

A LIST OF SPECIMENS DEPOSITED IN THE  
MYCOLOGICAL HERBARIUM OF THE  
FOREST RESEARCH LABORATORY,  
ST. JOHN'S, NEWFOUNDLAND

by

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A List of Specimens  
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by  
Pritam Singh

INTRODUCTION

The Mycological Herbarium of the Forest Research Laboratory, Department of Fisheries and Forestry, St. John's, Newfoundland, originated in 1961 as a reference collection of forest diseases of the Newfoundland Region. The duties of the herbarium curator were performed by Mr. D.M. Holden from 1961-1962, Mr. J. Hudak from 1964-1966, Mr. M. Ostafichuk from 1966-1967 and the author since December, 1967.

Specimens were collected by Drs. A.G. Davidson and D.R. Redmond, Ottawa; Messrs. M.A. Stillwell and E.R. Robertson, Fredericton; Messrs. D.M. Holden, J. Hudak, the author and field personnel of the Forest Insect and Disease Survey, St. John's.\* Other members of the laboratory and outside collaborators have contributed in part.

Fungi were identified primarily by the collectors and the curators. However, difficult taxonomic identifications were provided by specialists, Drs. J.A. Parmelee, J.W. Groves and R. Macrae, Plant Research Institute, Department of Agriculture, Ottawa. No attempt has been made to undertake research into the nomenclature of the species. The most recent and most accepted binomials have been selected; with few exceptions, synonyms were omitted.

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\*The Laboratory was at Corner Brook before September, 1967.

During the past eight years, 294 different diseases and fungi have been collected from stands throughout the Island and deposited in the Herbarium. These samples include 182 species and 93 genera of fungi, 1 mistletoe, 4 frost damages, and 60 host species and substrates. In this report, these are arranged by host index, taxonomic index and genera index. In the host index, hosts are listed in alphabetic order regardless of taxonomic position; fungi and other damages associated with each host are arranged alphabetically. In the taxonomic index, fungi are arranged by phyllogenetic order up to family but alphabetically by species within families; hosts are designated under species. This index also includes records of mistletoe and frost damage. The genera index is an alphabetic listing of all genera in the herbarium and denotes the families to which they belong. The list contains a number of unpublished records of host relationships and geographical distribution. Specimens on deposit from outside Newfoundland and Labrador are designated by Province, State or country. Doubtful identifications are designated by question mark. The common names of host plants are also shown with abbreviations in brackets.

This report has been prepared for the benefit and convenience of personnel of the Forest Research Laboratory, St. John's, but may be of interest to Industry and other Government agencies in Newfoundland and to mycologists or pathologists outside the region. It provides a readily accessible inventory of the important diseases and other fungi of the trees and shrubs of the region.

Specimens may be loaned for taxonomic research on request. A limited number of specimens are also available for exchange. In a few cases, no specimen, but only records of collections and their identifications are on file; these records are designated in the text by letter "R" (= record only, no specimen).

HOST INDEX

Abies balsamea (L.) Mill., balsam fir (bF.)

- Aleurodiscus amorphus (Pers. ex Fr.) Schroet.  
 Armillaria mellea (Vahl ex Fr.) Kummer  
 Auricularia auricula (Hook.) Underw.  
 Bothrodiscus pinicola Shear  
 Chlorociboria aeruginosa (Oed.) Seaver  
 Corirolellus heteromorphus (Fr.) Bond. & Singer  
 Corirolellus species (? heteromorphus or variiformis)  
 Corticium pini-canadensis (Schw.) Jacks. & Rogers  
 Dacrymyces palmatus (Schw.) Bres.  
 Daedalea species  
 Dasyscyphus agassizii (Berk. & Curt.) Sacc.  
 Exidia glandulosa Bull. ex Fr.  
 Fomes pini (Brot. ex Fr.) Karst.  
 Fomes pinicola (Sw. ex Fr.) Cke.  
 Frost damage in summer  
 Fusicoccum abietinum (Hartig) Prill. & Del.  
 Helotium species  
 Hymenochaete tabacina (Sow. ex Fr.) Lév.  
 Isthmiella faullii Darker  
 Lenzites saepiara (Wulf. ex Fr.) Fr.  
 Lenzites species  
 Lirula nervata Darker  
 Lophodermium species  
 Melampsorella caryophyllacearum Schroet.  
 Milesia fructuosa Faull  
 Milesia species

Abies balsamea (L.) Mill., balsam fir (bF.) (Cont'd)

Nectria species

Phaeocryptus nudus (Pk.) Petrak

Pleurotus mitis (Pers. ex Fr.) QuéL.

Polyporus abietinus Dicks. ex Fr.

Polyporus biformis Klotsch ex Fr.

Polyporus mollis Pers. ex Fr.

Poria candidissima (Schw.) Cke.

Pucciniastrum epilobii Otth

Radulum orbiculare Fr.

Rehmiellopsis balsameae Waterman

Rhizosphaera abietis Mang. &amp; Har.

Rhizothyrium abietis Naum.

Stereum chailletii (Pers. ex Fr.) Fr.

Stereum sanguinolentum (Alb. &amp; Schw. ex Fr.) Fr.

Acer rubrum L., red maple (rM.)

