

A LIST OF SPECIMENS  
DEPOSITED IN THE MYCOLOGICAL  
HERBARIUM OF THE FOREST RESEARCH  
LABORATORY, CALGARY, ALBERTA

by

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FOREST RESEARCH LABORATORY  
CALGARY, ALBERTA  
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A List of Specimens  
Deposited in the Mycological  
Herbarium of the Forest Research  
Laboratory, Calgary, Alberta

by

Lily E. McArthur<sup>1</sup>

Introduction

The Mycological Herbarium of the Forest Research Laboratory, Department of Forestry and Rural Development, Calgary, Alberta, (International herbarium code letters: CFB), originated in 1952 as a reference collection of forest diseases of the Alberta-Northwest Territories Region. The position of herbarium curator was held by Dr. R. J. Bouchier from 1952 to 1963 and by Mr. J. A. Baranyay from 1963 to 1965. The current curator is Dr. Y. Hiratsuka. Since 1961, the author has been responsible for pre-identification and maintenance of the specimens.

Approximately 7000 specimens have been deposited in the herbarium, most of which were collected from the Alberta region by field personnel of the Insect and Disease Survey Section of the Forest Research Laboratory, Calgary. Other members of the laboratory and outside collaborators have contributed in part.

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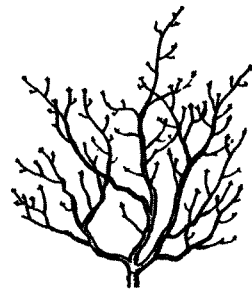
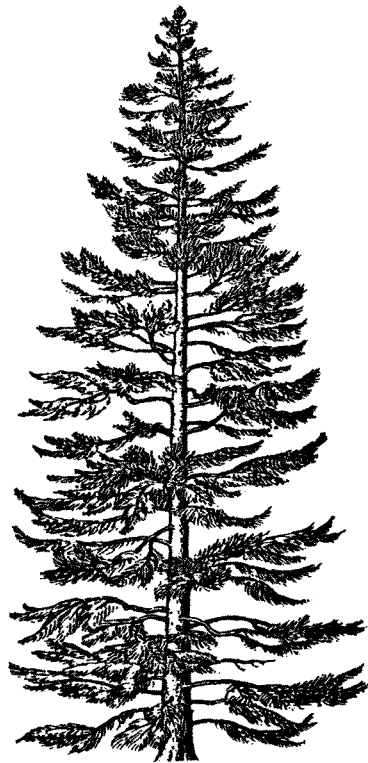
Difficult taxonomic identifications have been provided by specialists within and beyond the Department of Forestry. For these services credit is due to the following individuals of the Plant Research Institute, Department of Agriculture: Dr. J. W. Groves (chief of the Mycology Unit) for his co-operation and assistance in matters pertaining to mycological studies, Mrs. R. Arnold (Ascomycetes), Dr. G. D. Darker (Hypodermataceae), Dr. S. J. Hughes (Fungi Imperfecti), Dr. R. Macrae (Polyporaceae), Dr. L. K. Weresub (Thelephoraceae), and Dr. D. B. O. Savile (Uredinales). Dr. W. G. Ziller, Forest Research Laboratory, Victoria, has also provided identification services, particularly with respect to the Uredinales.

The list is arranged into three indices. In the host index, the fungi are arranged alphabetically according to their hosts. In the taxonomic index the fungi are arranged in alphabetical order, with host designation, under the major taxonomic groups. This index also includes records of mistletoe, animal damage, bacteria and virus. The genera index is an alphabetic listing of all genera and miscellany in the herbarium and denotes the major categories to which they belong.

Specimens on deposit from outside the Alberta-Northwest Territories Region are designated by province, state or country. Doubtful identifications are designated by a question mark. The host binomial Pinus contorta is used for Pinus contorta var. latifolia.

The author wishes to thank Dr. Y. Hiratsuka and Mr. J. A. Baranyay for their professional knowledge and guidance during the assemblage of this information.

# HOST INDEX



Abies balsamea (L.) Mill., balsam fir

- Armillaria mellea* (Vahl ex Fr.) Qué1.  
*Auricularia auricula* (Hook.) Underw.  
*Cladosporium* sp.  
*Dermatea phyllopila* Pk.  
*Fomes pini* (Thore ex Pers.) Lloyd  
*Fomes pinicola* (Sw. ex Fr.) Cke.  
*Hypodermella mirabilis* Darker  
*Hypodermella nervata* Darker  
*Lachnellula arida* (Phill.) Dennis  
*Lophodermium autumnale* Darker  
*Lophodermium lacerum* Darker - Ontario  
*Lophodermium piceae* (Fckl.) Höehn. - Ontario  
*Melampsora epitea* Thuem.  
*Melampsorella caryophyllacearum* Schroet.  
*Mytilidion* sp.  
*Nothophacidium abietinellum* (Dearn.) Reid & Cain  
*Peridermium holwayi* Syd.  
*Phaeocryptopus nudus* (Pk.) Petr.  
*Polyporus abietinus* Dicks. ex Fr.  
*Polyporus anceps* Pk.  
*Pucciniastrum epilobii* Otth  
*Sarcotrochila balsameae* (J. J. Davis) Korf  
*Scoleconectria scolecospora* (Bref.) Seaver  
*Stemonitis fusca* Roth  
*Stereum sanguinolentum* (Alb. & Schw. ex Fr.) Fr.

Abies concolor (Gord. & Glend.) Lindl., white fir .

Arceuthobium campylopodum Engelm. - Nevada, U.S.A.

Abies grandis (Dougl.) Lindl., grand fir

Arceuthobium douglasii Engelm. - British Columbia

Abies lasiocarpa (Hook.) Nutt., alpine fir

Aleurodiscus amorphus (Pers.) Rab.

Aleurodiscus sp.

Arceuthobium campylopodum Engelm. - British Columbia

Armillaria mellea (Vahl ex Fr.) Qué<sup>1</sup>.

Auricularia auricula (Hook.) Underw.

Bifusella abietis Dearn.

Corticium corrugé (Burt) Burt

Echinodontium tinctorium Ell. & Ev.

Fomes pini (Thore ex Pers.) Lloyd

Fomes pinicola (Sw. ex Fr.) Cke.

Guepiniopsis torta (Fr.) Pat.

Herpotrichia nigra Hartig

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Hypodermella abietis-concoloris (Mayr) Dearn.

Hypodermella mirabilis Darker

Hypodermella nervata Darker

Lachnellula agassizii (Berk. & Curt.) Dennis

Lachnellula arida (Phill.) Dennis

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Lophodermium autumnale Darker

Abies lasiocarpa (Hook.) Nutt., alpine fir (Cont'd.)

Lophodermium sp.

Melampsora epitea Thuem.

Melampsorella caryophyllacearum Schroet.

Mytilidion sp.

Peniophora byssoides (Pers. ex Fr.) Bres.

Peniophora crenea (Bres.) Sacc. &amp; Syd.

Peniophora pithya (Pers.) Eriks.

Peridermium holwayi Syd.

Phyllotopsis nidulans (Pers. ex Fr.) Sing.

Polyporus abietinus Dicks. ex Fr.

Polyporus alboluteus Ell. &amp; Ev.

Poria oleagina Overh.

Pucciniastrum epilobii Otth

Pucciniastrum goeppertianum (Kuehn) Kleb.

Scleroderris abieticola Zeller &amp; Goodding

Stereum abietinum (Pers. ex Fr.) Fr.

Stereum rugosum (Pers. ex Fr.) Fr.

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

Abies sp., fir

Armillaria mellea (Vahl ex Fr.) Quél.

Echinodontium tinctorium Ell. &amp; Ev.

Fomes pinicola (Sw. ex Fr.) Cke.

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Pucciniastrum epilobii Otth

Pucciniastrum goeppertianum (Kuehn) Kleb.



Abies sp., fir (Cont'd.)

Rhabdocline pseudotsugae Syd.

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

Acer negundo L., Manitoba maple

Encoelia furfuracea (Roth ex Fr.) Karst.

Acer saccharum Marsh., sugar maple

Polyporus pubescens Schum. ex Fr. - Ontario

Vararia effusata (Cke. & Ell.) Rogers & Jacks. - New York, U.S.A.

Acer sp., maple

Polyporus gilvus (Schw.) Fr. - Michigan, U.S.A.

Polyporus pargamenus Fr.

Polyporus versicolor L. ex Fr. - New York, U.S.A.

Poria ferruginosa (Schrad. ex Fr.) Karst. - New York, U.S.A.

Porothelium fimbriatum (Pers. ex Fr.) Fr. - New York, U.S.A.

Rodent damage

Trametes hispida Bagl.

Ustulina vulgaris Tul. - Michigan, U.S.A.

Agoseris glauca (Pursh) Raf., smooth agoseris

Puccinia hieracii (Röhling) Mart.

Alnus crispa (Ait.) Pursh, green alder

Peniophora aurantiaca (Bres.) Hoehn. & Litsch.

Polyporus picipes Fr.

Alnus rubra Bong., red alder

Phoradendron villosum Nutt. - California, U.S.A.

Alnus tenuifolia Nutt., mountain alder

Peniophora aurantiaca (Bres.) Hoehn. & Litsch.

Phyllactinia guttata (Fr.) Lév.

Polyporus elegans Bull. ex Fr.

Taphrina occidentalis Ray

Tympanis alnea (Pers.) Fr.

Alnus sp., alder

Aleurodiscus roseus (Pers. ex Fr.) Hoehn. & Litsch.

Chlorociboria aeruginosa (Oed. ex S. F. Gray) Seaver

Corticium ochraceum Fr.

Corticium sp.

Cryptodiaporthe oxystoma (Rehm) Urban.

Daedalea unicolor Bull. ex Fr.

Didymosphaeria oregonensis Goodding

Encoelia furfuracea (Roth ex Fr.) Karst.

Exidia glandulosa Fr. f. populi Neuh.

Favolus alveolaris (DC. ex Fr.) QuéL.

Fomes igniarius (L. ex Fr.) Kickx

Hydnochaete olivacea (Schw.) Banker - Michigan, U.S.A.

Hypoxylon fuscum (Pers. ex Fr.) Fr.

Hypoxylon mammatum (Wahl.) J. H. Miller

Hypoxylon rubiginosum (Pers. ex Fr.) Fr.

Hypoxylon sp.

Alnus sp., alder (Cont'd.)

*Lenzites saepiaria* (Wulf. ex Fr.) Fr.

*Merulius niveus* Fr.

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

*Peniophora aurantiaca* (Bres.) Hoehn. & Litsch.

*Peniophora erikssonii* Boid.

*Phyllactinia guttata* (Fr.) Lév.

*Polyporus cinnabarinus* Jacq. ex Fr.

*Polyporus conchifer* (Schw.) Fr. - New York, U.S.A.

*Polyporus pubescens* Schum. ex Fr.

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

*Poria ferruginosa* (Schrad. ex Fr.) Karst.

*Poria versipora* (Pers.) Rom.

*Radulum* ? *quercinum* Fr.

*Schizophyllum commune* Fr.

*Stemonitis fusca* Roth

*Trametes odora* (Sommerf. ex Fr.) Fr.

*Trogia crispa* Fr.

*Tympanis alnea* (Pers.) Fr.

*Valsa leucostoma* (Pers. ex Fr.) Fr.

Amelanchier alnifolia Nutt., saskatoon

*Apiosporina collinsii* (Schw.) Hoehn.

*Dibotryon morbosum* (Schw.) Th. & Syd.

*Erwinia amylovora* (Burr.) Winsl. et al.

*Gymnosporangium clavipes* (Cke. & Pk.) Cke. & Pk.

Amelanchier alnifolia Nutt., saskatoon (Cont'd.)

Gymnosporangium corniculans Kern

Gymnosporangium nelsoni Arth.

Gymnosporangium nidus-avis Thaxt.

Gymnosporangium sp.

Phragmidium sp.

Virus

Amelanchier sp., service-berry

Apiosporina collinsii (Schw.) Hoehn.

Gymnosporangium ? biseptatum Ell.

Gymnosporangium clavipes (Cke. &amp; Pk.) Cke. &amp; Pk. - British Columbia

Lophodermium hysterioides (Pers.) Sacc.

Aquilegia flavescens S. Wats., yellow columbine

Puccinia recondita Rob. ex Desm.

Arceuthobium americanum Nutt. ex Engelm., lodgepole pine mistletoe

Cladosporium sp.

Colletotrichum gloeosporioides Penz. sensu Arx

Septogloeum gillii D. Ell.

Wallrothiella arceuthobii (Pk.) Sacc.

Arceuthobium campylopodum Engelm., western mistletoe

Septogloeum gillii D. Ell. - Arizona, U.S.A.

Arceuthobium douglasii Engelm., Douglas-fir mistletoe

Septogloeum gillii D. Ell. - British Columbia

Wallrothiella arceuthobii (Pk.) Sacc. - British Columbia

Arctostaphylos rubra (Rehd. & Wils.) Fern., alpine bearberry

Pucciniastrum sparsum (Wint.) E. Fisch.

Arctostaphylos uva-ursi (L.) Spreng., common bearberry

Chrysomyxa arctostaphyli Diet.

Artemisia cana Pursh, sagebrush

Puccinia tanacetii DC.

Artemisia herriotii Rydb.

Erysiphe cichoracearum DC. ex Mérat

Artemisia sp.

Puccinia atrofusca (Dudl. & C. H. Thompson) Holw.

Puccinia tanacetii DC. - Wyoming, U.S.A.

Aster ciliolatus Lindl., Lindley's aster

Coleosporium asterum (Diet.) Syd.

Aster conspicuus Lindl., showy aster

Coleosporium asterum (Diet.) Syd.

Aster sp., aster

Coleosporium asterum (Diet.) Syd.

Puccinia asteris Duby

Betula alleghaniensis Britt., yellow birch

Daedalea confragosa Bolt. ex Fr. - New York, U.S.A.

Daedalea unicolor Bull. ex Fr. - New York, U.S.A.

Merulius tremellosus Schrad. ex Fr. - New York, U.S.A.

Polyporus fumosus Pers. ex Fr. - New York, U.S.A.

Betula glandulosa Michx., dwarf birch

Atopospora betulina (Fr.) Petr.

Diatrypella decorata Nits.

Melampsoridium betulinum (Fr.) Kleb.

Betula occidentalis Hook., water birch

Atopospora betulina (Fr.) Petr.

Fomes igniarius (L. ex Fr.) Kickx

Melampsoridium betulinum (Fr.) Kleb.

Pleurotus sp.

Poria ferruginosa (Schrad. ex Fr.) Karst.

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

Tympanis alnea (Pers.) Fr.

Betula papyrifera Marsh., white birch

Atopospora betulina (Fr.) Petr.

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

Corticium centrifugum complex

Cytospora sp.

Daedalea unicolor Bull. ex Fr.

Eutypella angulosa (Nits.) Sacc.

Eutypella sp.

Fomes fomentarius (L. ex Fr.) Kickx

Fomes igniarius (L. ex Fr.) Kickx

Fomes pinicola (Sw. ex Fr.) Cke.

Hericium laciniatum Leers ex Banker

Lenzites betulina (L. ex Fr.) Fr.

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Melampsoridium betulinum (Fr.) Kleb.

Pholiota sp.

Polyporus betulinus Bull. ex Fr.

Polyporus cinnabarinus Jacq. ex Fr.

Polyporus dichrous Fr.

Polyporus elegans Bull. ex Fr.

Polyporus hirsutus Wulf. ex Fr.

Polyporus pargamenus Fr.

Polyporus tulipiferae (Schw.) Overh.

Polyporus velutinus Fr.

Polyporus versicolor L. ex Fr.

Poria obliqua (Pers. ex Fr.) Karst.

Rodent damage

Schizophyllum commune Fr.

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

*Stereum complicatum* (Fr.) Fr.

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

*Stereum purpureum* (Pers. ex Fr.) Fr.

*Stereum* sp.

*Trametes mollis* (Sommerf.) Fr.

*Trametes serialis* Fr.

*Trogia crispa* Fr.

Betula sp., birch

*Anthostoma* sp.

*Atopospora betulina* (Fr.) Petr.

*Crepidotus* sp.

*Daedalea unicolor* Bull. ex Fr.

*Eutypella angulosa* (Nits.) Sacc.

*Eutypella* sp.

*Exidia candida* Lloyd

*Fomes fomentarius* (L. ex Fr.)

*Fomes igniarius* (L. ex Fr.) Kickx

*Hericium* sp.

*Libertella* ? *betulina* Desm.

*Melampsorium betulinum* (Fr.) Kleb.

*Polyporus betulinus* Bull. ex Fr.

*Polyporus biformis* Fr.

*Polyporus dichrous* Fr.

*Polyporus elegans* Bull. ex Fr.



Betula sp., birch (:Cont'd.)

Polyporus pargamenus Fr.

Polyporus pubescens Schum. ex Fr.

Polyporus velutinus Fr.

Taphrina ? boycei Mix

Taphrina nana Johans.

Trogia crispa Fr.

Caragana sp., caragana

Cytospora sp.

Carya sp., hickory

Aporpium caryae (Schw.) Texeira &amp; Rogers - Michigan, U.S.A.

Castilleja miniata Dougl., common red paint-brush

Cronartium coleosporioides Arth.

Castilleja occidentalis Torr.

Cronartium coleosporioides Arth.

Castilleja raupii Pennell

Cronartium coleosporioides Arth.

Castilleja septentrionalis Lindl., common yellow paint-brush

Cronartium coleosporioides Arth.

Castilleja sp., Indian paint-brush

Cronartium coleosporioides Arth.

Cerastium arvense L., field chickweed

Melampsorella caryophyllacearum Schroet.

Chamaedaphne calyculata (L.) Moench, leather-leaf

Chrysomyxa ledi d By. var. cassandrae (Pk. & Clint.) Savile

Citrus sp.

Auricularia auricula (Hook.) Underw. - Florida, U.S.A.

Polyporus adustus Willd. ex Fr. - Florida, U.S.A.

Stilbella cinnabarina (Mont.) Fr. - Florida, U.S.A.

Comandra pallida DC., bastard toad-flax

Cronartium comandrae Pk.

Puccinia comandrae Pk.

Conifers

Lentinus lepideus Fr.

Merulius lacrymans Wulf. ex Fr.

Odontia sp.

Pholiota spectabilis (Fr.) Gill.

