

INDEX OF HOSTS AND ASSOCIATED FUNGI IDENTIFIED BY THE FOREST INSECT
AND DISEASE SURVEY IN ONTARIO FROM 1967 TO 1987.

II. CONIFERS OTHER THAN PINES

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FORESTRY CANADA
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ABSTRACT

This publication lists all fungi found on conifers other than pine hosts from 1967 to 1987 by personnel of the Forest Insect and Disease Survey (FIDS) Unit at the Great Lakes Forestry Centre. The list is arranged first by host and then by organism. An index of common names of hosts and of diseases provides the reader who is not familiar with all of the Latin binomials with access to the appropriate pages in the lists. A comprehensive index of all Latin binomials, including frequently used synonyms, is included.

RÉSUMÉ

Les auteurs ont dressé la liste de tous les champignons observés sur des conifères sauf les pins par le personnel de la section du Relevé des insectes et des maladies des arbres (RIMA) du Centre de foresterie des Grands Lacs de 1967 à 1987. La liste est divisée par hôte et par agent. La publication renferme un index des noms communs des hôtes et des maladies, qui permet au lecteur non familier avec tous les noms latins de trouver les pages voulues, ainsi qu'un index compréhensif de tous les noms latins, y compris les synonymes fréquemment employés.

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INTRODUCTION

This index is the second in a series of indices prepared by the mycology section of the Forest Insect and Disease Survey (FIDS) Unit and covers all conifers other than pine. The first index in the series covered the genus *Pinus*.

The information presented in these indices of fungi and their hosts was obtained from the FIDS data bank maintained at the Petawawa National Forestry Institute. This data bank contains detailed records of each tree disease collection made by FIDS staff since 1967. Information from the Great Lakes Forestry Centre (GLFC) extension sample records not contained in the data bank is included. Most of the samples in our extension records were collected by staff of the Ontario Ministry of Natural Resources (OMNR).

This index has been prepared so as to ensure that at least some of the information in our data bank is available to the forestry community at large. Additional indices will be prepared over the next several years to cover all tree species native to Ontario; some of the more widely planted exotics will also be included.

The text consists of two major divisions. In the first the hosts are arranged in alphabetical order by their Latin binomials. In the second, the organisms are arranged in a similar fashion. These divisions are followed by alphabetical lists of the common names of both the hosts and the diseases, with the corresponding Latin binomials. By consulting these lists for names that may be more familiar, the reader will gain access to the binomials in the main body of the text. An index of all Latin binomials, including anamorphs and synonyms, has also been included.

Many of the fungi presented are not true pathogens but have been found on the hosts as saprophytes. Others are known to be either weakly or vigorously pathogenic. To simplify attempts to recognize the category to which a fungus belongs, we have assigned a number according to the following system, which is used in the annual FIDS reports:

DISEASE RATING

1. Capable of causing serious injury to or death of living trees.
2. Capable of causing sporadic or local injury but not usually a threat to living trees.
3. Of minor importance and not known to have caused serious damage to trees.
4. Known as a saprophytic fungus.

M. Mycorrhizal.

Our assignment of an organism to a specific category is based on our field observations and laboratory experience. Decay fungi, which are certainly among the most serious fungi on forest trees, are difficult to place in this rating system as many do not kill their hosts but do cause significant wood volume loss. This loss cannot be considered an injury but may predispose the host to eventual breakage from wind, ice or other physical agents.

Geographic locations refer to the provincial administrative regions as presented in Figure 1. We have elected to use a suitable abbreviation in designating the regions, such as NE for the Northeastern Region. In the text, the number of collections from a region follows the abbreviation and is enclosed within parentheses. It should be noted that these are the regions from which the fungus was reported; the fungus was not necessarily more abundant there, nor was it necessarily absent from other regions.

Many of the fungi and the diseases they cause do not have common names. For these we have constructed a name using the fungal genus, the type of disease, or the host, whichever we deemed most appropriate and least confusing. We do not necessarily nominate these as official common names but use them only to facilitate the use of this host index.

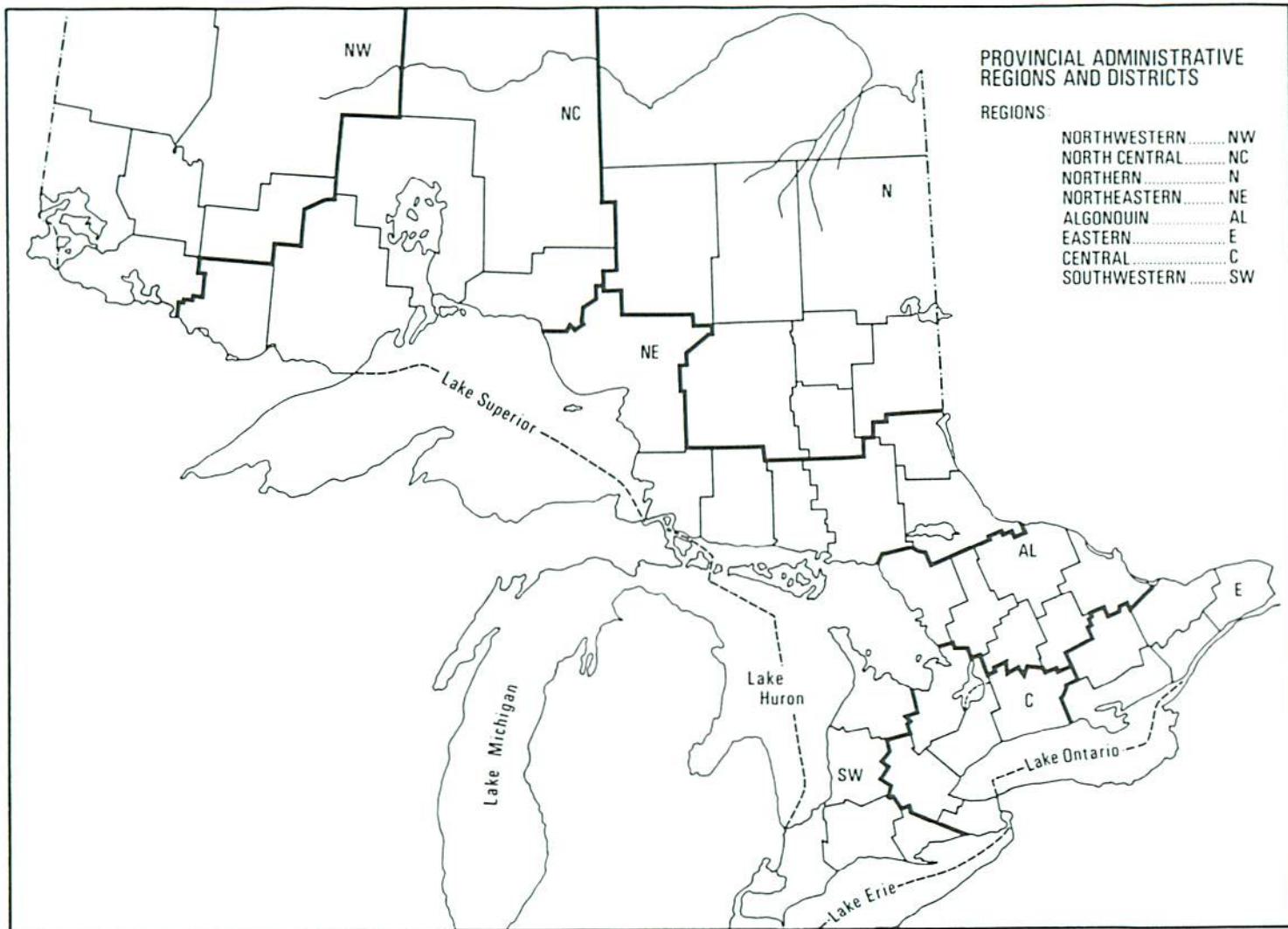


Figure 1. A map of the province of Ontario with the Ontario Ministry of Natural Resources provincial administrative regions bordered by darker lines and identified by the selected abbreviation.

HOST/FUNGUS LISTING

Abies balsamea (L.) Mill., balsam fir

Aleurodiscus amorphus (Pers.:Fr.) Schröter: white rot and canker of balsam fir

Disease Rating: 3

Loc.: N (1), NE (1), C (1)

Amylostereum chailletii (Pers.:Fr.) Boidin: wood wasp stereum

Syn.: *Stereum chailletii* (Pers.:Fr.) Fr.

Disease Rating: 2

Loc.: NW (1)

Armillaria mellea (Vahl:Fr.) Kummer¹: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: NW (5), NC (15), N (12), NE (7), AL (9), C (3), SW (1)

Ascocalyx abietis Naumov: balsam twig blight

Syn.: *Godronia abietis* (Naumov) Seaver

Anamorph: *Bothrodiscus berenice* (Berk. & M.A. Curtis) J.W. Groves

Disease Rating: 3

Loc.: AL (1)

Ascocoryne sarcoides (Jacq.:Fr.) J.W. Groves & D. Wilson: pink stain

Syn.: *Coryne sarcoides* (Jacq.:Fr.) Tul.

Disease Rating: 3

Loc.: NC (1)

Asterodon ferruginosus Pat.: white rot

Disease Rating: 3

Loc.: N (1)

Botryotinia fuckeliana (de Bary) Whetzel: gray mold

Syn.: *Sclerotinia fuckeliana* (de Bary) Fuckel

Anamorph: *Botrytis cinerea* Pers.:Fr.

Disease Rating: 1

Loc.: SW (1)

Cellulosporium sp.: balsam cytosporium

Syn.: *Cytosporium* sp.

Disease Rating: 4

Loc.: NC (1), AL (1)

Cephalosporium sp.: cephalosporium wilt

Disease Rating: 4

Loc.: NW (1), NC (1), N (2), NE (3), E (1), C (1)

¹ Recent research has demonstrated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Abies balsamea (L.) Mill., balsam fir

Ceratocystis sp.: blue stain

Disease Rating: 2

Loc.: N (1)

Chaetomium sp.: chaetomium

Disease Rating: 4

Loc.: NE (2)

Chlorociboria aeruginascens (Nyl.) Kanouse ex Ramam., Korf & Batra: blue-green stain

Anamorph: *Dothiorina tulasnei* (Sacc.) Höhnel

Disease Rating: 4

Loc.: NC (1), N (1)

Cladosporium sp.: needle spot

Disease Rating: 3

Loc.: NE (1)

Climacocystis borealis (Fr.) Kotl. & Pouzar: white mottled rot

Syn.: *Polyporus borealis* Fr.

Syn.: *Tyromyces borealis* (Fr.) Imaz.

Disease Rating: 2

Loc.: NW (1)

Coniophora puteana (Schumacher:Fr.) P. Karsten: brown cubical rot

Disease Rating: 2

Loc.: NW (1), NC (1), N (2), NE (3), AL (4), C (1)

Coniothyrium sp.: conifer coniothyrium

Disease Rating: 3

Loc.: NW (1), N (1), NE (1)

Cytospora sp: cytospora canker

Disease Rating: 3

Loc.: N (2), NE (2), AL (2), E (2), C (1), SW (1)

Cytosporella sp.: shoot blight

Disease Rating: 3

Loc.: AL (1)

Delphinella balsameae (Waterman) E. Müller: tip blight

Syn.: *Rehmielopsis balsameae* Waterman

Disease Rating: 3

Loc.: NC (2)

Dermea balsamea (Peck) Seaver: dermea twig canker

Anamorph: *Foveostroma abietinum* (Peck) Di Cosmo

Syn.: *Gelatinosporium abietinum* Peck

Disease Rating: 3

Loc.: NW (1), NC (2), N (3), NE (2), AL (2), C (1), SW (1)

Abies balsamea (L.) Mill., balsam fir

Dichomitus squalens (P. Karsten) Reid: red ray rot

Syn.: *Polyporus anceps* Peck

Disease Rating: 2

Loc.: NW (1)

Diplodia sp.: diplodia canker

Disease Rating: 2

Loc.: NW (1), NC (1)

Fomitopsis pinicola (Swartz:Fr.) P. Karsten: brown crumbly rot

Syn.: *Fomes pinicola* (Swartz:Fr.) Cooke

Syn.: *Polyporus pinicola* Swartz:Fr.

Disease Rating: 2

Loc.: NW (1), NC (1), N (1)

Fumago sp.: sooty mold

Disease Rating: 4

Loc.: NC (1)

Gelatinosporium sp.: stem canker

Syn.: *Micropora* sp.

Disease Rating: 3

Loc.: N (1), AL (3), SW (1)

Gliocladium roseum (Link) Bainier: gliocladium stain

Disease Rating: 4

Loc.: NW (1)

Gloeophyllum protractum (Fr.) Imaz.: brown cubical rot

Syn.: *Trametes protracta* Fr.

Disease Rating: 4

Loc.: NW (1), NE (1), E (1)

Gloeosporium sp.: branch canker

Disease Rating: 4

Loc.: NE (1)

Haematostereum sanguinolentum (Alb. & Schwein:Fr.) Pouzar: red heart rot

Syn.: *Stereum sanguinolentum* (Alb. & Schwein:Fr.) Fr.

Disease Rating: 2

Loc.: NW (1), NC (3), N (2), NE (3)

Hendersonia sp.: needle blight

Disease Rating: 3

Loc.: NE (1)

Hormiscium sp.: hormiscium

Disease Rating: 4

Loc.: NE (2)

Abies balsamea (L.) Mill., balsam fir

Hormodendrum sp.: wood stain

Disease Rating: 4

Loc.: NW (1), NE (2), AL (1)

Hypoderella sp.: needle cast

Disease Rating: 3

Loc.: NW (1), N (1), NE (1)

Inonotus tomentosus (Fr.) Teng: tomentosus root rot

Syn.: *Polyporus tomentosus* Fr.

Disease Rating: 1

Loc.: NW (1), NC (1), NE (3)

Isthmiella sp.: isthmiella needle cast

Syn.: *Bifusella* sp.