Cytospora species

Gloeosporium apocryptum Ell. &amp; Ev.

Phyllosticta minima (Berk. &amp; Curt.) Underw. &amp; Earle

Rhytisma acerinum (Pers. ex Saint Amans) Fr.

Acer spicatum Lam., mountain maple (moM.)

Gloeosporium apocryptum Ell. &amp; Ev.

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Hypoxyylon multifforme Fr.

Rhytisma punctatum (Pers.) Fr.



Alnus crispa (Ait.) Pursh, green alder (gAl.)

Dasyscyphus species

Nectria coccinea Pers. ex Fr.

Peniophora species

Alnus rugosa (Du Roi) Spreng., speckled alder (spAl.)

Chlorociboria aeruginosa (Oed.) Seaver

Cytospora species

Exidia glandulosa Bull. ex Fr.

Peniophora aurantiaca (Bres.) Höhn & Litsch.

Peniophora species

Polyporus versicolor L. ex Fr.

Taphrina robinsoniana Giesenh.

Alnus rugosa var. americana (Regel) Fern, speckled alder (spAl.)

Exidia glandulosa Bull. ex Fr.

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Schizophyllum commune Fries

Taphrina robinsoniana Giesenh.

Alnus species

Corticium leucoxanthum Bres.

Cytidia salicina (Fr.) Burt

Dacrymyces palmatus (Schw.) Bres.

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Hypoxylon fuscum Pers. ex Fr.

Hypoxylon mammatum (Wahl.) Miller

Panus stipticus (Bull. ex Fr.) Fr.

Alnus species (Cont'd.)

Peniophora aurantiaca (Bres.) Höhn. & Litsch.

Phyllactinia guttata (Fr.) Lév.

Polyporus albellus Pk.

Poria ferrea (Pers.) Bourd. & Galz.

Poria species

Stereum ochraceoflavum (Schw.) Ell.

Stereum rugosum Fr.

Taphrina robinsoniana Giesenh.

Trogia crispa Fr.

Amelanchier bartramiana (Tausch) Roem., bartram's serviceberry (bSe.)

Gymnosporangium species

Amelanchier laevis Wieg., allegheny serviceberry (aSe.)

Gymnosporangium species

Amelanchier sanguinea (Pursh) DC., roundleaf serviceberry (rSe.)

Gymnosporangium species

Amelanchier species

Apiosporina collinsii (Schw.) Höhn.

Gymnosporangium claviceps (Cke. & Pk.) Cke. & Pk.

Podosphaera clandestina (Wallr. ex Fr.) Lév.

Betula lutea Michx., yellow birch (yB.)

Fomes fomentarius (L. ex Fr.) Kickx

Fomes igniarius (L. ex Fr.) Kickx

Betula lutea Michx., yellow birch (yB.) (Cont'd.)

Hypoxylon multiforme Fr.

Polyporus albellus Pk.

Taphrina species

Betula papyrifera Marsh, white birch (wB.)

Armillaria mellea (Vahl ex Fr.) Kummer

Cylindrosporium betulae Davis

Daedalea unicolor Bull. ex Fr.

Diatrypella betulina Pk.

Fomes fomentarius (L. ex Fr.) Kickx

Fomes igniarius (L. ex Fr.) Kickx

Fomes pinicola (Sw. ex Fr.) Cke.

Fomes robustus Karst.

Ganoderma applanatum (Pers. ex Wallr.) Pat.

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Hypoxylon multiforme Fr.

Panus laevis Berk. &amp; Curt.

Panus stipticus (Bull. ex Fr.) Fr.

Peniophora aspera (Pers.) Sacc.

Peniophora species

Pholiota marginella Peck

Polyporus albellus Pk.

Polyporus arcularis Batsch ex Fr.

Polyporus betulinus Bull. ex Fr.

Polyporus brumalis Pers. ex Fr.

Polyporus pargamenus Fr.

Polyporus pubescens Schum. ex Fr.

Polyporus velutinus Fr.

Pycnoporus cinnabarinus (Jacq. ex Fr.) Karst.

Betula papyrifera Marsh, white birch (wB.) (Cont'd.)

Schizophyllum commune Fr.  
 Septoria betulae (Lib.) West.  
 Stereum hirsutum (Willd. ex Fr.) S.F. Gray  
 Stereum ostrea Blume & Nees ex Fr.  
 Stereum purpureum (Pers. ex Fr.) Fr.  
 Stereum rugosum Fr.  
 Taphrina carnea Johans.

Betula species

Polyporus pubescens Schum. ex Fr.  
 Polyporus versicolor L. ex Fr.

Coniferous wood & slash

Corticium galactinum (Fr.) Burt  
 Corticium sulphureum (Pers. ex Fr.) Fr.

Cornus canadensis L., dwarf cornel

Puccinia porphyrogenita Curt.

Corylus cornuta Marsh., beaked hazelnut

Gnomoniella coryli (Batsch ex Fr.) Sacc.

Dead wood

Cantharellus cibarius L.

Epilobium angustifolium L., great willow herb or fireweed

Pucciniastrum epilobii Otth

Kalmia angustifolia L., sheep laurel

*Mycosphaerella colorata* (Pk.) Earle

Larix laricina (Duroi) K. Koch, tamarack (tL.)

