

VII. DISEASES OF MISCELLANEOUS PLANTS

Most of the records reported in this section were contributed by Messrs. R. C. Russell and René Pomerleau, who are located at Saskatoon, Saskatchewan and Berthier, Quebec, respectively. It was impossible to add many reports from specimens collected at Ottawa during the past season, as most of this material is awaiting determination. It would have been preferable to have placed certain items in the preceding sections, but it was noticed that they were out of place after the manuscript of those sections were complete. When the year is not mentioned it is to be understood that the collection was made in 1932.

Abies balsamea (L.) Mill

Melampsorella Carvophyllacearum Schroet. July 1, Lanoraie, Que.

Peridermium balsameum Pk. July 17, Quebec.

Acer pennsylvanicum L.

Rhytisma punctatum (Pers.) Fr. Lavaltrie, Que.

Acer saccharinum L.

Uncinula circinata Cke. & Pk. Sept. 28, 1930, Que.

Rhytisma acerinum Sept. 19, 1930, Berthier, Que.

Phylllosticta acericola Cke. & Ell. July 21, Berthier, Que.

Acer saccharum Marsh

Rhytisma acerinum Sept. 2, 1930, Berthier, Que.

Acer spicatum Lam.

Rhytisma punctatum (Pers.) Fr. Sept. 16, 1930, St. Gabriel, Que.

Actaea rubra (Ait.) Willd.

Puccinia Clematidis (DC.) Lagerh, June 18, Berthier, Que.

Aesculus Hippocastanum L.

Phyllosticta Paviae Desm. Sept. 2, 1930, Berthier, Que.

Agropyron repens (L.) Beauv.

Claviceps purpurea (Fr.) Tul. Four per cent of the heads infected Aug. 15, on one farm in Temiscouata county, Que. Very slight infection, Sept. 14, Experimental Station, Charlottetown, P.E.I.

Erysipha graminis DC. Moderate infection July 18, Macdonald College, Que.

Lagena radicolica Vant. & Ledingham, Fairly heavy infection May 28, Vineland station, Ont. (G. A. Ledingham)

Polymyxa graminis Ledingham. Heavy infection May 29, Lincoln county, Ont. First report of this fungus on grasses other than

wheat, rye or barley (G. A. Ledingham). This obligate parasite was discovered at Toronto in 1930 in the roots of Marquis wheat seedlings grown in Ontario soil (Ledingham, Phytopath. 23:20. 1933).

Puccinia Clematidis (DC.) Lagerh. July 18 Macdonald College, Que.

Ustilago hypodytes (Schl.) Fr. This smut fairly heavily infected the grass in a vacant lot at Thamesville, Ont. The host was not identified with certainty.

Agropyron Smithii Rydb.

Claviceps purpurea (Fr.) Tul. Trace August 2, Kerdersley, Sask.

Agrostis canina L.

Claviceps purpurea (Fr.) Tul. July 15, St. Ferdinand, Que.

Agrimonia gryposepala Wallr.

Pucciniastrum Agrimoniae (Schw.) Tranz. Oct. 9, 1931. Lanoraie, Que.

Alnus incana (L.) Moench.

Taphrina Robinsoniana Gies. July, Berthier, Que. Although I have not critically examined the specimens of Taphrina, which Mr. Pomerleau kindly sent me in support of this determination, I am certain that the Farmers Rapids, Que., collection (1094) reported last year in the Can. Plant Disease Survey p. 117 as T. Alni-incanae fits exactly Giesenhagen's description of T. Robinsoniana. It is possible that T. Alni-incanae also occurs in North America, but as far as I am aware no one has critically examined a large number of collections and shown that the two species intergrade into each other, the only justification of uniting them as done by Seymour (Host Index p. 231). In the Farmers Rapids collection it was clearly demonstrated that the asci possess stalk cells and the mycelium forms a compact subcuticular hymenium. (I. L. Connors)

Alnus sitchensis Sarg.

Phyllactinia corylee (Pers.) Karst. Oct. 9, Summerland, B.C.

Ameranthus retroflexus L.

Cystopus Bliti (Biv.-Bern.) Lév. Sept. 2, Indian Head, Sask., common; Aug. 6, Berthier, Que.

Amelanchier sp.

