

VII. DISEASES OF MISCELLANEOUS PLANTS

The parasitic fungi reported in this section are arranged under the scientific name of the host, on which they occur. The hosts are arranged alphabetically. All records, which were new or added to the information already published in the past two Surveys are reported here. In addition about one-tenth of the specimens added to the herbarium in the past year are reported. The number in curved brackets at the end of the item indicates the number under which the specimen is entered in the Division Herbarium. (The collections and exsiccatae in the Herbarium previous to 1929 are unnumbered). Some of these fungi and even some of the specimens have been reported in works readily available, but many of them have not been reported although specimens may be found in some herbaria. Time nor space did not permit of extending the list further. A very few saprophytic fungi are also added.

Acer saccharum Marsh.

Gloeosporium decolorans Ell. & Ev. July 28, Southwald Tp., Elgin Co., Ont. Coll. and Det. J. Dearness (1032)

Acer spicatum Lam.

Uncinula circinata Cke. & Pk. Sept. 18, Farmer's Rapids, Que. (1092)

Actaea rubra (Ait.) Willd.

Puccinia Clematidis (DC.) Lagerh. July 14, 1922, Treherne, Man.

Agropyron repens (L.) Beauv.

Phyllachora graminis (Pers.) Fuck. Sept. 16, Waterville, Que. Heavy.

Claviceps purpurea (Fr.) Tul. Sept., York county, N.B.

Agroseris sp.

Puccinia patruelis Arth. July 12, Elstow, Sask. (1039)

Agrostis tenuis

Pilletia decipiens (Pers.) Wint. Found Feb. 28 at Ottawa in a shipment of seed from the United States by Mr. Wright, Seed Branch. Det. H.T. Gussow and I.L. Connors. Source of seed unknown.

Alnus incana (L.) Moench.

Taphrina Alni-incanae (Kuhn) Magn. Sept. 12, Mer Bleu, Ont. (1097). Aug. 28, Ste. Famille, Que. (1095). Sept. 16, Lennoxville, Que.; Sept. 25, Farmer's Rapids, Que. (1094). Common in New Brunswick.

Alnus incana (cont'd)

- Erysiphe aggregata (Pk.) Parl. Aug. 28, Ste. Famille, Que.
Microsphaera Alni (Wallr.) Salm. Sept. 25, Farmer's
 Rapids, Que. (1085)
Phyllactinia corylea (Pers.) Karst. Aug. 25, Deschambault,
 Que.; Sept. 25, Farmer's Rapids, Que. (1086)

Amaranthus retroflexus L.

- Cystopus Bliti (Biv.-Bern.) Lév. Aug. 19, Abbotsford and
 Aug. 25, Berthierville, Que. July 14, Vineland Station, Ont.
 July 16, Saskatoon, Sask. (1049)

Amelanchier sp.

- Apiosporina Collinsii (Schw.) v. Höhn. Both conidial and
 perithecial stages in abundance. June 2, Kentville, N.S.

Apocynum scopulorum Greene

- Cylindrosporium Apocyni Ell. & Ev. Aug. 6, Wroxton, Sask.
 (914). Found also at Saskatoon. Abundant.

Arabis retrofracta Greene

- Puccinia monoica Arth. May 1, Kelowna, B.C. Aeciospores
 from this collection germinated normally by a germ tube, May
 13 to 15 at Ottawa. (739)
Puccinia Holboellii (Hornem.) Rostr. May 1, Summerland,
 B.C. (740)

Aralia nudicaulis L.

- Cercoseptoria leptosperma (Pk.) Petrak, July 22, Cochin,
 Sask. Det. Dr. Dearness.

Arisaema triphyllum (L.) Schott.

- Uromyces Caladii (Schw.) Parl. July 4, Vineland Station,
 Ont. Pycnia and aecia collected May 19, 1930 at Vineland
 Station.

Artemisia sp. (prob. camporum Rydb.)

- Puccinia universalis Arth. July 21, North Battleford,
 Sask. (1051)

Asparagus officinalis L. (cult.)

- Cladosporium ?fasciculare Fr. Present on a stem spot, Sept.
 29, Saskatoon, Sask. "May be this species" - Dr. Dearness.

Aster cordifolius L.

- Puccinia Asteris Duby, June 2, 1930, Lincoln county, Ont.
 Heavy. Also collected on A. acuminatus Michx. at the same place.