Polyporus fumosus Pers. ex Fr.

Polyporus picipes Fr.

Polyporus varius Fr.

Conifers (Cont'd.)

*Poria mappa* Overh. & Lowe

*Thelephora griseozonata* Cke.

Cornus canadensis L., bunchberry

*Glomerularia corni* Pk.

*Puccinia porphyrogenita* Curt. ex Thuem.

Cornus sp.

*Macrophoma* sp.

Cotoneaster pyracantha (L.) Spach, firethorn

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

Cotoneaster sp., cotoneaster

*Macrosporium* sp.

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

*Valsella* sp.

Crataegus sp., hawthorn

*Erwinia amylovora* (Burr.) Winsl. et al.

*Gymnosporangium bethelii* Kern

Cronartium coleosporioides Arth. (*Peridermium harknessii* J. P. Moore)

*Cladosporium* sp.

*Tuberculina maxima* Rostr.

Cronartium coleosporioides Arth. (Peridermium stalactiforme Arth. & Kern)

Tuberculina maxima Rostr.

Cronartium comandrae Pk.

Cladosporium sp.

Tuberculina maxima Rostr.

Cryptomeria japonica D. Don, Japanese cedar

Chloroscypha cryptomeriae Terrier - Netherlands

Cupressus sargentii Jeps.

Phoradendron bolleanum (Seem.) Eichler - California, U.S.A.

Phoradendron densum Torr. - California, U.S.A.

Dicentra spectabilis DC., bleedingheart

? Dendryphium sp.

Dung

Ascobolus glaber Pers.

Humarina aggregata (Berk. & Br.) Seaver

Elaeagnus commutata Berhn., silver-berry

Puccinia caricis-shepherdiae J. J. Davis

Elaeagnus sp., oleaster

Puccinia caricis-shepherdiae J. J. Davis

Empetrum nigrum L., crowberry

*Chrysomyxa empetri* Schroet. ex Cumm.

Epilobium angustifolium L., fireweed

*Puccinia gigantea* Karst.

*Pucciniastrum epilobii* Otth

Epilobium glandulosum Lehm.

*Pucciniastrum epilobii* Otth

Epilobium sp., willow-herb

*Puccinia pulverulenta* Grev.

*Pucciniastrum epilobii* Otth

Erythronium grandiflorum Pursh, glacier lily

*Uromyces heterodermus* Syd.

Fagus grandifolia Ehrh., American beech

*Polyporus dichrous* Fr. - Ontario

*Polyporus tulipiferae* (Schw.) Overh. - New York, U.S.A.

Fagus sylvatica L., European beech

*Coryne sarcoides* (Jacq.) Tul. - England

Fraxinus americana L., white ash

*Poria spissa* (Schw.) Cke. - New York, U.S.A.

Fraxinus sp., ash

Valsaria sp.

Galium boreale L., northern bedstraw

Puccinia difformis Kunze

Puccinia rubefaciens Johans.

Galium trifidum L., small bedstraw

Puccinia punctata Lk.

Puccinia rubefaciens Johans.

Galium sp., bedstraw

Puccinia rubefaciens Johans.

Geocaulon lividum (Richards.) Fern., northern comandra

Cronartium comandrae Pk.

Puccinia comandrae Pk.

Virus

Hardwood

Corticium incrustans Hoehn. & Litsch. - Michigan, U.S.A.

Hydnosporia fuscescens (Schw.) Murr. - Indiana, U.S.A.

Pellicularia isabellina (Fr.) Rogers - Michigan, U.S.A.

Peniophora aspera (Pers.) Sacc. - Michigan, U.S.A.

Peniophora guttulifera (Karst.) Sacc. - Michigan, U.S.A.

Peniophora ludoviciana Burt - Michigan, U.S.A.

## Hardwood (Cont'd.)

- Polyporus brumalis Pers. ex Fr. - New York, U.S.A.  
 Polyporus resinus Schrad. ex Fr. - New York, U.S.A.  
 Poria eupora (Karst.) Cke. - Michigan, U.S.A.  
 Poria mollusca (Pers. ex Fr.) Cke. - New York, U.S.A.  
 Poria nigrescens Bres. - Michigan, U.S.A.  
 Stereum fasciatum Schw. - Michigan, U.S.A.  
 Tomentella sp. - Michigan, U.S.A.  
 Tryblidiopsis pinastri Fr. - Michigan, U.S.A.

Hedysarum alpinum L.

Uromyces hedysari-obscuri (DC.) Lév.

Hedysarum mackenzii Richards.

Uromyces hedysari-obscuri (DC.) Lév.

Hedysarum sulphurescens Rydb.

Uromyces hedysari-obscuri (DC.) Lév.

Hedysarum sp.

Uromyces hedysari-obscuri (DC.) Lév.

Hieracium umbellatum L., ~~narrow-leaved hawkweed~~

Puccinia hieracii (Röhling) Mart.

## Horse's hoof

Onygena equina Pers. ex Fr.

Juglans cinerea L., butternut

Polyporus pocula (Schw.) Berk. & Curt. - New York, U.S.A.

Juglans hindsii Jeps. northern California black walnut

Phoradendron villosum Nutt. - California, U.S.A.

Juniperus communis L., ground juniper

Chloroscypha sabiniae (Fckl.) Dennis

Gymnosporangium clavariiforme (Pers.) DC.

Gymnosporangium tremelloides Hartig

Gymnosporangium sp.

Lophodermium juniperinum (Fr.) de N.

Juniperus communis L. var. depressa Pursh, prostrate juniper

Lophodermium juniperinum (Fr.) de N. - Ontario

Juniperus horizontalis Moench, creeping juniper

Gymnosporangium corniculans Kern

Gymnosporangium globosum Farl.

Gymnosporangium nidus-avis Thaxt.

Gymnosporangium sp.

Lophodermium juniperinum (Fr.) de N.

Juniperus scopulorum Sarg., Rocky Mountain juniper

Gymnosporangium nelsoni Arth.

Gymnosporangium nidus-avis Thaxt.



Juniperus scopulorum Sarg., Rocky Mountain juniper (Cont'd.)

Gymnosporangium tubulatum Kern ex Arth.

Gymnosporangium sp.

Herpotrichia nigra Hartig

Larix laricina (Du Roi) K. Koch, tamarack

Armillaria mellea (Vahl ex Fr.) Qué1.

Fomes cajanderi Karst.

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Lophodermium laricinum Duby

Melampsora medusae Thuem.

Melampsora paradoxa Diet. &amp; Holw.

Melampsora sp.

Polyporus abietinus Dicks. ex Fr.

Valsa curreyi Nits. (= Cytospora curreyi Sacc.)

Larix lyallii Parl., alpine larch

Fomes pini (Thore ex Pers.) Lloyd

Hypodermella laricis Tub.

Lachnellula arida (Phill.) Dennis

Lachnellula hahniana (Seaver) Dennis

Lophodermium laricinum Duby

Melampsora paradoxa Diet. &amp; Holw.

Melampsora sp.

Larix occidentalis Nutt., western larch

Arceuthobium campylopodum Engelm. - British Columbia

Corticium centrifugum complex

Fomes cajanderi Karst.

Hypodermella laricis Tub.

Polyporus abietinus Dicks. ex Fr.

Valsa curreyi Nits. (= Cytospora curreyi Sacc.)

Larix sibirica Ledeb., Siberian larch

Armillaria mellea (Vahl ex Fr.) Quéf.

Larix sp., larch

Lophodermium laricinum Duby - Italy

Melampsora medusae Thuem.

Ledum glandulosum Nutt., glandular Labrador tea

Chrysomyxa ledicola Lagh.

Ledum groenlandicum Oeder, common Labrador tea

Chrysomyxa ledi d By.

Chrysomyxa ledicola Lagh.

Exobasidium sp.

Lophodermium sphaerioides (Alb. &amp; Schw.) Rehm

Ledum palustre L. var. decumbens Ait., northern Labrador tea

Chrysomyxa ledicola Lagh.

Linum rigidum Pursh, yellow flax

Melampsora lini (Ehr.) Lévl.

Linum sp., flax

Melampsora lini (Ehr.) Lévl.

Lonicera sp., honeysuckle

Herpobasidium deformans Gould

Maianthemum canadense Desf. var. interius Fern., wild lily-of-the-valley

Puccinia sp.

Malus sp., apple

Erwinia amylovora (Burr.) Winsl. et al.

Nectria cinnabarina (Tode ex Fr.) Fr. (= Tubercularia vulgaris Tode)

Schizophyllum commune Fr.

Valsa sordida Nits. (= Cytospora chrysosperma Pers. ex Fr.)

Melampyrum lineare Desr., cow-wheat

Cronartium coleosporioides Arth.

Menziesia ferruginea Smith, false-azalea

Godronia menziesiae Groves

Melanomma rhododendri Rehm

Melasmia menziesiae Dearn. & Barth.

Rhytisma ? arbuti Phill.

Monarda fistulosa L. var. menthaefolia (Graham) Fern., wild bergamot

*Puccinia menthae* Pers.

Moneses uniflora (L.) A. Gray, one-flowered wintergreen

*Chrysomyxa pirolata* Wint.

*Pucciniastrum pyrolae* Diet. ex Arth.

Myrica gale L., sweet gale

*Cronartium comptoniae* Arth.

Orthocarpus luteus Nutt., owl-clover

*Cronartium coleosporioides* Arth.

Pedicularis bracteosa Benth., lousewort

*Cronartium coleosporioides* Arth.

*Puccinia clintonii* Pk.

Petasites palmatus (Ait.) A. Gray, palmate-leaved coltsfoot

*Puccinia conglomerata* (Strauss) Röhling

Philadelphus lewisii Pursh, syringa

*Phytomonas syringae* (v. Hall) Bergey et al.

Picea abies (L.) Karst., Norway spruce

*Bifusella crepidiformis* Darker - Ontario

*Chrysomyxa arctostaphyli* Diet.

Picea abies (L.) Karst., Norway spruce (Cont'd.)

Lophodermium piceae (Fckl.) Hoehn. - Ontario

Picea engelmannii Parry, Engelmann spruce

Arceuthobium campylopodum Engelm. - British Columbia

Bifusella crepidiformis Darker

Chrysoomyxa arctostaphyli Diet.

Chrysoomyxa ledi d By.

Chrysoomyxa ledicola Lagh.

Chrysoomyxa pirolata Wint.

Chrysoomyxa weirii Jacks.

Corticium niveo-cremeum Hoehn. & Litsch.

Fomes cajanderi Karst.

Fomes nigrolimitatus (Rom.) Egel.

Fomes pini (Thore ex Pers.) Lloyd

Fomes pinicola (Sw. ex Fr.) Cke.

Fomes roseus (Alb. & Schw. ex Fr.) Karst.

Gloeocystidiellum ? ochraceum (Fr. ex Fr.) Donk

Herpotrichia nigra Hartig

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Lachnellula chrysophthalma (Pers.) Karst.

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Lophodermium macrosporum (Hartig) Rehm

Odontia ? romellii Lund.

Pellicularia vaga (Berk. & Curt.) Rogers

Peniophora byssoides (Pers. ex Fr.) Bres.

Picea engelmannii Parry, Engelmann spruce (Cont'd.)

- Peniophora luna* Rom. ex Rogers & Jacks.  
*Peniophora sanguinea* (Fr.) Hoehn. & Litsch.  
*Peniophora separans* Burt  
*Peniophora septentrionalis* Laurila  
*Peniophora subalutacea* (Karst.) Hoehn. & Litsch.  
*Peniophora violaceo-livida* (Sommerf.) Mass.  
*Peniophora* sp.  
 ? *Phragmothyriella* sp.  
*Polyporus abietinus* Dicks. ex Fr.  
*Polyporus alboluteus* Ell. & Ev.  
*Polyporus lapponicus* Rom.  
*Polyporus resinosus* Schrad. ex Fr.  
*Polyporus schweinitzii* Fr.  
*Polyporus tomentosus* Fr.  
*Poria albobrunnea* (Rom.) Baxter  
*Poria crustulina* Bres.  
*Poria taxicola* (Pers.) Bres.  
*Stemonitis axifera* (Bull.) Macbr.  
*Stereum abietinum* (Pers. ex Fr.) Fr.  
*Stereum chailletii* (Pers. ex Fr.) Fr.  
*Stereum sanguinolentum* (Alb. & Schw. ex Fr.) Fr.  
*Stereum sulcatum* Burt  
*Trametes heteromorpha* (Fr.) Bres.  
*Trametes* ? *sepium* Berk.  
*Trametes serialis* Fr.

Picea engelmannii Parry, Engelmann spruce (Cont'd.)

*Trametes variiformis* Pk.

*Trichothecium roseum* Lk. ex Fr.

*Valsa curreyi* Nits. (= *Cytospora curreyi* Sacc.)

Picea glauca (Moench) Voss, white spruce

*Aleurodiscus amorphus* (Pers.) Rab.

*Aleurodiscus roseus* (Pers. ex Fr.) Hoehn. & Litsch.

*Arceuthobium americanum* Nutt. ex Engelm.

*Armillaria mellea* (Vahl ex Fr.) Qué<sup>l</sup>.

*Bifusella crepidiformis* Darker

*Cephalosporium* sp.

*Chrysomyxa arctostaphyli* Diet.

*Chrysomyxa empetri* Schroet. ex Cumm.

*Chrysomyxa ledi* d By.

*Chrysomyxa ledicola* Lagh.

*Chrysomyxa pirolata* Wint.

*Chrysomyxa weirii* Jacks.

*Chrysomyxa woroninii* Tranz.

*Chrysomyxa* sp.

*Coniophora puteana* (Schum. ex Fr.) Karst.

*Coniophora* sp.

*Coniothyrium* sp.

*Corticium bicolor* Pk.

*Corticium centrifugum* complex

Picea glauca (Moench) Voss, white spruce (Cont'd.)

- Corticium galzinii Bourd.
- Corticium ? geogenium Bres.
- Corticium sulphureum (Pers. ex Fr.) Fr.
- Corticium tulasnellloideum Hoehn. & Litsch.
- Corticium sp.
- Coryne sarcoides (Jacq.) Tul.
- Dacrymyces deliquescens (Mérat) Duby
- Dacrymyces palmatus (Schw.) Bres.
- Dacrymyces sp.
- Flammula alnicola (Fr.) Kumm.
- Fomes cajanderi Karst.
- Fomes pini (Thore ex Pers.) Lloyd
- Fomes pinicola (Sw. ex Fr.) Cke.
- Fomes roseus (Alb. & Schw. ex Fr.) Cke.
- Fomes viticola (Schw.) Lowe
- Ganoderma applanatum (Pers. ex Wallr.) Pat.
- Geotrichum sp.
- Grandinia brinkmannii (Bres.) Bourd. & Galz.
- Hericium laciniatum Leers ex Banker
- Hymenochaete tabacina (Sow. ex Fr.) Lév.
- Lenzites betulina (L. ex Fr.) Fr.
- Lenzites saepiaria (Wulf. ex Fr.) Fr.
- Lophium mytilinum (Pers.) Fr.
- Lophodermium filiforme Darker
- Lophodermium macrosporum (Hartig) Rehm



Picea glauca (Moench) Voss, white spruce (Cont'd.)

- Lophodermium piceae (Fckl.) Hoehn.  
Lycogala epidendrum (L.) Fr.  
Merulius ambiguus Berk.  
Merulius bellus Berk. & Curt.  
Merulius fugax Fr.  
Merulius sp.  
Mytilidion tortilae (Schw.) Ell. & Ev. non Sacc.  
Mytilidion sp.  
Odontia hydnoides (Cke. & Mass.) Hoehn.  
Pellicularia chordulata Rogers  
Pellicularia isabellina (Fr.) Rogers  
Pellicularia subcoronata (Hoehn. & Litsch.) Rogers  
Peniophora byssoides (Pers. ex Fr.) Bres.  
Peniophora cremea (Bres.) Sacc. & Syd.  
Peniophora gigantea (Fr.) Mass.  
Peniophora pubera (Fr.) Sacc.  
Peniophora sanguinea (Fr.) Hoehn. & Litsch.  
Peniophora separans Burt  
Peniophora septentrionalis Laurila  
Peniophora velutina (DC. ex Pers.) Cke.  
Peniophora sp.  
Phlebia radiata Fr.  
Polyporus abietinus Dicks. ex Fr.  
Polyporus alboluteus Ell. & Ev.  
Polyporus anceps Pk.

Picea glauca (Moench) Voss, white spruce (Cont'd.)

- Polyporus lapponicus* Rom.  
*Polyporus mollis* Pers. ex Fr.  
*Polyporus schweinitzii* Fr.  
*Polyporus tomentosus* Fr.  
*Polyporus volvatus* Pk.  
*Poria crustulina* Bres.  
*Poria ferrugineo-fusca* Karst.  
*Poria monticola* Murr.  
*Poria taxicola* (Pers.) Cke.  
*Poria xantha* (Fr. ex Lind) Cke.  
*Poria* sp.  
*Retinocyclus abietis* (Crouan) Groves & Wells  
*Sarcotrochila piniperda* (Rehm) Korf  
*Sebacina ? calcea* (Pers.) Bres.  
*Sebacina incrustans* (Fr.) Tul.  
*Sebacina* sp.  
*Stereum abietinum* (Pers. ex Fr.) Fr.  
*Stereum rugosum* (Pers. ex Fr.) Fr.  
*Stereum sanguinolentum* (Alb. & Schw. ex Fr.) Fr.  
*Trametes heteromorpha* (Fr.) Bres.  
*Trametes odorata* (Wulf. ex Fr.) Fr.  
*Trametes serialis* Fr.  
*Trametes variiformis* Pk.  
*Tritirachium hydnicola* (Pk.) Hughes  
*Tubolicrinis gracillimus* (Ell. & Ev.) Cunn.

Picea glauca (Moench) Voss, white spruce (Cont'd.)

Xeromphalina campanella (Batsch ex Fr.) Kuehner & Maire

Picea mariana (Mill.) BSP., black spruce

Arceuthobium pusillum Pk. - Ontario

Armillaria mellea (Vahl ex Fr.) Quéf.

Bifusella crepidiformis Darker

? Cenangium sp.

Chrysomyxa arctostaphyli Diet.

Chrysomyxa empetri Schroet. ex Cumm.

Chrysomyxa ledi d By.

Chrysomyxa ledicola Lagh.