Aprosporina Collinsii (Schw.) v. Höhn. June 12, Otterburne, Man.

Andromeda polifolia L.

Rhytisma Andromedae June 12, Prince Albert, Sask., May 22, Lanoraie, Que.

Apocynum cannabinum L.

Puccinia Seymouriana Arth. July 4, Ile Dupas, Que.

Aralia nudicaulis L.

Nyssopsora clavellosa (Berk.) Arth. July 21, Emma and Waskesiu Lakes. (W. P. Fraser and R.C. Russell)

Arctostaphylos rubra (Rehder & Wilson) Fernald

Thekaspora sparsa (Wint.) P. Magn. June 19, Point Churchill, Man. (Wm. C. Gussow).

Arctostaphylos Uva-ursi (L.) Spreng.

Chrysomyxa Arctostaphyli Diet. June 4, Duck Lake, Sask. Heavy infection, but of rare occurrence. Apparently first record in Saskatchewan. (W.P. Fraser)

Arisaema triphyllum (L.) Schott.

Uromyces Caladii (Schw.) Farl. Aug. 15, Lavaltrie, Que.

Aster cordifolius L.

Puccinia extensicola Plowr. July 4, St. Ignace, Que.

Aster novi-belgii L.

Coleosporium Solidaginis (Schw.) Thüm. July 30, 1931, Berthier, Que.

Aster umbellatus Mill.

Erysiphe Cichoracearum DC. Aug. 2, 1931, St. Cuthbert, Que.

Astragalus ?striatus Nutt.

Physalospora aurantia Ell. & Ev. Aug. 10, Dubuc, Sask. Several plants infected in a small area.

Berberis vulgaris L. var. purpurea

Puccinia graminis Pers. July 1, Berthier, Que. A heavy infection was found this year on cultivated common barberries in the nursery. Every leaf was so heavily covered with aecia that the shrubs were considerably disfigured. The seed came from France.

Bidens frondosa L.

Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schlecht.) Salm. Sept. 3, 1931, Ste. Elizabeth, Que.

Calamagrostis canadensis (Michx.) Beauv.
Phyllachora graminis (Pers.) Fockl. Aug. 20, Ste. Elizabeth,
 Que.

Caltha palustris L.
Puccinia calthaecola Schroet. July 24, Waskesiu Lake, Sask.

Capsella Bursa-pastoris (L.) Medic
Cystopus candidus (Pers.) de Bary, Sept. 18, Queens county,
 P.E.I.

Carex aquatilis Wahl
Cintractia Caricis (Pers.) Magn. July 24, Prince Albert
 National Park. Eighty to 90 per cent of the heads were more or
 less smutty.

Chenopodium album L.
Puccinia subnitens Diet. July 1, Quill Lake, Sask. (T.
 Arnason). First collection on this host in Saskatchewan.

Chelone glabra L.
Septoria Wilsonii Clinton, Sept. 8, 1931, Lanoraie, Que.

Chrysanthemum Leucanthemum L.
 Yellows (Virus). One hundred per cent of the plants of this
 weed and Erigeron canadensis L. were diseased in test plots at
 Fredericton, N.B. The disease was widespread and destructive on
 them. Also 10 per cent of the plants of Cirsium arvense (L.)
 Scop. were affected at the Experimental Farm, Fredericton. (See
 China Aster Yellows)

Cicuta occidentalis Greene
Puccinia Cicutae Lasch. Sept. 12, Saskatoon, Sask. (W. P.
 Fraser). Probably the first collection in Saskatchewan.

Clematidis virginiana L.
Puccinia Clematidis (DC.) Lag. July 15, St. Ferdinand, Que.

Comandra pallida A. DC.
Cronartium Comandrae Pk. July 24, Turtle Lake, Sask. (W.P.
 Fraser).

Puccinia Comandrae Pk. July 24, Turtle Lake, Sask. (W. P.
 Fraser). (First record of this species in Saskatchewan.)

Conringia orientalis (L.) Dumort.
Plasmodiophora Brassicae Woron. Sept. 30, Queens county.

P.E.I. Very severe. (R. R. Hurst)

Cornus stolonifera Michx.

Phylloctinia corylea (Pers.) Karst. Oct. 9, Summerland, B.C.

Corylus americana Walt.

Gnomoniella Coryli (Batsch.) Sacc. July 15, 1931, Lake Beauport, Que.