Disease Rating: 3

Loc.: NW (2), NC (2)

Isthmiella faullii (Darker) Darker: isthmiella needle cast

Syn.: *Bifusella faullii* Darker

Disease Rating: 3

Loc.: NW (12), NC (6), N (3), NE (4), AL (1)

Lachnellula agassizii (Berk. & M.A. Curtis) Dennis: lachnellula dieback

Syn.: *Dasyscyphus agassizii* (Berk. & M.A. Curtis) Sacc.

Syn.: *Lachnella agassizii* (Berk. & M.A. Curtis) Seaver

Disease Rating: 3

Loc.: NC (1), N (1), SW (1)

Leptosphaeria faullii Darker: needle cast attacker²

Anamorph: *Coniothyrium faullii* Darker

Disease Rating: 4

Loc.: NW (1), NC (1)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: AL (1), C (1)

Lirula mirabilis (Darker) Darker: lirula needle cast of balsam

Syn.: *Hypoderella mirabilis* Darker

Disease Rating: 3

Loc.: NW (3), NC (10), N (3)

Lirula nervata (Darker) Darker: lirula needle cast of balsam

Syn.: *Hypoderella nervata* Darker

Disease Rating: 3

Loc.: NC (7), N (4), NE (1), AL (2)

² This fungus colonizes ascocarps of needle cast fungi, on which it is assumed to be parasitic.

Abies balsamea (L.) Mill., balsam fir

Lophodermium sp.: needle cast

Disease Rating: 3

Loc.: NW (1), NC (2), N (1)

Lophodermium lacerum Darker: balsam needle cast

Disease Rating: 3

Loc.: NE (1)

Macrophoma sp.: needle blight

Disease Rating: 3

Loc.: NC (1)

Melampsora sp.: needle rust

Disease Rating: 3

Loc.: NC (2)

Melampsora abieti-capraearum Tubeuf: fir willow rust

Disease Rating: 3

Loc.: N (1), E (3)

Melampsorella caryophyllacearum Schröter: fir broom rust

Syn.: *Melampsorella cerastii* (Pers.) Schröter

Disease Rating: 3

Loc.: NW (25), NC (15), N (25), NE (5), AL (1), E (3)

Menispora sp.: dead bark menispora

Disease Rating: 4

Loc.: NC (1)

Nectria sp.: nectria canker

Disease Rating: 2

Loc.: NE (1)

Nidularia sp.: bird's nest fungus

Disease Rating: 4

Loc.: N (1)

Nothophaeidium abietinellum (Dearn.) J. Reid & Cain: snow blight

Syn.: *Phacidium abietinellum* Dearn.

Disease Rating: 1

Loc.: NC (3)

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Loc.: NE (!)

Phacidium sp.: snow blight

Disease Rating: 1

Loc.: NC (1), NE (1)

Abies balsamea (L.) Mill., balsam fir

Phacidium abietis (Dearn.) J. Reid & Cain: snow blight
Syn.: *Phacidium infestans* P. Karsten var. *abietis* Dearn.
Disease Rating: 1
Loc.: NW (3), NC (8), N (9), NE (5)

Phaeolus schweinitzii (Fr.) Pat.: brown cubical rot
Syn.: *Polyporus schweinitzii* Fr.
Disease Rating: 1
Loc.: N (1), C (1)

Phellinus pini (Brot.:Fr.) A. Ames: red ring rot
Syn.: *Fomes pini* (Brot.:Fr.) P. Karsten
Disease Rating: 1
Loc.: N (1)

Phlebiopsis gigantea (Fr.) Jülich.: peniophora gigantea
Syn.: *Peniophora gigantea* (Fr.) Massee
Disease Rating: 4
Loc.: N (1)

Phoma sp.: needle blight
Disease Rating: 3
Loc.: NW (1), NE (1)

Phyllosticta sp.: shoot blight
Syn.: *Phyllostictina* sp.
Disease Rating: 3
Loc.: NW (4), AL (1), C (1)

Pucciniastrum sp.: needle rust
Disease Rating: 2
Loc.: NW (5), NC (7), N (3), SW (1)

Pucciniastrum epilobii Otth: fir-fireweed rust
Disease Rating: 3
Loc.: NW (44), NC (32), N (46), NE (5), AL (5), SW (3)

Pucciniastrum goeppertianum (Kühn) Kleb.: fir-witch's broom rust of blueberry
Disease Rating: 3
Loc.: NC (5), AL (1)

Resinicium bicolor (Alb. & Schwein.:Fr.) Parm.: white stringy rot
Syn.: *Odontia bicolor* (Alb. & Schwein:Fr.) Quélet
Disease Rating: 3
Loc.: NE (2), AL (1), SW (1)

Rhinocladiella sp.: chip pile fungus
Disease Rating: 4
Loc.: NW (1)

Abies balsamea (L.) Mill., balsam fir

Rhizocalyx abietis Petrak: needle blight

Anamorph: *Rhizothyrium abietis* Naumov

Disease Rating: 3

Loc.: N (1), NE (1)

Rhizosphaera pini (Corda) Maubl.: needle blight

Syn.: *Coniothyrium pini* Corda

Disease Rating: 2

Loc.: NW (1), NC (8), N (14), NE (4), AL (1), C (1)

Sarcotrochila balsameae (J. Davis) Korf: snow blight

Syn.: *Phacidium balsameae* J. Davis

Anamorph: *Kabatiella balsameæ* (J. Davis) v. Arx

Disease Rating: 1

Loc.: NC (7), N (3)

Scoleconectria cucurbitula (Tode:Fr.) C. Booth: canker and dieback

Syn.: *Ophionectria cylindrospora* (Sollman) Berl. & Vogl.

Anamorph: *Zythiostroma pinastri* (P. Karsten) Höhnel

Disease Rating: 2

Loc.: N (2), E (1), C (1), NC (1)

Scytinostroma galactinum (Fr.) Donk: yellow stringy rot

Syn.: *Corticium galactinum* (Fr.) Burt

Disease Rating: 2

Loc.: NC (2), E (1)

Skeletocutis nivea (Junghuhn) Keller: straw-colored decay fungus

Syn.: *Polyporus niveus* Junghuhn

Syn.: *Polyporus semipileatus* Peck

Disease Rating: 4

Loc.: N (1), AL (1)

Stemphylium sp.: dead bark colonizer

Disease Rating: 4

Loc.: NE (1)

Sydowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnel

Disease Rating: 3

Loc.: NE (1)

Thyronectria balsamea (Cooke & Peck) Seeler: balsam fir canker

Disease Rating: 2

Loc.: NC (1), N (6), NE (1), AL (2)

Tryblidiopsis pinastri (Pers.:Fr.) P. Karsten: branch canker

Anamorph: *Tryblidiopycnis pinastri* Höhnel

Disease Rating: 3

Loc.: NC (1)

Abies balsamea (L.) Mill., balsam fir

Tymanipis truncatula (Pers.:Fr.) Rehm: tymanipis dieback

Syn.: *Tymanipis pinastri* Tul.

Disease Rating: 3

Loc.: NE (1)

Uredinopsis sp.: balsam fir-fern rust

Disease Rating: 3

Loc.: NC (1), N (2), NE (2), E (2), SW (1)

Valsa sp.: cytospora canker

Disease Rating: 3

Loc.: AL (1)

Valsa abietis Fr.: cytospora canker

Anamorph: *Cytospora abietis* Sacc.

Disease Rating: 3

Loc.: NW (1), NC (1), N (2), SW (1), AL (2)

Valsa friesii (Duby) Fuckel: needle blight

Anamorph: *Cytospora friesii* Sacc.

Syn.: *Cytospora dubyi* Sacc.

Syn.: *Cytospora pinastri* Fr.

Disease Rating: 3

Loc.: NW (4), NC (2), N (4), NE (2), AL (1), E (3), C (1)

Valsa pini Alb. & Schwein:Fr.: cytospora canker

Disease Rating: 3

Loc.: AL (1)

Verticillium sp.: seedling root rot

Disease Rating: 2

Loc.: NW (1), N (1), NE (4), AL (2), SW (1)

Abies lasiocarpa (Hook.) Nutt., alpine fir

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: NW (1)

Juniperus spp., juniper

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: NE (1)

Gymnosporangium sp.: juniper rust

Disease Rating: 3

Loc.: SW (1)

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck: quince rust

Disease Rating: 2

Loc.: NE (1), SW (3)

Gymnosporangium globosum Farlow: globose gall rust

Syn.: *Roestelia lacerata* Tul.

Disease Rating: 3

Loc.: C (6)

Gymnosporangium juniperi-virginianae Schwein.: cedar-apple rust

Disease Rating: 2

Loc.: SW (1)

Gymnosporangium nelsonii Arthur: Nelson's juniper rust

Syn.: *Gymnosporangium corniculans* Kern

Disease Rating: 3

Loc.: SW (1)

Kabatina thujae A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx)

Morelet: kabatina needle blight

Disease Rating: 1

Loc.: NE (1), C (1)

Lophodermium juniperinum (Fr.) de Not.: juniper needle cast

Syn.: *Lophodermium juniperi* (Grev.) Darker

Disease Rating: 3

Loc.: AL (2), E (1), C (2)

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Loc.: C (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: C (1)

Juniperus communis L., common juniper

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck: quince rust

Disease Rating: 2

Loc.: NE (1), SW (1)

Stigmina juniperina (Georgescu & Badea) M.B. Ellis: juniper blight

Syn.: *Cercospora juniperina* Georgescu & Badea

Disease Rating: 2

Loc.: AL (1), SW (1)

Juniperus communis var. *depressa* Pursh, ground juniper

Gymnosporangium clavariiforme (Pers.) DC.: clavariform juniper rust

Disease Rating: 2

Loc.: NW (1)

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck: quince rust

Disease Rating: 2

Loc.: E (1)

Lophodermium juniperinum (Fr.) de Not.: juniper needle cast

Syn.: *Lophodermium juniperi* (Grev.) Darker

Disease Rating: 3

Loc.: AL (2), C (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: NW (1)

Juniperus horizontalis Moench, creeping juniper

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck: quince rust

Disease Rating: 2

Loc.: NC (1)

Lophodermium juniperinum (Fr.) de Not.: juniper needle cast

Syn.: *Lophodermium juniperi* (Grev.) Darker

Disease Rating: 3

Loc.: E (1)

Phomopsis juniperovora Hahn: phomopsis blight

Disease Rating: 2

Loc.: SW (1)

Juniperus virginiana L., eastern red cedar

Aplosporella sp.: needle blight

Alternate Spelling: *Haplosporella* sp.

Disease Rating: 4

Loc.: E (1)

Coniothyrium sp.: conifer coniothyrium

Disease Rating: 3

Loc.: E (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: E (7), SW (1)

Didymascella thujina (E. Durand) Maire: keithia needle blight

Syn.: *Keithia thujina* E. Durand

Disease Rating: 2

Loc.: E (1)

Diplodia sp.: diplodia canker

Disease Rating: 2

Loc.: E (1)

Fusicoccum sp.: needle blight

Disease Rating: 3

Loc.: AL (1)

Gelatinosporium sp.: stem canker

Syn.: *Micropora* sp.

Disease Rating: 3

Loc.: E (1)

Gymnosporangium sp.: juniper rust

Disease Rating: 3

Loc.: E (1)

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck: quince rust

Disease Rating: 2

Loc.: E (5), SW (4)

Gymnosporangium globosum Farlow: globose gall rust

Syn.: *Roestelia lacerata* Tul.

Disease Rating: 3

Loc.: E (4), C (3), SW (5)

Gymnosporangium juniperi-virginianae Schwein.: cedar-apple rust

Disease Rating: 2

Loc.: E (11), SW (7)

Hainesia sp.: dead bark colonizer

Disease Rating: 4

Loc.: AL (1)

Juniperus virginiana L., eastern red cedar

Hendersonia sp.: needle blight

Disease Rating: 3

Loc.: E (1)

Heterobasidion annosum (Fr.) Bref.: fomes root rot

Syn.: *Fomes annosus* (Fr.) P. Karsten

Anamorph: *Spiniger meineckellus* (A. Olson) Stalpers

Disease Rating: 1

Loc.: SW (1)

Hormodendrum sp.: wood stain

Disease Rating: 4

Loc.: E (3), C (1)

Kabatina thujae A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx)

Morelet: kabatina needle blight

Disease Rating: 1

Loc.: NE (1), E (2), C (1), AL (2)

Libertia sp.: juniper libertella

Disease Rating: 3

Loc.: E (1)

Lophodermium juniperinum (Fr.) de Not.: juniper needle cast

Syn.: *Lophodermium juniperi* (Grev.) Darker

Disease Rating: 3

Loc.: AL (1), E (2), C (1)

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Loc.: SW (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: AL (1), E (1)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Loc.: E (3)

Phomopsis juniperovora Hahn: phomopsis blight

Disease Rating: 2

Loc.: E (1)

Sydiowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pithiophilum* (Corda) Höhnle

Disease Rating: 3

Loc.: E (2), C (1)

Valsa sp.: cytospora canker

Disease Rating: 3

Loc.: E (1)

Larix spp., larch

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: E (1)

Hormiscium sp.: hormiscium

Disease Rating: 4

Loc.: N (1)

Hormodendrum sp.: wood stain

Disease Rating: 4

Loc.: SW (1)

Hypoderella laricis Tubeuf: larch needle cast

Disease Rating: 3

Loc.: NW (2), C (1), SW (1)

Melampsora sp.: needle rust

Disease Rating: 3

Loc.: NC (1), E (1)

Melampsora paradoxo Dietel & Holway: larch-willow rust

Syn.: *Melampsora bigelowii* Thüm.

Disease Rating: 3

Loc.: NE (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: SW (1)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Loc.: SW (1)

Valsa abietis Fr.: cytospora canker

Anamorph: *Cytospora abietis* Sacc.

