Prud'homme, Sask.
Septoria menthicola Sacc. & Let. Prud'homme, Sask.

Mitella nuda L.

* Puccinia Heucherae (Schw.) Diet. Pike Lake, Sask.; Federal
Hill, Gaspé, Que.

Monarda mollis L.

* Puccinia Menthae Pers. Armstrong, B.C.

Myrica Gale L.

* Tubercularia vulgaris (Tode) Fr. Cacouna, Que.

Neslia paniculata (L.) Desv.

Cercospora Nesliae Dearn. & Bisby. Alberta, 1933; general
infection.

Oenothera biennis L.

Puccinia ludibunda Ell. & Ev. Lac du Bonnet, Man., June 16,
trace.

Osmorrhiza Claytoni (Michx.) Clarke

Puccinia Pimpinellae (Strass) H. Mart. Kingsmere, Que.

Oxytropis bellis (Britt.) Palibine

* Mycosphaerella Astragali (Currey), Long Point, Man., 29-6-
32 (Coll. Wm. Gussow, det. J. Dearness)

Paeonia sp.

* Cladosporium Paeoniae Pass. L'Assomption, Que.

Petasites frigidus (L.) Fr.

* Puccinia conglomerata (Strauss) Schmidt & Kunze, Peachland,
B.C.

Phalaris arundinacea L.

Claviceps purpurea (Fr.) Tul. Swan River, Man., Aug. 11,
moderate.

Phalaris sp.

Claviceps purpurea (Fr.) Tul. Experimental plots, Lacombe.
Alta., light infection.

Phaseolus vulgaris L. (cult.)

* Colletotrichum Lindemuthianum (Sacc. & Mag.) Bri. & Cav.
Jacques Cartier Co., Que.

Phegopteris Dryopteris (L.) Fée

* Uredinopsis Phegopteridis Arth. Lake Timagami, Ont.

Phleum pratense L.

* Puccinia graminis Pers. Vernon, B.C.; North Gower, Ont.;
Pt. Fortune, Que.

* Ustilago striaeformis (Westd.) Niessl. M.A.C., Winnipeg,
Man. First record for Manitoba.

Phlox paniculata L.

* Septoria divaricata Ell. & Ev. Beebe, Que.

Phlox sp.

* Erysiphe Cichoracearum DC. Aylmer, Que.

Physalis grandiflora Hook

* Puccinia Physalidis Pk. Abbotsford, Que.

Picea mariana (Mill.) B.S.P.

* Herpotrichia nigra Hartig, Mt. Lyall, Gaspé, Que.

Picea sp.

* Dasyscypha Agassizi (B. & C.) Sacc. Cacouna, Que.

Pinus Banksiana Lamb.

* Coleosporium Solidaginis (Schw.) Thum. Chalk River, Ont.

* Gronartium Comandrae Pk. Chalk River, Ont.

* C. Comptoniae Arth. Biscostasing and Constance Bay, Ont.

This rust produces extensive cankers in the butt of the
tree, which gives the base a peculiar swollen appearance.
(I.L. Connors & C.G. Riley)

* C. Quercuum Miyabe, Constance Bay, Ont.

* Zythia resinae (Ehrenb.) Karst, Constance Bay, Ont.

Pinus resinosa Ait.

* Coleosporium Solidaginis (Schw.) Thum. Chalk River, Ont.

Pisum sativum L. (cult.)

* Erysiphe Polygoni DC. Hudson Heights, Que.

* Uromyces Fabae (Pers.) de Bary, Macdonald College, Que.

Plantago eriopoda Torr.

Puccinia subnitens Diet. Morden, Man., 1933; severe.
This is evidently the first report on this host for
Manitoba.

Plantago major L.

Erysiphe Cichoracearum DC. Lavington, B.C.; Cowan, Man.,
1933, slight; *Neuville, Que.
Yellows (virus) was common on plantain in Westmoreland,
York, Sunbury and Queens counties, N.B.

Poa compressa L.

Claviceps purpurea (Fr.) Tul. Clear Lake, Man., slight.

Polygonum aviculare L.

Cercospora avicularis Wint. M.A.C., Winnipeg, Man.; Winkler,
Man., slight.

Polygonum Convolvulus L.

*Puccinia Polygoni-amphibii Pers. North Gower, Ont.

Polygonum erectum L.

Puccinia subnitens Diet. Carmen, Man., 1933, slight. This
is apparently the first record on this host for Manitoba

Polygonum sp.