Chrysomyxa pirolata Wint.

Chrysomyxa woroninii Tranz.

Corticium centrifugum complex

Coryne sarcoides (Jacq.) Tul.

Fomes pini (More ex Pers.) Lloyd

Fomes pinicola (Sw. ex Fr.) Cke.

Lophodermium filiforme Darker

Lophodermium piceae (Fckl.) Hoehn.

Peniophora septentrionalis Laurila

Polyporus abietinus Dicks. ex Fr.

Retinocyclus abietis (Crouan) Groves & Wells

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

Trametes odorata (Wulf. ex Fr.) Fr.

Picea pungens Engelm., Colorado spruce

Chrysomyxa empetri Schroet. ex Cumm.

Chrysomyxa ledicola Lagh.

Picea sp., spruce

Arceuthobium americanum Nutt. ex Engelm.

Chrysomyxa arctostaphyli Diet.

Chrysomyxa empetri Schroet. ex Cumm.

Chrysomyxa ledi d By.

Chrysomyxa ledicola Lagh.

Chrysomyxa pirolata Wint.

Chrysomyxa weirii Jacks.

Corticium ? radiosum Fr.

Coryne sarcoides (Jacq.) Tul.

Fomes cajanderi Karst.

Fomes pini (Thore ex Pers.) Lloyd

Fomes pinicola (Sw. ex Fr.) Cke.

Fomes roseus (Alb. &amp; Schw. ex Fr.) Cke.

Lachnellula agassizii (Berk. &amp; Curt.) Dennis

Lachnellula arida (Phill.) Dennis

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Oidium microspermum Berk. &amp; Br.

Peniophora pithya (Pers.) Eriks.

Peniophora sp.

Polyporus albobuteus Ell. &amp; Ev.

Polyporus lapponicus Rom.

Picea sp., spruce (Cont'd.)

- Retinocyclus abietis (Crouan) Groves & Wells  
 Stereum abietinum (Pers. ex Fr.) Fr.  
 Stereum chaillletii (Pers. ex Fr.) Fr.  
 Stereum sanguinolentum (Alb. & Schw. ex Fr.) Fr.  
 Stereum sulcatum Burt  
 Trametes heteromorpha (Fr.) Bres.  
 Trametes odorata (Wulf. ex Fr.) Fr.  
 Valsa kunzei (Fr.) Fr. (= Cytospora kunzei Sacc.)  
 Xeromphalina campanella (Batsch ex Fr.) Kuehner & Maire

Picea hybrid

- Ganoderma applanatum (Pers. ex Wallr.) Pat.  
 Lophodermium macrosporum (Hartig) Rehm

Pinus albicaulis Engelm., whitebark pine

- Cronartium ribicola J. C. Fisch.  
 Fomes pini (Thore ex Pers.) Lloyd  
 Lachnellula pini (Brunch.) Dennis  
 Neopeckia coulteri (Pk.) Sacc.

Pinus banksiana Lamb., jack pine

- Arceuthobium americanum Nutt. ex Engelm.  
 Armillaria mellea (Vahl ex Fr.) QuéL.  
 Biatorella resinae (Ehr. ex Fr.) Mudd. (= Zythia resinae (Ehr. ex Fr.)  
 Karst.)

Pinus banksiana Lamb., jack pine (Cont'd.)

*Coleosporium asterum* (Diet.) Syd.

*Corticium centrifugum* complex

*Corticium* ? *decipiens* Hoehn. & Litsch.

*Corticium sulphureum* (Pers. ex Fr.) Fr.

*Corticium* ? *tessulatum* Cke.

*Corticium* ? *tsugae* Burt

*Coryne sarcoides* (Jacq.) Tul.

*Cronartium coleosporioides* Arth. (*Peridermium harknessii* J. P. Moore)

*Cronartium comandrae* Pk.

*Cronartium comptoniae* Arth.

*Dacrymyces deliquescentis* (Mérat) Duby

*Elytroderma deformans* (Weir) Darker

*Fomes cajanderi* Karst.

*Fomes pini* (Ehrh. ex Pers.) Lloyd

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

*Grandinia* sp.

*Hendersonia pinicola* Wehm. - Quebec

*Hypodermella ampla* (J. J. Davis) Dearn. - Ontario

*Hypodermella concolor* (Dearn.) Darker - Ontario

*Hypodermella montana* Darker

*Lachnellula hahniana* (Seaver) Dennis

*Laeticorticium* ? *pini* (Jacks.) Donk

*Lenzites saepiana* (Wulf. ex Fr.) Fr.

*Lophodermium pinastri* (Schrad. ex Fr.) Chev.

*Merulius ambiguus* Berk.

Pinus banksiana Lamb., jack pine (Cont'd.)

Mytilidion sp.

Odontia crustosa (Fr.) Qué<sup>l</sup>.

Odontia ? crustula L. W. Miller

Odontia ? romellii Lund.

Pellicularia vaga (Berk. & Curt.) Rogers

Peniophora pseudo-pini Weresub & Gibson

Peniophora sanguinea (Fr.) Hoehn. & Litsch.

Peniophora violaceo-livida (Sommerf.) Mass.

Polyporus abietinus Dicks. ex Fr.

Polyporus anceps Pk.

Polyporus fragilis Fr.

Polyporus volvatus Pk.

Poria subacida (Pk.) Sacc.

Poria taxicola (Pers.) Bres.

Retinocyclus abietis (Crouan) Groves & Wells

Rodent damage

Sapsucker damage

Schizophyllum commune Fr.

Sebacina ? caesio-cinerea (Hoehn. & Litsch.) Rogers

Stemonitis fusca Roth

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

Trametes heteromorpha (Fr.) Bres.

Trametes odorata (Wulf. ex Fr.) Fr.

Trichia botrytis (Gmel.) Pers.

Pinus banksiana Lamb., jack pine (Cont'd.)

Tubulicrinis subulata (Bourd. &amp; Galz.) Donk

Tulasnella violea (Quél.) Bourd. &amp; Galz.

Tympanis hypopodia Nyl.

Tympanis sp.

Pinus cembra L., Swiss stone pine

Crumenula sororia Karst. - Netherlands

Pinus contorta Dougl., lodgepole pine

Aleurodiscus ? minnsiae Jacks.

Arceuthobium americanum Nutt. ex Engelm.

Arceuthobium campylopodum Engelm. - British Columbia

Arcyria nutans (Bull.) Grev.

Armillaria mellea (Vahl ex Fr.) Quél.

Atropellis piniphila (Weir) Lohman &amp; Cash

Belonium ? pineti (Batsch) Rehm

Biatorella resinae (Ehr. ex Fr.) Mudd. (= Zythia resinae (Ehr. ex Fr.)  
Karst.)

Bulliardella sp.

Calcarisporium sp.

Cephalosporium nordinii Hughes &amp; Bouchier

Cephalosporium sp.

Ceratocystis huntii Robinson

Ceratocystis minor (Hedge.) Hunt

Ceratocystis sp.



Pinus contorta Dougl., lodgepole pine (Cont'd.)

- Ceuthospora* sp.  
*Chaetophiophoma* sp.  
*Coleosporium asterum* (Diet.) Syd.  
*Comatricha nigra* (Pers.) Schroet.  
*Coniophora arida* (Fr.) Karst.  
*Coniophora puteana* (Schum. ex Fr.) Karst.  
*Coniophora suffocata* (Pk.) Mass.  
*Coniothyrium* sp.  
*Constantinella micheneri* (Berk. & Curt.) Hughes  
*Corticium bicolor* Pk.  
*Corticium centrifugum* complex  
*Corticium* ? *decipiens* Hoehn. & Litsch.  
*Corticium fuscostratum* Burt  
*Corticium laeve* Pers.  
*Corticium* ? *molliforme* Bourd. & Galz.  
*Corticium* sp.  
*Coryne sarcoides* (Jacq.) Tul.  
*Cronartium coleosporioides* Arth. (*Peridermium harknessii* J. P. Moore)  
*Cronartium coleosporioides* Arth. (*Peridermium stalactiforme* Arth. & Kern)  
*Cronartium comandrae* Pk.  
*Cronartium comptoniae* Arth.  
*Cytospora* sp.  
*Dacrymyces deliquescens* (Mérat) Duby

Pinus contorta Dougl., lodgepole pine (Cont'd.)

- Dacrymyces punctiformis Neuh.  
Dacrymyces stipitatus Neuh.  
Dactylium sp.  
Dasyscyphus pulverulentus (Lib.) Sacc.  
Didymium iridis (Ditm.) Fr.  
Didymium melanospermum (Pers.) Macbr.  
Ditiola radicata Fr.  
Elythroderma deformans (Weir) Darker  
Enerthenema papillatum (Pers.) Rost.  
Exidia saccharina Fr.  
Flammula alnicola (Fr.) Kumm.  
Fomes cajanderi Karst.  
Fomes pini (Thore ex Pers.) Lloyd  
Fomes pinicola (Sw. ex Fr.) Cke.  
Fomes roseus (Alb. & Schw. ex Fr.) Cke.  
Fomes viticola (Schw.) Lowe  
Fumago sp.  
Geotrichum candidum Lk.  
Gloeocoryneum cinereum (Dearn.) Weindlmayr  
Gloeocystidiellum lividocaeruleum (Karst.) Donk  
Grandinia farinacea (Pers. ex Fr.) Bourd. & Galz.  
Grandinia helvetica (Pers.) Fr.  
Guepiniopsis torta (Fr.) Pat.  
Gyromitra esculenta (Pers. ex Fr.) Fr.

Pinus contorta Dougl., lodgepole pine (Cont'd.)

- ? Gyrostroma sp.
- Hendersonia ? acuum Karst.
- Hendersonia pinicola Wehm.
- Hendersonia sp.
- Hormonema ? dematioides Lager. & Melin
- Hypocrea rufa (Pers. ex Fr.) Fr.
- Hypodermella concolor (Dearn.) Darker
- Hypodermella montana Darker
- Hypodermella montivaga (Petr.) Dearn.
- Hypodermella sp.
- Kabatiella sp.
- Lachnellula agassizii (Berk. & Curt.) Dennis
- Lachnellula arida (Phill.) Dennis
- Lachnellula chrysophthalma (Pers.) Karst.
- Lachnellula hahniana (Seaver) Dennis
- Lenzites saepiaria (Wulf. ex Fr.) Fr.
- Leocarpus fragilis (Dick.) Rost.
- Leptographium lundbergii Lager. & Melin
- Leptographium sp.
- Lophium mytilinum (Pers.) Fr.
- Lophodermium pinastri (Schrad. ex Fr.) Chev.
- ? Marasmius sp.
- Meliola sp.
- Merulius ambiguus Berk.

Pinus contorta Dougl., lodgepole pine (Cont'd.)

*Merulius* ? *aureus* Fr.

*Merulius* *fugax* Fr.

*Merulius* sp.

*Mollisia* *cinerea* (Batsch) Karst.

*Morchella* *angusticeps* Pk.

*Mucronella* *aggregata* Fr.

*Mycosphaerella* *tassiana* (de N.) Johans. (= *Cladosporium* *herbarum*  
Lk. ex Fr.)

? *Myxosporella* sp.

*Odontia* ? *arguta* (Fr.) Qué<sup>l</sup>.

*Oidium* *corticale* Pk.

*Paecilomyces* *varioti* Bainier

*Pellicularia* *vaga* (Berk. & Curt.) Rogers

*Peniophora* *affinis* Burt

*Peniophora* *aspera* (Pers.) Sacc.

*Peniophora* *bastata* Litsch.

*Peniophora* *gigantea* (Fr.) Mass.

*Peniophora* *gracillima* Ell. & Ev. ex Rogers & Jacks.

*Peniophora* *greschikii* (Bres.) Bourd. & Galz.

*Peniophora* *incarnata* (Pers. ex Fr.) Karst.

*Peniophora* *luna* Rom. ex Rogers & Jacks.

*Peniophora* *phlebioides* Jacks. & Deard.

*Peniophora* *pseudo-pini* Weresub & Gibson

*Peniophora* *sanguinea* (Fr.) Hoehn. & Litsch.

*Peniophora* *separans* Burt.

Pinus contorta Dougl., lodgepole pine (Cont'd.)

*Peniophora septentrionalis* Laurila

*Peniophora subalutacea* (Karst.) Hoehn. & Litsch.

*Peniophora violaceo-livida* (Sommerf.) Mass.

*Peniophora* sp.

*Phlebia radiata* Fr.

*Phoma* sp.

*Platygløea arrhytidiae* Olive

? *Pleurophomopsis* sp.

*Pleurotus atrocaeruleus* Fr. var. *griseus* Fk.

*Pleurotus mastrucatus* Fr.

*Polyporus abietinus* Dicks. ex Fr.

*Polyporus amorphus* Fr.

*Polyporus anceps* Fk.

*Polyporus caesius* Schrad. ex Fr.

*Polyporus fragilis* Fr.

*Polyporus lapponicus* Rom.

*Polyporus* ? *leucospongia* Cke. & Harkn.

*Polyporus mollis* Pers. ex Fr.

*Polyporus pubescens* Schum. ex Fr.

*Polyporus tulipiferae* (Schw.) Overh.

*Polyporus volvatus* Fk.

*Poria albobrunnea* (Rom.) Baxter

*Poria* ? *byssina* (Pers.) Rom.

*Poria myceliosa* Fk.

Pinus contorta Dougl., lodgepole pine (Cont'd.)

- Poria purpurea* (Fr.) Cke.  
*Poria* ? *reticulata* (Pers. ex Fr.) Cke.  
*Poria rixosa* Karst.  
*Poria subvermispora* Pilát  
*Poria taxicola* (Pers.) Cke.  
*Poria vaporaria* (Pers. ex Fr.) Cke.  
*Poria xantha* (Fr. ex Lind) Cke.  
*Poria* sp.  
*Propolis rhodoleuca* Fr. var. *strobilina* (Desm.) Phill.  
*Pullularia pullulans* (d By. & E. Low) Berkhout  
*Ramularia* sp.  
*Retinocyclus abietis* (Crouan) Groves & Wells  
*Rhinoclaadiella atrovirens* Nannf.  
*Rosellinia ligniaria* (Grev.) Nits.  
*Rosellinia thelena* (Fr.) Rav.  
*Schizophyllum commune* Fr.  
*Scoleconectria scolecospora* (Bref.) Seaver  
*Sebacina eyrei* Wakef.  
*Septonema chaetospira* (Groves) Hughes  
*Stemonitis fusca* Roth  
*Stereum abietinum* (Pers. ex Fr.) Fr.  
*Stereum chailletii* (Pers. ex Fr.) Fr.  
*Stereum hirsutum* (Willd. ex Fr.) S. F. Gray  
*Stereum sanguinolentum* (Alb. & Schw. ex Fr.) Fr.

Pinus contorta Dougl., lodgepole pine (Cont'd.)

Stereum sp.

Taeniolella sp.

Tomentella fusca (Pers.) Schroet.

Tomentella sp.

Trametes heteromorpha (Fr.) Bres.

Trametes odorata (Wulf. ex Fr.) Fr.

Trametes ? sepium Berk.

Trametes serialis Fr.

Trametes variiformis Pk.

Trechispora brinkmannii (Bres.) Rogers & Jacks.

? Trechispora hirschii (Donk) Rogers

Tremella encephala Pers.

Tremella ? lutescens (Pers.) Fr.

Tremella mesenterica Fr.

Tremella sp.

Trichoderma lignorum (Tode) Harz

Trichoderma sp.

Tubulicrinis subulata (Berk. & Curt.) Donk

Tulasnella fuscoviolacea Bres.

Tulasnella violea (Quél.) Bourd. & Galz.

Tympanis hypopodia Nyl.

Tympanis sp.

Xeromphalina campanella (Batsch ex Fr.) Kuehner & Maire

Pinus cooperi C. E. Blanco, Cooper pine

Arceuthobium vaginatum (Willd.) Presl - Durango, Mexico

Pinus coulteri D. Don, Coulter pine

Arceuthobium campylopodum Engelm. - California, U.S.A.

Pinus edulis Engelm., pinyon

Arceuthobium campylopodum Engelm. - Utah, U.S.A.

Hypoderma saccatum Darker - Colorado, U.S.A.

Pinus engelmannii Carr., Apache pine

Arceuthobium verticilliflorum Engelm. - Durango, Mexico

Pinus flexilis James, limber pine

Arceuthobium campylopodum Engelm. - Colorado, U.S.A.

Armillaria mellea (Vahl ex Fr.) Quéf.

Bifusella linearis (Pk.) Hoehn.

Cronartium ribicola J. C. Fisch.

Hypoderma pini (Desm.) Darker

Lachnellula pini (Brunch.) Dennis

Lophodermium nitens Darker

Naemacyclus niveus (Pers. ex Fr.) Sacc.

Neopeckia coulteri (Pk.) Sacc.

Pinus leiophylla Schiede & Deppe, smooth-leaved pine

Hypoderma mexicanum Wolf - Mexico, Mexico



Pinus leiophylla Schiede & Deppe var. chihuahuana (Engelm.) Shaw,  
Chihuahua pine

Arceuthobium gillii Hawksworth & Wiens - Chihuahua, Mexico

Pinus monophylla Torr. & Frém., singleleaf pinyon

Hypoderma pini (Dearn.) Darker - Nevada, U.S.A.

Pinus montezumae Lamb., Montezuma pine

Arceuthobium globosum Hawksworth & Wiens - Mexico, Mexico

Pinus monticola Dougl., western white pine

Arceuthobium campylopodum Engelm. - British Columbia

Lophodermium durilabrum Darker - Oregon, U.S.A.

Pinus nigra Arnold var. austriaca (Hoess) Badoux., Austrian pine

Crumenula pinicola (Fr.) Karst. - Netherlands

Desmazierella acicola Lib. - Netherlands

Pinus nigra Arnold var. calabrica (Loud.) Schneid., Corsican pine

Gorgoniceps aridula (Karst.) Karst. - Netherlands

Pinus palustris Mill., longleaf pine

Hypoderma hedgcockii Dearn. - Florida, U.S.A.

Pinus pinaster Ait., maritime pine

Arceuthobium campylopodum Engelm. - California, U.S.A.

Pinus pinaster Ait., maritime pine (Cont'd.)