*Armillaria mellea* (Vahl ex Fr.) Kummer

*Hypodermella laricis* v. Tub.

Larix leptolepis (Sieb. & Zucc.) Gourd., Japanese larch (jL.)

*Armillaria mellea* (Vahl ex Fr.) Kummer

Larix occidentalis Nutt., western larch (wL.)

Frost damage and winter killing of seedlings

Picea abies (L.) Karst., norway spruce (nS.)

*Armillaria mellea* (Vahl ex Fr.) Kummer

Picea glauca (Moench) Voss, white spruce (wS.)

*Armillaria mellea* (Vahl ex Fr.) Kummer

*Chrysomyxa ledi* deBarry

*Chrysomyxa ledicola* Lagerh.

*Chrysomyxa empetri* Schroet. ex Cummins

*Fomes pinicola* (Sw. ex Fr.) Cke.

*Lophodermium filiforme* Darker

*Meliola pinicola* Dearn.

*Polyporus picipes* Fr.

*Polyporus schweinitzii* Fr.

*Polyporus tomentosus* Fr.

*Poria* species

Picea mariana (Mill.) BSP., black spruce (bS.)

- Arceuthobium pusillum Peck.  
 Armillaria mellea (Vahl ex Fr.) Kummer  
 Calocera viscosa Fr.  
 Chrysomyxa ledi deBary  
 Chrysomyxa ledicola Lagerh.  
 Chrysomyxa species  
 Corirolellus variiformis (Pk.) Sarkar  
 Corticium notabile Jackson  
 Fomes pini (Brot. ex Fr.) Karst.  
 Fomes pinicola (Sw. ex Fr.) Cke.  
 Frost damage and winter killing of seedlings  
 Isthmiella crepidiformis Darker  
 Lenzites saepiara (Wulf. ex Fr.) Fr.  
 Lophodermium filiforme Darker  
 Melampsorella caryophyllacearum auct. non Schroet.  
 Peniophora septentrionalis Laurila  
 Polyporus abietinus Dicks. ex Fr.  
 Polyporus adustus Willd. ex Fr.  
 Poria candidissima (Schw.) Cke.  
 Tremella lutescens Pers.

Picea sitchensis (Bong.) Carr., sitka spruce (sS.)

- Armillaria mellea (Vahl ex Fr.) Kummer

Picea species

- Corticium galactinum (Fr.) Burt  
 Corticium laeve Pers. ex Fr.

Picea species (Cont'd.)

Corticium pelliculare Karst.  
 Fomes pini (Brot. ex Fr.) Karst.  
 Hymenochaete tabacina Sow. ex Lév.  
 Lenzites saepiara (Wulf. ex Fr.) Fr.  
 Peniophora gigantea (Fr.) Masee  
 Peniophora separans Burt  
 Phyllotopsis nidulans (Pers. ex Fr.) Singer  
 Polyporus abietinus Dicks. ex Fr.  
 Polyporus borealis Fr.  
 Polyporus fibrillosus Karst.  
 Polyporus semipileatus Pk.  
 Stereum sanguinolentum (Alb. & Schw. ex Fr.) Fr.  
 Vararia investiens (Schw.) Karst.

Pinus nigra var. poiretiana (Ant.) Aschers. & Graebn., corsican pine

Frost damage and winter killing of seedlings

Pinus strobus L., eastern white pine (ewP.)

Armillaria mellea (Vahl ex Fr.) Kummer  
 Cronartium ribicola J.C. Fischer  
 Cucurbitaria pithyophila (Fr.) de Not.  
 Lophodermium nitens Darker  
 Lophodermium pinastri (Schrad. ex Hook.) Chev.  
 Polyporus species  
 Tympanis pithya (Fr.) Karst.

Populus balsamifera L., balsam poplar (bPo.)

Ganoderma applanatum (Pers. ex Wallr.) Pat.

Populus balsamifera L., balsam poplar (bPo.) (Cont'd.)

*Pollacia elegans* Serv.

Populus nigra L., black poplar (bPo.)

*Taphrina aurea* Fr.

Populus nigra var. italica Muenchh., lombardy poplar (lPo.)

*Taphrina aurea* Fr.

Populus species

*Crepidotus fulvotomentosus* Pk.

*Cryptochaete rufa* (Fr.) Karst.

*Peniophora polygonia* (Pers. ex Fr.) Bourd. & Galz.

*Phlebia strigosozonata* (Schw.) Lloyd

*Pollacia radiosa* (Lib.) Bald. & Sacc.

*Polyporus adustus* Willd. ex Fr.

*Polyporus elegans* Bull. ex Fr.

*Polyporus pargamenus* Fr.

*Polyporus versicolor* L. ex Fr.

*Schizophyllum commune* Fr.

*Tympanis spermatispora* (Nyl.) Nyl.

Populus tremuloides Michx., trembling aspen (tA.)

*Ciborinia whetzellii* (Seav.) Seav.

*Cryptochaete rufa* (Fr.) Karst.

*Encoelia fascicularis* (Alb. & Schw. ex Fr.) Karst.

*Exidia glandulosa* Bull. ex Fr.

*Hymenochaete tabacina* (Sow. ex Fr.) Lév.



Populus tremuloides Michx., trembling aspen (tA.) (Cont'd.)