Phyllactinia corylea (Pers.) Karst. Sept. 15, 1931, L'Assomption, Que.

Dulichium arundinaceum (L.) Britt.

Puccinia Dulichii Syd. (= P. extensicola Plowr.) Sept. 24, Berthier, Que.

Elymus innovatus Beal

Claviceps purpurea (Fr.) Tul. July 25, Prince Albert National Park, Sask.

Eupatorium purpureum L.

Erysiphe Cichoracearum DC. Sept. 8, 1931, Lanorie, Que.

Fragaria virginiana L.

Marssonina Potentillae (Desm.) Magn. July 4, Berthier, Que.

Fraxinus americana L.

Puccinia sparganoides Ell. & Barth. June 24, 1931, Berthier, Que.

Gaura coccinea Pursh

Uromyces plumbarius Pk. June 16, Saskatoon, Sask.; June 9, Wawenosa, Man. (1900).

Helianthus annuus L.

Puccinia Helianthi Schw. Sept. 27, Berthier, Que.

Hieracium canadense Michx.

Puccinia Hieracii (Schum.) H. Mart. Aug. 25, Berthier, Que.

Hordeum jubatum L.

Puccinia graminis Pers. July 28, Indian Head, Sask.

Ustilato Lorentziana Thum. June 29, Saskatoon, Sask.

Houstonia longifolia Gaertn.

Uromyces houstoniatus J.L. Sheldon, June 11, Macdowall, Sask.

- Ilex verticillata (L.) Gray
Rhytisma Ilicis-canadensis Schw. July 23, 1931, Berthier, Que.
- Iris versicolor L.
Heterosporium gracile (Wallr.) Sacc. Sept. 15, 1931, Joliette, Que.
- Iris sp. (cult.)
Heterosporium gracile (Wallr.) Sacc. Aug. 15, Lavaltrie, Que.
- Juglans cinerea L.
Marssonina Juglandis (Lib.) Magn. Sept. 2, 1930, Berthier, Que.
- Juniperus communis L. var. depressa Pursh.
Gymnosporangium clavariaeforme (Jacq.) DC. Annapolis county, N.S. Trace
- Kalmia angustifolia L.
Mycosphaerella colorata (Pk.) Earle, Apr. 21, 1931, Berthier, Que., July 5, Franklin, Que.
- Lawn Grass
Erysiphe graminis DC. Sept. 23, 1930, Berthier, Que.
- Ledum groenlandicum Oeder
Chrysomyxa ledicola Lagerh. June 27, Berthier, Que.
Gloeosporium Ledi Schroet. July 1, Berthier, Que.
- Lepidium densiflorum Schrad.
Cystopus candidus (Pers.) Lév. June 21, Saskatoon, Sask.
- Lonicera (cult.)
Microsphaera Alni (DC.) Salm. Sept. 4, 1930, Berthier, Que.
- Lycopus uniflorus Michx.
Puccinia angustata Pk. July 1, Berthier, Que.
- Malva rotundifolia L.
Septoria malvicola Ell. & Mart. Aug. 7, Lanoraie, Que.
- Malva sp. (cult.)
Puccinia malvacearum Berk. Aug. 28, Berthier, Que.
- Mentha canadensis L.
Puccinia angustata Pk. Sept. 1931, Berthier, Que.