Disease Rating: 3

Loc.: NC (1), AL (1)

Larix decidua Mill., European larch

Armillaria mellea (Vahl:Fr.) Kummer³: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: NW (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: C (2), SW (2)

Epicoccum purpurascens Ehrenb. ex Schlecht.: epicoccum

Syn.: *Epicoccum nigrum* Link

Disease Rating: 4

Loc.: SW (1)

Fomitopsis pinicola (Swartz:Fr.) P. Karsten: brown crumbly rot

Syn.: *Fomes pinicola* (Swartz:Fr.) Cooke

Syn.: *Polyporus pinicola* Swartz:Fr.

Disease Rating: 2

Loc.: AL (1)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: C (1)

Melampsora sp.: needle rust

Disease Rating: 3

Loc.: C (1)

Meria laricis Vuill.: larch needle cast

Disease Rating: 2

Loc.: E (1), C (2), SW (8)

Phellinus pini (Brot.:Fr.) A. Ames: red ring rot

Syn.: *Fomes pini* (Brot.:Fr.) P. Karsten

Disease Rating: 1

Loc.: C (1)

Scoleconectria cucurbitula (Tode:Fr.) C. Booth: orange canker fungus

Syn.: *Ophionectria cylindrospora* (Sollman) Berl. & Vogl.

Anamorph: *Zythiostroma pinastri* (P. Karsten) Höhnel

Disease Rating: 2

Loc.: C (1)

³ Recent research has indicated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Larix decidua Mill., European larch

Sphaeropsis sp.: diplodia canker

Disease Rating: 2

Loc.: SW (1)

Valsa abietis Fr.: cytospora canker

Anamorph: *Cytospora abietis* Sacc.

Disease Rating: 3

Loc.: C (1)

Larix laricina (Du Roi) K. Koch, tamarack

Armillaria mellea (Vahl:Fr.) Kummer⁴: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: NC (1), AL (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: NC (2), N (2), E (1), SW (1)

Fusicoccum sp.: needle blight

Disease Rating: 3

Loc.: SW (1)

Lachnellula sp.: lachnellula dieback

Disease Rating: 2

Loc.: N (1), NE (1)

Lachnellula occidentalis (Hahn & Ayers) Dharne: lachnellula dieback

Syn.: *Dasyscyphus occidentalis* Hahn & Ayers

Syn.: *Lachnella hahniana* (Seaver) Dennis

Syn.: *Lachnella occidentalis* (Hahn & Ayers) Seaver

Disease Rating: 3

Loc.: N (1)

Melampsora sp.: needle rust

Disease Rating: 3

Loc.: NW (2), NC (3), N (17), NE (2), AL (3), E (2)

Melampsora medusae Thüm.: conifer-aspen rust

Disease Rating: 3

Loc.: NE (1), AL (4), E (1), C (2), SW (1)

Melampsora paradoxae Dietel & Holway: larch-willow rust

Syn.: *Melampsora bigelowii* Thüm.

Disease Rating: 3

Loc.: N (1), NE (7), AL (1)

Meria laricis Vuill.: larch needle cast

Disease Rating: 2

Loc.: E (1)

Mytilidion sp.: clam shell fungus

Disease Rating: 4

Loc.: E (1)

⁴ Recent research has demonstrated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Larix laricina (Du Roi) K. Koch, tamarack

Nectria sp.: nectria canker

Disease Rating: 2

Loc.: NC (1)

Phacidium sp.: snow blight

Disease Rating: 1

Loc.: SW (1)

Phellinus pini (Brot.:Fr.) A. Ames: red ring rot

Syn.: *Fomes pini* (Brot.:Fr.) P. Karsten

Disease Rating: 1

Loc.: E (1)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Loc.: NW (1)

Valsa abietis Fr.: cytospora canker

Anamorph: *Cytospora abietis* Sacc.

Disease Rating: 3

Loc.: SW (1), AL (1)

Picea spp., spruce

Chrysomyxa ledi (Alb. & Schwein.) de Bary: spruce needle rust⁵

Disease Rating: 2

Loc.: NC (1), N (3)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: NC (1)

Lophodermium piceae (Fuckel) Höhnle: spruce needle cast

Disease Rating: 3

Loc.: NC (1)

Rhizosphaera kalkhoffii Bubák: needle blight

Disease Rating: 2

Loc.: SW (1)

⁵ No variety had been determined for any of the collections listed.

Picea abies (L.) Karst., Norway spruce

Coniothyrium sp.: conifer coniothyrium

Disease Rating: 3

Loc.: SW (1)

Dinemasprium sp.: dendrophoma

Disease Rating: 4

Loc.: SW (1)

Gloeophyllum trabeum (Pers.:Fr.) Murrill: brown cubical rot

Syn.: *Daedalea trabea* Fr.

Syn.: *Lenzites trabea* Pers.:Fr.

Disease Rating: 4

Loc.: SW (1)

Inonotus tomentosus (Fr.) Teng: tomentosus root rot

Syn.: *Polyporus tomentosus* Fr.

Disease Rating: 1

Loc.: SW (1)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: AL (1), E (2), C (2), SW (1)

Phaeolus schweinitzii (Fr.) Pat.: brown cubical rot

Syn.: *Polyporus schweinitzii* Fr.

Disease Rating: 1

Loc.: E (1)

Rhizosphaera kalkhoffii Bubák: needle blight

Disease Rating: 2

Loc.: C (1)

Schizophyllum commune Vaill.:Fr.: common split gill

Disease Rating: 4

Loc.: C (1)

Picea glauca (Moench) Voss, white spruce

Antrodia variiformis (Peck) Donk: brown trunk rot

Syn.: *Coriolellus variiformis* (Peck) Sarkar

Syn.: *Polyporus variiformis* Peck

Syn.: *Trametes variiformis* Peck

Disease Rating: 3

Loc.: NE (1)

Arceuthobium pusillum Peck⁶: eastern dwarf mistletoe

Disease Rating: 1

Loc.: NW (1), N (1), NE (1), E (3), SW (8)

Armillaria mellea (Vahl:Fr.) Kummer⁷: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: NW (6), NC (19), N (13), NE (3), AL (3), C (3), SW (1)

Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard: scleroderris canker

Syn.: *Gremmeniella abietina* (Lagerb.) Morelet

Syn.: *Scleroderris lagerbergii* Gremmen

Anamorph: *Brunchorstia pinea* (P. Karsten) Höhnel

Disease Rating: 1

Loc.: N (1)

Ascocoryne sarcoides (Jacq.:Fr.) J.W. Groves & D. Wilson: pink stain

Syn.: *Coryne sarcoides* (Jacq.:Fr.) Tul.

Disease Rating: 3

Loc.: NW (1), NC (4), NE (5), AL (1), C (1)

Biatorella resiniae (Fr.) Mudd: resin cup fungus

Syn.: *Tromera resiniae* (Fr.) Körber

Anamorph: *Zythia resiniae* (Ehrenb.:Fr.) P. Karsten

Syn.: *PycnidIELLA resiniae* (Ehrenb.:Fr.) Höhnel

Disease Rating: 4

Loc.: N (1), AL (1), E (1), SW (1)

Bjerkandera adusta (Willd.:Fr.) P. Karsten: scorched conk fungus

Syn.: *Polyporus adustus* Willd.:Fr.

Disease Rating: 4

Loc.: NC (1)

Botryotinia fuckeliana (de Bary) Whetzel: gray mold

Syn.: *Sclerotinia fuckeliana* (de Bary) Fuckel

Anamorph: *Botrytis cinerea* Pers.:Fr.

Disease Rating: 1

Loc.: N (1)

⁶ *A. pusillum* is a parasitic phanerogam, not a fungus.

⁷ Recent research has demonstrated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Picea glauca (Moench) Voss, white spruce

Cenangium acuum Cooke & Peck: twig blight
Disease Rating: 4
Loc.: NE (1)

Cephalosporium sp.: cephalosporium wilt
Disease Rating: 4
Loc.: NE (2)

Chaetomium globosum Kunze: Fr.: olive-green mold
Disease Rating: 4
Loc.: NE (1)

Chloridium sp.: green stain
Disease Rating: 4
Loc.: NC (1)

Chlorociboria sp.: blue-green stain
Disease Rating: 4
Loc.: NC (1)

Chlorociboria aeruginascens (Nyl.) Kanouse ex Ramam., Korf & Batra: blue-green stain
Anamorph: *Dothiorina tulasnei* (Sacc.) Höhnel
Disease Rating: 4
Loc.: NE (2)

Chrysomyxa arctostaphyli Dietel: spruce broom rust
Disease Rating: 2
Loc.: NW (2), NC (5), NE (4)

Chrysomyxa ledi (Alb. & Schwein.) de Bary: spruce needle rust⁸
Disease Rating: 2
Loc.: NW (25), NC (17), N (23), NE (13), AL (5), E (2), C (2)

Chrysomyxa ledi (Alb. & Schwein.) de Bary var *ledi*: small-spored spruce-Labrador tea rust
Syn.: *Chrysomyxa ledi* (Alb. & Schwein.) de Bary var. *groenlandici* Savile
Disease Rating: 2
Loc.: NW (3), N (10), NE (1)

Chrysomyxa ledicola (Peck) Lagerh.: large-spored spruce-Labrador tea rust
Disease Rating: 2
Loc.: NW (19), NC (29), N (40), NE (24), AL (1)

Chrysomyxa pirolata (Körn.) Winter: spruce cone rust
Syn.: *Chrysomyxa pyrolae* (DC.) Rostrup
Disease Rating: 2
Loc.: NW (3), NC (20), N (6), NE (7), AL (7), E (2), C (3)

Chrysomyxa weiri H. Jackson: Weir's spruce-cushion rust
Disease Rating: 2
Loc.: E (2)

⁸ No variety had been determined for any of the collections listed.

Picea glauca (Moench) Voss, white spruce

Cladosporium sp.: needle spot

Disease Rating: 3

Loc.: NW (1), NE (2)

Climacocystis borealis (Fr.) Kotl. & Pouzar: white mottled rot

Syn.: *Polyporus borealis* Fr.

Syn.: *Tyromyces borealis* (Fr.) Imaz.

Disease Rating: 2

Loc.: NE (1)

Coniophora puteana (Schumacher:Fr.) P. Karsten: brown cubical rot

Disease Rating: 2

Loc.: NE (3), AL (1)

Coniothyrium sp.: conifer coniothyrium

Disease Rating: 3

Loc.: E (1)

Conocybe tenera (Schäffer:Fr.) Fayod: brown dunce cap

Disease Rating: 4

Loc.: NE (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: NE (3), E (1), C (1), SW (3)

Dermea sp.: dermea canker

Disease Rating: 3

Loc.: NE (1)

Dichomitus squalens (P. Karsten) Reid: red ray rot

Syn.: *Polyporus anceps* Peck

Disease Rating: 2

Loc.: N (1), C (1)

Dinemasporium sp.: dendrophoma

Disease Rating: 4

Loc.: C (1), SW (1)

Epicoccum sp.: epicoccum

Disease Rating: 4

Loc.: NE (1)

Fomitopsis cajanderi (P. Karsten) Kotl. & Pouzar: pink-colored conk

Syn.: *Fomes cajanderi* P. Karsten

Syn.: *Fomes subroseus* (Weir) Overh.

Syn.: *Trametes subrosea* Weir

Disease Rating: 3

Loc.: AL (1), E (1)

Picea glauca (Moench) Voss, white spruce

Fomitopsis pinicola (Swartz:Fr.) P. Karsten: brown crumbly rot

Syn.: *Fomes pinicola* (Swartz:Fr.) Cooke

Syn.: *Polyporus pinicola* Swartz:Fr.

Disease Rating: 2

Loc.: NC (1), N (3), NE (2), AL (1), E (1), SW (1)

Ganoderma applanatum (Pers.) Pat.: artist's conk

Syn.: *Fomes applanatus* (Pers.:Wallr.) C. Gillet

Syn.: *Polyporus applanatus* (Pers.) Wallr.

Disease Rating: 3

Loc.: NW (1)

Gliocladium sp.: gliocladium stain

Disease Rating: 4

Loc.: N (1)

Gliocladium roseum (Link) Bainier: gliocladium stain

Disease Rating: 4

Loc.: NW (1), NC (3), N (1), NE (4)

Gloeophyllum saeparium (Wulff:Fr.) P. Karsten: brown cubical rot

Syn.: *Daedalea saeparia* Wulff:Fr.

Syn.: *Lenzites saeparia* (Wulff:Fr.) Fr.

Disease Rating: 4

Loc.: N (4)

Haematostereum sanguinolentum (Alb. & Schwein.:Fr.) Pouzar: red heart rot

Syn.: *Stereum sanguinolentum* (Alb. & Schwein.:Fr.) Fr.

Disease Rating: 2

Loc.: NW (1), NE (1), AL (1), E (1)

Heterobasidion annosum (Fr.) Bref.: fomes root rot

Syn.: *Fomes annosus* (Fr.) P. Karsten

Anamorph: *Spiniger meineckellus* (A. Olson) Stalpers

Disease Rating: 1

Loc.: SW (2)

Hormiscium sp.: hormiscium

Disease Rating: 4

Loc.: NE (1)

Hormodendrum sp.: wood stain

Disease Rating: 4

Loc.: N (2), NE (2), AL (1), SW (1)

Hydnellum sp.: hydnellum

Disease Rating: 4

Loc.: N (1)

Picea glauca (Moench) Voss, white spruce

Inonotus circinatus (Fr.) Gilbertson: circinatus root rot

Syn.: *Polyporus circinatus* Fr.

Disease Rating: 1

Loc.: C (1)

Inonotus tomentosus (Fr.) Teng: tomentosus root rot

Syn.: *Polyporus tomentosus* Fr.