Melampsora abietis-canadensis Ludwig ex Arth.  
 Panus stipticus (Bull. ex Fr.) Fr.  
 Peniophora populnea (Pk.) Burt  
 Peniophora rufa (Fr.) Karst.  
 Peniophora species  
 Pollacia radiosa (Lib.) Bald. & Sacc.  
 Polyporus adustus Willd. ex Fr.  
 Polyporus brumalis Pers. ex Fr.  
 Polyporus pargamenus Fr.  
 Polyporus velutinus Fr.  
 Poria species  
 Schizophyllum commune Fr.  
 Stereum purpureum (Pers. ex Fr.) Fr.  
 Tympanis spermatispora (Nyl.) Nyl.  
 Trechispora brinkmanni (Bres.) Rogers & Jacks.

Prunus pennsylvanica L.f., pin cherry (pCh.)

Coccoomyces hiemalis Higgins  
 Dibotryon morbosum (Schw.) Theiss. & Syd.  
 Haplosporella species  
 Polyporus albellus Pk.  
 Polyporus brumalis Pers. ex Fr.  
 Polyporus pocula (Schw.) Berk. & Curt.  
 Polyporus versicolor L. ex Fr.  
 Stereum hirsutum (Willd. ex Fr.) S.F. Gray  
 Taphrina wiesneri (Rathay) Mix

Prunus species

Dibotryon morbosum (Schw.) Theiss. & Syd.

Exidia glandulosa Bull. ex Fr.

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Peniophora aspera (Pers.) Sacc.

Poria prunicola (Murr.) Sacc. & Trott.

Prunus virginiana L., choke cherry (cCh.)

Taphrina confusa (Atk.) Gies.

Pseudotsuga taxifolia (Poir.) Britton, Douglas fir (D.)

Armillaria mellea (Vahl ex Fr.) Kummer

Rhamnus alnifolia L'Hér., dwarf alder

Puccinia coronata Cda.

Ribes glandulosum Grauer, skunk currant

Cronartium ribicola J.C. Fischer

Ribes hirtellum Michx., bristly gooseberry

Cronartium ribicola J.C. Fischer

Rubus canadensis L.

Gymnoconia peckiana (Howe) Trott.

Rubus species

Gymnoconia peckiana (Howe) Trott.

Salix bebbiana Sarg., bebb or long-beaked willow (W.)

Melampsora abieti-caespraeorum Tub.

Salix discolor Muhl., large pussy willow (W.)

Cercospora salicina Ell. & Ev.

Melampsora epitea Thüm.

Phyllactinia guttata (Fr.) Lév.

Rhytisma salicinum (Pers.) Fr.

Uncinula salicis (DC. ex Mérat) Wint.

Salix species (? candida Flügge) (W.)

Melampsora abieti-caespraeorum Tub.

Salix species (? discolor Muhl.) (W.)

Melampsora abieti-caespraeorum Tub.

Salix species (W.)

Coniophora puteana (Schum. ex Fr.) Karst.

Cytospora salicina (Fr.) Burt

Fomes ignarius (L. ex Fr.) Kickx

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Hypoxylon mammatum (Wahl.) Miller

Melampsora abieti-caespraeorum Tub.

Melampsora epitea Thüm.

Melampsora species

Pollacia saliciperda (All. & Tub.) Arx

Polyporus elegans Bull. ex Fr.

Polyporus nidulans Fr.

Rhytisma salicinum (Pers.) Fr.

Sambucus pubens Michx., catberry

*Nectria cinnabarina* Tode ex Fr.

Soil & humus

*Amanita muscaria* (L.) Fr.

*Clavulina cristata*

*Coprinus comatus* Fr.

*Craterellus cantharellus* (Schw.) Fr.

*Dentinium repandum* (Fries) S.F. Gray

*Lycoperdon* species

*Phellodon tomentosus* (Fries) Banker

*Pleurotus* species (? *porrigens* (Pers. ex Fr.) Kummer)

*Polyporus elegans* Bull. ex Fr.  
(mixed with rotting wood)<sup>1</sup>

*Polyporus fomicola* Berk. & Curt.

*Polyporus perennis* (L.) Fries

*Polyporus tomentosus* Fr.

Solidago species

*Coleosporium asterum* (Diet.) Sacc.

Sorbus americana Marsh, American mountain ash (aMo.)

*Gymnosporangium cornutum* Arth. & Kern.

*Gymnosporangium* species

*Poria ferrea* (Pers.) Bourd. & Galz.

Sorbus aucuparia L., European mountain ash (eMo.)

*Gymnosporangium* species

Sorbus decora (Sarg.) Schneid., showy mountain ash (sMo.)

Daedalea confragosa Bolt. ex Fr.

Gymnosporangium cornutum Arth. & Kern.

Gymnosporangium species

Nectria cinnabarina Tode ex Fr.

Radulum orbiculare Fr.

Sorbus species

Gymnosporangium cornutum Arth. & Kern.

Pycnoporus cinnabarinus (Jacq. ex Fr.) Karst.

Taxus canadensis Marsh., Canada yew

Sphaerulina taxicola (Pk.) Berl.

Thalictrum polygamum Muhl., muskrat weed

Puccinia recondita Rob. ex Desm.