- Mitella nuda L.
Puccinia Heucherae July 24, Waskesiu Lake, Sask.
- Myrica Gale L.
Cronartium Comptoniae Arth. Sept. 6, 1931, Berthier, Que.
- Nemopanthus mucronata (L.) Trel.
Microsphaera Alni (DC.) Salm. Sept. 29, 1930, Berthier, Que.
Rhytisma Illicis-canadensis, Sept. 8, 1931, Lanoraie, Que.
- Oenothera pumila L.
Septoria Oenotherae Westd. June 21, Berthier, Que.
- Oenothera Victorinii Gates
Erysiphe Polygoni DC. Oct. 8, 1930, St. Clet, Que.
- Onoclea sensibilis L.
Uredinopsis americana Syd. Aug. 15, 1931, Berthier, Que.
- Oryzopsis asperifolia Michx.
Phyllachora graminis (Pers.) Fckl. Oct. 5, Berthier, Que.
- Osmorrhiza longistylis (Torr.) DC.
Puccinia Pimpinellae Aug. 8, Pike Lake, Sask. (W.P. Fraser).
First report of this rust from Saskatchewan.
- Osmunda cinnamomea L.
Uredinopsis Osmundae Magn. Aug. 9, Lanoraie, Que.
- Osmunda regalis L.
Uredinopsis Osmundae Magn. Sept. 2, 1931, St. Cuthbert, Que.
- Petasites palmata (Ait.) Gray
Puccinia conglomerata (Strauss) Schmidt. & Kunze. July 24,
Waskesiu Lake, Sask.
- Phalaris arundinacea L.
Claviceps purpurea (Fr.) Tul. July 23, Berthier, Que.
- Picea mariana (Mill.) BSP.
Chrysomyxa ledicola Lagerh. Aug. 8, Berthier, Que.
- Pinus Banksiana Lamb.
Coleosporium solidaginis (Schw.) Thüm. June 4, Duck Lake,
Sask. (W.P. Fraser) Infection heavy, common.

- Pinus resinosa Ait.
Coleosporum Solidaginis (Schw.) Thüm. June 23, Berthier, Que.
- Pinus Strobus L.
Cronartium ribicola Dietrich, May 1, 1931, Berthier, Que. For the distribution and importance of white pine blister rust in Quebec see the Can. Plant Disease Survey for 1931 p. 104.
- Pinus sylvestris L.
Peridermium sp. (Woodgate rust) May 15, Berthier, Que. Many trees were found bearing aecia during the spring of 1932.
- Plantago major L.
Erysiphe Cichoracearum DC. Sept. 2, 1931, Berthier, Que. Oct. 31, Charlottetown, P.E.I. Heavy.
Yellows (Virus) 2 per cent of the plants in the test plots at Fredericton, N.B. The disease is widespread on this weed.
- Polygonum aviculare L.
Erysiphe Polygoni DC. Aug. 1, Queens county, P.E.I. Heavy.
Uromyces Polygoni (Pers.) Fuck. Aug. 20, Prince county, P.E.I. Heavy.
- Polygonum ?Hydropiper L.
Sphacelotheca Hydropiperis (Schum.) de Bary Sept. 9, Berthier, Que.
- Polygonum Persicaria L.
Puccinia Polygoni-amphibii Pers. Sept. 6, 1931, Berthier, Que.
- Polygonum virginianum L.
Ustilago anomala J. Kunze. Sept. 8, Berthier, Que.
- Populus balsamifera L.
Fusicladium radiosum (Lib.) Lindr. July 9, 1931, Berthier, Que.
- Populus deltoides Marsh.
Fusicladium radiosum (Lib.) Lindr. July 9, 1931, Berthier, Que.
Melampsora medusae Thüm. Aug. 25, 1930, Berthier, Que.
- Populus nigra L. var. italica Du Roi
Sclerotium bifrons Ell. & Ev. June 24, Lavaltrie, Que.
- Populus tremuloides Michx.
Fusicladium radiosum (Lib.) Lindr. June 22, Berthier, Que.

Hypoxylon pruinatum (Klotzsh) Cke. Aug. 5, Blucher, Sask.
Ten per cent of the trees in one bluff in the "bleeding" stage.

Portulaca oleracea L.

Cystopus Portulacae (DC.) Lév. July 15, Saskatoon, Sask.
Heavy and common on this weed, wherever it is abundant, Queens
county, Aug. 5, Heavy.

Prenanthes alba L.

Sphaerotheca Humuli (DC.) Burr. var. fuliginea (Schl.) Salm.
Aug. 18, 1931. St. Joseph de Sorel, Que.

Prunus pennsylvanica L.f.

Cylindrosporium hiemale Higg. Aug. 21, Berthier, Que.

Prunus virginiana L.

Cylindrosporium lutescens Higg. Sept. 2, 1930, Berthier, Que.

Psedera quinquefolia (L.) Greene

Uncinula necator (Schw.) Burr. Sept. 28, 1931, St. Ferdinand,
Que.

Psoralea Argophyllae Pursh.

Uromyces Argophyllae Seym. I. June 29, Saskatoon, Sask.