*Dothistroma pini* Hulbary - British Columbia

Pinus ponderosa Laws., ponderosa pine

*Arceuthobium americanum* Nutt. ex Engelm. - British Columbia

*Arceuthobium campylopodum* Engelm. - California, U.S.A.

*Arceuthobium vaginatum* (Willd.) Presl - New Mexico, U.S.A.

*Poria ferrugineo-fusca* Karst. - New Mexico, U.S.A.

Pinus radiata D. Don, Monterey pine

*Dothistroma pini* Hulbary - British Columbia

*Hypoderma pedatum* Darker - California, U.S.A.

Pinus resinosa Ait., red pine

*Corticium ? pelliculare* Karst. - Michigan, U.S.A.

Firns rigida Mill., pitch pine

*Hypoderma lethale* Dearn. - Massachusetts, U.S.A.

Pinus sabiniana Dougl., Digger pine

*Arceuthobium campylopodum* Engelm. - California, U.S.A.

Pinus strobus L., eastern white pine

*Coryne* sp. - Ontario

*Hypoderma desmazierii* Duby - Ontario

*Lophodermium nitens* Darker - Ontario

Pinus strobus L., eastern white pine (Cont'd.)

*Polyporus undosus* Pk. - New York, U.S.A.

*Poria nigrescens* Bres. - New York, U.S.A.

Pinus sylvestris L., Scots pine

*Botrytis* sp.

*Cenangium ferruginosum* Fr. ex Fr. - Netherlands

*Coleosporium asterum* (Diet.) Syd.

*Cronartium coleosporioides* Arth. (*Peridermium harknessii* J. P. Moore)

*Cronartium comandrae* Fk.

*Lacknellula fusc sanguinea* (Rehm) Dennis - Finland

*Lasiostictis fimbriata* (Schw.) Baeumler - Netherlands

*Polyporus abietinus* Dicks. ex Fr.

Pinus teocote Schiede & Deppe, twisted-leaved pine

*Arceuthobium rubrum* Hawksworth & Wiens - Durango, Mexico

Pinus sp., pine

*Corticium centrifugum* complex

*Cronartium coleosporioides* Arth. (*Peridermium harknessii* J. P. Moore)

*Cronartium comandrae* Pk.

*Elythroderma deformans* (Weir) Darker

*Peniophora calothrix* (Pat.) Rogers & Jacks.

*Peniophora* sp.

Pinus hybrid

*Arceuthobium americanum* Nutt. ex Engelm.

*Arceuthobium campylopodum* Engelm. - California, U.S.A.

*Atropellis piniphila* (Weir) Lohman & Cash

*Biatorrella resinae* (Ehr. ex Fr.) Mudd. (= *Zythia resinae* (Ehr. ex Fr.)  
Karst.)

*Cronartium coleosporioides* Arth. (*Peridermium harknessii* J. P. Moore)

*Cronartium comandrae* Pk.

*Elythroderma deformans* (Weir) Darker

*Fomes pini* (Thore ex Pers.) Lloyd

*Hypodermella montana* Darker

*Peniophora calothrix* (Pat.) Rogers & Jacks.

*Peniophora phlebioides* Jacks. & Deard.

*Peniophora pseudo-pini* Weresub & Gibson

*Peniophora* sp.

*Polyporus abietinus* Dicks. ex Fr.

*Foria sericeomollis* (Rom.) Egel.

Populus alba L., white poplar

*Valsa sordida* Nits. (= *Cytospora chrysosperma* Pers. ex Fr.)

Populus angustifolia James, narrowleaf cottonwood

*Venturia tremulae* Aderh. (= *Pollaccia radiosa* (Lib.) Bald. & Cif.)

Populus balsamifera L., balsam poplar

*Calcarisporium* sp.

*Ciborinia whetzellii* (Seaver) Seaver (= *Sclerotium* sp.)

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

- Cryptochaete rufa* (Fr.) Karst.  
*Diplodia tumefaciens* (Shear) Zalasky  
*Eichleriella spinulosa* (Berk. & Curt.) Burt  
*Fomes fomentarius* (L. ex Fr.) Kickx  
*Fomes igniarius* (L. ex Fr.) Kickx  
*Fomes pinicola* (Sw. ex Fr.) Cke.  
*Ganoderma applanatum* (Pers. ex Wallr.) Pat.  
*Hericium coralloides* Scop. ex S. F. Gray  
*Hericium laciniatum* Leers ex Banker  
*Hypoxyylon pruinaum* (Klotzsch) Cke.  
*Lenzites saepiaria* (Wulf. ex Fr.) Fr.  
*Linospora tetraspora* G. E. Thompson  
*Marssonina populi* (Lib.) Magn.  
*Melampsora medusae* Thum.  
*Melampsora occidentalis* Jacks.  
*Mycosphaerella populicola* G. E. Thompson (= *Septoria populicola* Pk.)  
*Mycosphaerella populorum* G. E. Thompson (= *Septoria musiva* Pk.)  
*Phlebia radiata* Fr.  
*Pholiota destruens* (Brond.) Qué!.  
*Pholiota spectabilis* (Fr.) Gill.  
*Pholiota squarrosa* (Pers. ex Fr.) Kumm.  
*Pholiota squarrosoides* (Pk.) Sacc.  
*Pleurotus ostreatus* (Jacq. ex Fr.) Kumm.  
*Pleurotus* sp.

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

Polyporus adustus Willd. ex Fr.

Polyporus ? fibrillosus Karst.

Polyporus pargamenus Fr.

Polyporus pubescens Schum. ex Fr.

Polyporus tulipiferae (Schw.) Overh.

Polyporus velutinus Fr.

Psilocybe sp.

Radulum casearium (Morg.) Lloyd

Schizophyllum commune Fr.

Stemonitis fusca Roth

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

Stereum purpureum (Pers. ex Fr.) Fr.

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

Trametes hispidia Bagl.

Uncinula salicis (DC.) Wint.

Valsa sordida Nits. (= Cytospora chrysosperma Pers. ex Fr.)

Venturia populina (Vuill.) Fabric. (= Pollaccia elegans Servazzi)

Populus deltoides Marsh. var. occidentalis Rydb., plains cottonwood

Valsa sordida Nits. (= Cytospora chrysosperma Pers. ex Fr.)

Populus fremontii S. Wats., Fremont cottonwood

Phoradendron flavescens Nutt. - California, U.S.A.

Populus tremuloides Michx., trembling aspen

- Aleurodiscus cerussatus (Bres.) Hoehn. & Litsch.  
 Aporpium caryae (Schw.) Texeira & Rogers  
 Armillaria mellea (Vahl ex Fr.) QuéL.  
 Biatorella sp.  
 Cenangium pruinosum (Ell. & Ev.) Seaver  
 Cenangium ? singulare (Rehm) Davidson & Cash  
 ? Cenangium sp.  
 Ceratocystis moniliformis (Hesy.) Moreau  
 Chlorociboria aeruginascens (Nyl.) Kanouse  
 Chlorociboria aeruginosa (Oed. ex S. F. Gray) Seaver  
 Ciborinia pseudobifrons Whet.  
 Ciborinia whetzellii (Seaver) Seaver (= Sclerotium sp.)  
 Cladosporium subsessile Ell. & Barth.  
 Collybia velutipes (Curt. ex Fr.) Kumm.  
 Corticium sp.  
 Cryptochaete rufa (Fr.) Karst.  
 Daedalea unicolor Bull. ex Fr.  
 Didymium iridis (Ditm.) Fr.  
 Diplodia tumefaciens (Shear) Zalasky  
 Eicheriella spinulosa (Berk. & Curt.) Burt  
 Fomes fomentarius (L. ex Fr.) Kickx  
 Fomes igniarius (L. ex Fr.) Kickx  
 Fomes pinicola (Sw. ex Fr.) Cke.  
 Fumago sp.  
 Ganoderma applanatum (Pers. ex Wallr.) Pat.

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

- Gloeocystidiellum leucoxanthum (Bres.) Boid.
- Helotium ? pallescens (Pers.) Fr.
- Hypoxylon pruinaum (Klotzsch) Cke.
- Lenzites betulina (L. ex Fr.) Fr.
- Lenzites saepiaria (Wulf. ex Fr.) Fr.
- Marssonina tremuloidis (Ell. & Ev.) Kleb.
- Melampsora albertensis Arth.
- Melampsora medusae Thuem.
- Melampsora sp.
- Merulius tremellosus Schrad. ex Fr.
- Nidularia sp.
- Odontia eriozona Bres.
- Peniophora polygonia (Pers. ex Fr.) Bourd. & Galz.
- Peniophora sp.
- Peziocula ocellata (Pers. ex Fr.) Seaver (=Cryptosporiopsis  
scutellata Petr.)
- Phaeophlebia strigoso-zonata (Schw.) W. B. Cke.
- Pholiota aurivella (Batsch ex Fr.) Kumm.
- Pholiota spectabilis (Fr.) Gill.
- Pleurotus ostreatus (Jacq. ex Fr.) Kumm.
- Pleurotus sp.
- Polyporus adustus Willd. ex Fr.
- Polyporus cinnabarinus Jacq. ex Fr.
- Polyporus fumosus Pers. ex Fr.
- Polyporus hirsutus Wulf. ex Fr.



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

- Polyporus pargamenus Fr.  
Polyporus picipes Fr.  
Polyporus pubescens Schum. ex Fr.  
Polyporus velutinus Fr.  
Polyporus versicolor L. ex Fr.  
Poria aneirina (Sommerf.) Cke.  
Poria ? aurantiaca (Rostk.) Sacc.  
Poria ferruginosa (Schrad. ex Fr.) Karst.  
Poria ? reticulata (Pers. ex Fr.) Cke.  
Poria versipora (Pers.) Rom.  
Poria sp.  
Radulum casaerium (Morg.) Lloyd  
Schizophyllum commune Fr.  
Steccherinum septentrionale (Fr.) Banker  
Stereum albobadium (Schw. ex Fr.) Fr.  
Stereum purpureum (Pers. ex Fr.) Fr.  
Stereum radiatum Pk.  
Tomentella zygodesmoides (Ell.) Hoehn.  
Trametes hispida Bagl.  
Trametes odora (Sommerf.) Fr.  
Trametes suaveolens L. ex Fr.  
Trechispora brinkmannii (Bres.) Rogers & Jacks.  
Tremella mesenterica Fr.  
Trichia varia (Pers.) Pers.

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

*Uncinula salicis* (DC.) Wint.

*Valsa sordida* Nits. (= *Cytospora chrysosperma* Pers. ex Fr.)

*Venturia tremulae* Aderh. (= *Pollaccia radiosa* (Lib.) Bald. & Cif.)

Populus trichocarpa Torr. & Gray, black cottonwood

*Ganoderma applanatum* (Pers. ex Wallr.) Pat.

*Melampsora occidentalis* Jacks.

Populus sp., poplar

? *Aleurocorticium macrosporum* (Bres.) Lemke

*Corticium* sp.

*Cryptochaete rufa* (Fr.) Karst.

*Cytospora* sp.

*Fomes igniarius* (L. ex Fr.) Kickx

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

*Melampsora occidentalis* Jacks.

*Melampsora* sp.

*Peniophora longispora* (Pat.) Hoehn.

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

*Pleurotus ostreatus* (Jacq. ex Fr.) Kumm.

*Polyporus adustus* Willd. ex Fr.

*Polyporus conchifer* (Schw.) Fr.

*Polyporus elegans* Bull. ex Fr.

*Polyporus* ? *fibrillosus* Karst.

*Polyporus pargamenus* Fr.

Populus sp., poplar (Cont'd.)

*Polyporus picipes* Fr.

*Polyporus pubescens* Schum. ex Fr.

*Radulum casearium* (Morg.) Lloyd

*Schizophyllum commune* Fr.

*Trametes hispida* Bagl.

*Tympanis spermatispora* (Nyl.) Nyl. (= *Pleurophomella spermatispora*  
Hoehn.)

*Valsa sordida* Nits. (= *Cytospora chryosperma* Pers. ex Fr.)

*Venturia populina* (Vuill.) Fabric. (= *Pollaccia elegans* Servazzi)

*Venturia tremulae* Aderh. (= *Pollaccia radiosa* (Lib.) Bald. & Cif.)

Populus hybrid

*Cryptochaete rufa* (Fr.) Karst.

*Fomes igniarius* (L. ex Fr.) Kickx

*Melampsora medusae* Thuem.

*Melampsora occidentalis* Jacks.

*Mycosphaerella populorum* G. E. Thompson (= *Septoria musiva* Pk.)

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

*Phyllosticta* sp.

*Trametes suaveolens* L. ex Fr.

*Uncinula salicis* (DC.) Wint.

*Valsa sordida* Nits. (= *Cytospora chryosperma* Pers. ex Fr.)

*Venturia populina* (Vuill.) Fabric. (= *Pollaccia elegans* Servazzi)

Potentilla fruticosa L., shrubby cinquefoil

*Phragmidium andersonii* Shear

Potentilla sp., cinquefoil

Phragmidium andersonii Shear

Phragmidium potentillae (Pers.) Karst.

Prunus padus L. var. commutata Dipp., Mayday

Dibotryon morbosum (Schw.) Th. &amp; Syd.

Nectria cinnabarina (Tode ex Fr.) Fr. (= Tubercularia vulgaris Tode)

Prunus pensylvanica L.f., pin cherry

Dibotryon morbosum (Schw.) Th. &amp; Syd.

Prunus serotina Ehrh., black cherry

Fomes igniarius (L. ex Fr.) Kickx - New York, U.S.A.

Prunus virginiana L., choke cherry

Dibotryon morbosum (Schw.) Th. &amp; Syd.

Eutypella sorbi (Pk.) Sacc. (= Cytospora rubescens Fr.)

Prunus sp.

Dibotryon morbosum (Schw.) Th. &amp; Syd.

Erwinia amylovora (Burr.) Winsl. et al.

Polyporus tulipiferae (Schw.) Overh. - Michigan, U.S.A.

Pseudotsuga menziesii (Mirb.) Franco, Douglas-fir

Aleurodiscus amorphus (Pers.) Rab.

Arceuthobium douglasii Engelm. - British Columbia

Pseudotsuga menziesii (Mirb.) Franco, Douglas-fir (Cont'd.)

*Armillaria mellea* (Vahl ex Fr.) Qué1.

*Coryne sarcoides* (Jacq.) Tul.

*Cytospora* sp.

*Echinodontium tinctorium* Ell. & Ev.

*Fomes cajanderi* Karst.

*Fomes officinalis* (Vill. ex Fr.) Faull

*Fomes pini* (Thore ex Pers.) Lloyd

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

*Lenzites saepiaria* (Wulf. ex Fr.) Fr.

*Leocarpus fragilis* (Dicks.) Rost. - British Columbia

*Melampsora albertensis* Arth.

*Melampsora occidentalis* Jacks.

*Phacidiopycnis pseudotsugae* (M. Wils.) Hahn

*Phacidium infestans* Karst.

*Phomopsis* ? *lokcyoe* Hahn

*Polyporus abietinus* Dicks. ex Fr.

*Polyporus volvatus* Pk. - British Columbia

*Rhabdocline pseudotsugae* Syd.

*Stereum rugosum* (Pers. ex Fr.) Fr.

*Trametes heteromorpha* (Fr.) Bres.

*Trametes serialis* Fr.

*Trametes variiformis* Pk. - British Columbia

Pucciniastrum goeppertianum (Kuehn) Kleb.

*Tuberculina* sp.

Pyrola asarifolia Michx., common pink wintergreen

Chrysomyxa pirolata Wint.

Pucciniastrum pyrolae Diet. ex Arth.

Pyrola minor L., lesser wintergreen

Pucciniastrum pyrolae Diet. ex Arth.

Pyrola secunda L., one-sided wintergreen

Chrysomyxa pirolata Wint.

Pucciniastrum pyrolae Diet. ex Arth.

Pyrola virens Schweigg., greenish-flowered wintergreen

Chrysomyxa pirolata Wint.

Pucciniastrum pyrolae Diet. ex Arth.

Pyrola sp., wintergreen

Chrysomyxa pirolata Wint.

Pucciniastrum pyrolae Diet. ex Arth.

Quercus lobata Nees, California white oak

Phoradendron villosum Nutt. - California, U.S.A.

Quercus sp., oak

Armillaria mellea (Vahl ex Fr.) Qué<sup>l</sup>. - Florida, U.S.A.

Endothia gyrosa (Schw.) Fckl. - Florida, U.S.A.

Quercus sp., oak (Cont'd.)

*Odontia fimbriata* (Fr.) Fr. - Michigan, U.S.A.

*Polyporus pargamenus* Fr. - Florida, U.S.A.

*Taphrina caerulescens* (Desm. & Mont.) Tul.

*Tomentella coriaria* (Pk.) Bourd. & Galz. - Michigan, U.S.A.

Rhinanthus crista-galli L., yellow rattle

*Cronartium coleosporioides* Arth.

Ribes oxycanthoides L., wild gooseberry

*Cronartium ribicola* J. C. Fisch.

Ribes sp.

*Cronartium ribicola* J. C. Fisch.

*Cylindrosporium ribis* J. J. Davis

*Mycosphaerella ribis* (Fekl.) Feltg. (= *Septoria ribis* Desm.)

*Puccinia caricina* DC.

*Puccinia parkerae* Diet. & Holw.

*Puccinia* sp.

Rosa acicularis Lindl., prickly rose

*Phragmidium fusiforme* Schroet.

*Phragmidium* sp.

Rosa rubrifolia Vill., red-leaved rose

*Phragmidium* sp.

Rosa sp., rose

Phragmidium fusiforme Schroet.

Phragmidium sp.

Rubus melanolasius Focke, wild red raspberry

Phragmidium rubi-idaei (DC.) Karst.

Rubus parviflorus Nutt., thimbleberry

Phragmidium occidentale Arth.

Rubus sp.,

Gymnoconia peckiana (Howe) Trott.

Nectria cinnabarina (Tode ex Fr.) Fr. (= Tubercularia vulgaris Tode)

Phragmidium rubi-idaei (DC.) Karst.

Salix sp., willow

Conoplea geniculata (Cda.) Hughes

Corticium contiguum Karst.

Cytospora sp.

Daedalea confragosa Bolt. ex Fr.

Encoelia furfuracea (Roth ex Fr.) Karst.

Exidia recisa Fr.

Favolus alveolaris (DC. ex Fr.) Qué1.

Fomes igniarius (L. ex Fr.) Kickx

Fomes sp.