*Puccinia Polygoni-amphibii Pers. Scott, Que.

Populus balsamifera L.

*Fusicladium radiosum (Lib.) Lindr. St. Gabriel, Que.
*Melampsora Medusae Thum. Lennoxville, Que.
*Septoria populiicola Pk. Kenora and Kemptville, Ont.

Populus nigra L. var. italica du Roi

*Sclerotium bifrons E. & E. Kingsmere, Que.

Populus tremuloides Michx.

Fusicladium radiosum (Lib.) Lindr. Lac du Bonnet, Seddon's
Corners and Winnipeg, Man., 1933. Moderate damage.

Populus sp.

*Cenangium populneum (Pers.) Rehm. Constance Bay, Ont.
*Sclerotium bifrons E. & E. Abbotsford, Que.
*Taphrina aurea (Pers.) Fr. Sidney, B.C., on a Russian poplar.
*Tympanis populina (Pk.) Sacc. Forester's Falls, Ont.
*Uncinula Salicis (DC.) Wint. Summerland, B.C.

Portulaca oleracea L.

Cystopus Portulacae (DC.) Lév. Winnipeg, Man., Aug. 31,
slight.

Potentilla bipinnatifida Dougl.

Phragmidium Potentillae (Pers.) Karst. Ethelbert, Man.,
severe infection.

Potentilla canadensis L.

Frommea Potentillae canadensis Diet. Queens Co., P.E.I.

Prunus pennsylvanica L.f.

Cylindrosporium hiemale Higg. Beausejour, Man., June 16,
trace.

Prunus sp.

- * Cladosporium carpophilum Thum. Lake Megantic, Que.
- * Cylindrosporium prunophorae Higg. On Dumas plum, Ste. Anne
de la Pocatière, Que.
- * Dermatea Cerasi (Pers.) de Not. Forester's Falls, Ont.;
Cacouna, Que.; Micropera druceae Lévesq. was present at
the base of the apothecia in the latter specimen.
- * Dibotryon morbosum (Schw.) Theiss. & Syd. New Westminster,
B.C.
- * Micropera spuria (Fr.) v. Hoehn. Cacouna, Que.
- * Phyllosticta circumscissa Oke. Ile aux Coudres, Que.

Psedera quinquefolia (L.) Greene

- * Uncinula necator (Schw.) Burr. Ottawa, Ont.

Pulsatilla patens A. Gray

- * Urocystis Anemones (Pers.) Wint. Morden, Man.

Pyrola secunda L. var. obtusa Turcz.

- * Chrysomyxa Pyrolae Rostr. Federal Hill, Gaspé, Que.
- * Pucciniastrum Pyrolae (Pers.) Diet. Federal Hill, Gaspé, Que.

Pyrola sp.

- * Chrysomyxa Pyrolae Rostr. Constance Bay, Ont.

Pyrus communis L. (cult.)

- * Fusicladium pirinum (Lib.) Fuck. Abbotsford, Que.
- * Septoria piricola Desm. Locust Hill, Ont.

Pyrus japonica

Tubercularia vulgaris (Tode) Fr. Arboretum, Ottawa, Ont.

Pyrus Malus L. (cult.)

- * Fusicladium dendriticum (Wallr.) Fuck. Abbotsford and Ste.
Anne de la Pocatière, Que.
- * Myxosporium corticolum Edgert. on Russet apple trees,
Abbotsford, Que.
- * Phomopsis Mali Roberts, Oka, Que.

- * Phyllosticta limitata Pk. Ste. Anne de la Pocatière, and Abbotsford, Que.
- * Sphaeropsis Malorum Pk. Abbotsford, Que.

Pyrus Maulei

- * Tubercularia vulgaris (Tode) Fr. Arboretum, Ottawa, Ont.

Quercus macrocarpa Michx.

- * Gloeosporium canadense E. & E. Abbotsford, Que.

Quercus rubra L.

- * Cronartium Quercuum Miyabe, Constance Bay, Ont.

Ranunculus acris L.

- Erysiphe Polygoni DC. *Berthierville, Que.; York county, N.B.

Rhamnus alnifolia L'Her

- Puccinia coronata Cda. Cowan, Man., slight; Beausejour, trace; Winnipeg, moderate infection.

Rheum Rhaponticum L. (cult.)

- * Puccinia Phragmitis Koern. Inwood, Man.