Pteridium latiusculum (Desv.) Maxon

Cryptomyces Pteridis (Reb.) Rehm. Aug. 15, 1931, Berthier,
Que.

Quercus rubra L.

Septoria querceti Thum. Sept. 2, 1930, Berthier, Que.

Ranunculus acris L.

Erysiphe Polygoni Aug. 16, St. Eleanors, P.E.I.

Raphanus Raphanistrum L.

Erysiphe Polygoni DC. Sept. 15, greenhouse, Charlottetown,
P.E.I.

Rhamnus alnifolia L'Her

Puccinia coronata Corda, June 22, Berthier, Que.

Rhamnus cathartica L.

Puccinia coronata Corda, June 22, Berthier, Que.

Rhododendron canadense (L.) BSP.

Thekapsora minima (Arth.) Syd. Aug. 9, Lanoraie, Que.

- Rhus Toxicodendron L.
Pileolaria Toxicodendri (Br. & Rav.) Arth. Sept. 20,
 Lanoraie, Que.
- Ribes Cynosbati L.
Cronartium ribicola Dietrich, Sept. 17, 1931, Berthier, Que.
- Ribes glandulosum Weber (R. prostratum L'Her.)
Cronartium ribicola June 1, 1932, Berthier, Que.
Puccinia Pringsheimiana Lagerh. June 14, Berthier, Que.
- Ribes Grossularia L.
Cronartium ribicola, Aug. 18, St. Alexis, Que.
- Ribes lacustre (Pers.) Poir.
Cronartium ribicola, Nov. 1, 1931, St. Alexis, Que.
- Ribes nigrum L.
Cronartium ribicola, Aug. 29, 1931, Berthier, Que.
- Ribes sp. (wild)
Puccinia Ribis DC. July 24, Prince Albert National Park, Sask.
- Rosa blanda Ait.
Phragmidium americana Diet. Sept. 27, Berthier, Que.
Sphaerotheca pannosa (Wallr.) Lévl. Sept. 8, 1930, Berthier,
 Que.
- Rosa sp. (cult.)
Marssonina Rosae (Lib.) Died. Very common in the region
 especially in nurseries. Sept. 21, 1931, Berthier, Que.
Phragmidium americanum Diet. Aug. 15, Berthier, Que.
- Rubus idaeus L.
Pucciniastrum americanum (Farl.) Arth. Sept. 19, St. Gabriel,
 Que.
- Rubus triflorus Richards
Gymnoconia Peckiana (Howe) Trotter, May 20, 1931, Berthier,
 Que.
- Rubus sp. " Wild
Pucciniastrum americanum (Farl.) Arth. Sept. 1, Queens county,
 P.E.I. Common.

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Rumex crispus L.

Olpidium sp. May 29, Vineland Station, Ont. Infection heavy.
Plants along bank of stream. (G.A. Ledingham)

Salix discolor Muhl.

Rhytisma salicinum (Pers.) Fr. Aug. 14, 1931, Berthier, Que.

Uncinula Salicis (DC.) Wint. Sept. 28, 1930, Lanoraie, Que.

Salix sp.

Fusicladium saliciperduum (All. & Tub.) Tub. July 1, Ste.
Anne de la Pocatière, Que.

Melampsora Biglowii Thüm. Sept. 15, 1931, Lanoraie, Que.

Melampsora Humboldtiana Speg. Sept. 8, Lanoraie, Que.

Sambucus canadensis L.

Microsphaera Alni (DC.) Salm. Sept. 17, 1930k Berthier, Que.

Sanguisorba canadensis L.

Gloeosporium Sanguisorbae Fckl. Aug. 21, Ste. Elizabeth, Que.

Scirpus paludosus A. Nels.

Uromyces Scirpi (Cast.) Burr. Sept. 16, Vonda, Sask.

Scirpus validis Vahl.

Puccinia angustata Pk. Aug. 26, Pike Lake, Sask. (W.P. Fraser).

Scirpus sp.

Puccinia angustata Pk. Sept. 8, 1931, Lanoraie, Que.

Scrophularia leporella Bicknell

Septoria Scrophulariae Pk. Aug. 24, Berthier, Que.

Setaria glauca (L.) Beauv.

Ustilago neglecta (L.) Beauv. Sample received from the
Dominion Seed Branch Dec. 22, 1931. Origin not reported. Green
seeds of this host smutted with U. neglecta were present in clover
seed. (I. L. Connors)

Setaria viridis (L.) Beauv.