Aster novae-angliae L.

Colosporium Solidaginis (Schw.) Thüm. Sept. 7, Billings Bridge, Ont.

Aster spp.

Colosporium Solidaginis (Schw.) Thüm. Aug. 20, Abbotsford and Sept. 17, Sherbrooke, Que. Moderate to heavy infection.

Aster ?longulus Sheld.

Erysiphe Cichoracearum DC. Sept. 1, Saskatoon, Sask. Heavy (1054)

Avena fatua L.

Ustilago Avenae (Pers.) Jens. Experimental weed garden, University, Saskatoon, Sask; 0.5 per cent infection. Simmonds (Sci. Agr. 11:78-79. 1930) reported that he had only found U. levis on wild oats in Canada (T.C. Vanterpool).

Betula sp.

Microsphaera Alni (Wallr.) Salm. Sept. 13, Emma Lake, Sask. (1061)

Bidens frondosa L.

Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schlecht.) Salm. Sept. 18, Farmer's Rapids, Que. (1091); Sept. 28, Hull, Que. (1068)

Bromus ciliatus L.

Urocystis Agropyri (Preuss.) Schroet. Aug. 1, Kepasiwin, Alta. Marshy place.

Chamaenerion spicatum (Lam.) S.F. Gray

Puccinia ludibunda Ell. & Ev. Fairly abundant July 10, on one small bluff near Kelliher, Sask. (1037)

Chenopodium album L.

Peronospora effusa (Grev.) Rabh. July 16, Saskatoon, Sask. Heavy. (1050)

Chiogines hispidula (L.) T. & G.

Chrysomyxa Chioginis Diet, June 16, Clova, Que. (881)

Chrysanthemum Leucanthemum L.

Yellows (Virus). Found frequently on this weed in York county, N.B.

Circaea alpina L.

Puccinia Circaeae Pers. Sept. 1, 1927, Crooked River, Sask.
(1026)

Circaea pacifica Asch. & Magn.

Puccinia Circaeae Pers. Sept. 9, 1930. Langley Prairie,
B.C. (1063)

Cirsium arvense (L.) Scop.

Puccinia suaveolens Rostr. June 6, Abbotsford, Que. About
25 per cent of the plants affected.

Claytonia virginica L.

Puccinia Mariae-Wilsoni G.W. Clinton April 19, Lincoln
county, Ont. Aeciospores germinated by a germ tube. (R.Fitzpatrick)

Clematis ligusticifolia Nutt. (cult.)

Cercospora squalidula Pk. Aug. 13, 1928, Indian Head, Sask.
(1060)

Cogswellia ?macrocarpa (Nutt.) M.E. Jones

Puccinia Jonesii Pk. May 1, Summerland, B.C.

Corylus sp.

Gloeosporium Coryli (Desm.) Sacc. July 3, Lennoxville, Que.

Septoria corylina Pk. Aug. 27, Ste. Famille, Que.

Cryptosporrella anomala (Pk.) Sacc. June 15, Port Burwell,

Ont. (861). (See U.S.P.D. Reporter Supp. 70. June 1, 1929, p. 257)

Crataegus sp.

Gymnosporangium clavipes Cke. & Pk. June 30, Bath, Ont.

(886) and July 6, Arboretum, Ottawa, Ont.

Ctenophyllum pectinatum (Hook.) Rydb.

Physalospora aurantia Ell. & Ev. Oct. 4, Saskatoon, Sask.

Septoria psammophila Sacc. Sept. 7, 1930, Sutherland, Sask.

On leaves and stems. Det. Dr. Dearness.

Eleagnus commutata Bernh.

Puccinia Caricis-Shepherdiae Davis, July 16, North Battle-
ford, Sask. (1036)

Elymus virginicus L.

Puccinia Clematidis (DC.) Lagerh. Sept. 7, Billings Bridge.
Ont.

Epilobium hirsutum L.

Pucciniastrum Epilobii Otth. Oct. 22, Kingston, Ont. (1069)

Equisetum affine Engelm.

Titeospora detospora (Sacc.) Bubak, June 12, Macdowall,
Sask. Det. Dr. Dearness.

Erigeron sp.

Yellows (Virus) Common on this weed at Fredericton, N.B.

Fraxinus americana L.