Ulmus parvifolia Jacq., Chinese elm (cE.)

Nectria cinnabarina Tode ex Fr.

Vaccinium cespitosum Michx., English blueberry

Pucciniastrum goeppertianum (Kühn) Kleb.

Vaccinium species

Ramularia effusa Pk.

TAXONOMIC INDEX

ASCOMYCETES-TAPHRINALES-TAPHRINACEAETaphrina aurea Fr.

Populus nigra

Populus nigra var. italica

Taphrina carnea Johans.

Betula papyrifera

Taphrina confusa (Atk.) Gies.(= Taphrina cecidemophila (Atk.) Gies.)

Prunus virginiana

Taphrina robinsoniana Giesenh.(= Taphrina alni-incanae auct. Am., non (Kühn) Magn.)

Alnus rugosa

Alnus rugosa var. americana

Alnus species

Taphrina species

Betula lutea

Taphrina wiesneri (Rathay) Mix(= Taphrina cerasi (Fckl.) Sadeb)

Prunus pennsylvanica

ASCOMYCETES-ERYSI PHALES-CAPNODIACEAE

Phaeocryptopus nudus (Pk.) Petrak

(= Adelopus nudus (Pk.) Höhn.)

Abies balsamea



ASCOMYCETES-ERYSIPHALES-ERYSIPHACEAE

Phyllactinia guttata (Fr.) Lév.

(= Phyllactinia corylea (Pers.) Karst.)

Alnus species

Salix discolor

Podosphaera clandestina (Wallr. ex Fr.) Lév.

(= Podosphaera oxycanthae (DC.) deBary)

Amelanchier species

Uncinula salicis (DC.) ex Mérat) Wint.

Salix discolor

ASCOMYCETES-ERYSIPHALES-MELIOLIACEAE

Apiosporina collinsii (Schw.) Höhn.

(= Dimerosporium collinsii (Schw.) Thüm.)

Amelanchier species

Meliola pinicola Dearn.

Picea glauca

ASCOMYCETES-PHACIDIALES-HYPODERMATACEAEHypodermella laricis v. Tub.(= Hypodermella laricis v. Tub. var. octospora Dearn.)

Larix laricina

Isthmiella crepidiformis Darker(= Bifusella crepidiformis Darker)

Picea mariana

Isthmiella faullii Darker(= Bifusella faullii Darker)

Abies balsamea

Lirula nervata Darker(= Hypodermella nervata Darker)

Abies balsamea

Lophodermium filiforme Darker

Picea glauca

Picea mariana

Lophodermium nitens Darker

Pinus strobus

Lophodermium pinastri (Schrad. ex Hook.) Chev.

Pinus strobus

Lophodermium species

Abies balsamea

Rhytisma acerinum (Pers. ex Saint Amans) Fr.

Acer rubrum

Rhytisma punctatum (Pers.) Fr.

Acer spicatum

Rhytisma salicinum (Pers.) Fr.

Salix discolor

Salix species

ASCOMYCETES-PHACIDIALES-PHACIDIACEAE

Coccomyces hiemalis Higgins

Prunus pennsylvanica

ASCOMYCETES-DOTHIDEALES-DOTHIDEACEAE

Dibotryon morbosum (Schw.) Theiss. & Syd.

Prunus pennsylvanica

Prunus species

ASCOMYCETES-HYPOCREALES-NECTRIACEAE

Nectria cinnabarina Tode ex Fr.

Sambucus pubens

Sorbus decora

Ulmus parvifolia

Nectria coccinea Pers. ex Fr.

Alnus crispa

Nectria species

Abies balsamea

ASCOMYCETES-SPHAERIALES-ALLANTOSPORAE (ALLANTOSPHAERIACEAE)

Diatrypella betulina Pk.

Betula papyrifera



ASCOMYCETES-SPHAERIALES-GNOMONIACEAE

Fusicoccum abietinum (Hartig) Prill. & Del.

Abies balsamea

ASCOMYCETES-SPHAERIALES-HYALOSPORAE

Gnomoniella coryli (Batsch ex Fr.) Sacc.

*Corylus cornuta*

ASCOMYCETES-SPHAERIALES-HYALODIDYMAE

Rehmiellopsis balsamea Waterman

Abies balsamea

ASCOMYCETES-SPHAERIALES-HYALOPHRAGMAE

Sphaerulina taxicola (Pk.) Berl.

*Taxus canadensis*

ASCOMYCETES-SPHAERIALES-XYLARIACEAE

Hypoxylon fuscum Pers. ex Fr.

Alnus species

Hypoxylon mammatum (Wahl.) Miller

(= Hypoxylon morsei Berk. & Curt.)

(= Hypoxylon blakei Berk. & Curt.)

Alnus species

Salix species

Hypoxylon multiforme Fr.

Acer spicatum

Betula lutea

Betula papyrifera

ASCOMYCETES-PSEUDOSPHAERIALES-CUCURBITARIACEAE

Gucurbitaria pithyophila (Fr.) de Not.

Pinus strobus

ASCOMYCETES-PSEUDOSPHAERIALES-MYCOSPHAERELLACEAE

Mycosphaerella colorata (Pk.) Earle

*Kalmia angustifolia*

ASCOMYCETES-PEZIZALES (Inoper.) - DERMATEACEAE

Encoelia fascicularis (Alb. & Schw. ex Fr.) Karst.