Rhus Toxicodendron L.

- Cylindrosporium Toxicodendri (Curt.) E. & E. Cowan, Man., Aug. 11, general

Ribes racemifolium Howell

- * Cronartium ribicola Fischer, West Summerland, B.C.

Ribes americanum Mill.

- Puccinia Pringsheimiana Kleb. Sydney, Man.; severe.

Ribes aureum Pursh

- * Cronartium ribicola Fischer, L'Assomption, Que.

Ribes cynosbati L.

- * Cronartium ribicola Fischer, Mt. Burnet, Que.

Ribes Grossularia L. (cult.)

- * Cronartium ribicola Fischer, Cap Rouge, Que.
- * Sphaerotheca mors-uvae (Schw.) Berk. Dresden, Ont.
- * Gloeosporium Ribis (Lib.) Mont. & Desm. Sorrento, B.C.

Ribes lacustre (Pers.) Poir.

- * Cronartium ribicola Fischer, South Canoe, B.C.; Billings Bridge, Ont.

Ribes nigrum L.

- * Cronartium ribicola Fischer, Ottawa, Ont.; Beebe, Neuville, Que.; Charlottetown, P.E.I.

- * Septoria Ribis Desm. Indian Head and Saskatoon, Sask.
- Ribes oxycanthoides L.
* Gloeosporium Ribis (Lib.) Mont. & Desm. Iberville, Que.
- Ribes prostratum L'Her
* Puccinia Pringsheimiana Kleb. Federal Hill, Gaspé, Que.
- Ribes triste Pall.
* Puccinia Ribis DC, Lake Waskesiu, Sask.
- Ribes vulgare Lam.
* Gloeosporium Ribis (Lib.) Mont. & Desm. Iberville, Que.
- Rosa blanda Ait.
Cercospora rosaeola Pass. Kelwood, Man., heavy infection.
* Phragmidium speciosum (Fr.) Cke. Belleville, Ont.
- Rosa sp.
Phragmidium speciosum (Fr.) Cke. *Scott, Sask.; Glenmont, N.S., July 22, severe infection.
* P. americanum Diet. Abbotsford, Que.
* Hendersonia Rosae Kickx. Ottawa, Ont.
* Coryneum microstictum Victoria, B.C., on hybrid tea rose.
- Rubus Idaeus L. (cult.)
* Septoria Rubi West. Emileville and Aylmer, Que.
* Tuberularia vulgaris (Tode) Fr. Edmonton, Alta.
- Rubus odoratus L.
* Septoria Rubi West. Kingsmere, Que.
- Rubus parviflorus Nutt.
* Phragmidium occidentale Arth. Peachland and Enderby, B.C.
- Rubus pubescens Raf.
Septoria Rubi West. Morden Man., moderate infection.
- Rubus sp.
* Asterina rubicola Ell. & Ev. Summerland, B.C.
* Coniothyrium Fuckelii Sacc. Eastview, Ont.
* Phragmidium Rubi-Idaeii (DC.) Karst. South Canoe, Peachland, and West Summerland, B.C.
* Pucciniastrum americanum (Farl.) Arth. South Canoe, B.C.; Abbotsford and Chelsea, Que.
- Rudbeckia laciniata L.
Erysiphe Cichoracearum DC. Dauphin, Man., slight infection;
* Ottawa, Ont.

Plasmopara Halstedii (Farl.) Berl. & de Toni, Lac du Bonnet, Man., slight infection.
Uromyces perigynius Halst. Brandon, Man., severe infection.

Rumex obtusifolius L.

* Ramularia circumfusa E. & E. Kingsmere, Que.

Russula sp.

* Hypomyces hyalinus (Schw.) Tul. La Salle woods, Montreal, Que.

Sagittaria latifolia Willd.

* Doassansia deformans Setch., Ottawa, Ont.

Salix sp.

* Fusicladium saliciperdu (All. & Tub.) Tub. Lennoxville, Que.

* Gloeosporium Salicis West. Neuville, Que.

Melampsora Bigelowii Thum. *Enderby and West Summerland, B.C., Reniver, Man., Aug. 11, moderate infection.

* M. Humboldtiana Speg. South Canoe, B.C.

* Ocellaria ocellata (Pers.) Schroet. Ottawa, Ont.

* Trimmatostroma americana Thum. M.A.C., Winnipeg, Man.