Piggotia Fraxini Berk. & Curt. Aug. 25, Berthierville, Que. (1099)

Fraxinus nigra Marsh

Phyllactinia corylea (Pers.) Karst. Sept. 18, Farmer's Rapids, Que. (1083)

Gaultheria procumbens L.

Schizothyrium Gaultheriae (Curt.) v. Höhn (Asterira Gaultheriae Curt.) Oct. 14, Cooksville, Ont. On plants for export. (1096)

Geranium Robertianum L.

Stigmatea Robertiani Fr. May 4, Vineland Station, Ont.

Glyceria grandis Wats.

Ustilago longissima (Sow.) Tul. Aug. 21, Colington, Alta.

Helianthus aridus Rydb.

Puccinia Helianthi Schw. II & III. Sept. 1, Saskatoon, Sask. Also collected at same time and place on H. petiolaris Nutt. and H. subtuberosus Bourgeau. (1055). On Helianthus annuus L. (cult.) Aug. 19, Broderick, Sask.

Hordeum sp. (cult.)

Helminthosporium teres Sacc. Aug. 14, Langham, Sask. (1045).

Hosackia denticulata Drew

Erysiphe Polygoni DC. July 16, 1930, Saanichton, B.C. (1071)

Impatiens sp.

Plasmopora obducens Schroet. Sept. 18, Farmer's Rapids, Que. (1093)

Juncus tenuis Willd.

Uromyces Silphii (Syd.) Arth. Sept. Prince county, P.E.I.

Lactuca pulchella (Pursh) DC.

Puccinia patruelis Arth. July 12, Elfros, Sask. (1038)

Puccinia minussensis Thüm. O. Kelowna, B.C. (738)

Lapsana communis L.

Puccinia Lapsanae Fuck. Oct. 22, Kingston, Ont.

Leontodon autumnalis L.

Yellows (Virus). Widespread in York county, N.B., seriously injuring flower heads, which are often contorted and lacking in seed. (J.L. Howatt) Also observed at Kentville, N.S.

Lepargyrea canadensis (L.) Greene

Sphaerotheca Humuli (DC.) Burr. Sept. 13, Emma Lake, Sask.

Lonicera tatarica L. (cult.)

Microsphaera Alni (Wallr.) Salm. var. Lonicerae (DC.) Salm. Sept. 3, Saskatoon, Sask. (1053)

Lycopus virginicus L.

Puccinia angustata Pk. Aug., Prince county, P.E.I. Common.

Matricaria inodora L.

Yellows (Virus) July 10, Sydney, N.S.

Mertensia paniculata (Ait.) G. Don.

Erysiphe Cichoracearum DC. Several plants were apparently killed in an experimental flower garden, Rosthern, Sask. on Aug. 1. (1040)

Osmorrhiza Claytoni (Michx.) Clarke

Puccinia Pimpinellae (Strauss) H. Mart. June 2, Lincoln county, Ont. Heavy.

Physalis heterophylla Nees

Puccinia Physalidis Pk. Aug. 18, Abbotsford, Que. About 50 per cent of the plants infected.

Pinus Banksiana Lamb.

Cronartium Comandrae Pk. June 12, Macdowall, Sask. (1035)

Plantago major L.

Erysiphe Cichoracearum DC. Aug. 26, Neuville, Que.
Yellows (Virus). Common at Fredericton, N.B.

Plantago Rugelii Dcne.

Erysiphe Cichoracearum DC. Sept. 25, Farmer's Rapids, Que. (1089)

Podophyllum peltatum L.

Puccinia Podophylli Schw. Vineland Station, Ont. Telia on basal scales, May 8; aecia on leaves, May 20; telia on leaves, June 19. (R. Fitzpatrick). May 18, 1930, Georgetown, Ont.

Polygonum pennsylvanicum L.

Ustilago utriculosa (Nees) Tul. Aug., Fredericton, N.B.
Severe.

Polygonum Persicaria L.

Septoria Polygonorum Desm. Aug. 25, Berthierville, Que.
Ustilago utriculosa (Nees) Tul. Sept., Queens county,
P.E.I.

Potentilla canadensis L.

Phragmidium Potentillae-canadensis Diet. May 8, Annapolis
county, N.S.

Potentilla sp.

Pernospora Potentillae de Bary, Sept., Cavendish, P.E.I.
Heavy.