Populus tremuloides

Tympanis pithya (Fr.) Karst.

Pinus strobus

Tympanis spermatispora (Nyl.) Nyl.

Populus species

Populus tremuloides



ASCOMYCETES-PEZIZALES (Inoper.)-HELOTIACEAE

Chlorociboria aeruginosa (Oed.) Seaver

(= Chlorosplenium aeruginosum (Oed. ex S.F. Gray) de Not.)

Abies balsamea

Alnus rugosa

Dasyscyphus agassizii (Berk. & Curt.) Sacc.

Abies balsamea

Dasyscyphus species

Alnus crispa

Helotium species

Abies balsamea

ASCOMYCETES-PEZIZALES (Inoper.) - SCLEROTINIACEAE

Ciborinia whetzelii (Seav.) Seav.

(= Ciborinia bifrons (Whetz.) Whetz.)

(= Sclerotinia bifrons Whetz. non Seav. & Shope)

Populus tremuloides

BASIDIOMYCETES-TREMELIALES-AURICULARIACEAE

Auricularia auricula (Hook.) Underw.

Abies balsamea

BASIDIOMYCETES-TREMELLALES-DACRYMYCETACEAECalocera viscosa Fr.

Picea mariana

Dacrymyces palmatus (Schw.) Bres.

Abies balsamea

Alnus species

BASIDIOMYCETES-TREMELLALES-TREMELLACEAEExidia glandulosa Bull. ex Fr.

Abies balsamea

Alnus rugosa

Alnus rugosa var. americana

Populus tremuloides

Prunus species

Tremella lutescens Pers.

Picea mariana

BASIDIOMYCETES-UREDINALES-COLEOSPORIACEAE

Coleosporium asterum (Diet.) Sacc.

(= Coleosporium solidaginis (Schw.) Thüm.)

Solidago species

BASIDIOMYCETES-UREDINALES-MELAMPSORACEAEChrysomyxa empetri Schroet. ex Cummins

Picea glauca

Chrysomyxa ledi deBary

Picea glauca

Picea mariana

Chrysomyxa ledicola Lagerh.

Picea glauca

Picea mariana

Chrysomyxa species

Picea mariana

Cronartium ribicola J.C. Fischer

Pinus strobus

Ribes glandulosum

Ribes hirtellum (R)

Melampsora abieti-capraearum Tub.

Salix bebbiana

Salix species (? discolor)

Salix species (? candida)

Salix species

Melampsora abietis-canadensis Ludwig ex Arth.

Populus tremuloides

Melampsora epitea Thüm.

Salix discolor

Salix species

Melampsora species

Salix species

Melampsorella caryophyllacearum auct. non Schroet.

(= Melampsorella cerastii Schroet.)

Abies balsamea

Picea mariana

Milesia fructuosa Faull

(= Milesia intermedia Faull)

Abies balsamea

Milesia species

Abies balsamea



BASIDIOMYCETES-UREDINALES-PUCCINIACEAEGymnoconia peckiana (Howe) Trott.(= Gymnoconia interstitialis Lagerh.)

Rubus canadensis

Rubus species

Gymnosporangium claviceps (Cke. & Pk.) Cke. & Pk.

Amelanchier species

Gymnosporangium cornutum Arth. & Kern.(= Gymnosporangium aurantiacum Chev.)

Sorbus americana

Sorbus decora

Sorbus species

Gymnosporangium species

Amelanchier bartramiana

Amelanchier laevis

Amelanchier sanguinea

Sorbus americana

Sorbus aucuparia

Sorbus decora

Puccinia coronata Gda.

Rhamnus alnifolia

Puccinia porphyrogenita Curt.

Cornus canadensis

Puccinia recondita Rob. ex Desm.

(= Puccinia clematidis Lagerh.)

Thalictrum polygamum

Pucciniastrum epilobii Otth

(= Pucciniastrum pustulatum (Pers.) Diet.)

Abies balsamea

Epilobium angustifolium

Pucciniastrum goeppertianum (Kühn) Kleb.

Vaccinium cespitosum

BASIDIOMYCETES-POLYPORALES-THELEPHORACEAE

Aleurodiscus amorphus (Pers. ex Fr.) Schroet.

Abies balsamea

Coniophora puteana (Schum. ex Fr.) Karst.

(= Coniophora cerebella Pers.)

Salix species

Corticium galactinum (Fr.) Burt

(= Scytinostroma galactinum (Fr.) Donk)

Coniferous wood

Picea species

Corticium laeve Pers. ex Fr.

Picea species

Corticium leucoxanthum Bres.

Alnus species

Corticium microsporum (Karst.) Bourd. & Galz.

Abies balsamea

Corticium notabile Jackson

Picea mariana

Corticium pelliculare Karst.

Picea species

Corticium pini-canadensis (Schw.) Rogers & Jacks.

(= Peniophora piceina Overh.)

Abies balsamea

Corticium sulphureum (Pers. ex Fr.) Fr.

Coniferous slash

Cryptochaete rufa (Fr.) Karst.