Salix sp., willow (Cont'd.)

- Melampsora epitea Thuem.  
 Melampsora paradoxa Diet. & Holw.  
 Polyporus elegans Bull. ex Fr.  
 Polyporus picipes Fr.  
 Polyporus squamosus Micheli ex Fr.  
 Polyporus varius Fr.  
 Poria sp.  
 Rhytisma salicinum (Pers.) Fr.  
 Trametes odora (Sommerf.) Fr.  
 Trametes suaveolens L. ex Fr.  
 Tympanis saligna Tode (= Pleurophomella saligna Hoehn.)  
 Umbinula salicis (DC.) Wint.  
 Valsa ambiens (Pers. ex Fr.) Fr.  
 Valsa ceratosperma (Tode ex Fr.) Maire  
 Valsa nivea (Hoffm. ex Fr.) Fr.  
 Valsa ? salicina (Pers. ex Fr.) Fr. (= Cytospora ? salicis  
 (Cda.) Rab.)  
 Valsa translucens (de N.) Ces. & de N.

Sambucus sp., elderberry

- Nectria cinnabarina (Tode ex Fr.) Fr. (= Tubercularia vulgaris Tode)  
 Septoria sambucina Pk.  
 Tubercularia sp.

Shepherdia argentea Nutt., thorny buffalo-berry

- Fomes fraxinophilus (Pk.) Cke.

Shepherdia canadensis (L.) Nutt., Canadian buffalo-berry

Oidium sp.

Puccinia caricis-shepherdiae J. J. Davis

## Soil and humus

Agaricus placomyces Pk. - Florida, U.S.A.

Aleuria aurantia (Fr.) Fckl.

Amanitopsis volvata Pk. - Florida, U.S.A.

Armillaria mellea (Vahl ex Fr.) QuéL.

Auriscalpium vulgare S. F. Gray

Boletellus russellii (Frost) Gilb. - Florida, U.S.A.

Clavaria cristata (Holmsk.) Pers. - Florida, U.S.A.

Clavaria liqula Schaeff. ex Fr.

Clavaria ? stricta Fr.

Geastrum sp.

Gomphidius viscidus Fr. - Florida, U.S.A.

Hydnellum scrobiculatum (Fr.) Karst.

Hydnellum velutinum (Fr.) Karst.

Lactarius lignyotus (Fr. ex Fr.) Fr. - Florida, U.S.A.

Lepiota molybdites (Meyer ex Fr.) Sacc. - Florida, U.S.A.

Marasmius personatus Fr. - Florida, U.S.A.

Peziza sylvestris (Boud.) Sacc. & Trott. - Montana, U.S.A.

Pholiota erebia Fr.

Pholiota praecox (Pers.) Fr. - Florida, U.S.A.

Polyporus perennis L. ex Fr.

## Soil and humus (Cont'd.)

*Polyporus picipes* Fr.

*Polyporus schweinitzii* Fr.

*Polyporus tomentosus* Fr.

*Psilocybe* sp.

*Rhizina undulata* Fr. ex Fr. - Netherlands

*Russula emetica* (Schaeff. ex Fr.) Pers. ex S. F. Gray - Florida,  
U.S.A.

*Russula* ? *integra* (L. ex Vitt.) Fr.

*Russula nigricans* (Bull.) Fr. - Florida, U.S.A.

*Sarcodon imbricatus* (L. ex Fr.) Karst.

*Sarcodon laevigatis* (Sw.) Karst.

*Scleroderma lycoperdoides* Schw. - Florida, U.S.A.

*Suillus hirtellus* (Pk.) Kuntze

*Suillus luteus* (L. ex Fr.) S. F. Gray - Florida, U.S.A.

*Thelephora griseozonata* Cke.

*Thelephora terrestris* Ehr. ex Fr.

*Thelephora* sp.

*Tylopilus felleus* (Bull. ex Fr.) Karst. - Florida, U.S.A.

*Solidago lepida* DC., graceful goldenrod

*Puccinia* ? *stipae* Arth.

*Solidago* sp., goldenrod

*Coleosporium asterum* (Diet.) Syd.

*Sorbus americana* Marsh., American mountain-ash

*Erwinia amylovora* (Burr.) Winsl. et al.

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

Trametes hispida Bagl.

Sorbus scopulina Greene

Gymnosporangium tremelloides Hartig

Sorbus sp., mountain-ash

Eutypella sorbi (Fr.) Sacc. (= Cytospora rubescens Fr.)

Gymnosporangium tremelloides Hartig

Leucostoma persoonii (Nits.) Hoehn.

Nectria cinnabarina (Tode ex Fr.) Fr. (= Tubercularia vulgaris Tode)

Valsa sordida Nits. (= Cytospora chrysosperma Pers. ex Fr.)

Stellaria calycantha (Ledeb.) Bong.

Melampsorella caryophyllacearum Schroet.

Stellaria sp., chickweed

Leptosphaeria stellariae Rostr.

Puccinia arenariae (Schum.) Wint.

Symphoricarpos occidentalis Hook., buckbrush

Puccinia crandallii Pam. & Hume

Thalictrum occidentale A. Gray, western meadow rue

Puccinia recondita Rob. ex Desm.

Puccinia sp.

Thalictrum sparsiflorum Turcz., flat-fruited meadow rue

*Puccinia recondita* Rob. ex Desm.

Thalictrum sp., meadow rue

*Puccinia recondita* Rob. ex Desm.

Thuja occidentalis L., eastern white cedar

*Trametes serialis* Fr.

Thuja plicata Donn, western red cedar

*Didymascella thujina* (Durand) Maire

Tsuga heterophylla (Raf.) Sarg., western hemlock

*Caliciopsis* sp. - British Columbia

*Echinodontium tinctorium* Ell. & Ev. - British Columbia

Ulmus americana L., white elm

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

Ulmus parvifolia Jacq., Chinese elm

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

Ulmus sp., elm

*Nectria cinnabarina* (Tode ex Fr.) Fr. (= *Tubercularia vulgaris* Tode)

Urtica urens L., burning nettle

*Puccinia caricis-urticata* (Kern) Arth.

Vaccinium caespitosum Michx., dwarf bilberry

*Pucciniastrum goeppertianum* (Kuehn) Kleb.

*Pucciniastrum vaccinii* (Wint.) ~~Jørst.~~

Vaccinium membranaceum Dougl., tall bilberry

*Exobasidium* sp.

*Pucciniastrum vaccinii* (Wint.) ~~Jørst.~~

Vaccinium myrtilloides Michx., blueberry

*Gibbera conferta* (Fr.) Petr.

Vaccinium myrtillus L., low bilberry

*Pucciniastrum vaccinii* (Wint.) ~~Jørst.~~

Vaccinium scoparium Leiberg, grouse-berry

*Pucciniastrum goeppertianum* (Kuehn) Kleb.

Vaccinium vitis-idaea L. var. minus Lodd., bog cranberry

*Pucciniastrum goeppertianum* (Kuehn) Kleb.

*Pucciniastrum vaccinii* (Wint.) ~~Jørst.~~

Vaccinium sp.

*Lophodermium maculare* (Fr.) de N.

Vaccinium sp. (Cont'd.)

Pucciniastrum goeppertianum (Kuehn) Kleb.

Pucciniastrum vaccinii (Wint.) ~~J~~erst.

Viburnum edule (Michx.) Raf., low-bush cranberry

Puccinia linkii Klotzsch

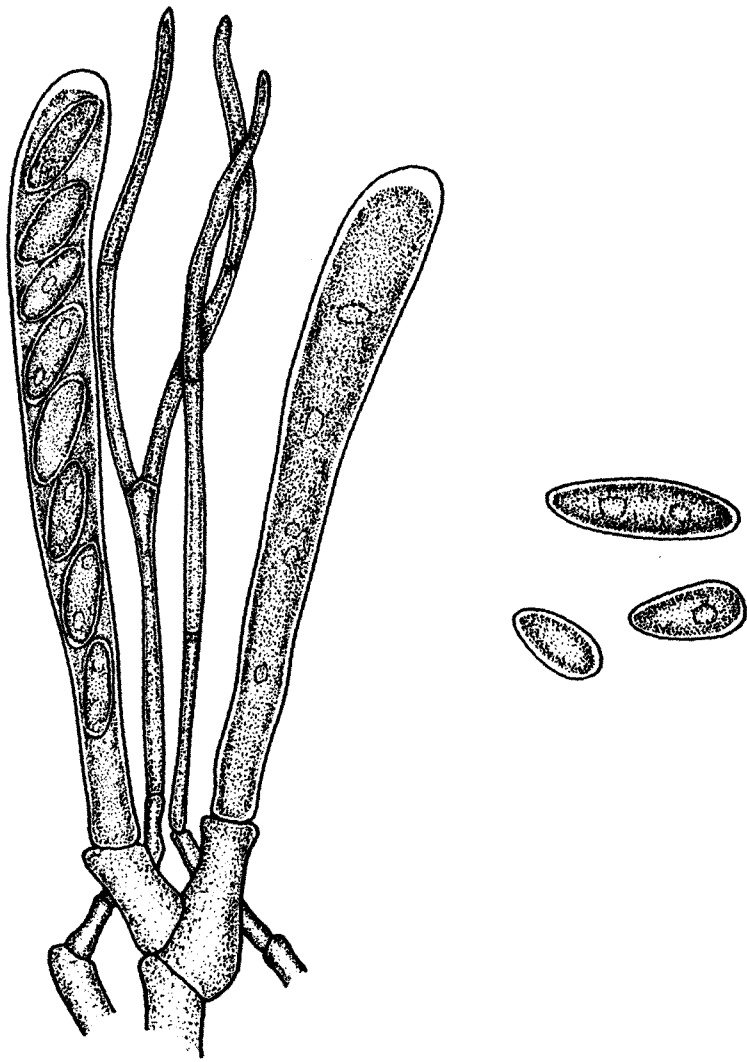
Vicia americana Muhl., wild vetch

Uromyces fabae (Grev.) d By. ex Cke.

Viola adunca J. E. Smith, early blue violet

Puccinia violae (Schum.) DC.

TAXONOMIC INDEX





## MYXOMYCETES

Arcyria nutans (Bull.) Grev.

Pinus contorta

Comatricha nigra (Pers.) Schroet.

Pinus contorta

Didymium iridis (Ditm.) Fr.

Pinus contorta

Populus tremuloides

Didymium melanospermum (Pers.) Macbr.

Pinus contorta

Emerthenema papillatum (Pers.) Rost.

Pinus contorta

Leocarpus fragilis (Dick.) Rost.

Pinus contorta

Pseudotsuga menziesii

Lycogala epidendrum (L.) Fr.

Picea glauca

Stemonitis axifera (Bull.) Macbr.

Picea engelmannii

## MYXOMYCETES (Cont'd.)

Stemonitis fusca Roth

Abies balsamea

Alnus sp.

Pinus banksiana

Pinus contorta

Populus balsamifera

Trichia botrytis (Gmel.) Pers.

Pinus banksiana

Trichia varia (Pers.) Pers.

Populus tremuloides

## ASCOMYCETES

Aleuria aurantia (Fr.) Fckl.

Soil and humus

Anthostoma sp.

Betula sp.

Apiosporina collinsii (Schw.) Hoehn.

Amelanchier alnifolia

Amelanchier sp.

Ascobolus glaber Pers.

Dung

Atopospora betulina (Fr.) Petr.

Betula glandulosa

Betula occidentalis

Betula papyrifera

Betula sp.

Atropellis piniphila (Weir) Lohman & Cash

Pinus contorta

Pinus hybrid

## ASCOMYCETES (Cont'd.)

Belonium ? pineti (Batsch) Rehm

Pinus contorta

Biatorella resinae (Ehr. ex Fr.) Mudd.

Pinus banksiana

Pinus contorta

Pinus hybrid

Biatorella sp.

Populus tremuloides

Bifusella abietis Dearn.

Abies lasiocarpa

Bifusella crepidiformis Darker ISOTYPE\*

Picea abies\*

Picea engelmannii

Picea glauca

Picea mariana

Bifusella linearis (Pk.) Hoehn.

Pinus flexilis

## ASCOMYCETES (Cont'd.)

Bulliardella sp.

Pinus contorta

Caliciopsis sp.

Tsuga heterophylla

Cenangium ferruginosum Fr. ex Fr.

Pinus sylvestris

Cenangium pruinatum (Ell. & Ev.) Seaver

Populus tremuloides

Cenangium ? singulare (Rehm) Davidson & Cash

Populus tremuloides

? Cenangium sp.

Picea mariana

Populus tremuloides

Ceratocystis huntii Robinson

Pinus contorta

Ceratocystis minor (Hedgc.) Hunt

Pinus contorta

## ASCOMYCETES (Cont'd.)

Ceratocystis moniliformis (Hesy.) Moreau

Populus tremuloides

Ceratocystis sp.

Pinus contorta

Chlorociboria aeruginascens (Nyl.) Kanouse

Populus tremuloides

Chlorociboria aeruginosa (Oed. ex S. F. Gray) Seaver

Alnus sp.

Populus tremuloides

Chloroscypha cryptomeriae Terrier

Cryptomeria japonica

Chloroscypha sabiniae (Fckl.) Dennis

Juniperus communis

Ciborinia pseudobifrons Whet.

Populus tremuloides

Ciborinia whetzeli (Seaver) Seaver

Populus balsamifera

Populus tremuloides

ASCOMYCETES (Cont'd.)

Coryne sarcoides (Jacq.) Tul.

Fagus sylvatica  
 Picea glauca  
 Picea mariana  
 Picea sp.  
 Pinus banksiana  
 Pinus contorta  
 Pseudotsuga menziesii

Coryne sp.

Pinus strobus

Crumenula pinicola (Fr.) Karst.

Pinus nigra var. austriaca

Crumenula sororia Karst.

Pinus cembra

Cryptodiaporthe oxystoma (Rehm) Urban.

Alnus sp.

Dasyscyphus pulverulentus (Lib.) Sacc.

Pinus contorta

## ASCOMYCETTES (Cont'd.)

Dermatea phyllopila Pk.

Abies balsamea

Desmazierella acicola Lib.

Pinus nigra var. austriaca

Diatrypella decorata Nits.

Betula glandulosa

Dibotryon morbosum (Schw.) Th. & Syd.

Amelanchier alnifolia

Prunus padus var. commutata

Prunus pensylvanica

Prunus virginiana

Prunus sp.

Didymascella thujina (Durand) Maire

Thuja plicata

Didymosphaeria oregonensis Goodding

Alnus sp.

Elytroderma deformans (Weir) Darker

Pinus banksiana

Pinus contorta



ASCOMYCETES (Cont'd)

Elytroderma deformans (Wier) Darker (Cont'd.)

Pinus sp.

Pinus hybrid

Encoelia furfuracea (Roth ex Fr.) Karst.

Acer negundo

Alnus sp.

Salix sp.

Endothia gyrosa (Schw.) Fckl.

Quercus sp.

Erysiphe cichoracearum DC. ex Mérat

Artemisia herriotii

Eutypella angulosa (Nits.) Sacc.

Betula papyrifera

Betula sp.

Eutypella sorbi (Fr.) Sacc.

Prunus virginiana

Sorbus sp.

## ASCOMYCETES (Cont'd.)

Eutypella sp.

Betula papyrifera

Betula sp.

Gibbera conferta (Fr.) Petr.

Vaccinium myrtilloides

Godronia menziesiae Groves ISOTYPE

Menziesia ferruginea

Gorgoniceps aridula (Karst.) Karst.

Pinus nigra var. calabrica

Gyromitra esculenta (Pers. ex Fr.) Fr.

Pinus contorta

Helotium ? pallescens (Pers.) Fr.

Populus tremuloides

Herpotrichia nigra Hartig

Abies lasiocarpa

Juniperus scopulorum

Picea engelmannii

## ASCOMYCETES (Cont'd.)

Humarina aggregata (Berk. & Br.) Seaver

Dung

Hypocrea rufa (Pers. ex Fr.) Fr.

Pinus contorta

Hypoderma desmazierii Duby

Pinus strobus

Hypoderma hedgcockii Dearn.

Pinus palustris

Hypoderma lethale Dearn.

Pinus rigida

Hypoderma mexicanum Wolf ISOTYPE

Pinus leiophylla

Hypoderma pedatum Darker

Pinus radiata

Hypoderma pini (Dearn.) Darker

Pinus flexilis

Pinus monophylla

## ASCOMYCETES (Cont'd.)

Hypoderma saccatum Darker

Pinus edulis

Hypodermella abietis-concoloris (Mayr) Dearn.

Abies lasiocarpa

Hypodermella ampla (J. J. Davis) Dearn.

Pinus banksiana

Hypodermella concolor (Dearn.) Darker

Pinus banksiana

Pinus contorta

Hypodermella laricis Tub.

Larix lyallii

Larix occidentalis

Hypodermella mirabilis Darker

Abies balsamea

Abies lasiocarpa

Hypodermella montana Darker

Pinus banksiana

Pinus contorta

Pinus hybrid

## ASCOMYCETES (Cont'd.)

Hypodermella montivaga (Petr.) Dearn.

Pinus contorta

Hypodermella nervata Darker

Abies balsamea

Abies lasiocarpa

Hypodermella sp.

Pinus contorta

Hypoxylon fuscum (Pers. ex Fr.) Fr.

Alnus sp.

Hypoxylon mammatum (Wahl.) J. H. Miller

Alnus sp.

Hypoxylon pruinatum (Klotzsch) Cke.

Populus balsamifera

Populus tremuloides

Hypoxylon rubiginosum (Pers. ex Fr.) Fr.

Alnus sp.

Hypoxylon sp.

Alnus sp.

## ASCOMYCETES (Cont'd.)

Lachnellula agassizii (Berk. & Curt.) Dennis

Abies lasiocarpa

Picea sp.

Pinus contorta

Lachnellula arida (Phill.) Dennis

Abies balsamea

Abies lasiocarpa

Larix lyallii

Picea sp.

Pinus contorta

Lachnellula chrysophthalma (Pers.) Karst.

Picea engelmannii

Pinus contorta

Lachnellula fusc sanguinea (Rehm) Dennis

Pinus sylvestris

Lachnellula hahniana (Seaver) Dennis

Larix lyallii

Pinus banksiana

Pinus contorta

## ASCOMYCETES (Cont'd.)

Lachnellula pini (Brunch.) Dennis

Pinus albicaulis

Pinus flexilis

Lasiostictis fimbriata (Schw.) Baeumler

Pinus sylvestris

Leptosphaeria stellariae Rostr.