Disease Rating: 1

Loc.: NW (1), NC (5), N (1), NE (8), AL (7), E (2), C (2), SW (2)

Isthmiella crepidiformis (Darker) Darker: isthmiella needle cast

Syn.: *Bifusella crepidiformis* Darker

Disease Rating: 3

Loc.: NW (1), NC (1), N (1), C (1)

Leptosphaeria sp.: leptosphaeria needle saprophyte

Disease Rating: 4

Loc.: NC (1)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: NE (1), AL (3), E (7), C (10), SW (4)

Lirula macrospora (Hartig) Darker: lirula needle cast of spruce

Syn.: *Lophodermium filiforme* Darker

Syn.: *Lophodermium macrosporum* (Hartig) Rehm

Anamorph: *Hypodermina hartigii* Hiltizer

Disease Rating: 3

Loc.: NW (1), AL (1), C (1), SW (1)

Lophium sp.: mussel shell fungus

Disease Rating: 4

Loc.: C (1)

Lophium mytilinum (Pers.) Fr.: mussel shell fungus

Disease Rating: 4

Loc.: N (1)

Lophodermium piceae (Fuckel) Höhnle: spruce needle cast

Disease Rating: 3

Loc.: NC (1), N (1), NE (1), AL (1), E (1)

Lophomerum darkeri Ouellette: needle cast competitor

Disease Rating: 4

Loc.: NC (1)

Picea glauca (Moench) Voss, white spruce

Lophophacidium hyperboreum Lagerb.: snow blight

Disease Rating: 1

Loc.: AL (1)

Melanconium sp.: branch canker

Disease Rating: 4

Loc.: C (1)

Menispora sp.: dead bark menispora

Disease Rating: 4

Loc.: AL (1)

Micraspis acicola Darker: needle blight

Anamorph: *Periperidium acicola* Darker

Disease Rating: 2

Loc.: N (1)

Nectria sp.: nectria canker

Disease Rating: 2

Loc.: NC (1)

Oligoporus guttulatus (Peck) Gilbertson & Ryv.: brown cubical rot

Syn.: *Polyporus guttulatus* (Peck)

Syn.: *Tyromyces guttulatus* (Peck) Murrill

Syn.: *Tyromyces substipitatus* Murrill

Disease Rating: 3

Loc.: AL (1)

Oligoporus sericeomollis (Romell) Pouzar: brown cubical rot

Syn.: *Polyporus sericeomollis* Romell

Syn.: *Poria sericeomollis* (Romell) Egel.

Syn.: *Tyromyces sericeomollis* (Romell) Bondartsev & Singer

Disease Rating: 3

Loc.: NE (1)

Peniophora pithya (Pers.) John Eriksson: peniophora

Disease Rating: 4

Loc.: NE (1)

Peziza sylvestris (Boud.) Sacc. & A. Trotter: cup fungus

Disease Rating: 4

Loc.: AL (1)

Phaeolus schweinitzii (Fr.) Pat.: brown cubical rot

Syn.: *Polyporus schweinitzii* Fr.

Disease Rating: 1

Loc.: NC (2), NE (5), AL (5), C (1)

Picea glauca (Moench) Voss, white spruce

Phellinus pini (Brot.:Fr.) A. Ames: red ring rot

Syn.: *Fomes pini* (Brot.:Fr.) P. Karsten

Disease Rating: 1

Loc.: N (4), C (1), NC (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: NW (1)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Loc.: NW (1), SW (2)

Poria subacida (Peck) Sacc.: white stringy rot

Disease Rating: 3

Loc.: N (1)

Pucciniastrum sp.: needle rust

Disease Rating: 2

Loc.: N (2), NE (3), E (2)

Pucciniastrum americanum (Farlow) Arthur: American spruce-raspberry rust

Disease Rating: 3

Loc.: N (1), AL (2)

Resinicium bicolor (Alb. & Schwein.:Fr.) Parm.: white stringy rot

Syn.: *Odontia bicolor* (Alb. & Schwein.:Fr.) Quélet

Disease Rating: 3

Loc.: E (1), SW (1)

Rhinocladiella sp.: chip pile fungus

Disease Rating: 4

Loc.: NE (2), AL (1)

Rhizosphaera kalkhoffii Bubák: needle blight

Disease Rating: 2

Loc.: NC (1), NE (1), AL (1), E (3), C (4), SW (3)

Sarcotrichila piniperda (Rehm) Korf: snow blight

Syn.: *Phacidium expansum* J. Davis

Disease Rating: 1

Loc.: NC (2), AL (1)

Schizophyllum commune Vaill.:Fr.: common split gill

Disease Rating: 4

Loc.: NE (1)

Picea glauca (Moench) Voss, white spruce

Scytonostroma galactinum (Fr.) Donk: yellow stringy rot

Syn.: *Corticium galactinum* (Fr.) Burt

Disease Rating: 2

Loc.: N (1)

Sydiowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnel

Disease Rating: 3

Loc.: NW (1), NE (1)

Thelephora terrestris Ehrh.:Fr.: smothering disease

Disease Rating: 4M

Loc.: NW (1), N (1), E (1), SW (1)

Trametes hirsuta (Wulfen:Fr.) Pilát: the hairy conk

Syn.: *Coriolus hirsutus* (Wulfen:Fr.) Quélet

Syn.: *Polyporus hirsutus* Wulfen Fr.

Disease Rating: 3

Loc.: NE (1)

Trichaptum abietinum (Dickson:Fr.) Ryv.: pitted sap rot

Syn.: *Polyporus abietinus* Dickson:Fr.

Disease Rating: 4

Loc.: N (1)

Tryblidiopsis pinastri (Pers.:Fr.) P. Karsten: branch canker

Anamorph: *Tryblidiopycnis pinastri* Höhnlel

Disease Rating: 3

Loc.: NE (1), E (1)

Tympinis sp.: tympanis canker

Disease Rating: 3

Loc.: NC (1), NE (1), AL (1)

Valsa sp.: cytospora canker

Disease Rating: 3

Loc.: C (1)

Verticillium sp.: seedling root rot

Disease Rating: 2

Loc.: NW (1), NC (1), N (1), NE (1), AL (1)

Picea mariana (Mill.) B.S.P., black spruce

Arceuthobium pusillum Peck⁹: eastern dwarf mistetoe

Disease Rating: 1

Loc.: NW (10), NC (14), N (21), NE (12), AL (4), C (2)

Armillaria mellea (Vahl:Fr.) Kummer¹⁰: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: NW (20), NC (28), N (18), NE (6), AL (3)

Ascocoryne sarcoides (Jacq.:Fr.) J.W. Groves & D. Wilson: pink stain

Syn.: *Coryne sarcoides* (Jacq.:Fr.) Tul.

Disease Rating: 3

Loc.: NW (7), NC (3), N (6), NE (7), AL (2)

Asterodon ferruginosus Pat.: white rot

Disease Rating: 3

Loc.: NE (1)

Bjerkandera adusta (Willd.:Fr.) P. Karsten: scorched conk fungus

Syn.: *Polyporus adustus* Willd.:Fr.

Disease Rating: 4

Loc.: NC (1)

Botryotinia fuckeliana (de Bary) Whetzel: gray mold

Syn.: *Sclerotinia fuckeliana* (de Bary) Fuckel

Anamorph: *Botrytis cinerea* Pers.:Fr.

Disease Rating: 1

Loc.: NE (1)

Cephalosporium sp.: cephalosporium wilt

Disease Rating: 4

Loc.: NC (3), NE (3), AL (2)

Cerrena unicolor (Bull.:Fr.) Murrill: white spongy heart rot

Syn.: *Daedalea unicolor* Bull.:Fr.

Disease Rating: 3

Loc.: AL (1)

Chlorociboria aeruginascens (Nyl.) Kanouse ex Ramam., Korf & Batra: blue-green stain

Anamorph: *Dothiorina tulasnei* (Sacc.) Höhn

Disease Rating: 4

Loc.: NC (1), N (2)

⁹ *A. pusillum* is a parasitic phanerogam, not a fungus.

¹⁰ Recent research has demonstrated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Picea mariana (Mill.) B.S.P., black spruce

Chrysomyxa arctostaphyli Dietel: spruce broom rust

Disease Rating: 2

Loc.: NW (8), NC (26), N (22), NE (16)

Chrysomyxa ledi (Alb. & Schwein.) de Bary: spruce needle rust

Disease Rating: 2

Loc.: NW (87), NC (42), N (59), NE (27), AL (5)

Chrysomyxa ledi (Alb. & Schwein.) de Bary var. *ledi*: small-spored spruce-Labrador-tea rust

Syn.: *Chrysomyxa ledi* (Alb. & Schwein.) de Bary var. *groenlandici* Savile

Disease Rating: 2

Loc.: NW (1), NC (4), N (9)

Chrysomyxa ledicola (Peck) Lagerh.: large-spored spruce-Labrador tea rust

Disease Rating: 2

Loc.: NW (61), NC (46), N (71), NE (38), AL (2)

Chrysomyxa pirolata (Körn.) Winter: spruce cone rust

Syn.: *Chrysomyxa pyrolae* (DC.) Rostrup

Disease Rating: 2

Loc.: NW (3), NC (9), N (3), NE (2)

Cladosporium sp.: needle spot

Disease Rating: 3

Loc.: NW (1), N (1)

Cladosporium aecidiicola Thüm.¹¹: needle rust parasite

Disease Rating: not applicable

Loc.: NW (1)

Climacocystis borealis (Fr.) Kotl. & Pouzar: white mottled rot

Syn.: *Polyporus borealis* Fr.

Syn.: *Tyromyces borealis* (Fr.) Imaz.

Disease Rating: 2

Loc.: NC (1), NE (1)

Coniophora puteana (Schumacher:Fr.) P. Karsten: brown cubical rot

Disease Rating: 2

Loc.: NW (1), NE (2)

Coniothyrium sp.: conifer coniothyrium

Disease Rating: 3

Loc.: NW (1), NC (1), C (1)

Cordana pauciseptata Preuss: blue stain

Disease Rating: 4

Loc.: N (1)

¹¹ This fungus colonizes rust pustules and is assumed to be a parasite of the rust.

Picea mariana (Mill.) B.S.P., black spruce

Cryptoporus volvatus (Peck) Shear: pouch fungus

Syn.: *Polyporus volvatus* Peck

Disease Rating: 4

Loc.: NC (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: N (1)

Fomitopsis pinicola (Swartz:Fr.) P. Karsten: brown crumbly rot

Syn.: *Fomes pinicola* (Swartz:Fr.) Cooke

Syn.: *Polyporus pinicola* Swartz:Fr.

Disease Rating: 2

Loc.: NC (1), N (3), NE (4)

Fomitopsis rosea (Alb. & Schwein.:Fr.) P. Karsten: rose-colored conk

Syn.: *Fomes roseus* (Alb. & Schwein.:Fr.) P. Karsten

Syn.: *Polyporus roseus* Alb. & Schwein.:Fr.

Disease Rating: 3

Loc.: NW (1)

Ganoderma applanatum (Pers.) Pat.: artist's conk

Syn.: *Fomes applanatus* (Pers.:Wallr.) C. Gillet

Syn.: *Polyporus applanatus* (Pers.) Wallr.

Disease Rating: 3

Loc.: NE (1)

Ganoderma lucidum (W. Curtis:Fr.) P. Karsten: varnished conk

Syn.: *Polyporus lucidus* W. Curtis:Fr.

Disease Rating: 3

Loc.: N (1)

Gliocladium sp.: gliocladium stain

Disease Rating: 4

Loc.: NC (1), NE (1)

Gliocladium roseum (Link) Bainier: gliocladium stain

Disease Rating: 4

Loc.: NW (2), NC (2), N (3), NE (2), AL (1)

Gloeophyllum protractum (Fr.) Imaz.: brown cubical rot

Syn.: *Trametes protracta* Fr.

Disease Rating: 4

Loc.: NE (2)

Gloeophyllum saepiarium (Wulfen:Fr.) P. Karsten: brown cubical rot

Syn.: *Daedalea saeparia* Wulfen:Fr.

Syn.: *Lenzites saeparia* (Wulfen:Fr.) Fr.

Disease Rating: 4

Loc.: NC (2), N (1)

Picea mariana (Mill.) B.S.P., black spruce

Haematostereum sanguinolentum (Alb. & Schwein.:Fr.) Pouzar: red heart rot

Syn.: *Stereum sanguinolentum* (Alb. & Schwein.:Fr.) Fr.

Disease Rating: 2

Loc.: NW (1)

Hendersonia sp.: needle blight

Disease Rating: 3

Loc.: NC (1), N (2)

Hormiscium sp.: hormiscium

Disease Rating: 4

Loc.: NW (1), NC (1), NE (1)

Hormodendrum sp.: wood stain

Disease Rating: 4

Loc.: NW (1), NC (2), N (1), NE (1), C (1)

Hymenochaete corrugata (Fr.:Fr.) Lév.: toothed crust fungus

Disease Rating: 4

Loc.: NW (1)

Inonotus circinatus (Fr.) Gilbertson: circinatus root rot

Syn.: *Polyporus circinatus* Fr.

Disease Rating: 1

Loc.: N (1)

Inonotus tomentosus (Fr.) Teng: tomentosus root rot

Syn.: *Polyporus tomentosus* Fr.

Disease Rating: 1

Loc.: NW (4), NC (8), N (6), NE (9), E (1)

Isthmiella sp.: isthmiella needle cast

Syn.: *Bifusella* sp.