Populus species

Populus tremuloides

Cytidia salicina (Fr.) Burt

Alnus species

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Abies balsamea

Acer spicatum

Alnus rugosa var. americana

Alnus species

Betula papyrifera

Picea species

Populus tremuloides

Prunus species

Salix species

Peniophora aspera (Pers.) Sacc.

Betula papyrifera

Prunus species

Peniophora aurantiaca (Bres.) Höhn & Litsch.

Alnus rugosa

Alnus species

Peniophora gigantea (Fr.) Masee

Picea species

Peniophora polygonia (Pers. ex Fr.) Bourd. & Galz.

(= Corticium polygonium Pers. ex Fr.)

(= Cryptochaete polygonium (Pers. ex Fr.) Karst.)

Populus species

Peniophora populnea (Pk.) Burt

Populus tremuloides

Peniophora rufa (Fr.) Boid.

(= Stereum rufum Fr.)

(= Sterellum rufum (Fr.) John Erikss.)

Populus tremuloides

Peniophora separans Burt

Picea species

Peniophora septentrionalis Laurila

Picea mariana

Peniophora species

Alnus crispa

Alnus rugosa

Betula papyrifera

Peniophora species (Cont'd.)

Populus tremuloides

Stereum chailetii (Pers. ex Fr.) Fr.

Abies balsamea

Stereum hirsutum (Willd. ex Fr.) S.F. Gray

Betula papyrifera

Prunus pennsylvanica

Stereum ochraceoflavum (Schw.) Ell.

Alnus species

Stereum ostrea Blume & Nees ex Fr.(= Stereum fasciatum (Schw.) Fr.)

Betula papyrifera

Stereum purpureum (Pers. ex Fr.) Fr.(= Stereum rugosiusculum Berk. & Curt.)

Betula papyrifera

Populus tremuloides

Stereum rugosum Fr.

Alnus species

Betula papyrifera

Stereum sanguinolentum (Alb. & Schw. ex Fr.) Fr.

Abies balsamea

Picea species

Trechispora brinkmanni (Bres.) Rogers & Jacks.

(= Grandinia brinkmanni (Bres.) Bourd. & Galz.)

Populus tremuloides

Vararia investiens (Schw.) Karst.

Picea species

BASIDIOMYCETES-POLYPORALES-CLAVARIACEAEClavulina cristata

Soil and humus (Terrestrial)



BASIDIOMYCETES-POLYPORALES-HYDNACEAE

Dentinium repandum (Fries) S.F. Gray

Soil and humus (Terrestrial)

Phellodon tomentosus (Fries) Banker

Soil and humus (Terrestrial)

Phlebia strigosozonata (Schw.) Lloyd

(= Phaeophlebia strigosozonata (Schw.) W.B. Cke.)

Populus species

Radulum orbiculare Fr.

Abies balsamea

Sorbus decora

BASIDIOMYCETES-POLYPORALES-CANTHARELLACEAE

Craterellus cantharellus (Schw.) Fr.

Soil and humus (Terrestrial)

Cantharellus cibarius Fr.

Dead wood

BASIDIOMYCETES-POLYPORALES-POLYPORACEAE

Corirolellus species (? variiformis (Pk.) Sarkar, or heteromorphus (Fr.)  
Bond. & Singer)

Abies balsamea

Corirolellus heteromorphus (Fr.) Bond. & Singer

(= Trametes heteromorpha (Fr.) Bres.)

Abies balsamea

Corirolellus variiformis (Pk.) Sarkar

(= Trametes variiformis (Pk.) Pk.)

Picea mariana

Daedalea confragosa Bolt. ex Fr.

Sorbus decora

Daedalea species

Abies balsamea

Daedalea unicolor Bull. ex Fr.

Betula papyrifera

Fomes fomentarius (L. ex Fr.) Kickx

Betula lutea

Betula papyrifera

Fomes igniarius (L. ex Fr.) Kickx

Betula lutea

Betula papyrifera

Fomes igniarius (L. ex Fr.) Kickx (Cont'd.)

Salix species

Fomes pini (Brot. ex Fr.) Karst.

Abies balsamea

Picea mariana

Picea species

Fomes pinicola (Sw. ex Fr.) Cke.

Abies balsamea

Betula papyrifera

Picea glauca

Picea mariana

Fomes robustus Karst.

Betula papyrifera

Ganoderma applanatum (Pers. ex Wallr.) Pat.(= Fomes applanatus (Pers. ex Wallr.) Gill.)

Betula papyrifera

Populus tremuloides

Lenzites saepiara (Wulf. ex Fr.) Fr.

Abies balsamea

Picea mariana

Picea species

Lenzites species (? trabea Pers. ex Fr.)

Abies balsamea

Polyporus abietinus Dicks. ex Fr.

Abies balsamea

Picea mariana

Picea species

Polyporus adustus Willd. ex Fr.

Picea mariana

Populus species

Populus tremuloides

Polyporus albellus Pk.

Alnus species

Betula lutea

Betula papyrifera

Prunus pennsylvanica

Polyporus arcularis Batsch ex Fr.

Betula papyrifera

Polyporus betulinus Bull. ex Fr.

Betula papyrifera

Polyporus biformis Klotsch ex Fr.

Abies balsamea

Polyporus borealis Fr.

Picea species

Polyporus brumalis Pers. ex Fr.