* Uncinula Salicis (DC.) Wint. Armstrong, South Canoe, and Summerland, B.C.; M.A.C., Winnipeg, Man.; Lennoxville, Que.

Sanicula marilandica L.

* Puccinia marylandica Lindr. Kingsmere, Que.

Senecio aureus L.

* Cystopus cubicus (Strauss) Lév. Anticosti island, Que., Aug. 1933. (J. Adams)

Setaria viridis (L.) Beauv.

* Sclerospora graminicola (Sacc.) Schroet. Oxbow, Sask.

Setaria sp.

* Sclerospora graminicola (Sacc.) Schroet. Indian Head, Sask.

Shepherdia canadensis (L.) Nutt.

* Puccinia coronata Cda. Salmon Arm, B.C.

* Sphaerotheca Humuli (DC.) Burr. Tachie, B.C.

Smilacina racemosa (L.) Desf.

* Cylindrosporium Smilacinae E. & E. Kingsmere, Que.

Soja max Piper (cult.)

* Pseudomonas glycinea Coerp. Indian Head, Sask.

Solidago canadensis L.

Coleosporium Solidaginis (Schw.) Thum. Common in York and Sunbury counties, N.B.

Solidago gilvocanescens (Rydb.) Smyth

Puccinia extensicola Plowr. Coulter, Man., June 6, common.

Solidago macrophylla Pursh

* Coleosporium Solidaginis (Schw.) Thüm. Federal Hill, Gaspé, Que.

* Puccinia extensicola Plowr. Federal Hill, Gaspé and Kingsmere, Que.

Solidago nemoralis Ait.

* Coleosporium Solidaginis (Schw.) Thüm. Elgin, Ont.

* Puccinia Stipae Arth. Brandon, Man.

Solidago rugosa Mill.

* Darlucia Filum (Biv.-Bern.) Cast. on Coleosporium Solidaginis (Schw.) Thüm. Berthierville, Que.

* Puccinia extensicola Plowr. Lennoxville, Que.

Sonchus arvensis L.

Several plants were seriously injured by a disease of the mosaic or yellows type at M.A.C., Winnipeg, Man. (G.R. Bisby)

A single plant found affected by yellows (virus) near Keswick, N.B. (D. J. MacLeod)

Sorbus americana Marsh.

* Entomosporium maculatum Lév. Mt. Carmel and Ste. Anne de la Pocatière, Que.

* Gymnosporangium clavipes Cke. & Pk. Ste. Anne de la Pocatière, Que., Aug. 7, (E. Campagna). No record of the occurrence of the above species on Sorbus has been found. (I. L. Connors)

Sorbus intermedia

* Coniothyrium pirina Sacc. Arboretum, Ottawa, Ont.

Spiraea discolor Pursh.

Phyllactinia corylea (Pers.) Karst. General at Saanichton, B.C., Sept. 1933.

Stellaria longipes Goldie

* Puccinia Arenariae (Schum.) Wint. Vonda, Sask.

Stieronema ciliatum (L.) Raf.

Puccinia Distichlidis Ell. & Ev. Bede, Man., 1933, moderate infection.

Septoria conspicua E. & M. Kelwood, Man., severe.

Stipa comata Trin. & Rupr.

* Ustilago hypodytes (Schl.) Fr. Vonda, Sask., Aug. 17.,

50-75% of the plants were infected around a lake.

Symphoricarpos occidentalis Hook.

Puccinia Crandallii Pamm. & Hume, *Pike Lake, Sask.;

Strathclair, Man., slight.

Septoria Symphoricarpi E. & E. Cartwright, Man.

Symphoricarpos racemosus Michx.

* Puccinia Symphoricarpi (Hark.) Arth. & Jack. West Summerland, B.C.

Syringa vulgaris L.

* Microsphaera Alni (Wallr.) Salm. Ottawa, Ont.; Beebe, Que.

* Phyllosticta Syringae West. Beebe, Que.

Taraxacum officinale Weber

Puccinia Hieracii (Schum.) Mart. *South Canoe, Vernon,

Enderby, B.C.; general occurrence in Manitoba.

Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schlecht.)

Salm. Vancouver island, B.C., October, common.

Thalictrum alpinum L.

* Puccinia Clematidis (DC.) Lagerh. Anticosti island, Que. (J. Adams) Aug. 1933.

Thalictrum dioicum L.

Puccinia Clematidis (DC.) Lagerh. Mather, Man., June 5, common.