Disease Rating: 3

Loc.: N (1)

Isthmiella crepidiformis (Darker) Darker: isthmiella needle cast

Syn.: *Bifusella crepidiformis* Darker

Disease Rating: 3

Loc.: NW (1), NC (5), N (23), NE (7), AL (3)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: NC (3)

Picea mariana (Mill.) B.S.P., black spruce

Lirula macrospora (Hartig) Darker: lirula needle cast of spruce

Syn.: *Lophodermium filiforme* Darker

Syn.: *Lophodermium macrosporum* (Hartig) Rehm

Anamorph: *Hypodermina hartigii* Hiltizer

Disease Rating: 3

Loc.: NC (2)

Lophtium mytilinum (Pers.) Fr.: mussel shell fungus

Disease Rating: 4

Loc.: NC (2)

Lophodermium sp.: needle cast

Disease Rating: 3

Loc.: NW (1), AL (1)

Lophodermium piceae (Fuckel) Höhnle: spruce needle cast

Disease Rating: 3

Loc.: NC (2), N (2), NE (2), NW (1)

Mycena galericulata (Scop.:Fr.) Gray: common mycena

Disease Rating: 4

Loc.: NC (1)

Oligoporus balsameus (Peck) Gilbertson & Ryv.: brown cubical butt rot

Syn.: *Polyporus balsameus* Peck

Syn.: *Tyromyces balsameus* (Peck) Murrill

Disease Rating: 4

Loc.: N (2)

Oligoporus sericeomollis (Romell) Pouzar: brown cubical rot

Syn.: *Polyporus sericeomollis* Romell

Syn.: *Poria sericeomollis* (Romell) Egel.

Syn.: *Tyromyces sericeomollis* (Romell) Bondartsev & Singer

Disease Rating: 3

Loc.: N (1)

Panus rufus Fr.: ruddy panus

Disease Rating: 4

Loc.: NC (1)

Phaeolus schweinitzii (Fr.) Pat.: brown cubical rot

Syn.: *Polyporus schweinitzii* Fr.

Disease Rating: 1

Loc.: NW (1), N (1), NE (2), AL (1)

Phellinus pini (Brot.:Fr.) A. Ames: red ring rot

Syn.: *Fomes pini* (Brot.:Fr.) P. Karsten

Disease Rating: 1

Loc.: N (2)

Picea mariana (Mill.) B.S.P., black spruce

Phoma sp.: needle blight

Disease Rating: 3

Loc.: NW (2), N (1)

Rhinocladiella sp.: chip pile fungus

Disease Rating: 4

Loc.: N (3)

Rhizina undulata Fr.: tea pot fungus

Syn.: *Rhizina inflata* P. Karsten

Disease Rating: 3

Loc.: NW (2), NC (2), NE (1)

Rhizosphaera kalkhoffii Bubák: needle blight

Disease Rating: 2

Loc.: NC (3), N (1)

Scytinostroma galactinum (Fr.) Donk: yellow stringy rot

Syn.: *Corticium galactinum* (Fr.) Burt

Disease Rating: 2

Loc.: NC (1)

Septonema sp.: bark-inhabiting septonema

Disease Rating: 4

Loc.: NE (1)

Serpula sp.: dry rot fungus

Syn.: *Merulius* sp.

Disease Rating: 3

Loc.: NW (1), N (1)

Serpula himantoides (Fr.) P. Karsten: brown cubical dry rot

Syn.: *Merulius himantoides* Fr.

Disease Rating: 2

Loc.: NW (1)

Serpula lacrimans (Wulff:Fr.) Schröter: dry rot fungus

Syn.: *Merulius lacrimans* Fr.

Disease Rating: 2

Loc.: NW (1)

Sirococcus conigenus (DC.) P. Cannon & Minter: shoot blight

Syn.: *Ascochyta piniperda* Lindau

Syn.: *Discella strobilina* (Desm.) Died.

Syn.: *Sirococcus strobilinus* Preuss

Disease Rating: 2

Loc.: NC (1)

Picea mariana (Mill.) B.S.P., black spruce

Sistotrema brinkmannii (Bresad.) John Eriksson: white stringy rot

Syn.: *Odontia brinkmannii* Bresad.

Syn.: *Trechispora brinkmannii* (Bresad.) Rogers & H. Jackson

Disease Rating: 4

Loc.: NE (1), N (1)

Stemphylium sp.: dead bark colonizer

Disease Rating: 4

Loc.: NC (1)

Sydowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnel

Disease Rating: 3

Loc.: NW (1)

Tremella sp.: jelly fungus

Disease Rating: 4

Loc.: NW (1)

Trichaptum abietinum (Dickson:Fr.) Ryv.: pitted sap rot

Syn.: *Polyporus abietinus* Dickson:Fr.

Disease Rating: 4

Loc.: NW (1), N (1)

Verticicladiella sp.: black root stain

Disease Rating: 1

Loc.: NC (1)

Verticillium sp.: seedling root rot

Disease Rating: 2

Loc.: NC (3), NE (4)

Picea pungens Engelm., blue spruce

Arceuthobium pusillum Peck¹²: dwarf mistletoe

Disease Rating: 1

Loc.: NW (1)

Botryotinia fuckeliana (de Bary) Whetzel: gray mold

Syn.: *Sclerotinia fuckeliana* (de Bary) Fuckel

Anamorph: *Botrytis cinerea* Pers.:Fr.

Disease Rating: 1

Loc.: SW (3)

Chaetomium sp.: chaetomium

Disease Rating: 4

Loc.: SW (1)

Chrysomyxa ledi (Alb. & Schwein.) de Bary¹³: spruce needle rust

Disease Rating: 2

Loc.: NW (1), N (4)

Chrysomyxa ledicola (Peck) Lagerh.: large-spored spruce-Labrador-tea rust

Disease Rating: 2

Loc.: NW (1), N (3)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: C (1)

Epicoccum sp.: epicoccum

Disease Rating: 4

Loc.: SW (1)

Hormiscium sp.: hormiscium

Disease Rating: 4

Loc.: SW (1)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Loc.: NE (1), AL (2), E (5), C (7), SW (6)

Melanomma sp.: spruce twig fungus

Disease Rating: 4

Loc.: SW (1)

¹² *A. pusillum* is a parasitic phanerogam, not a fungus.

¹³ No variety had been determined for any of the collections listed.

Picea pungens Engelm., blue spruce

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Loc.: SW (2)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Loc.: SW (1)

Rhizosphaera kalkhoffii Bubák: needle blight

Disease Rating: 2

Loc.: NE (2), E (1), C (3), SW (7)

Siroccus conigenus (DC.) P. Cannon & Minter: shoot blight

Syn.: *Ascochyta piniperda* Lindau

Syn.: *Discella strobilina* (Desm.) Died.

Syn.: *Siroccus strobilinus* Preuss

Disease Rating: 2

Loc.: SW (8)

Sydowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnle

Disease Rating: 3

Loc.: E (1)

Picea rubens Sarg., red spruce

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: N (1), E (1)

Dichomitus squalens (P. Karsten) Reid: red ray rot

Syn.: *Polyporus anceps* Peck

Disease Rating: 2

Loc.: AL (1)

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Loc.: C (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: AL (1)

Scytilostroma galactinum (Fr.) Donk: yellow stringy rot

Syn.: *Corticium galactinum* (Fr.) Burt

Disease Rating: 2

Loc.: AL (1)

Pseudotsuga spp., Douglas-fir

Armillaria mellea (Vahl:Fr.) Kummer¹⁴: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: C (3)

Lophodermium sp.: needle cast

Disease Rating: 3

Loc.: C (1)

Phaeocryptopus gaeumannii (Rohde) Petrak: Swiss needle cast

Syn.: *Adelopus gaeumannii* Rohde

Disease Rating: 2

Loc.: C (3)

Rhabdocline pseudotsugae Sydow: Douglas-fir needle cast

Disease Rating: 2

Loc.: C (1)

Valsa abietis Fr.: cytospora canker

Anamorph: *Cytospora abietis* Sacc.

Disease Rating: 3

Loc.: SW (1)

¹⁴ Recent research has demonstrated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Pseudotsuga menziesii (Mirb.) Franco, Douglas-fir

Phaeocryptopus gaeumannii (Rohde) Petrak: Swiss needle cast

Syn.: *Adelopus gaeumannii* Rohde

Disease Rating: 2

Loc.: C (1)

Rhabdocline sp.: Douglas-fir needle cast

Disease Rating: 2

Loc.: C (1)

Rhabdocline pseudotsugae Sydow: Douglas-fir needle cast

Disease Rating: 2

Loc.: C (1)

Sphaeropsis sp.: diplodia canker

Disease Rating: 2

Loc.: C (1)

Sydiowia polyspora (Bref. & Tav.) E. Müller: sclerophoma needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnle

Disease Rating: 3

Loc.: N (1)

Taxus spp., yew

Cellulostromium sp.: balsam cytosporium

Syn.: *Cytosporium* sp.

Disease Rating: 4

Loc.: C (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: C (1)

Thuja occidentalis L., eastern white cedar

Armillaria mellea (Vahl:Fr.) Kummer¹⁵: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Loc.: NC (1), NE (1), AL (2), C (3), SW (3)

Ceratocystis sp.: blue stain

Disease Rating: 2

Loc.: SW (1)

Coniophora puteana (Schumacher:Fr.) P. Karsten: brown cubical rot

Disease Rating: 2

Loc.: AL (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: NW (1), NC (1), SW (1)

Cytospora sp.: shoot blight

Disease Rating: 3

Loc.: NE (1)

Didymascella thujina (E. Durand) Maire: keithia needle blight

Syn.: *Keithia thujina* E. Durand

Disease Rating: 2

Loc.: NE (1)

Epicoccum purpurascens Ehrenb. ex Schlecht.: epicoccum

Syn: *Epicoccum nigrum* Link

Disease Rating: 4

Loc.: N (1)

Guignardia philoprina (Berk. & M.A. Curtis) v.d. Aa: cedar needle blight

Anamorph: *Phyllosticta concentrica* Sacc.

Disease Rating: 3

Loc.: C (2)

Hormodendrum sp.: wood stain

Disease Rating: 4

Loc.: AL (1)

Macrophoma sp.: needle blight

Disease Rating: 3

Loc.: N (2)

¹⁵ Recent research has demonstrated that most collections in Ontario identified as *A. mellea* are in fact *A. ostoyae* (Romagn.) Herink.

Thuja occidentalis L., eastern white cedar

Nectria cinnabrina (Tode:Fr.) Fr.: nectria canker

Syn.: *Sphaeria cinnabrina* Tode

Anamorph: *Tubercularia vulgaris* Tode:Fr.

Disease Rating: 2

Loc.: SW (1)

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Loc.: NC (1), NE (1), E (2), C (1), SW (5)

Pestalotiopsis funerea (Desm.) Stey.: needle and shoot blight

Syn.: *Pestalotia funerea* Desm.

Disease Rating: 3

Loc.: E (2), AL (1)

Phaeolus schweinitzii (Fr.) Pat.: brown cubical rot

Syn.: *Polyporus schweinitzii* Fr.

Disease Rating: 1

Loc.: E (1)

Phoma sp.: needle blight

Disease Rating: 3

Loc.: NC (1), N (1), NE (1)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Loc.: AL (2)

Phomopsis juniperovora Hahn: phomopsis blight

Disease Rating: 2

Loc.: NE (1), AL (1)

Poria subacida (Peck) Sacc.: white stringy rot

Disease Rating: 3

Loc.: NE (1)

Resinicium bicolor (Alb. & Schwein.:Fr.) Parm.: white stringy rot

Syn.: *Odontia bicolor* (Alb. & Schwein.:Fr.) Quélet

Disease Rating: 3

Loc.: NE (1)

Sydowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnel

Disease Rating: 3

Loc.: N (1), NE (1)

Truncatella angustata (Pers.) Hughes: needle blight

Syn.: *Truncatella truncata* (Lév.) Stey.

Disease Rating: 4

Loc.: N (1)

Verticillium sp.: seedling root rot

Disease Rating: 2

Loc.: E (1)

Tsuga spp., hemlock

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: C (1), SW (1)

Melampsora abietis-canadensis C.A. Ludwig ex Arthur: hemlock-poplar rust

Disease Rating: 3

Loc.: SW (1)

Tsuga canadensis (L.) Carr., eastern hemlock

Cytospora sp.: cytospora canker

Disease Rating: 3

Loc.: C (1)

Fabrella tsugae (Farlow) Kirschst.: hemlock needle blight

Disease Rating: 3

Loc.: NE (1)

Ganoderma tsugae Murrill: hemlock varnished conk

Syn.: *Polyporus tsugae* (Murrill) Overh.

Disease Rating: 2

Loc.: AL (2), E (1)

Melampsora abietis-canadensis C.A. Ludwig ex Arthur: hemlock-poplar rust

Disease Rating: 3

Loc.: AL (2), E (8), C (3), SW (1)

Melampsora epitea Thüm. f. sp. *tsugae* Ziller: hemlock-willow rust

Disease Rating: 3

Loc.: SW (1)

Pucciniastrum vaccinii (Winter) Jørstad: hemlock-blueberry rust

Disease Rating: 3

Loc.: E (3)

Tymanitis spp.: tymanitis canker

Disease Rating: 3

Loc.: AL (1)

FUNGUS/HOST LISTING

Aleurodiscus amorphus (Pers.:Fr.) Schröter: white rot and canker of balsam fir

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1), NE (1), C (1)

Amylostereum chailletii (Pers:Fr.) Boidin: wood wasp stereum

Syn.: *Stereum chailletii* (Pers.:Fr.) Fr.

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1)

Antrodia variiformis (Peck) Donk: brown trunk rot

Syn.: *Coriolellus variiformis* (Peck) Sarkar

Syn.: *Polyporus variiformis* Peck

Syn.: *Trametes variiformis* Peck

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Aplosporella sp.: needle blight

Alternate spelling: *Haplosporella* sp.

Disease Rating: 4

Host: *Juniperus virginiana* L.

Loc.: E (1)

Arceuthobium pusillum Peck¹⁶: eastern dwarf mistletoe

Disease Rating: 1

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), N (1), NE (1), E (3), SW (8)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (10), NC (14), N (21), NE (12), AL (4), C (2)

Host: *Picea pungens* Engelm.