Phragmidium Potentillae (Pers.) Karst. July 28, Saskatoon,
Sask. Common (1042)

Prenanthes alba L.

Puccinia Orbicula Fk. & Clinton, July 8, Vineland Station,
Ont.

Prunus virginiana L.

Nectria cinnabarina (Tode) Fr. Oct. 7, Magog, Que., on dead
branches.

Pulsatilla ludoviciana (Nutt.) Heller

Puccinia Pulsatillae Kalchbr. Saskatoon, Sask. Heavy on
a few plants.

Ranunculus acris L.

Erysiphe Polygoni DC. Sept. 25, Farmer's Rapids (1090) and
Aug. 25, Berthierville, Que.

Ribes lacustre (Pers.) Poir.

Cronartium ribicola Fischer, Sept. 7, Billing's Bridge, Ont.

Ribes oxycanthoides L.

Puccinia Pringsheimiana Kleb. July 10, Kelliher, Sask.

Rosa ?pisocarpa Gray

Phragmidium Rosae-Californicae Diet. Oct. 12, Salmon Arm,
B.C. Coll. H.T. Güssow. (1100)

Rosa sp.

Phragmidium disciflorum (Tode) J.F. James, Oct. 22, Ottawa.
Ont. (1064)

Rubus ?allegheensis Porter

Gymnoconia Peckiana (Howe) Trotter, Aug. 25, Berthierville,

Que. Kuehneola albida (Kühn) Magn. also at Berthierville.

Rubus ?canadensis L.

Gymnoconia Peckiana (Howe) Trotter, Aug. 25, Berthierville,

Que. Kuehneola albida (Kühn) Magn. Also at Berthierville.

Rubus Idaeus L. (cult.) var. Herbert.

Septoria Rubi West. Oct. 6, Sutton West, Ont. (1034)

Rubus sp.

Phragmidium imitans Arth. III. Light infection on native red raspberry. Sept. 14, Emma Lake, Sask.

Gymnoconia Peckiana (Howe) Trotter. Very general and severe in Kings county and the eastern part of Annapolis, N.S.

Sabina horizontalis (Moench) Rydb.

Karschia deformata Pk. June 13, Beaver Creek, Sask. Det. Dr. Dearness.

Salix sp.

Rhytisma salicinum (Pers.) Fr. Aug. 13, Biggar, Sask.

Sambucus canadensis L.

Microsphaera Grossulariae (Wallr.) Lév. Sept. 25, Farmer's Rapids, Que. Some of the perithecia were parasitized by Cicinnobolus Cesatii de Bary. (1088)

Sambucus canadensis L. var. laciniata.

Cytospora sp. (near C. Sambuci Died.) Saskatoon, Sask. 1931. Det. Dr. Dearness.

Scirpus sp.

Hypoderma scirpinum DC. Sept. 13, Emma Lake, Sask. Det. Dr. Dearness.

Scutellaria laterifolia L.

Erysiphe Cichoracearum DC. Sept. 18, Farmer's Rapids, Que. (1084)

Setaria viridis (L.) Beauv.

Sclerospora graminicola (Sacc.) Schroet. July, Man., two fields, Common.

Solidago rugosa Mill.

Coleosporium Solidaginis (Schw.) Thüm, Aug. 25, Berthierville, Que.

Solidago rugosa (cont'd)

The rust was parasitized by Darluca filum (Biv.-Bern.) Cast. The rust was also collected on Solidago sp. at Emma Lake, Sask.; Abbotsford and Beebe, Que.; throughout New Brunswick, and on S. canadensis in Queens county, P.E.I.

Solidago spp.

Puccinia extensicola Flowr. June 9, Ottawa, Ont.

Erysiphe Cichoracearum DC. Sept. 7, Billings Bridge, Ont.

Spergula arvensis L.

Yellows (Virus). Common in York county, N.B.

Stipa viridula Trin.

Ustilago hypodytes (Schl.) Fr. July 28, 1927, Oak Lake, Man. (1081)

Claviceps purpurea (Fr.) Tul. July 31, 1928, Brandon, Man. (1082)

Symphoricarpos sp.

Puccinia Crandallii Pamm. & Hume, July 17, North Battleford, Sask. (1041) Common in Saskatchewan.

Taraxacum officinale Weber.