Stellaria sp.

Leucostoma personii (Nits.) Hoehn.

Sorbus sp.

Linospora tetraspora G. E. Thompson

Populus balsamifera

Lophium mytilinum (Pers.) Fr.

Picea glauca

Pinus contorta

Lophodermium autumnale Darker

Abies balsamea

Abies lasiocarpa

## ASCOMYCETES (Cont'd.)

Lophodermium durilabrum Darker ISOTYPE

Pinus monticola

Lophodermium filiforme Darker

Picea glauca

Picea mariana

Lophodermium hysterioides (Pers.) Sacc.

Amelanchier sp.

Lophodermium juniperinum (Fr.) de N.

Juniperus communis

Juniperus communis var. depressa

Juniperus horizontalis

Lophodermium lacerum Darker ISOTYPE

Abies balsamea

Lophodermium laricinum Duby ISOTYPE\*

Larix laricina

Larix lyallii

Larix sp\*



## ASCOMYCETES (Cont'd.)

Lophodermium macrosporum (Hartig) Rehm

Picea engelmannii

Picea glauca

Picea hybrid

Lophodermium maculare (Fr.) de N.

Vaccinium sp.

Lophodermium nitens Darker

Pinus flexilis

Pinus strobus

Lophodermium piceae (Fckl.) Hoehn.

Abies balsamea

Picea abies

Picea glauca

Picea mariana

Lophodermium pinastri (Schrad. ex Fr.) Chev.

Pinus banksiana

Pinus contorta

Lophodermium sphaerioides (Alb. & Schw.) Rehm

Ledum groenlandicum

## ASCOMYCETES (Cont'd.)

Lophodermium sp.

Abies lasiocarpa

Melanomma rhododendri Rehm

Menziesia ferruginea

Meliola sp.

Pinus contorta

Mollisia cinerea (Batsch) Karst.

Pinus contorta

Morchella angusticeps Pk.

Pinus contorta

Mycosphaerella populicola G. E. Thompson

Populus balsamifera

Mycosphaerella populorum G. E. Thompson

Populus balsamifera

Populus hybrid

Mycosphaerella ribis (Fckl.) Feltg.

Ribes sp.

## ASCOMYCETES (Cont'd.)

Mycosphaerella tassiana (de N.) Johans.

Pinus contorta

Mytilidium tortilae (Schw.) Ell. & Ev. non Sacc.

Picea glauca

Mytilidium sp.

Abies balsamea

Abies lasiocarpa

Picea glauca

Pinus banksiana

Naemacyclus niveus (Pers. ex Fr.) Sacc.

Pinus flexilis

Nectria cinnabarina (Tode ex Fr.) Fr.

Alnus sp.

Cotoneaster pyracantha

Cotoneaster sp.

Malus sp.

Populus hybrid

Prunus padus var. commutata

Rubus sp.

Sambucus sp.

Sorbus sp.

## ASCOMYCETES (Cont'd.)

Nectria cinnabarina (Tode ex Fr.) Fr. (Cont'd.)

Ulmus americana

Ulmus parvifolia

Ulmus sp.

Neopeckia coulteri (Pk.) Sacc.

Pinus albicaulis

Pinus flexilis

Nothophacidium abietinellum (Dearn.) Reid & Cain

Abies balsamea

Onygena equina Pers. ex Fr.

Horse's hoof

Pezicula ocellata (Pers. ex Fr.) Seaver

Populus tremuloides

Peziza sylvestris (Boud.) Sacc. & Trott.

Soil and humus

Phacidium infestans Karst.

Pseudotsuga menziesii

## ASCOMYCETES (Cont'd.)

Phaeocryptopus nudus (Pk.) Petr.

Abies balsamea

? Phragmothyriella sp.

Picea engelmannii

Phyllactinia guttata (Fr.) Lév.

Alnus tenuifolia

Alnus sp.

Propolis rhodoleuca Fr. var. strobilina (Desm.) Phill.

Pinus contorta

Retinocylus abietis (Crouan) Groves & Wells

Picea glauca

Picea mariana

Picea sp.

Pinus banksiana

Pinus contorta

Rhabdocline pseudotsugae Syd.

Abies sp.

Pseudotsuga menziesii

## ASCOMYCETES (Cont'd.)

Rhizina undulata Fr. ex Fr.

Soil and humus

Rhytisma ? arbuti Phill.

Menziesia ferruginea

Rhytisma salicinum (Pers.) Fr.

Salix sp.

Rosellinia ligniaria (Grev.) Nits.

Pinus contorta

Rosellinia thelena (Fr.) Rav.

Pinus contorta

Sarcotrochila balsameae (J. J. Davis) Korf

Abies balsamea

Sarcotrochila piniperda (Rehm) Korf

Picea glauca

Scleroderris abieticola Zeller & Goodding

Abies lasiocarpa

## ASCOMYCETES (Cont'd.)

Scolecnectria scolecospora (Bref.) Seaver

Abies balsamea

Pinus contorta

Taphrina ? boycei Mix

Betula sp.

Taphrina caerulescens (Desm. & Mont.) Tul.

Quercus sp.

Taphrina nana Johans.

Betula sp.

Taphrina occidentalis Ray

Alnus tenuifolia

Tryblidiopsis pinastri Fr.

Hardwood

Tympanis alnea (Pers.) Fr.

Alnus tenuifolia

Alnus sp.

Betula occidentalis

## ASCOMYCETES (Cont'd.)

Tympanis hypopodia Nyl.

Pinus banksiana

Pinus contorta

Tympanis saligna Tode

Salix sp.

Tympanis spermatispora (Nyl.) Nyl.

Populus sp.

Tympanis sp.

Pinus banksiana

Pinus contorta

Uncinula salicis (DC.) Wint.

Populus balsamifera

Populus tremuloides

Populus hybrid

Salix sp.

Ustulina vulgaris Tul.

Acer sp.

Valsa ambiens (Pers. ex Fr.) Fr.

Salix sp.



## ASCOMYCETES (Cont'd.)

Valsa ceratosperma (Tode ex Fr.) Maire

Salix sp.

Valsa curreyi Nits.

Larix laricina

Larix occidentalis

Picea engelmannii

Valsa kunzei (Fr.) Fr.

Picea sp.

Valsa leucostoma (Pers. ex Fr.) Fr.

Alnus sp.

Valsa nivea (Hoffm. ex Fr.) Fr.

Salix sp.

Valsa ? salicina (Pers. ex Fr.) Fr.

Salix sp.

Valsa sordida Nits.

Malus sp.

Populus alba

Populus balsamifera

Populus deltoides var. occidentalis

## ASCOMYCETES (Cont'd.)

Valsa sordida Nits. (Cont'd.)

Populus tremuloides

Populus sp.

Populus hybrid

Sorbus sp.

Valsa translucens (de N.) Ces. & de N.

Salix sp.

Valsaria sp.

Fraxinus sp.

Valsella sp.

Cotoneaster sp.

Venturia populina (Vuill.) Fabric.

Populus balsamifera

Populus sp.

Populus hybrid

Venturia tremulae Aderh.

Populus angustifolia

Populus tremuloides

Populus sp.

## ASCOMYCETES (Cont'd.)

Wallrothiella arceuthobii (Pk.) Sacc.

Arceuthobium americanum

on Picea glauca

Pinus banksiana

Pinus contorta

Pinus ponderosa

Pinus hybrid

Arceuthobium douglasii

on Pseudotsuga menziesii

## BASIDIOMYCETES - TREMELLALES

Auricularia auricula (Hook.) Underw.

Abies balsamea

Abies lasiocarpa

Citrus sp.

Dacrymyces deliquescens (Mérat) Duby

Picea glauca

Pinus banksiana

Pinus contorta

Dacrymyces palmatus (Schw.) Bres.

Picea glauca

Dacrymyces punctiformis Neuh.

Pinus contorta

Dacrymyces stipitatus Neuh.

Pinus contorta

Dacrymyces sp.

Picea glauca

Ditiola radicata Fr.

Pinus contorta

## BASIDIOMYCETES - TREMELLALES (Cont'd.)

Eichleriella spinulosa (Berk. & Curt.) Burt

Populus balsamifera

Populus tremuloides

Exidia candida Lloyd

Betula sp.

Exidia glandulosa Fr. f. populi Neuh.

Alnus sp.

Exidia recisa Fr.

Salix sp.

Exidia saccharina Fr.

Pinus contorta

Guepiniopsis torta (Fr.) Pat.

Abies lasiocarpa

Pinus contorta

Herpobasidium deformans Gould

Lonicera sp.

## BASIDIOMYCETES - TREMELLALES (Cont'd.)

Platygløea arrhytidiae Olive

Pinus contorta

Sebacina ? caesio-cinerea (Hoehn. & Litsch.) Rogers

Pinus banksiana

Sebacina ? calcea (Pers.) Bres.

Picea glauca

Sebacina eyrei Wakef.

Pinus contorta

Sebacina incrustans (Fr.) Tul.

Picea glauca

Sebacina sp.

Picea glauca

Tremella encephala Pers.

Pinus contorta

Tremella ? lutescens (Pers.) Fr.

Pinus contorta

BASIDIOMYCETES - TREMELLALES (Cont'd.)

Tremella mesenterica Fr.

Pinus contorta

Populus tremuloides

Tremella sp.

Pinus contorta

Tulasnella fuscoviolacea Bres.

Pinus contorta

Tulasnella violea (Quél.) Bourd. & Galz.

Pinus banksiana

Pinus contorta

## BASIDIOMYCETES - UREDINALES

Chrysomyxa arctostaphyli Diet.

Arctostaphylos uva-ursi

Picea abies

Picea engelmannii

Picea glauca

Picea mariana

Picea sp.

Chrysomyxa empetri Schroet. ex Cumm.

Empetrum nigrum

Picea glauca

Picea mariana

Picea pungens

Picea sp.

Chrysomyxa ledi d By.

Ledum groenlandicum

Picea engelmannii

Picea glauca

Picea mariana

Picea sp.

Chrysomyxa ledi d By. var. cassandrae (Pk. & Clint.) Savile

Chamaedaphne calyculata



## BASIDIOMYCETES - UREDINALES (Cont'd.)

Chrysomyxa ledicola Lagh.

Ledum glandulosum

Ledum groenlandicum

Ledum palustre var. decumbens

Picea engelmannii

Picea glauca

Picea mariana

Picea pungens

Picea sp.

Chrysomyxa pirolata Wint.

Moneses uniflora

Picea engelmannii

Picea glauca

Picea mariana

Picea sp.

Pyrola asarifolia

Pyrola secunda

Pyrola virens

Pyrola sp.

Chrysomyxa weirii Jacks.

Picea engelmannii

Picea glauca

Picea sp.

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Chrysomyxa woroninii Tranz.

Picea glauca

Picea mariana

Chrysomyxa sp.

Picea glauca

Coleosporium asterum (Diet.) Syd.

Aster ciliolatus

Aster conspicuus

Aster sp.

Pinus banksiana

Pinus contorta

Pinus sylvestris

Solidago sp.

Cronartium coleosporioides Arth.

Castilleja miniata

Castilleja occidentalis

Castilleja raupii

Castilleja septentrionalis

Castilleja sp.

Melampyrum lineare

Orthocarpus luteus

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Cronartium coleosporioides Arth. (Cont'd.)

Pedicularis bracteosa

Rhinanthus crista-galli

Cronartium coleosporioides Arth. (Peridermium harknessii J. P. Moore)

Pinus banksiana

Pinus contorta

Pinus sylvestris

Pinus sp.

Pinus hybrid

Cronartium coleosporioides Arth. (Peridermium stalactiforme Arth. & Kern)

Pinus contorta

Cronartium comandrae Pk.

Comandra pallida

Geocaulon lividum

Pinus banksiana

Pinus contorta

Pinus sylvestris

Pinus sp.

Pinus hybrid

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Cronartium comptoniae Arth.

Myrica gale

Pinus banksiana

Pinus contorta

Cronartium ribicola J. C. Fisch.

Pinus albicaulis

Pinus flexilis

Ribes oxycanthoides

Ribes sp.

Gymnoconia peckiana (Howe) Trott.

Rubus sp.

Gymnosporangium bethelii Kern

Crataegus sp.

Gymnosporangium ? biseptatum Ell.

Amelanchier sp.

Gymnosporangium clavariiforme (Pers.) DC.

Juniperus communis

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Gymnosporangium clavipes (Cke. & Pk.) Cke. & Pk.

Amelanchier alnifolia

Amelanchier sp.

Gymnosporangium corniculans Kern

Amelanchier alnifolia

Juniperus horizontalis

Gymnosporangium globosum Farl.

Juniperus horizontalis

Gymnosporangium nelsoni Arth.

Amelanchier alnifolia

Juniperus scopulorum

Gymnosporangium nidus-avis Thaxt.

Amelanchier alnifolia

Juniperus horizontalis

Juniperus scopulorum

Gymnosporangium tremelloides Hartig

Juniperus communis

Sorbus scopulina

Sorbus sp.

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Gymnosporangium tubulatum Kern ex Arth.

Juniperus scopulorum

Gymnosporangium sp.

Amelanchier alnifolia

Juniperus communis

Juniperus horizontalis

Juniperus scopulorum

Melampsora albertensis Arth.

Populus tremuloides

Pseudotsuga menziesii

Melampsora epitea Thuem.

Abies balsamea

Abies lasiocarpa

Salix sp.

Melampsora lini (Ehr.) Lé<sup>v</sup>.

Linum rigidum

Linum sp.

Melampsora medusae Thuem.

Larix laricina

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Melampsora medusae Thuem. (Cont'd.)

Larix sp.

Populus balsamifera

Populus tremuloides

Populus hybrid

Melampsora occidentalis Jacks.

Populus balsamifera

Populus trichocarpa

Populus sp.

Populus hybrid

Pseudotsuga menziesii

Melampsora paradoxa Diet. & Holw.

Larix laricina

Larix lyallii

Salix sp.

Melampsora sp.

Larix laricina

Larix lyallii

Populus tremuloides

Populus sp.

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Melampsorella caryophyllacearum Schroet.

Abies balsamea

Abies lasiocarpa

Cerastium arvense

Stellaria calycantha

Melampsoridium betulinum (Fr.) Kleb.

Betula glandulosa

Betula occidentalis

Betula papyrifera

Betula sp.

Peridermium holwayi Syd.

Abies balsamea

Abies lasiocarpa

Phragmidium andersonii Shear

Potentilla fruticosa

Potentilla sp.

Phragmidium fusiforme Schroet.

Rosa acicularis

Rosa sp.



## BASIDIOMYCETES - UREDINALES (Cont'd.)

Phragmidium occidentale Arth.

Rubus parviflorus

Phragmidium potentillae (Pers.) Karst.

Potentilla sp.

Phragmidium rubi-idaei (DC.) Karst.

Rubus melanolasius

Rubus sp.

Phragmidium sp.

Amelanchier alnifolia

Rosa acicularis

Rosa rubifolia

Rosa sp.

Puccinia arenariae (Schum.) Wint.

Stellaria sp.

Puccinia asteris Duby

Aster sp.

Puccinia atrofusca (Dudl. & C. H. Thompson) Holw.

Artemisia sp.

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Puccinia caricina DC.

Ribes sp.

Puccinia caricis-shepherdiae J. J. Davis

Elaeagnus commutata

Elaeagnus sp.

Shepherdia canadensis

Puccinia caricis-urticata (Kern) Arth.

Urtica urens

Puccinia clintonii Pk.

Pedicularis bracteosa

Puccinia comandrae Pk.

Comandra pallida

Geocaulon lividum

Puccinia conglomerata (Strauss) Röhling

Petasites palmatus

Puccinia crandallii Pam. & Hume

Symphoricarpos occidentalis

Puccinia difformis Kunze

Galium boreale

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Puccinia gigantea Karst.

Epilobium angustifolium

Puccinia hieracii (Röhling) Mart.

Agoseris glauca

Hieracium umbellatum

Puccinia linkii Klotzsch

Viburnum edule

Puccinia menthae Pers.

Monarda fistulosa var. menthaefolia

Puccinia parkerae Diet. & Holw.

Ribes sp.

Puccinia porphyrogenita Curt. ex Thuem.

Cornus canadensis

Puccinia pulverulenta Grev.

Epilobium sp.

Puccinia punctata Lk.

Galium trifidum

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Puccinia recondita Rob. ex Desm.

Aquilegia flavescens  
 Thalictrum occidentale  
 Thalictrum sparsiflorum  
 Thalictrum sp.

Puccinia rubefaciens Johans.

Galium boreale  
 Galium trifidum  
 Galium sp.

Puccinia ? stipae Arth.

Solidago lepida

Puccinia tanacetii DC.

Artemisia cana  
 Artemisia sp.

Puccinia violae (Schum.) DC.

Viola adunca

Puccinia sp.

Maianthemum canadense var. interius  
 Ribes sp.  
 Thalictrum occidentale

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Pucciniastrum epilobii Otth

Abies balsamea

Abies lasiocarpa

Abies sp.

Epilobium angustifolium

Epilobium glandulosum

Epilobium sp.

Pucciniastrum goeppertianum (Kuehn) Kleb.

Abies lasiocarpa

Abies sp.

Vaccinium caepitosum

Vaccinium scoparium

Vaccinium vitis-idaea var. minus

Vaccinium sp.

Pucciniastrum pyrolae Diet. ex Arth.

Moneses uniflora

Pyrola asarifolia

Pyrola minor

Pyrola secunda

Pyrola virens

Pyrola sp.

## BASIDIOMYCETES - UREDINALES (Cont'd.)

Pucciniastrum sparsum (Wint.) E. Fisch.

Arctostaphylos rubra

Pucciniastrum vaccinii (Wint.) ~~Jørst.~~

Vaccinium caespitosum

Vaccinium membranaceum

Vaccinium myrtilillus

Vaccinium vitis-idaea var. minus

Vaccinium sp.

Uromyces fabae (Grev.) d By. ex Cke.

Vicia americana

Uromyces hedysari-obscuri (DC.) ~~Lév.~~

Hedysarum alpinum

Hedysarum mackenzii

Hedysarum sulphurescens

Hedysarum sp.

Uromyces heterodermus Syd.