Loc.: NW (1)

Armillaria mellea (Vahl:Fr.) Kummer¹⁷: armillaria root rot

Syn.: *Armillariella mellea* (Vahl:Fr.) P. Karsten

Disease Rating: 1

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (5), NC (15), N (12), NE (7), AL (9), C (3), SW (1)

Host: *Larix decidua* Mill.

Loc.: NW (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: NC (1), AL (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (6), NC (19), N (13), NE (3), AL (3), C (3), SW (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (20), NC (28), N (18), NE (6), AL (3)

Host: *Pseudotsuga* spp.

Loc.: C (3)

Host: *Thuja occidentalis* L.

Loc.: NC (1), NE (1), AL (2), C (3), SW (3)

¹⁶ *A. pusillum* is a parasitic phanerogam, not a fungus.

¹⁷ Recent research has demonstrated that most collections identified as *A. mellea* in Ontario are in fact *A. ostoyae* (Romagn.) Herink.

Ascocalyx abietina (Lagerb.) Schläpfer-Bernhard: scleroderris canker

Syn.: *Gremmeniella abietina* (Lagerb.) Morelet

Syn.: *Sclerotellus lagerbergii* Gremmen

Anamorph: *Brunchorstia pinea* (P. Karsten) Höhnle

Disease Rating: 1

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Ascocalyx abietis Naumov: balsam twig blight

Syn.: *Godronia abietis* (Naumov) Seaver

Anamorph: *Bothrodiscus berenice* (Berk. & M.A. Curtis) J.W. Groves

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: AL (1)

Ascocoryne sarcoides (Jacq.:Fr.) J.W. Groves & D. Wilson: pink stain

Syn.: *Coryne sarcoides* (Jacq.:Fr.) Tul.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NC (4), NE (5), AL (1), C (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (7), NC (3), N (6), NE (7), AL (2)

Asterodon ferruginosus Pat.: white rot

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NE (1)

Biatorella resiniae (Fr.) Mudd: resin cup fungus

Syn.: *Tromera resiniae* (Fr.) Körber

Anamorph: *Zythia resiniae* (Ehrenb.:Fr.) P. Karsten

Syn.: *Pycnidia resiniae* (Ehrenb.:Fr.) Höhnle

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: N (1), AL (1), E (1), SW (1)

Bjerkandera adusta (Willd.:Fr.) P. Karsten: scorched conk fungus

Syn.: *Polyporus adustus* Willd.:Fr.

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Botryotinia fuckeliana (de Bary) Whetzel: gray mold

Syn.: *Sclerotinia fuckeliana* (de Bary) Fuckel

Anamorph: *Botrytis cinerea* Pers.:Fr.

Disease Rating: 1

Host: *Abies balsamea* (L.) Mill.

Loc.: SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NE (1)

Host: *Picea pungens* Engelm.

Loc.: SW (3)

Cellulostorium sp.: balsam cytosporium

Syn.: *Cytosporium* sp.

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1), AL (1)

Host: *Taxus* spp.

Loc.: C (1)

Cenangium acuum Cooke & Peck: twig blight

Diseae Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Cephalosporium sp.: cephalosporium wilt

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (1), N (2), NE (3), E (1), C (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (2)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (3), NE (3), AL (2)

Ceratocystis sp.: blue stain

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1)

Host: *Thuja occidentalis* L.

Loc.: SW (1)

Cerrena unicolor (Bull.:Fr.) Murrill: white spongy heart rot

Syn.: *Daedalea unicolor* Bull.:Fr.

Disease Rating: 3

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: AL (1)

Chaetomium sp.: *chaetomium*

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (2)

Host: *Picea pungens* Engelm.

Loc.: SW (1)

Chaetomium globosum Kunze:Fr.: olive-green mold

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Chloridium sp.: green stain

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1)

Chlorociboria sp.: blue-green stain

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1)

Chlorociboria aeruginascens (Nyl.) Kanouse ex Ramam., Korf & Batra: blue-green stain

Anamorph: *Dothiorina tulasnei* (Sacc.) Höhnle

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1), N (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (2)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1), N (2)

Chrysomyxa arctostaphyli Dietel: spruce broom rust

Disease Rating: 2

Host: *Picea glauca* (Moench) Voss

Loc.: NW (2), NC (5), NE (4)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (8), NC (26), N (22), NE (16)

Chrysomyxa ledi (Alb. & Schwein.) de Bary: spruce needle rust¹⁸

Disease Rating: 2

Host: *Picea* spp.

Loc.: NC (1), N (3)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (25), NC (17), N (23), NE (13), AL (5), E (2), C (2)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (87), NC (42), N (59), NE (27), AL (5)

Host: *Picea pungens* Engelm.

Loc.: NW (1), N (4)

¹⁸ No variety had been determined for any of the collections listed.

Chrysomyxa ledi (Alb. & Schwein.) de Bary var. *ledi*: small-spored spruce-Labrador tea rust

Syn.: *Chrysomyxa ledi* (Alb. & Schwein.) de Bary var. *groenlandici* Savile

Disease Rating: 2

Host: *Picea glauca* (Moench) Voss

Loc.: NW (3), N (10), NE (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), NC (4), N (9)

Chrysomyxa ledicola (Peck) Lagerh.: large-spored spruce-Labrador tea rust

Disease Rating: 2

Host: *Picea glauca* (Moench) Voss

Loc.: NW (19), NC (29), N (40), NE (24), AL (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (61), NC (46), N (71), NE (38), AL (2)

Host: *Picea pungens* Engelm.

Loc.: NW (1), N (3)

Chrysomyxa pirolata (Körn.) Winter: spruce cone rust

Syn.: *Chrysomyxa pyrolae* (DC.) Rostrup

Disease Rating: 2

Host: *Picea glauca* (Moench) Voss

Loc.: NW (3), NC (20), N (6), NE (7), AL (7), E (2), C (3)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (3), NC (9), N (3), NE (2)

Chrysomyxa weiri H. Jackson: Weir's spruce-cushion rust

Disease Rating: 2

Host: *Picea glauca* (Moench) Voss

Loc.: E (2)

Cladosporium sp.: needle spot

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NE (2)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), N (1)

Cladosporium aecidiicola Thüm.¹⁹: needle rust parasite

Disease Rating: not applicable

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Climacocystis borealis (Fr.) Kotl. & Pouzar: white mottled rot

Syn.: *Polyporus borealis* Fr.

Syn.: *Tyromyces borealis* (Fr.) Imaz.

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1)

(cont'd)

¹⁹ This fungus colonizes rust pustules and is assumed to be a parasite of the rust.

Climacocystis borealis (Fr.) Kotl. & Pouzar: white mottled rot (concl.)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1), NE (1)

Coniophora puteana (Schumacher:Fr.) P. Karsten: brown cubical rot

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (1), N (2), NE (3), AL (4), C (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (3), AL (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), NE (2)

Host: *Thuja occidentalis* L.

Loc.: AL (1)

Coniothyrium sp.: conifer coniothyrium

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), N (1), NE (1)

Host: *Juniperus virginiana* L.

Loc.: E (1)

Host: *Picea abies* (L.) Karst.

Loc.: SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: E (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), NC (1), C (1)

Conocybe tenera (Schäffer:Fr.) Fayod: brown dunce cap

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Cordana pauciseptata Preuss: blue stain

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: N (1)

Cryptoporus volvatus (Peck) Shear: pouch fungus

Syn. *Polyporus volvatus* Peck

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Cytospora sp.: cytospora canker

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: N (2), NE (2), AL (2), E (2), C (1), SW (1)

(cont'd)

Cytospora sp.: cytospora canker (concl.)
Host: *Abies lasiocarpa* (Hook.) Nutt.
Loc.: NW (1)
Host: *Juniperus* spp.
Loc.: NE (1)
Host: *Juniperus virginiana* L.
Loc.: E (7), SW (1)
Host: *Larix* spp.
Loc.: E (1)
Host: *Larix decidua* Mill.
Loc.: C (2), SW (2)
Host: *Larix laricina* (Du Roi) K. Koch
Loc.: NC (2), N (2), E (1), SW (1)
Host: *Picea glauca* (Moench) Voss
Loc.: NE (3), E (1), C (1), SW (3)
Host: *Picea mariana* (Mill.) B.S.P.
Loc.: N (1)
Host: *Picea pungens* Engelm.
Loc.: C (1)
Host: *Picea rubens* Sarg.
Loc.: N (1), E (1)
Host: *Taxus* spp.
Loc.: C (1)
Host: *Thuja occidentalis* L.
Loc.: NW (1), NC (1), SW (1)
Host: *Tsuga* spp.
Loc.: C (1), SW (1)
Host: *Tsuga canadensis* (L.) Carr.
Loc.: C (1)

Cytospora sp.: shoot blight

Disease Rating: 3
Host: *Abies balsamea* (L.) Mill.
Loc.: AL (1)
Host: *Thuja occidentalis* L.
Loc.: NE (1)

Delphinella balsameae (Waterman) E. Müller: tip blight

Syn.: *Rehniellopsis balsameae* Waterman
Disease Rating: 3
Host: *Abies balsamea* (L.) Mill.
Loc.: NC (2)

Dermea sp.: dermea canker

Disease Rating: 3
Host: *Picea glauca* (Moench) Voss
Loc.: NE (1)

Dermea balsamea (Peck) Seaver: dermea twig canker
Anamorph: *Foveostroma abietinum* (Peck) Di Cosmo
Syn.: *Gelatinosporium abietinum* Peck
Disease Rating: 3
Host: *Abies balsamea* (L.) Mill.
Loc.: NW (1), NC (2), N (3), NE (2), AL (2), C (1), SW (1)

Dichomitus squalens (P. Karsten) Reid: red ray rot
Syn.: *Polyporus anceps* Peck
Disease Rating: 2
Host: *Abies balsamea* (L.) Mill.
Loc.: NW (1)
Host: *Picea glauca* (Moench) Voss
Loc.: N (1), C (1)
Host: *Picea rubens* Sarg.
Loc.: AL (1)

Didymascella thujina (E. Durand) Maire: keithia needle blight
Syn.: *Keithia thujina* E. Durand
Disease Rating: 2
Host: *Juniperus virginiana* L.
Loc.: E (1)
Host: *Thuja occidentalis* L.
Loc.: NE (1)

Dinemasporium sp.: dendrophoma
Disease Rating: 4
Host: *Picea abies* (L.) Karst.
Loc.: SW (1)
Host: *Picea glauca* (Moench) Voss
Loc.: C (1), SW (1)

Diplodia sp.: diplodia canker
Disease Rating: 2
Host: *Abies balsamea* (L.) Mill.
Loc.: NW (1), NC (1)
Host: *Juniperus virginiana* L.
Loc.: E (1)

Epicoccum sp.: epicoccum
Disease Rating: 4
Host: *Picea glauca* (Moench) Voss
Loc.: NE (1)
Host: *Picea pungens* Engelm.
Loc.: SW (1)

Epicoccum purpurascens Ehrenb. ex Schlecht.: epicoccum
Syn.: *Epicoccum nigrum* Link
Disease Rating: 4
Host: *Larix decidua* Mill.
Loc.: SW (1)
Host: *Thuja occidentalis* L.
Loc.: N (1)

Fabrella tsugae (Farlow) Kirschst.: hemlock needle blight

Disease Rating: 3

Host: *Tsuga canadensis* (L.) Carr.

Loc.: NE (1)

Fomitopsis cajanderi (P. Karsten) Kotl. & Pouzar: pink-colored conk

Syn.: *Fomes cajanderi* P. Karsten

Syn.: *Fomes subroseus* (Weir) Overh.

Syn.: *Trametes subrosea* Weir

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: AL (1), E (1)

Fomitopsis pinicola (Swartz:Fr.) P. Karsten: brown crumbly rot

Syn.: *Fomes pinicola* (Swartz:Fr.) Cooke

Syn.: *Polyporus pinicola* Swartz:Fr.

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (1), N (1)

Host: *Larix decidua* Mill.

Loc.: AL (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1), N (3), NE (2), AL (1), E (1), SW (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1), N (3), NE (4)

Fomitopsis rosea (Alb. & Schwein.:Fr.) P. Karsten: rose-colored conk

Syn.: *Fomes roseus* (Alb. & Schwein.:Fr.) P. Karsten

Syn.: *Polyporus roseus* Alb. & Schwein.:Fr.

Disease Rating: 3

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Fumago sp.: sooty mold

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1)

Fusicoccum sp.: needle blight

Disease Rating: 3

Host: *Juniperus virginiana* L.

Loc.: AL (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: SW (1)

Ganoderma applanatum (Pers.) Pat.: artist's conk

Syn.: *Fomes applanatus* (Pers.:Wallr.) C. Gillet

Syn.: *Polyporus applanatus* (Pers.) Wallr.

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NE (1)

Ganoderma lucidum (W. Curtis:Fr.) P. Karsten: varnished conk

Syn.: *Polyporus lucidus* W. Curtis:Fr.

Disease Rating: 3

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: N (1)

Ganoderma tsugae Murrill: hemlock varnished conk

Syn.: *Polyporus tsugae* (Murrill) Overh.

Disease Rating: 2

Host: *Tsuga canadensis* (L.) Carr.

Loc.: AL (2), E (1)

Gelatinosporium sp.: stem canker

Syn.: *Micropera* sp.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1), AL (3), SW (1)

Host: *Juniperus virginiana* L.

Loc.: E (1)

Gliocladium sp.: gliocladium stain

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1), NE (1)

Gliocladium roseum (Link) Bainier: gliocladium stain

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NC (3), N (1), NE (4)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (2), NC (2), N (3), NE (2), AL (1)

Gloeophyllum protractum (Fr.) Imaz.: brown cubical rot

Syn.: *Trametes protracta* Fr.

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NE (1), E (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NE (2)

Gloeophyllum saeparium (Wulfen:Fr.) P. Karsten: brown cubical rot

Syn.: *Daedalea saeparia* Wulfen:Fr.