Sclerospora graminicola (Sacc.) Schroet. Aug. 8, Oxbow, Sask.
Four per cent of the plants affected in one field.

Sium cicutaefolium Schrank

Uromyces Scirpi (Cast.) Burr. July 4, Berthier, Que.

- Solidago canadensis L.
Coleosporium Solidaginis (Schw.) Thüm.
- Solidago humilis Pursh.
Coleosporium Solidaginis Sept. 8, 1931, Lanoraie, Que.
- Solidago Randii (Porter) Britt.
Puccinia ?Virgaureae (DC.) Lib. June 29, Lanoraie, Que.
- Solidago rugosa Mill.
Coleosporium Solidaginis (Schw.) Thüm. Aug. 10, Beatty, Sask.
Sept. 5, 1930, Berthier, Que.
Erysiphe Cichoracearum DC. Sept. 2, 1931, St. Cuthbert, Que.
- Solidago sp.
Erysiphe Cichoracearum DC. Aug. 1, Queens county, P.E.I.
- Sorbus americana Marsh
Entomosporium maculatum Lév. Sept. 2, 1930, Berthier, Que.
- Spartina Michauxiana Hitchc.
Puccinia spargnioides Ell. & Barth. Sept. 6, 1931, Berthier, Que.
- Strophostyles helvola (L.) Britt.
Uromyces appendiculatus (Pers.) Link, Sept. 20, Lanoraie, Que.
- Taraxacum officinale Weber
Puccinia Hieracii (Schum.) Mart. July 22, Indian Head, Sask.
Common.
Sphaerotheca Humuli (DC.) Burr. var fuliginea (Schlecht.) Salm.
July 22, Indian Head, Sask. Common.
- Tragopogon porrifolius L. (Cult.)
Cystopus cubicus (Strauss) Lév. Aug. 4, Berthier, Que. Infection quite heavy in gardens.
- Trifolium hybridum L.
Uromyces Trifolii (Hedw.f.) Lév. Sept. 3, 1931, Ste. Elizabeth, Que.
- Ulmus americana L.
Gnomonia ulmea (Schw.) Thum. Aug. 25, 1931, Deschambault, Que.
Taphrina Ulmi (Fekl.) Johans. May 9, 1931, Berthier, Que.
Disease quite widespread in spring, causing damage in the nurseries.
- Urtica gracilis Ait.
Puccinia Urticae Lagerh. June 19, Berthier, Que.; June 19,

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Point Churchill, Man. (Wm. C. Güssow)

Urtica Lvallii Wats.

Puccinia Urticae Lagerh. Macdowall, Sask.

Veratrum viride Ait.

Puccinia Veratri Duby July 15, St. Ferdinand, Que.

Verbena hastata L.

Septoria Verbenae Gerard, Sept. 20, Lanoraie, Que.

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

Puccinia Linkii Klotzsch, July 24, Waskesiu Lake, Sask.
(W. P. Fraser and R. C. Russell)

Vicia Cracca L.

Uromyces Fabae (Pers.) de Bary, Aug. 20, Berthier, Que.

Viola nephrophylla Greene

Puccinia Violae DC. Sept. 2, Berthier, Que.

Woodwardia virginica (L.) Smith

Uredinopsis Struthiopteridis Strömmer. Sept. 1, Berthier, Que.

Xanthium commune Britt.

Puccinia Xanthii Schw. July 1, Berthier, Que.

Weeds:

The following weeds were found infected with root knot (Cacomema radicola (Greef.) Cobb) when growing among infected tomatoes in greenhouses at Victoria, B.C. Plantago major, P. lanceolata, Leontodon autumnalis, Sonchus oleraceus, Senecio vulgaris, Cirsium arvense, Amaranthus retroflexus, Chenopodium album and cultivated lettuce. (J.E. Boshier)

Grasshoppers:

Entomophthora Grylli Fres. Many grasshoppers were attacked during the past summer in Manitoba. (G. R. Bisby)

Entomophthora Grylli was found on dead Arctiid caterpillars sent from the Entomological Laboratory, Chatham, Ont. The caterpillars were being reared in the laboratory when they succumbed. (E.S. Dowding)