Betula papyrifera

Polyporus brumalis Pers. ex Fr. (Cont'd.)

Populus tremuloides

Prunus pennsylvanica

Polyporus elegans Bull. ex Fr.

Populus species

Rotting wood (Terrestrial)

Salix species

Polyporus fibrillosus Karst.

Picea species

Polyporus focicola Berk. & Curt.

Soil and humus (Terrestrial)

Polyporus mollis Pers. ex Fr.

Abies balsamea

Polyporus nidulans Fr.

Salix species

Polyporus pargamenus Fr.

Betula papyrifera

Populus species

Populus tremuloides

Polyporus perennis (L.) Fries

Soil and humus (Terrestrial)

Polyporus picipes Fr.

Picea glauca

Polyporus pocula (Schw.) Berk. & Curt.

Prunus pennsylvanica

Polyporus pubescens Schum. ex Fr.

Betula papyrifera

Betula species

Polyporus schweinitzii Fr.

Picea glauca

Polyporus semipileatus Pk.

Picea species

Polyporus species

Pinus strobus

Polyporus tomentosus Fr.

Picea glauca

Soil and humus (Terrestrial)

Polyporus velutinus Fr.

(= Polyporus zonatus Nees ex Fr.)

Betula papyrifera

Populus tremuloides

Polyporus versicolor L. ex Fr.

Alnus rugosa

Betula species

Populus species

Prunus pennsylvanica

Poria candidissima (Schw.) Gke.

Abies balsamea

Picea mariana

Poria ferrea (Pers.) Bourd. & Galz.

Alnus species

Sorbus americana

Poria prunicola (Murr.) Sacc. & Trott.

Prunus species

Poria species

Alnus species

Picea glauca

Populus tremuloides

Pycnoporus cinnabarinus (Jacq. ex Fr.) Karst.(= Polyporus cinnabarinus Jacq. ex Fr.)

Betula papyrifera

Sorbus species



BASIDIOMYCETES-AGARICALES-AGARICACEAEAmanita muscaria (L.) Fr.

Soil and humus (Terrestrial)

Armillaria mellea (Vahl ex Fr.) Kummer

Abies balsamea

Betula papyrifera

Larix laricina

Larix leptolepis

Picea abies

Picea glauca

Picea mariana

Picea sitchensis

Pinus strobus

Pseudotsuga taxifolia

Coprinus comatus Fr.

Soil and humus (Terrestrial)

Crepidotus fulvotomentosus Pk.

Populus species

Panus laevis Berk. & Curt.

Betula papyrifera

Panus stipticus (Bull. ex Fr.) Fr.

Alnus species

Betula papyrifera

Populus tremuloides

Pholiota marginella Peck

Betula papyrifera

Phyllotopsis nidulans (Pers. ex Fr.) Singer

(= Claudopus nidulans (Pers. ex Fr.) Karst.)

Picea species

Pleurotus mitis (Pers. ex Fr.) Qué<sup>l</sup>.

Abies balsamea

Pleurotus species (? porrigens (Pers. ex Fr.) Kummer)

Soil and humus (Terrestrial)

Schizophyllum commune Fr.

Alnus rugosa var. americana

Betula papyrifera

Populus species

Populus tremuloides

Trogia crispa Fr.

Alnus species

BASIDIOMYCETES--LYCOPERDALES--LYCOPERDACEAE

Lycoperdon species

Soil and humus (Terrestrial)

FUNGI IMPERFECTI-SPHAEROPSIDALES-LEPTOSTROMATACEAE

Rhizothyrium abietis Naum.

Abies balsamea

FUNGI IMPERFECTI-SPHAEROPSIDALES-SPHAEROPSIDACEAEBothrodiscus pinicola Shear

Abies balsamea

Cytospora salicina (Fr.) Burt

Salix species

Cytospora species

Acer rubrum

Alnus rugosa

Haplosporella species

Prunus pennsylvanica

Phyllosticta minima (Berk. & Curt.) Underw. & Earle(= Phyllosticta acericola Ell. & Ev.)

Acer rubrum .

Rhizosphaera abietis Mang. & Har.

Abies balsamea

Septoria betulae (Lib.) West.

Betula papyrifera

FUNGI IMPERFECTI-MONILIALES-DEMATIACEAE

Cercospora salicina Ell. & Ev.

Salix discolor

Pollacia elegans Serv.

Populus balsamifera

Pollacia radiosa (Lib.) Bald. & Cif.

Populus tremuloides

Populus species

Pollacia saliciperda (All. & Tub.) Arx

(= Fusicladium saliciperdum (All. & Tub.) Tub.)

Salix species

FUNGI IMPERFECTI-MONILIALES-MONILIACEAERamularia vaccinii Pk.

Vaccinium species

FUNGI IMPERFECTI-MELANCONIALES-MELANCONIACEAECylindrosporium betulae Davis

Betula papyrifera

Gloeosporium apocryptum Ell. & Ev.

Acer rubrum

Acer spicatum



MISTLETOE

Arceuthobium pusillum Peck.

Picea mariana

FROST DAMAGE

Seedlings of -

*Larix occidentalis**Picea mariana**Pinus nigra* var. *poiretiana*

Trees of -

*Abies balsamea*

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