Erythronium grandiflorum

## BASIDIOMYCETES - EXOBASIDIALES

Exobasidium sp.

Ledum groenlandicum

Vaccinium membranaceum

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE

? Aleurocorticium macrosporum (Bres.) Lemke

Populus sp.

Aleurodiscus amorphus (Pers.) Rab.

Abies lasiocarpa

Picea glauca

Pseudotsuga menziesii

Aleurodiscus cerussatus (Bres.) Hoehn. & Litsch.

Populus tremuloides

Aleurodiscus ? minnsiae Jacks.

Pinus contorta

Aleurodiscus roseus (Pers. ex Fr.) Hoehn. & Litsch.

Alnus sp.

Picea glauca

Aleurodiscus sp.

Abies lasiocarpa

Coniophora arida (Fr.) Karst.

Pinus contorta



## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Coniophora puteana (Schum. ex Fr.) Karst.

Picea glauca

Pinus contorta

Coniophora suffocata (Pk.) Mass.

Pinus contorta

Coniophora sp.

Picea glauca

Corticium bicolor Pk.

Picea glauca

Pinus contorta

Corticium centrifugum complex

Betula papyrifera

Larix occidentalis

Picea glauca

Picea mariana

Pinus banksiana

Pinus contorta

Pinus sp.

Corticium contiguum Karst.

Salix sp.

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Corticium corrugae (Burt) Burt

Abies lasiocarpa

Corticium ? decipiens Hoehn. & Litsch.

Pinus banksiana

Pinus contorta

Corticium fuscostratum Burt

Pinus contorta

Corticium galzinii Bourd.

Picea glauca

Corticium ? geogenium Bres.

Picea glauca

Corticium incrustans Hoehn. & Litsch.

Hardwood

Corticium laeve Pers.

Pinus contorta

Corticium ? molliforme Bourd. & Galz.

Pinus contorta

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Corticium niveo-cremeum Hoehn. & Litsch.

Picea engelmannii

Corticium ochraceum Fr.

Alnus sp.

Corticium ? pelliculare Karst.

Pinus resinosa

Corticium ? radiosum Fr.

Picea sp.

Corticium sulphureum (Pers. ex Fr.) Fr.

Picea glauca

Pinus banksiana

Corticium ? tessulatum Cke.

Pinus banksiana

Corticium ? tsugae Burt

Pinus banksiana

Corticium tulasnelloideum Hoehn. & Litsch.

Picea glauca

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Corticium sp.

Alnus sp.

Picea glauca

Pinus contorta

Populus tremuloides

Populus sp.

Cryptochaete rufa (Fr.) Karst.

Populus balsamifera

Populus tremuloides

Populus sp.

Populus hybrid

Gloeocystidiellum leucoxanthum (Bres.) Boid.

Populus tremuloides

Gloeocystidiellum lividocaeruleum (Karst.) Donk

Pinus contorta

Gloeocystidiellum ? ochraceum (Fr. ex Fr.) Donk

Picea engelmannii

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Hymenochaete tabacina (Sow. ex Fr.) Lév.

Abies lasiocarpa

Picea engelmannii

Picea glauca

Laeticorticium ? pini (Jacks.) Donk

Pinus banksiana

Pellicularia chordulata Rogers

Picea glauca

Pellicularia isabellina (Fr.) Rogers

Hardwood

Picea glauca

Pellicularia subcoronata (Hoehn. & Litsch.) Rogers

Picea glauca

Pellicularia vaga (Berk. & Curt.) Rogers

Picea engelmannii

Pinus banksiana

Pinus contorta

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Peniophora affinis Burt

Pinus contorta

Peniophora aspera (Pers.) Sacc.

Hardwood

Pinus contorta

Peniophora aurantiaca (Bres.) Hoehn. & Litsch.

Alnus crispa

Alnus tenuifolia

Alnus sp.

Peniophora bastata Litsch.

Pinus contorta

Peniophora byssoides (Pers. ex Fr.) Bres.

Abies lasiocarpa

Picea engelmannii

Picea glauca

Peniophora calothrix (Pat.) Rogers & Jacks.

Pinus sp.

Pinus hybrid

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Peniophora cremea (Bres.) Sacc. & Syd.

Abies lasiocarpa

Picea glauca

Peniophora erikssonii Boid.

Alnus sp.

Peniophora gigantea (Fr.) Mass.

Picea glauca

Pinus contorta

Peniophora gracillima Ell. & Ev. ex Rogers & Jacks.

Pinus contorta

Peniophora greschikii (Bres.) Bourd. & Galz.

Pinus contorta

Peniophora guttulifera (Karst.) Sacc.

Hardwood

Peniophora incarnata (Pers. ex Fr.) Karst.

Pinus contorta

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Peniophora longispora (Pat.) Hoehn.

Populus sp.

Peniophora ludoviciana Burt

Hardwood

Peniophora luna Rom. ex Rogers & Jacks.

Picea engelmannii

Pinus contorta

Peniophora phlebioides Jacks. & Deard.

Pinus contorta

Pinus hybrid

Peniophora pithya (Pers.) Eriks.

Abies lasiocarpa

Picea sp.

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

Populus tremuloides

Populus sp.



## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Peniophora pseudo-pini Weresub & Gibson

Pinus banksiana

Pinus contorta

Pinus hybrid

Peniophora pubera (Fr.) Sacc.

Picea glauca

Peniophora sanguinea (Fr.) Hoehn. & Litsch.

Picea engelmannii

Picea glauca

Pinus banksiana

Pinus contorta'

Peniophora separans Burt

Picea engelmannii

Picea glauca

Pinus contorta

Peniophora septentrionalis Laurila

Picea engelmannii

Picea glauca

Picea mariana

Pinus contorta

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Peniophora subalutacea (Karst.) Hoehn. & Litsch.

Picea engelmannii

Pinus contorta

Peniophora velutina (DC. ex Pers.) Cke.

Picea glauca

Peniophora violaceo-livida (Sommerf.) Mass.

Picea engelmannii

Pinus banksiana

Pinus contorta

Peniophora sp.

Picea engelmannii

Picea glauca

Picea sp.

Pinus contorta

Pinus sp.

Pinus hybrid

Populus tremuloides

Stereum abietinum (Pers. ex Fr.) Fr.

Abies lasiocarpa

Picea engelmannii

Picea glauca

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Stereum abietinum (Pers. ex Fr.) Fr. (Cont'd.)

Picea sp.

Pinus contorta

Stereum albobadium (Schw. ex Fr.) Fr.

Populus tremuloides

Stereum chailletii (Pers. ex Fr.) Fr.

Picea engelmannii

Picea sp.

Pinus contorta

Stereum complicatum (Fr.) Fr.

Betula papyrifera

Stereum fasciatum Schw.

Hardwood

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

Betula occidentalis

Betula papyrifera

Pinus contorta

Populus balsamifera

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Stereum purpureum (Pers. ex Fr.) Fr.

Betula papyrifera

Populus balsamifera

Populus tremuloides

Stereum radiatum Pk.

Populus tremuloides

Stereum rugosum (Pers. ex Fr.) Fr.

Abies lasiocarpa

Picea glauca

Pseudotsuga menziesii

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

Abies balsamea

Abies lasiocarpa

Abies sp.

Picea engelmannii

Picea glauca

Picea mariana

Picea sp.

Pinus banksiana

Pinus contorta

Populus balsamifera

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Stereum sulcatum Burt

Picea engelmannii

Picea sp.

Stereum sp.

Betula papyrifera

Pinus contorta

Thelephora griseozonata Cke.

Conifers

Soil and humus

Thelephora terrestris Ehr. ex Fr.

Soil and humus

Thelephora sp.

Soil and humus

Tomentella coriaria (Pk.) Bourd. & Galz.

Quercus sp.

Tomentella fusca (Pers.) Schroet.

Pinus contorta

## BASIDIOMYCETES - POLYPORALES - THELEPHORACEAE (Cont'd.)

Tomentella zygodesmoides (Ell.) Hoehn.

Populus tremuloides

Tomentella sp.

Hardwood

Pinus contorta

Trechispora brinkmannii (Bres.) Rogers & Jacks.

Pinus contorta

Populus tremuloides

? Trechispora hirschii (Donk) Rogers

Pinus contorta

Tubulicrinis gracillimus (Ell. & Ev.) Cunn.

Picea glauca

Tubulicrinis subulata (Bourd. & Galz.) Donk

Pinus banksiana

Pinus contorta

Vararia effusata (Cke. & Ell.) Rogers & Jacks.

Acer saccharum

## BASIDIOMYCETES - POLYPORALES - CLAVARIACEAE

Clavaria cristata (Holmsk.) Pers.

Soil and humus

Clavaria liquula Schaeff. ex Fr.

Soil and humus

Clavaria ? stricta Fr.

Soil and humus

## BASIDIOMYCETES - POLYPORALES - HYDNACEAE

Auriscalpium vulgare S. F. Gray

Soil and humus

Echinodontium tinctorium Ell. & Ev.

Abies lasiocarpa

Abies sp.

Pseudotsuga menziesii

Tsuga heterophylla

Grandinia brinkmannii (Bres.) Bourd. & Galz.

Picea glauca

Grandinia farinacea (Pers. ex Fr.) Bourd. & Galz.

Pinus contorta

Grandinia helvetica (Pers.) Fr.

Pinus contorta

Grandinia sp.

Pinus banksiana

Hericium coralloides Scop. ex S. F. Gray

Populus balsamifera



## BASIDIOMYCETES - POLYPORALES - HYDNACEAE (Cont'd.)

Hericium laciniatum Leers ex Banker

Betula papyrifera

Picea glauca

Populus balsamifera

Hericium sp.

Betula sp.

Hydnellum scrobiculatum (Fr.) Karst.

Soil and humus

Hydnellum velutinum (Fr.) Karst.

Soil and humus

Hydnochaete olivacea (Schw.) Banker

Alnus sp.

Hydnoporia fuscescens (Schw.) Murr.

Hardwood

Mucronella aggregata Fr.

Pinus contorta

Odontia ? arguta (Fr.) Qué<sup>l</sup>.

Pinus contorta

## BASIDIOMYCETES - POLYPORALES - HYDNACEAE (Cont'd.)

Odontia crustosa (Fr.) Qué1.

Pinus banksiana

Odontia ? crustula L. W. Miller

Pinus banksiana

Odontia eriozona Bres.

Populus tremuloides

Odontia fimbriata (Fr.) Fr.

Quercus sp.

Odontia hydroides (Cke. & Mass.) Hoehn.

Picea glauca

Odontia ? romellii Lund.

Picea engelmannii

Pinus banksiana

Odontia sp.

Conifers

Phaeophlebia strigoso-zonta (Schw.) W. B. Cke.

Populus tremuloides

## BASIDIOMYCETES - POLYPORALES - HYDNACEAE (Cont'd.)

Phlebia radiata Fr.

Picea glauca

Pinus contorta

Populus balsamifera

Radulum casearium (Morg.) Lloyd

Populus balsamifera

Populus tremuloides

Populus sp.

Radulum ? quercinum Fr.

Alnus sp.

Sarcodon imbricatus (L. ex Fr.) Karst.

Soil and humus

Sarcodon laevigatis (Sw.) Karst.

Soil and humus

Steccherinum septentrionale (Fr.) Banker

Populus tremuloides

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE

Aporpium caryae (Schw.) Teixeira & Rogers

Carya sp.

Populus tremuloides

Daedalea confragosa Bolt. ex Fr.

Betula alleghaniensis

Salix sp.

Daedalea unicolor Bull. ex Fr.

Alnus sp.

Betula alleghaniensis

Betula papyrifera

Betula sp.

Populus tremuloides

Favolus alveolaris (DC. ex Fr.) Qué1.

Alnus sp.

Salix sp.

Fomes cajanderi Karst.

Larix laricina

Larix occidentalis

Picea engelmannii

Picea glauca

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Fomes cajanderi Karst. (Cont'd.)

Picea sp.

Pinus banksiana

Pinus contorta

Pseudotsuga menziesii

Fomes fomentarius (L. ex Fr.) Kickx

Betula papyrifera

Betula sp.

Populus balsamifera

Populus tremuloides

Fomes fraxinophilus (Pk.) Cke.

Shepherdia argentea

Fomes igniarius (L. ex Fr.) Kickx

Alnus sp.

Betula occidentalis

Betula papyrifera

Betula sp.

Populus balsamifera

Populus tremuloides

Populus sp.

Populus hybrid

Prunus serotina

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

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

Salix sp.

Fomes nigrolimitatus (Rom.) Egel.

Picea engelmannii

Fomes officinalis (Vill. ex Fr.) Faull

Pseudotsuga menziesii

Fomes pini (Thore ex Pers.) Lloyd

Abies balsamea

Abies lasiocarpa

Larix lyallii

Picea engelmannii

Picea glauca

Picea mariana

Picea sp.

Pinus albicaulis

Pinus banksiana

Pinus contorta

Pinus hybrid

Pseudotsuga menziesii

Fomes pinicola (Sw. ex Fr.) Cke.

Abies balsamea

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Fomes pinicola (Sw. ex Fr.) Cke. (Cont'd.)

Abies lasiocarpa  
Abies sp.  
Betula papyrifera  
Picea engelmannii  
Picea glauca  
Picea mariana  
Picea sp.  
Pinus banksiana  
Pinus contorta  
Populus balsamifera  
Populus tremuloides  
Populus sp.  
Pseudotsuga menziesii

Fomes roseus (Alb. & Schw. ex Fr.) Karst.

Picea engelmannii  
Picea glauca  
Picea sp.  
Pinus contorta

Fomes viticola (Schw.) Lowe

Picea glauca  
Pinus contorta

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Fomes sp.

Salix sp.

Ganoderma applanatum (Pers. ex Wallr.) Pat.

Picea glauca

Picea hybrid

Populus balsamifera

Populus tremuloides

Populus trichocarpa

Lenzites betulina (L. ex Fr.) Fr.

Betula papyrifera

Picea glauca

Populus tremuloides

Lenzites saepiaria (Wulf. ex Fr.) Fr.

Abies lasiocarpa

Abies sp.

Alnus sp.

Betula papyrifera

Larix laricina

Picea engelmannii

Picea glauca

Picea sp.



## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Lenzites saepiaria (Wulf. ex Fr.) Fr. (Cont'd.)

Pinus banksiana

Pinus contorta

Populus balsamifera

Populus tremuloides

Pseudotsuga menziesii

Merulius ambiguus Berk.

Picea glauca

Pinus banksiana

Pinus contorta

Merulius ? aureus Fr.

Pinus contorta

Merulius bellus Berk. & Curt.

Picea glauca

Merulius fugax Fr.

Picea glauca

Pinus contorta

Merulius lacrymans Wulf. ex Fr.

Conifers

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Merulius niveus Fr.

Alnus sp.

Merulius tremellosus Schrad. ex Fr.

Betula alleghaniensis

Populus tremuloides

Merulius sp.

Picea glauca

Pinus contorta

Polyporus abietinus Dicks. ex Fr.

Abies balsamea

Abies lasiocarpa

Larix laricina

Larix occidentalis

Picea engelmannii

Picea glauca

Picea mariana

Pinus banksiana

Pinus contorta

Pinus sylvestris

Pinus hybrid

Pseudotsuga menziesii

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus adustus Willd. ex Fr.

Citrus sp.

Populus balsamifera

Populus tremuloides

Populus sp.

Polyporus alboluteus Ell. & Ev.

Abies lasiocarpa

Picea engelmannii

Picea glauca

Picea sp.

Polyporus amorphus Fr.

Pinus contorta

Polyporus anceps Pk.

Abies balsamea

Picea glauca

Pinus banksiana

Pinus contorta

Polyporus betulinus Bull. ex Fr.

Betula papyrifera

Betula sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus biformis Fr.

Betula sp.

Polyporus brumalis Pers. ex Fr.

Hardwood

Polyporus caesius Schrad. ex Fr.

Pinus contorta

Polyporus cinnabarinus Jacq. ex Fr.

Alnus sp.

Betula papyrifera

Populus tremuloides

Polyporus conchifer (Schw.) Fr.

Alnus sp.

Populus sp.

Polyporus dichrous Fr.

Betula papyrifera

Betula sp.

Fagus grandifolia

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus elegans Bull. ex Fr.

Alnus tenuifolia

Betula papyrifera

Betula sp.

Populus sp.

Salix sp.

Polyporus ? fibrillosus Karst.

Populus balsamifera

Populus sp.

Polyporus fragilis Fr.

Pinus barksiana

Pinus contorta

Polyporus fumosus Pers. ex Fr.

Betula alleghaniensis

Conifers

Populus tremuloides

Polyporus gilvus (Schw.) Fr.

Acer sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus hirsutus Wulf. ex Fr.

Betula papyrifera

Populus tremuloides

Polyporus lapponicus Rom.

Picea engelmannii

Picea glauca

Picea sp.

Pinus contorta

Polyporus ? leucospongia Cke. & Harkn.

Pinus contorta

Polyporus mollis Pers. ex Fr.

Picea glauca

Pinus contorta

Polyporus pargamenus Fr.

Acer sp.

Betula papyrifera

Betula sp.

Populus balsamifera

Populus tremuloides

Populus sp.

Quercus sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus perennis L. ex Fr.

Soil and humus

Polyporus picipes Fr.

Alnus crispa

Conifers

Populus tremuloides

Populus sp.

Salix sp.

Soil and humus

Polyporus pocula (Schw.) Berk. & Curt.

Juglans cinerea

Polyporus pubescens Schum. ex Fr.

Acer saccharum

Alnus sp.

Betula sp.

Pinus contorta

Populus balsamifera

Populus tremuloides

Populus sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus resinosus Schrad. ex Fr.

Hardwood

Picea engelmannii

Polyporus schweinitzii Fr.

Picea engelmannii

Picea glauca

Soil and humus

Polyporus squamosus Micheli ex Fr.

Salix sp.

Polyporus tomentosus Fr.

Picea engelmannii

Picea glauca

Soil and humus

Polyporus tulipiferae (Schw.) Overh.

Betula papyrifera

Fagus grandifolia

Pinus contorta

Populus balsamifera

Prunus sp.



## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Polyporus undosus Pk.

Pinus strobus

Polyporus varius Fr.

Conifers

Salix sp.

Polyporus velutinus Fr.

Betula papyrifera

Betula sp.