Syn.: *Lenzites saeparia* (Wulfen:Fr.) Fr.

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: N (4)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (2), N (1)

Gloeophyllum trabeum (Pers.:Fr.) Murrill: brown cubical rot

Syn.: *Daedalea trabea* Fr.

Syn.: *Lenzites trabea* Pers.:Fr.

Disease Rating: 4

Host: *Picea abies* (L.) Karst.

Loc.: SW (1)

Gloeosporium sp.: branch canker

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Guignardia philoprina (Berk. & M.A. Curtis) v. d. Aa: cedar needle blight

Anamorph: *Phyllosticta concentrica* Sacc.

Disease Rating: 3

Host: *Thuja occidentalis* L.

Loc.: C (2)

Gymnosporangium sp.: juniper rust

Disease Rating: 3

Host: *Juniperus* spp.

Loc.: SW (1)

Host: *Juniperus virginiana* L.

Loc.: E (1)

Gymnosporangium clavariiforme (Pers.) DC.: clavariform juniper rust

Disease Rating: 2

Host: *Juniperus communis* var. *depressa* Pursh

Loc.: NW (1)

Gymnosporangium clavipes (Cooke & Peck) Cooke & Peck: quince rust

Disease Rating: 2

Host: *Juniperus* spp.

Loc.: NE (1), SW (3)

Host: *Juniperus communis* L.

Loc.: NE (1), SW (1)

Host: *Juniperus communis* var. *depressa* Pursh

Loc.: E (1)

Host: *Juniperus horizontalis* Moench

Loc.: NC (1)

Host: *Juniperus virginiana* L.

Loc.: E (5), SW (4)

Gymnosporangium globosum Farlow: globose gall rust

Syn.: *Roestelia lacerata* Tul.

Disease Rating: 3

Host: *Juniperus* spp.

Loc.: C (6)

Host: *Juniperus virginiana* L.

Loc.: E (4), C (3), SW (5)

Gymnosporangium juniperi-virginianae Schwein.: cedar-apple rust

Disease Rating: 2

Host: *Juniperus* spp.

Loc.: SW (1)

Host: *Juniperus virginiana* L.

Loc.: E (11), SW (7)

Gymnosporangium nelsonii Arthur: Nelson's juniper rust

Syn.: *Gymnosporangium corniculans* Kern

Disease Rating: 3

Host: *Juniperus* spp.

Loc.: SW (1)

Haematostereum sanguinolentum (Alb. & Schwein.:Fr.) Pouzar: red heart rot

Syn.: *Stereum sanguinolentum* (Alb. & Schwein.:Fr.) Fr.

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (3), N (2), NE (3)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NE (1), AL (1), E (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Hainesia sp.: dead bark colonizer

Disease Rating: 4

Host: *Juniperus virginiana* L.

Loc.: AL (1)

Hendersonia sp.: needle blight

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Host: *Juniperus virginiana* L.

Loc.: E (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1), N (2)

Heterobasidion annosum (Fr.) Bref.: fomes root rot

Syn.: *Fomes annosus* (Fr.) P. Karsten

Anamorph: *Spiniger meineckellus* (A. Olson) Stalpers

Disease Rating: 1

Host: *Juniperus virginiana* L.

Loc.: SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: SW (2)

Hormiscium sp.: hormiscium

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (2)

(cont'd)

Hormiscium sp.: hormiscium (concl.)

- Host: *Larix* spp.
 - Loc.: N (1)
- Host: *Picea glauca* (Moench) Voss
 - Loc.: NE (1)
- Host: *Picea mariana* (Mill.) B.S.P.
 - Loc.: NW (1), NC (1), NE (1)
- Host: *Picea pungens* Engelm.
 - Loc.: SW (1)

Hormodendrum sp.: wood stain

- Disease Rating: 4
- Host: *Abies balsamea* (L.) Mill.
 - Loc.: NW (1), NE (2), AL (1)
- Host: *Juniperus virginiana* L.
 - Loc.: E (3), C (1)
- Host: *Larix* spp.
 - Loc.: SW (1)
- Host: *Picea glauca* (Moench) Voss
 - Loc.: N (2), NE (2), AL (1), SW (1)
- Host: *Picea mariana* (Mill.) B.S.P.
 - Loc.: NW (1), NC (2), N (1), NE (1), C (1)
- Host: *Thuja occidentalis* L.
 - Loc.: AL (1)

Hydnellum sp.: hydnellum

- Disease Rating: 4
- Host: *Picea glauca* (Moench) Voss
 - Loc.: N (1)

Hymenochaete corrugata (Fr.:Fr.) Lév.: toothed crust fungus

- Disease Rating: 4
- Host: *Picea mariana* (Mill.) B.S.P.
 - Loc.: NW (1)

Hypodermella sp.: needle cast

- Disease Rating: 3
- Host: *Abies balsamea* (L.) Mill.
 - Loc.: NW (1), N (1), NE (1)

Hypodermella laricis Tubeuf: larch needle cast

- Disease Rating: 3
- Host: *Larix* spp.
 - Loc.: NW (2), C (1), SW (1)

Inonotus circinatus (Fr.) Gilbertson: circinatus root rot

- Syn.: *Polyporus circinatus* Fr.
- Disease Rating: 1
- Host: *Picea glauca* (Moench) Voss
 - Loc.: C (1)
- Host: *Picea mariana* (Mill.) B.S.P.
 - Loc.: N (1)

Inonotus tomentosus (Fr.) Teng: tomentosus root rot

Syn.: *Polyporus tomentosus* Fr.

Disease Rating: 1

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (1), NE (3)

Host: *Picea abies* (L.) Karst.

Loc.: SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NC (5), N (1), NE (8), AL (7), E (2), C (2), SW (2)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (4), NC (8), N (6), NE (9), E (1)

Isthmiella sp.: isthmiella needle cast

Syn.: *Bifusella* sp.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (2), NC (2)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: N (1)

Isthmiella crepidiformis (Darker) Darker: isthmiella needle cast

Syn.: *Bifusella crepidiformis* Darker

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NC (1), N (1), C (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), NC (5), N (23), NE (7), AL (3)

Isthmiella faullii (Darker) Darker: isthmiella needle cast

Syn.: *Bifusella faullii* Darker

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (12), NC (6), N (3), NE (4), AL (1)

Kabatina thujae A. Schneider & v. Arx var. *juniperi* (A. Schneider & v. Arx) Morelet:

kabatina needle blight

Disease Rating: 1

Host: *Juniperus* spp.

Loc.: NE (1), C (1)

Host: *Juniperus virginiana* L.

Loc.: NE (1), E (2), C (1), AL (2)

Lachnellula sp.: lachnellula dieback

Disease Rating: 2

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: N (1), NE (1)

Lachnellula agassizii (Berk. & M.A. Curtis) Dennis: lachnellula dieback

Syn.: *Dasyscyphus agassizii* (Berk. & M.A. Curtis) Sacc.

Syn.: *Lachnella agassizii* (Berk. & M.A. Curtis) Seaver

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1), N (1), SW (1)

Lachnellula occidentalis (Hahn & Ayers) Dharne: lachnellula dieback

Syn.: *Dasyscyphus occidentalis* Hahn & Ayers

Syn.: *Lachnellula hahniana* (Seaver) Dennis

Syn.: *Lachnella occidentalis* (Hahn & Ayers) Seaver

Disease Rating: 3

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: N (1)

Leptosphaeria sp.: leptosphaeria needle saprophyte

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1)

Leptosphaeria faullii Darker²⁰: needle cast attacker

Anamorph: *Coniothyrium faullii* Darker

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (1)

Leucostoma kunzei (Fr.) Munk: cytospora canker

Syn.: *Valsa kunzei* Fr.

Anamorph: *Cytospora kunzei* Sacc.

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: AL (1), C (1)

Host: *Larix decidua* Mill.

Loc.: C (1)

Host: *Picea* spp.

Loc.: NC (1)

Host: *Picea abies* (L.) Karst.

Loc.: AL (1), E (2), C (2), SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1), AL (3), E (7), C (10), SW (4)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (3)

Host: *Picea pungens* Engelm.

Loc.: NE (1), AL (2), E (5), C (7), SW (6)

Libertella sp.: juniper libertella

Disease Rating: 3

Host: *Juniperus virginiana* L.

Loc.: E (1)

²⁰ This fungus colonizes ascocarps of needle cast fungi, on which it is assumed to be parasitic.

Lirula macrospora (Hartig) Darker: lirula needle cast of spruce

Syn.: *Lophodermium filiforme* Darker

Syn.: *Lophodermium macrosporum* (Hartig) Rehm

Anamorph: *Hypodermina hartigii* Hiltizer

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), AL (1), C (1), SW (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (2)

Lirula mirabilis (Darker) Darker: lirula needle cast of balsam

Syn.: *Hypodermella mirabilis* Darker

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (3), NC (10), N (3)

Lirula nervata (Darker) Darker: lirula needle cast of balsam

Syn.: *Hypodermella nervata* Darker

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (7), N (4), NE (1), AL (2)

Lophium sp.: mussel shell fungus

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: C (1)

Lophium mytilinum (Pers.) Fr.: mussel shell fungus

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (2)

Lophodermium sp.: needle cast

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (2), N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), AL (1)

Host: *Pseudotsuga* spp.

Loc.: C (1)

Lophodermium juniperinum (Fr.) de Not.: juniper needle cast

Syn.: *Lophodermium juniperi* (Grev.) Darker

Disease Rating: 3

Host: *Juniperus* spp.

Loc.: AL (2), E (1), C (2)

Host: *Juniperus communis* var. *depressa* Pursh

Loc.: AL (2), C (1)

Host: *Juniperus horizontalis* Moench

Loc.: E (1)

Host: *Juniperus virginiana* L.

Loc.: AL (1), E (2), C (1)

Lophodermium lacerum Darker: balsam needle cast

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Lophodermium piceae (Fuckel) Höhnle: spruce needle cast

Disease Rating: 3

Host: *Picea* spp.

Loc.: NC (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1), N (1), NE (1), AL (1), E (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (2), N (2), NE (2), NW (1)

Lophomerum darkeri Ouellette: needle cast competitor

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1)

Lophophacidium hyperboreum Lagerb.: snow blight

Disease Rating: 1

Host: *Picea glauca* (Moench) Voss

Loc.: AL (1)

Macrophoma sp.: needle blight

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1)

Host: *Thuja occidentalis* L.

Loc.: N (2)

Melampsora sp.: needle rust

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (2)

Host: *Larix* spp.

Loc.: NC (1), E (1)

Host: *Larix decidua* Mill.

Loc.: C (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: NW (2), NC (3), N (17), NE (2), AL (3), E (2)

Melampsora abieti-capraearum Tubeuf: fir-willow rust

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1), E (3)

Melampsora abietis-canadensis C.A. Ludwig ex Arthur: hemlock-poplar rust

Disease Rating: 3

Host: *Tsuga* spp.

Loc.: SW (1)

Host: *Tsuga canadensis* (L.) Carr.

Loc.: AL (2), E (8), C (3), SW (1)

Melampsora epitea Thüm. f. sp. *tsugae* Ziller: hemlock-willow rust

Disease Rating: 3

Host: *Tsuga canadensis* (L.) Carr.

Loc.: SW (1)

Melampsora medusae Thüm.: conifer-aspen rust

Disease Rating: 3

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: NE (1), AL (4), E (1), C (2), SW (1)

Melampsora paradoxa Dietel & Holway: larch-willow rust

Syn.: *Melampsora bigelowii* Thüm.

Disease Rating: 3

Host: *Larix* spp.

Loc.: NE (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: N (1), NE (7), AL (1)

Melampsorella caryophyllacearum Schröter: fir broom rust

Syn.: *Melampsorella cerastii* (Pers.) Schröter

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (25), NC (15), N (25), NE (5), AL (1), E (3)

Melanconium sp.: branch canker

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: C (1)

Melanomma sp.: spruce twig fungus

Disease Rating: 4

Host: *Picea pungens* Engelm.

Loc.: SW (1)

Menispora sp.: dead bark menispora

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1)

Host: *Picea glauca* (Moench) Voss

Loc.: AL (1)

Meria laricis Vuill.: larch needle cast

Disease Rating: 2

Host: *Larix decidua* Mill.

Loc.: E (1), C (2), SW (8)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: E (1)

Micraspis acicola Darker: needle blight

Anamorph: *Periperidium acicola* Darker

Disease Rating: 2

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Mycena galericulata (Scop.:Fr.) Gray: common mycena

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Mytilidion sp.: clam shell fungus

Disease Rating: 4

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: E (1)

Nectria sp.: nectria canker

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: NC (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1)

Nectria cinnabarina (Tode:Fr.) Fr.: nectria canker

Syn.: *Sphaeria cinnabarina* Tode

Anamorph: *Tubercularia vulgaris* Tode:Fr.

Disease Rating: 2

Host: *Thuja occidentalis* L.

Loc.: SW (1)

Nidularia sp.: bird's nest fungus

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1)

Nothophacidium abietinellum (Dearn.) J. Reid & Cain: snow blight

Syn.: *Phacidium abietinellum* Dearn.

Disease Rating: 1

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (3)

Oligoporus balsameus (Peck) Gilbertson & Ryv.: brown cubical butt rot

Syn.: *Polyporus balsameus* Peck

Syn.: *Tyromyces balsameus* (Peck) Murrill

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: N (2)

Oligoporus guttulatus (Peck) Gilbertson & Ryv.: brown cubical rot

Syn.: *Polyporus guttulatus* Peck

Syn.: *Tyromyces guttulatus* (Peck) Murrill

Syn.: *Tyromyces substipitatus* Murrill

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: AL (1)

Oligoporus sericeomollis (Romell) Pouzar: brown cubical rot

Syn.: *Polyporus sericeomollis* Romell

Syn.: *Poria sericeomollis* (Romell) Egel.