Puccinia Hieracii (Schum) Mart. July 31, Saskatoon, Sask. Common.

Ramularia Taraxaci Karst. July, Kentville, N.S. Not as common as usual.

Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schlecht.) Salm. Sept. 29, Saskatoon, Sask. Heavy.

Thermopsis rhombifolia (Nutt.) Richards.

Phoma thermopsidicola Henn. May 31, Saskatoon, Sask. Abundant on the dead stems of last year's growth. Det. Dr. Dearness.

Thuja occidentalis L.

Keithia thujina Durand, July 31, Biscotasing, Ont. Det. Irene Mounce. (1031)

Tilia americana L.

Uncinula Clintonii Pk. Sept. 25, Farmer's Rapids, Que. (1087)

Torresia odorata (L.) Hitchc.

Puccinia graminis Pers. Sept. 1, Saskatoon, Sask. Green vigorous plants, growing in a field of summer fallow among volunteer cereals, were heavily infected.

Trifolium hybridum L.
Uromyces Trifolii (Hedw.f.) Lév. July 31, Melfort, Sask.
 (1043) Polythrincium Trifolii Kunze also present.

Triticum aestivum L. (cult.)
Tilletia laevis Kühn Aug. 13, Lett, Sask. (1062)
T. Tritici (Bjerk.) Wint. Aug. 13, Lett, Sask. (1058)

Ulmus glabra Huds. var. Camperdownii Redh.
Phleospora ulmicola (Biv.-Bern.) Allesch. Sept. 28,
 Strathroy, Ont. Det. Irene Mounce. (1029)

Verbascum Blatteria L.
Septoria verbascicola Berk. & Curt. July 9, Vineland Station,
 Ont.

Vicia Pamericana Muhl.
Uromyces coloradensis Ell. & Ev.O.I, old. Aug. 14, 1929,
 St. Gregor, Sask. (1024)

Vicia Gracca L.
Microsphaera Alni (Wallr.) Salm. Sept. 30, Abbotsford, Que.
 Moderate infection, but common.
Uromyces Fabae (Pers.) de Bary, Sept. 18, Abbotsford, Que.
 Heavy.

Viola pubescens Ait.
Puccinia Violae (Schum.) DC. Sept. 7, Billings Bridge, Ont.
 Also collected on Viola sp. Sept. 18, Abbotsford, Que.

Zea Mays L. (cult.)
Puccinia Sorghi Schw. Aug. 28, Ste. Anne de la Pocatière,
 Que. (1098)

Zizania palustris L.
Claviceps purpurea (Fr.) Tul. Common along St. John river
 about Fredericton, N.B. (J.L. Howatt)

Saprophytic Fungi

Ascotremella turbinata Seaver on dead wood, La Salle Woods,
 Montreal, Que. Sept. 23, Coll. H.A.C. Jackson, Det. Irene
 Mounce, confirmed, F.J. Seaver (1027); on decorticated
 beech, Farmer's Rapids, Que., Sept. 25. Det. Irene Mounce.
 (1028)

- Mitrula irregularis (Pk.) Durand. Sept. 30, Branchley Beach.
Coll. B. Hurst, Det. Irene Mounce (1030). Oct. 15, 1928,
Childs Bush, near Hawthorne, Ont. (1077)
- Patella scutellata (L.) Morgan, Between Swastika and Dane,
Ont. Coll. L.O. Overholts, 13295; Det. Lilian Cash as
Lachnea scutellata (L.) Gill. (1075)
- Patella theleboldoides (Alb. & Schw.) Seaver, Ont. 20, Merr-
ifield's Corners, Que. On old cow dung in pastures (1065)
- Peziza clypeata Schw. On rotten wood, Sept. 12, La Salle woods,
Montreal, Que. Coll. H.A.C. Jackson, Det. Irene Mounce.
(1033)
- Spathularia clavata (Schaeff.) Sacc. In coniferous woods,
Oct. 20, Merrifield's Corners, Que. (1067)
- Tylostoma campestre Morgan. May 10, Sutherland, Sask. Sandy
location. Det. Dr. Dearness.
- Underwoodia columnaris Pk. Aug. 1, Agricultural College, Man.
1928. Coll. G.R. Bisby, (1080)
- Urnula Craterium (Schw.) Fr. May 31, 1929, Agricultural College,
Man. (1079)