Populus balsamifera

Populus tremuloides

Polyporus versicolor L. ex Fr.

Acer sp.

Betula papyrifera

Populus tremuloides

Polyporus volvatus Pk.

Picea glauca

Pinus banksiana

Pinus contorta

Pseudotsuga menziesii

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Poria albobrunnea (Rom.) Baxter

Picea engelmannii

Pinus contorta

Poria aneirina (Sommerf.) Cke.

Populus tremuloides

Poria ? aurantiaca (Rostk.) Sacc.

Populus tremuloides

Poria ? byssina (Pers.) Rom.

Pinus contorta

Poria crustulina Bres.

Picea engelmannii

Picea glauca

Poria eupora (Karst.) Cke.

Hardwood

Poria ferrea (Pers.) Bourd. & Galz.

Alnus sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Poria ferrugineo-fusca Karst.

Picea glauca

Pinus ponderosa

Poria ferruginosa (Schrad. ex Fr.) Karst.

Acer sp.

Alnus sp.

Betula occidentalis

Populus tremuloides

Poria mappa Overh. & Lowe

Conifers

Poria mollusca (Pers. ex Fr.) Cke.

Hardwood

Poria monticola Murr.

Picea glauca

Poria myceliosa Pk.

Pinus contorta

Poria nigrescens Bres.

Hardwood

Pinus strobus

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Poria obliqua (Pers. ex Fr.) Karst.

Betula papyrifera

Poria oleagina Overh.

Abies lasiocarpa

Poria purpurea (Fr.) Cke.

Pinus contorta

Poria ? reticulata (Pers. ex Fr.) Cke.

Pinus contorta

Populus tremuloides

Poria rixosa Karst.

Pinus contorta

Poria sericeomollis (Rom.) Egel.

Pinus hybrid

Poria spissa (Schw.) Cke.

Fraxinus americana

Poria subacida (Pk.) Sacc.

Pinus banksiana

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Poria subvermispora Pilát

Pinus contorta

Poria taxicola (Pers.) Cke.

Picea engelmannii

Picea glauca

Pinus banksiana

Pinus contorta

Poria vaporaria (Pers. ex Fr.) Cke.

Pinus contorta

Poria versipora (Pers.) Rom.

Alnus sp.

Populus tremuloides

Poria xantha (Fr. ex Lind) Cke.

Picea glauca

Pinus contorta

Poria sp.

Picea glauca

Pinus contorta

Populus tremuloides

Salix sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Porothelium fimbriatum (Pers. ex Fr.) Fr.

Acer sp.

Trametes heteromorpha (Fr.) Bres.

Picea engelmannii

Picea glauca

Picea sp.

Pinus banksiana

Pinus contorta

Pseudotsuga menziesii

Trametes hispida Bagl.

Acer sp.

Populus balsamifera

Populus tremuloides

Populus sp.

Sorbus decora

Trametes mollis (Sommerf.) Fr.

Betula papyrifera

Trametes odora (Sommerf.) Fr.

Alnus sp.

Populus tremuloides

Salix sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Trametes odorata (Wulf. ex Fr.) Fr.

Picea glauca

Picea mariana

Picea sp.

Pinus banksiana

Pinus contorta

Trametes ? sepium Berk.

Picea engelmannii

Pinus contorta

Trametes serialis Fr.

Betula papyrifera

Picea engelmannii

Picea glauca

Pinus contorta

Pseudotsuga menziesii

Thuja occidentalis

Trametes suaveolens L. ex Fr.

Populus tremuloides

Populus hybrid

Salix sp.

## BASIDIOMYCETES - POLYPORALES - POLYPORACEAE (Cont'd.)

Trametes variiformis Pk.

Picea englemannii

Picea glauca

Pinus contorta

Pseudotsuga menziesii



## BASIDIOMYCETES - AGARICALES - BOLETACEAE

Boletellus russellii (Frost) Gilb.

Soil and humus

Suillus hirtellus (Pk.) Kuntze

Soil and humus

Suillus luteus (L. ex Fr.) S. F. Gray

Soil and humus

Tylopilus felleus (Bull. ex Fr.) Karst.

Soil and humus

## BASIDIOMYCETES - AGARICALES - AGARICACEAE

Agaricus placomyces Pk.

Soil and humus

Amanitopsis volvata Pk.

Soil and humus

Armillaria mellea (Vahl ex Fr.) Qué1.

Abies balsamea

Abies lasiocarpa

Abies sp.

Larix laricina

Larix sibirica

Picea glauca

Picea mariana

Pinus banksiana

Pinus contorta

Pinus flexilis

Populus tremuloides

Pseudotsuga menziesii

Quercus sp.

Soil and humus

Collybia velutipes (Curt. ex Fr.) Kumm.

Populus tremuloides

## BASIDIOMYCETES - AGARICALES - AGARICACEAE (Cont'd.)

Crepidotus sp.

Betula sp.

Flammula alnicola (Fr.) Kumm.

Picea glauca

Pinus contorta

Gomphidius viscidus Fr.

Soil and humus

Lactarius lignyotus (Fr. ex Fr.) Fr.

Soil and humus

Lentinus lepideus Fr.

Conifers

Lepiota molybdites (Meyer ex Fr.) Sacc.

Soil and humus

Marasmius personatus Fr.

Soil and humus

? Marasmius sp.

Pinus contorta

## BASIDIOMYCETES - AGARICALES - AGARICACEAE (Cont'd.)

Pholiota aurivella (Batsch ex Fr.) Kumm.

Populus tremuloides

Pholiota destruens (Brond.) Qué1.

Populus balsamifera

Pholiota erebia Fr.

Soil and humus

Pholiota praecox (Pers.) Fr.

Soil and humus

Pholiota spectabilis (Fr.) Gill.

Conifers

Populus balsamifera

Populus tremuloides

Pholiota squarrosa (Pers. ex Fr.) Kumm.

Populus balsamifera

Pholiota squarrosoides (Pk.) Sacc.

Populus balsamifera

Pholiota sp.

Betula papyrifera

## BASIDIOMYCETES - AGARICALES - AGARICACEAE (Cont'd.)

Phyllotopsis nidulans (Pers. ex Fr.) Sing.

Abies lasiocarpa

Pleurotus atrocaeruleus Fr. var. griseus Pk.

Pinus contorta

Pleurotus mastrucatus Fr.

Pinus contorta

Pleurotus ostreatus (Jacq. ex Fr.) Kumm.

Populus balsamifera

Populus tremuloides

Populus sp.

Pleurotus sp.

Betula occidentalis

Populus balsamifera

Populus tremuloides

Psilocybe sp.

Populus balsamifera

Soil and humus

Russula emetica (Schaeff. ex Fr.) Pers. ex S. F. Gray

Soil and humus

## BASIDIOMYCETES - AGARICALES - AGARICACEAE (Cont'd.)

Russula ? integra (L. ex Vitt.) Fr.

Soil and humus

Russula nigricans (Bull.) Fr.

Soil and humus

Schizophyllum commune Fr.

Alnus sp.

Betula papyrifera

Malus sp.

Pinus banksiana

Pinus contorta

Populus balsamifera

Populus tremuloides

Populus sp.

Trogia crispa Fr.

Alnus sp.

Betula papyrifera

Betula sp.

Xeromphalina campanella (Batsch ex Fr.) Kuehner & Maire

Picea glauca

Picea sp.

Pinus contorta

## BASIDIOMYCETES - LYCOPERDALES

Geastrum sp.

Soil and humus

## BASIDIOMYCETES - NIDULARIALES

Nidularia sp.

Populus tremuloides



## BASIDIOMYCETES - SCLERODERMATALES

Scleroderma lycoperdoides Schw.

Soil and humus

## FUNGI IMPERFECTI

Botrytis sp.

Pinus sylvestris

Calcarisporium sp.

Pinus contorta

Populus balsamifera

Cephalosporium nordinii Hughes & Bouchier

Pinus contorta

Cephalosporium sp.

Picea glauca

Pinus contorta

Ceuthospora sp.

Pinus contorta

Chaetophiophoma sp.

Pinus contorta

Cladosporium herbarum Lk. ex Fr. = Mycosphaerella tassiana (de N.) Johans.Cladosporium subsessile Ell. & Barth.

Populus tremuloides

## FUNGI IMPERFECTI (Cont'd.)

Cladosporium sp.

Abies balsamea

Arceuthobium americanum

on Pinus contorta

Cronartium coleosporioides (Peridermium harknessii)

on Pinus contorta

Cronartium comandrae

on Pinus contorta

Colletotrichum gloeosporioides Penz. sensu Arx

Arceuthobium americanum

on Pinus banksiana

Pinus contorta

Coniothyrium sp.

Picea glauca

Pinus contorta

Conoplea geniculata (Cda.) Hughes

Salix sp.

Constantinella micheneri (Berk. & Curt.) Hughes

Pinus contorta

## FUNGI IMPERFECTI (Cont'd.)

Cryptosporiopsis scutellata Petr. = Pezicula ocellata (Pers. ex Fr.)  
Seaver

Cylindrosporium ribis J. J. Davis

Ribes sp.

Cytospora chrysosperma Pers. ex Fr. = Valsa sordida Nits.

Cytospora curreyi Sacc. = Valsa curreyi Nits.

Cytospora kunzei Sacc. = Valsa kunzei (Fr.) Fr.

Cytospora rubescens Fr. = Eutypella sorbi (Fr.) Sacc.

Cytospora ? salicis (Cda.) Rab. = Valsa ? salicina (Pers. ex Fr.) Fr.

Cytospora sp.

Betula papyrifera

Caragana sp.

Pinus contorta

Populus sp.

Pseudotsuga menziesii

Salix sp.

Dactylium sp.

Pinus contorta

## FUNGI IMPERFECTI (Cont'd.)

? Dendryphium sp.

Dicentra spectabilis

Diplodia tumefaciens (Shear) Zalasky

Populus balsamifera

Populus tremuloides

Dothistroma pini Hulbary

Pinus pinaster

Pinus radiata

Fumago sp.

Pinus contorta

Populus tremuloides

Geotrichum candidum Lk.

Pinus contorta

Geotrichum sp.

Picea glauca

Gloeocoryneum cinereum (Dearn.) Weindlmayr

Pinus contorta

## FUNGI IMPERFECTI (Cont'd.)

Glomerularia corni Pk.

Cornus canadensis

? Gyrostroma sp.

Pinus contorta

Hendersonia ? acuum Karst.

Pinus contorta

Hendersonia pinicola Wehm.

Pinus banksiana

Pinus contorta

Hendersonia sp.

Pinus contorta

Hormonema ? dematioides Lager. & Melin

Pinus contorta

Kabatiella sp.

Pinus contorta

Leptographium lundbergii Lager. & Melin

Pinus contorta

## FUNGI IMPERFECTI (Cont'd.)

Leptographium sp.

Pinus contorta

Libertella ? betulina Desm.

Betula sp.

Macrophoma sp.

Cornus sp.

Macrosporium sp.

Cotoneaster sp.

Marssonina populi (Lib.) Magn.

Populus balsamifera

Marssonina tremuloidis (Ell. & Ev.) Kleb.

Populus tremuloides

Melasmia menziesiae Dearn. & Barth.

Menziesia ferruginea

? Myxosporella sp.

Pinus contorta

## FUNGI IMPERFECTI (Cont'd.)

Oidium corticale Pk.

Pinus contorta

Cidium microspermum Berk. & Br.

Picea sp.

Oidium sp.

Shepherdia canadensis

Paecilomyces varioti Bainier

Pinus contorta

Phacidiopycnis pseudotsugae (M. Wils.) Hahn

Pseudotsuga menziesii

Phoma sp.

Pinus contorta

Phomopsis ? lokoyoe Hahn

Pseudotsuga menziesii

Phyllosticta sp.

Populus hybrid



## FUNGI IMPERFECTI (Cont'd.)

Pleurophomella saligna Hoehn. = Tympanis saligna Tode

Pleurophomella spermatiospora Hoehn. = Tympanis spermatiospora (Nyl.) Nyl.

? Pleurophomopsis sp.

Pinus contorta

Pollaccia elegans Servazzi = Venturia populina (Vuill.) Fabric.

Pollaccia radiosa (Lib.) Bald. & Cif. = Venturia tremulae Aderh.

Pullularia pullulans (d By. & E. Low) Berkhout

Pinus contorta

Ramularia sp.

Pinus contorta

Rhinocladiella atrovirens Nannf.

Pinus contorta

Sclerotium sp. = Ciborinia whetzellii (Seaver) Seaver

Septogloeum gillii D. Ell.

Arceuthobium americanum

on Pinus banksiana

Pinus contorta

Arceuthobium campylopodum

on Picea engelmannii

## FUNGI IMPERFECTI (Cont'd.)

Septogloeum gillii D. Ell. (Cont'd.)

Arceuthobium douglasii

on Pseudotsuga menziesii

Septonema chaetospira (Groves) Hughes

Pinus contorta

Septoria musiva Pk. = Mycosphaerella populorum G. E. Thompson

Septoria populicola Pk. = Mycosphaerella populicola G. E. Thompson

Septoria ribis Desm. = Mycosphaerella ribis (Fckl.) Feltg.

Septoria sambucina Pk.

Sambucus sp.

Stilbella cinnabarina (Mont.) Fr.

Citrus sp.

Taeniolella sp.

Pinus contorta

Trichoderma lignorum (Tode) Harz

Pinus contorta

## FUNGI IMPERFECTI (Cont'd)

Trichoderma sp.

Pinus contorta

Trichothecium roseum Lk. ex Fr.

Picea engelmannii

Tritirachium hydnicola (Pk.) Hughes

Picea glauca

Tubercularia vulgaris Tode = Nectria cinnabarina (Tode ex Fr.) Fr.Tubercularia sp.

Sambucus sp.

Tuberculina maxima Rostr.

Cronartium coleosporioides (Peridermium harknessii)

on Pinus contorta

Cronartium coleosporioides (Peridermium stalactiforme)

on Pinus contorta

Cronartium comandrae

on Pinus contorta

Tuberculina sp.

Fucciniastrum goeppertianum

on Abies lasiocarpa

## FUNGI IMPERFECTI (Cont'd.)

Zythia resinae (Ehr. ex Fr.) Karst. = Biatorella resinae (Ehr. ex Fr.) Mudd.

## MISTLETOE

Arceuthobium americanum Nutt. ex Engelm.

Picea glauca  
Picea sp.  
Pinus banksiana  
Pinus contorta  
Pinus ponderosa  
Pinus hybrid

Arceuthobium campylopodum Engelm.

Abies concolor  
Abies lasiocarpa  
Larix occidentalis  
Picea engelmannii  
Pinus contorta  
Pinus coulteri  
Pinus edulis  
Pinus flexilis  
Pinus monticola  
Pinus pinaster  
Pinus ponderosa  
Pinus sabiniana  
Pinus hybrid

Arceuthobium douglasii Engelm.

Abies grandis

## MISTLETOE (Cont'd.)

Arceuthobium douglasii Engelm. (Cont'd.)

Pseudotsuga menziesii

Arceuthobium gillii Hawksworth & Wiens

Pinus leiophylla var. chihuahuana

Arceuthobium globosum Hawksworth & Wiens

Pinus montezumae

Arceuthobium pusillum Pk.

Picea mariana

Arceuthobium rubrum Hawksworth & Wiens

Pinus teocote

Arceuthobium vaginatum (Willd.) Presl

Pinus cooperi

Pinus ponderosa

Arceuthobium verticilliflorum Engelm.

Pinus engelmannii

Phoradendron bolleanum (Seem.) Eichler

Cupressus sargentii

## MISTLETOE (Cont'd.)

Phoradendron densum Torr.

Cupressus sargentii

Phoradendron flavescens Nutt.

Populus fremontii

Phoradendron villosum Nutt.

Alnus rubra

Juglans hindsii

Quercus lobata

## ANIMAL DAMAGE

## Rodent damage

Acer sp.

Betula papyrifera

Pinus banksiana

## Sapsucker damage

Pinus banksiana



## BACTERIA

Erwinia amylovora (Burr.) Winsl. et al.

Amelanchier alnifolia

Crataegus sp.

Malus sp.

Prunus sp.

Sorbus americana

Phytophthora syringae (v. Hall) Bergey et al.

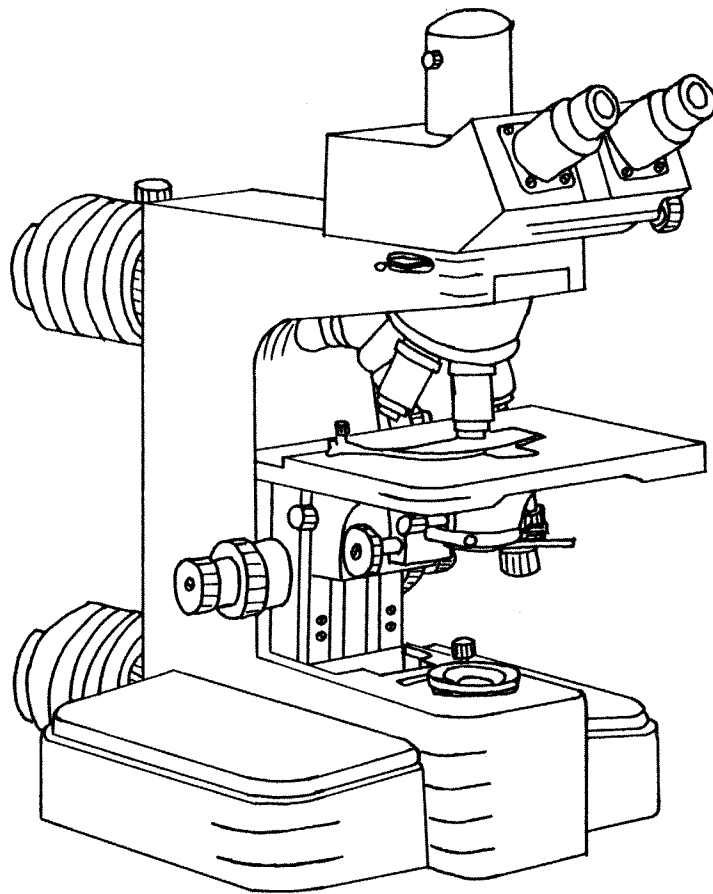
Philadelphus lewisii

## VIRUS

*Amelanchier alnifolia*

*Geocaulon lividum*

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