Syn.: *Tyromyces sericeomollis* (Romell) Bondartsev & Singer

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: N (1)

Panus rufus Fr.: ruddy panus

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Peniophora pithya (Pers.) John Eriksson: peniophora

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Pestalotia sp.: needle and shoot blight

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Host: *Juniperus* spp.

Loc.: C (1)

Host: *Juniperus virginiana* L.

Loc.: SW (1)

Host: *Picea pungens* Engelm.

Loc.: SW (2)

Host: *Picea rubens* Sarg.

Loc.: C (1)

Host: *Thuja occidentalis* L.

Loc.: NC (1), NE (1), E (2), C (1), SW (5)

Pestalotiopsis funerea (Desm.) Stey.: needle and shoot blight

Syn.: *Pestalotia funerea* Desm.

Disease Rating: 3

Host: *Thuja occidentalis* L.

Loc.: E (2), AL (1)

Peziza sylvestris (Boud.) Sacc. & A. Trotter: cup fungus

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: AL (1)

Phacidium sp.: snow blight

Disease Rating: 1

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1), NE (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: SW (1)

Phacidium abietis (Dearn.) J. Reid & Cain: snow blight
Syn.: *Phacidium infestans* P. Karsten var. *abietis* Dearn.
Disease Rating: 1
Host: *Abies balsamea* (L.) Mill.
Loc.: NW (3), NC (8), N (9), NE (5)

Phaeocryptopus gaeumannii (Rohde) Petrak: Swiss needle cast
Syn.: *Adelopus gaeumannii* Rohde
Disease Rating: 2
Host: *Pseudotsuga* spp.
Loc.: C (3)
Host: *Pseudotsuga menziesii* (Mirb.) Franco
Loc.: C (1)

Phaeolus schweinitzii (Fr.) Pat.: brown cubical rot
Syn.: *Polyporus schweinitzii* Fr.
Disease Rating: 1
Host: *Abies balsamea* (L.) Mill.
Loc.: N (1), C (1)
Host: *Picea abies* (L.) Karst.
Loc.: E (1)
Host: *Picea glauca* (Moench) Voss
Loc.: NC (2), NE (5), AL (5), C (1)
Host: *Picea mariana* (Mill.) B.S.P.
Loc.: NW (1), N (1), NE (2), AL (1)
Host: *Thuja occidentalis* L.
Loc.: E (1)

Phellinus pini (Brot.:Fr.) A. Ames: red ring rot
Syn.: *Fomes pini* (Brot.:Fr.) P. Karsten
Disease Rating: 1
Host: *Abies balsamea* (L.) Mill.
Loc.: N (1)
Host: *Larix decidua* Mill.
Loc.: C (1)
Host: *Larix laricina* (Du Roi) K. Koch
Loc.: E (1)
Host: *Picea glauca* (Moench) Voss
Loc.: N (4), C (1), NC (1)
Host: *Picea mariana* (Mill.) B.S.P.
Loc.: N (2)

Phlebiopsis gigantea (Fr.) Jülich.: peniophora gigantea
Syn.: *Peniophora gigantea* (Fr.) Massee
Disease Rating: 4
Host: *Abies balsamea* (L.) Mill.
Loc.: N (1)

Phoma sp.: needle blight

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NE (1)

Host: *Juniperus* spp.

Loc.: C (1)

Host: *Juniperus communis* var. *depressa* Pursh

Loc.: NW (1)

Host: *Juniperus virginiana* L.

Loc.: AL (1), E (1)

Host: *Larix* spp.

Loc.: SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (2), N (1)

Host: *Picea rubens* Sarg.

Loc.: AL (1)

Host: *Thuja occidentalis* L.

Loc.: NC (1), N (1), NE (1)

Phomopsis sp.: phomopsis canker

Disease Rating: 3

Host: *Juniperus virginiana* L.

Loc.: E (3)

Host: *Larix* spp.

Loc.: SW (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: NW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), SW (2)

Host: *Picea pungens* Engelm.

Loc.: SW (1)

Host: *Thuja occidentalis* L.

Loc.: AL (2)

Phomopsis juniperovora Hahn: phomopsis blight

Disease Rating: 2

Host: *Juniperus horizontalis* Moench

Loc.: SW (1)

Host: *Juniperus virginiana* L.

Loc.: E (1)

Host: *Thuja occidentalis* L.

Loc.: NE (1), AL (1)

Phyllosticta sp.: shoot blight

Syn.: *Phyllostictina* sp.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (4), AL (1), C (1)

Poria subacida (Peck) Sacc.: white stringy rot

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Host: *Thuja occidentalis* L.

Loc.: NE (1)

Pucciniastrum sp.: needle rust

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (5), NC (7), N (3), SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: N (2), NE (3), E (2)

Pucciniastrum americanum (Farlow) Arthur: American spruce-raspberry rust

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: N (1), AL (2)

Pucciniastrum epilobii Otth: fir-fireweed rust

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (44), NC (32), N (46), NE (5), AL (5), SW (3)

Pucciniastrum goeppertianum (Kühn) Kleb.: fir witch's broom rust of blueberry

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (5), AL (1)

Pucciniastrum vaccinii (Winter) Jørstad: hemlock-blueberry rust

Disease Rating: 3

Host: *Tsuga canadensis* (L.) Carr.

Loc.: E (3)

Resinicum bicolor (Alb. & Schwein.:Fr.) Parm.: white stringy rot

Syn.: *Odontia bicolor* (Alb. & Schwein.:Fr.) Quélet

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (2), AL (1), SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: E (1), SW (1)

Host: *Thuja occidentalis* L.

Loc.: NE (1)

Rhabdocline sp.: Douglas-fir needle cast

Disease Rating: 2

Host: *Pseudotsuga menziesii* (Mirb.) Franco

Loc.: C (1)

Rhabdocline pseudotsugae Sydow: Douglas-fir needle cast

Disease Rating: 2

Host: *Pseudotsuga* spp.

Loc.: C (1)

Host: *Pseudotsuga menziesii* (Mirb.) Franco

Loc.: C (1)

Rhinocladiella sp.: chip pile fungus

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (2), AL (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: N (3)

Rhizina undulata Fr.: tea pot fungus

Syn.: *Rhizina inflata* P. Karsten

Disease Rating: 3

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (2), NC (2), NE (1)

Rhizocalyx abietis Petrak: needle blight

Anamorph: *Rhizothyrium abietis* Naumov

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1), NE (1)

Rhizosphaera kalkhoffii Bubák: needle blight

Disease Rating: 2

Host: *Picea* spp.

Loc.: SW (1)

Host: *Picea abies* (L.) Karst.

Loc.: C (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1), NE (1), AL (1), E (3), C (4), SW (3)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (3), N (1)

Host: *Picea pungens* Engelm.

Loc.: NE (2), E (1), C (3), SW (7)

Rhizosphaera pini (Corda) Maubl.: needle blight

Syn.: *Coniothyrium pini* Corda

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (8), N (14), NE (4), AL (1), C (1)

Sarcotrichila balsameae (J. Davis) Korf: snow blight

Syn.: *Phacidium balsameae* J. Davis

Anamorph: *Kabatiella balsameae* (J. Davis) v. Arx

Disease Rating: 1

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (7), N (3)

Sarcotrichila piniperda (Rehm) Korf: snow blight

Syn.: *Phacidium expansum* J. Davis

Disease Rating: 1

Host: *Picea glauca* (Moench) Voss

Loc.: NC (2), AL (1)

Schizophyllum commune Vaill.:Fr.: common split gill

Disease Rating: 4

Host: *Picea abies* (L.) Karst.

Loc.: C (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Scoleconectria cucurbitula (Tode:Fr.) C. Booth: canker and dieback

Syn.: *Ophioneectria cylindrospora* (Sollman) Berl. & Vogl.

Anamorph: *Zytiostroma pinastri* (P. Karsten) Höhnel

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: N (2), E (1), C (1), NC (1)

Host: *Larix decidua* Mill.

Loc.: C (1)

Scytinostroma galactinum (Fr.) Donk: yellow stringy rot

Syn.: *Corticium galactinum* (Fr.) Burt

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (2), E (1)

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Host: *Picea rubens* Sarg.

Loc.: AL (1)

Septonema sp.: bark inhabiting septonema

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NE (1)

Serpula sp.: dry rot fungus

Syn.: *Merulius* sp.

Disease Rating: 3

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), N (1)

Serpula himantoides (Fr.) P. Karsten: brown cubical dry rot

Syn.: *Merulius himantoides* Fr.

Disease Rating: 2

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Serpula lacrimans (Wulff:Fr.) Schröter: dry rot fungus

Syn.: *Merulius lacrimans* Fr.

Disease Rating: 2

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Sirococcus conigenus (DC.) P. Cannon & Minter: shoot blight

Syn.: *Ascochyta piniperda* Lindau

Syn.: *Discella strobilina* (Desm.) Died.

Syn.: *Sirococcus strobilinus* Preuss

Disease Rating: 2

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Host: *Picea pungens* Engelm.

Loc.: SW (8)

Sistotrema brinkmannii (Bresad.) John Eriksson: white stringy rot

Syn.: *Odontia brinkmannii* Bresad.

Syn.: *Trechispora brinkmannii* (Bresad.) Rogers & H. Jackson

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NE (1), N(1)

Skeletocutis nivea (Junghuhn) Keller: straw-colored decay fungus

Syn.: *Polyporus niveus* Junghuhn

Syn.: *Polyporus semipileatus* Peck

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: N (1), AL (1)

Sphaeropsis sp.: diplodia canker

Disease Rating: 2

Host: *Larix decidua* Mill.

Loc.: SW (1)

Host: *Pseudotsuga menziesii* (Mirb.) Franco

Loc.: C (1)

Stemphylium sp.: dead bark colonizer

Disease Rating: 4

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Stigmina juniperina (Georgescu & Badea) M.B. Ellis: juniper blight

Syn.: *Cercospora juniperina* Georgescu & Badea

Disease Rating: 2

Host: *Juniperus communis* L.

Loc.: AL (1), SW (1)

Sydowia polyspora (Bref. & Tav.) E. Müller: needle blight

Anamorph: *Sclerophoma pythiophila* (Corda) Höhnle

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Host: *Juniperus virginiana* L.

Loc.: E (2), C (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NE (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Host: *Picea pungens* Engelm.

Loc.: E (1)

Host: *Pseudotsuga menziesii* (Mirb.) Franco

Loc.: N (1)

Host: *Thuja occidentalis* L.

Loc.: N (1), NE (1)

Thelephora terrestris Ehrh.:Fr.: smothering disease

Disease Rating: 4M

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), N (1), E (1), SW (1)

Thyronectria balsamea (Cooke & Peck) Seeler: balsam fir canker

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1), N (6), NE (1), AL (2)

Trametes hirsuta (Wulfen:Fr.) Pilát: the hairy conk

Syn.: *Coriolus hirsutus* (Wulfen:Fr.) Quélet

Syn.: *Polyporus hirsutus* Wulfen:Fr.

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1)

Tremella sp.: jelly fungus

Disease Rating: 4

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1)

Trichaptum abietinum (Dickson:Fr.) Ryv.: pitted sap rot

Syn.: *Polyporus abietinus* Dickson:Fr.

Disease Rating: 4

Host: *Picea glauca* (Moench) Voss

Loc.: N (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NW (1), N (1)

Truncatella angustata (Pers.) Hughes: needle blight

Syn.: *Truncatella truncata* (Lév.) Stey.

Disease Rating: 4

Host: *Thuja occidentalis* L.

Loc.: N (1)

Tryblidiopsis pinastri (Pers.:Fr.) P. Karsten: branch canker

Anamorph: *Tryblidiopycnis pinastri* Höhnle

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NE (1), E (1)

Tympanis sp.: tympanis canker

Disease Rating: 3

Host: *Picea glauca* (Moench) Voss

Loc.: NC (1), NE (1), AL (1)

Host: *Tsuga canadensis* (L.) Carr.

Loc.: AL (1)

Tympanis truncatula (Pers.:Fr.) Rehm: tympanis dieback

Syn.: *Tympanis pinastri* Tul.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NE (1)

Uredinopsis sp.: balsam fir-fern rust

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NC (1), N (2), NE (2), E (2), SW (1)

Valsa sp.: cytospora canker

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: AL (1)

Host: *Juniperus virginiana* L.

Loc.: E (1)

Host: *Picea glauca* (Moench) Voss

Loc.: C (1)

Valsa abietis Fr.: cytospora canker

Anamorph: *Cytospora abietis* Sacc.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), NC (1), N (2), SW (1), AL (2)

Host: *Larix* spp.

Loc.: NC (1), AL (1)

Host: *Larix decidua* Mill.

Loc.: C (1)

Host: *Larix laricina* (Du Roi) K. Koch

Loc.: SW (1), AL (1)

Host: *Pseudotsuga* spp.

Loc.: SW (1)

Valsa friesii (Duby) Fuckel: needle blight

Anamorph: *Cytospora friesii* Sacc.

Syn.: *Cytospora dubyi* Sacc.

Syn.: *Cytospora pinastri* Fr.

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (4), NC (2), N (4), NE (2), AL (1), E (3), C (1)

Valsa pini Alb. & Schwein.:Fr.: cytospora canker

Disease Rating: 3

Host: *Abies balsamea* (L.) Mill.

Loc.: AL (1)

Verticicladella sp.: black root stain

Disease Rating: 1

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (1)

Verticillium sp.: seedling root rot

Disease Rating: 2

Host: *Abies balsamea* (L.) Mill.

Loc.: NW (1), N (1), NE (4), AL (2), SW (1)

Host: *Picea glauca* (Moench) Voss

Loc.: NW (1), NC (1), N (1), NE (1), AL (1)

Host: *Picea mariana* (Mill.) B.S.P.

Loc.: NC (3), NE (4)

Host: *Thuja occidentalis* L.

Loc.: E (1)

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