Thalictrum ?sparsiflorum Turcz.

* Puccinia Clematidis (DC.) Lagerh. Peachland, B.C.

Tilia vulgaris Hayne

* Gloeosporium Tiliae Oud. Halifax, N.S.

Triticum aestivum L.

* Claviceps purpurea (Fr.) Tul. Springside, Sask., on Reward wheat.

* Puccinia triticea Erikss. Andrewsville, Ont., on Huron wheat.

* Septoria nodorum Berk. Yorkton, Sask.

Tsuga canadensis (L.) Carr.

* Thekapsora Vacciniorum Karst. Cloud Lake, Kings county, N.S. July 9.

Ulmus sp.

* Gnomonia ulmea (Schw.) Thüm. Ottawa, Ont.

* Taphrina Ulmi (Fuek.) Johans., Berthierville, Que.

Urtica sp.

- * Puccinia Urticae Lagerh. Pike Lake, Sask.; Point Pelee National Park, Ont.

Vaccinium ?corymbosum L.

- Exobasidium Vaccinii Wor. Cloud Lake, Kings Co., N.S.

Vaccinium macrocarpon Ait.

- * Synchytrium Vaccinii Thomas, Port Mouton, N.S., July 5, common in this bog (W.S. Blair)

Vaccinium sp.

- Calyptospora Goeppertiana Kuhn, Rawdon, N.S., Aug. 1. Single plant seen affected.

Verbena hastata L.

- * Septoria Verbenae Gerard, Beebe, Que.

Viburnum Opulus L. var. americanum (Mill.) Ait.

- * Microsphaera Alni (Wallr.) Salm. Ste. Anne de la Pocatière, Que.

Vicia Cracca L.

- * Uromyces Fabae (Pers.) de Bary, Abbotsford, Que.

Vicia sparsifolia Nutt.

- * Peronospora Viciae (Berk.) de Bary, Prud'homme, Sask.
* Uromyces coloradensis Ell. & Ev. Prud'homme, Sask.

Vicia villosa Roth

- * Ascochyta Viciae Lib. South Canoe, B.C.
* Ovularia Schwarziana Magn. East Kelowna and South Canoe, B.C.

Vitis sp.

- * Plasmopara viticola (B. & C.) Berl. & de Toni, Constance Bay, Ont.

Viola canadensis L.

- * Puccinia Violae (Schum.) DC. Kingsmere, Que.

Viola tricolor L.

- * Ramularia agrestis Sacc. Sidney, B.C.

Viola sp.

- Puccinia Violae (Schum.) DC. Knowlton, Que.

Wisteria chinensis Sweet

- Phyllosticta Wistariae Sacc. Beebe, Que.

Yucca sp.

Coniothyrium concentricum (Desm.) Sacc. Agassiz, B.C.

Zea Mays L.

* Puccinia Sorghi Schw. North Gower and Ottawa, Ont.; Aylmer, Que.

MISCELLANEOUS FUNGI

Aleuria aurantia Fuck. on ground, Chelsea, Que.

Delitschia furfuracea Niessl, on rabbit dung, Long Point, Man., June, 1932 (Coll. Wm. Gussow, det. E.S. Dowding)

Fimetaria fimicola (Rob.) Griff. & Seav. on cariboo dung, Maguish, N.W.T. (Coll. Wm. Gussow, det. E.S. Dowding)

Hypomyces lactifluorum (Schw.) Tul. Clova, Que.

Hypomyces (near) polyporinus Pk. apparently on some wood-destroying basidiomycete on logs, La Salle woods, Montreal, Que. (coll. H.A.C. Jackson, det. Ruth Macrae).

Hypoxylon rubiginosum (Pers.) Fr. on an old stump, M.A.C., Winnipeg, Man.

Lamprospora trachycarpa (Curr.) Seav. on greenhouse benches, Ottawa, Ont. (det. Irene Mounce)

Peziza repanda Pers. on ground, Ottawa, Ont.

Pilobolus Kleinii (sporangia) on horse dung. Ottawa, Ont. (E.S. Dowding)

Pilobolus longipes van Tiegh. (sporangia) on horse dung, Ottawa, Ont. (E.S. Dowding)

Plectania floccosa (Schw.) Seav. on dead wood, Montreal, Que.

Scodellina auricula (Schaeff.) Seav. L'Islet Co., Que.

Scodellina leporina (Batsch) Gray, on ground, North Saanichton, B.C.