

2003 Host Pathogen Index for the WSU Puyallup Plan Insect Diagnostic Laboratory

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
vine maple	<i>Acer circinatum</i>	Verticillium wilt	<i>Verticillium dahliae</i>
maple	<i>Acer palmatum</i>	Armillaria root rot	<i>Armillaria</i> sp.
Japanese maple	<i>Acer palmatum</i>	Nectria canker	<i>Nectria</i> sp.
Japanese maple	<i>Acer palmatum</i>	Verticillium wilt	<i>Verticillium dahliae</i>
maple	<i>Acer rubrum</i>	Phytophthora canker	<i>Phytophthora</i> sp.
red maple	<i>Acer rubrum</i>	Verticillium wilt	<i>Verticillium dahliae</i>
maple	<i>Acer</i> sp.	maple anthracnose	<i>Discula</i> sp.
Florida dogwood	<i>Cornus florida</i>	powdery mildew	<i>Phyllactinia guttata</i>
crabapple	<i>Malus</i> sp.	scab	<i>Venturia inaequalis</i>
London plane-tree	<i>Platanus X acerifolia</i>	anthracnose	<i>Apoignomonina veneta</i>
lombardy poplar	<i>Populus nigra</i>	poplar leaf blister	<i>Taphrina populina</i>
quaking aspen	<i>Populus tremuloides</i>	leaf and shoot blight	<i>Venturia tremulae</i>
cherry	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
flowering cherry	<i>Prunus</i> sp.	brown rot	<i>Monilinia fruticola</i>
flowering cherry	<i>Prunus</i> sp.	powdery mildew	<i>Podosphaera clandestina</i>
flowering plum	<i>Prunus</i> sp.	brown rot	<i>Monilinia fruticola</i>
flowering plum	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
plum	<i>Prunus</i> sp.	brown rot	<i>Monilinia fruticola</i>
plum	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
pear	<i>Pyrus</i> sp.	powdery mildew	<i>Podosphaera leucotricha</i>
Garry oak	<i>Quercus garryana</i>	anthracnose	<i>Discula</i> sp.
oak	<i>Quercus rubra</i>	oak leaf blister	<i>Taphrina caerulescens</i>
Japanese pagoda tree	<i>Sophora japonica</i>	Fusarium canker	<i>Fusarium</i> sp.
elm	<i>Ulmus</i> sp.	Dutch elm disease	<i>Ophiostoma ulmi</i>
Conifers, Diseases, Fungal			
<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
grand fir	<i>Abies grandis</i>	Phytophthora root rot	<i>Phytophthora</i> sp.
noble fir	<i>Abies procera</i>	needle rust	<i>Pucciniastrum goeppertianum</i>
<i>Chamaecyparis obtusa</i>	<i>Chamaecyparis obtusa</i>	Botrytis blight	<i>Botrytis cinerea</i>
<i>Cryptomeria japonica</i>	<i>Cryptomeria japonica</i>	Botrytis blight	<i>Botrytis cinerea</i>
Colorado blue spruce	<i>Picea pungens</i>	Rhizosphaera needlecast	<i>Rhizosphaera</i> sp.
Western white pine	<i>Pinus monticola</i>	white pine blister rust	<i>Cronartium ribicola</i>
ponderosa pine	<i>Pinus ponderosa</i>	Lophodermella needlecast	<i>Lophodermella</i> sp.
pine	<i>Pinus</i> sp.	Lophodermium needlecast	<i>Lophodermium</i> sp.
Douglas fir	<i>Pseudotsuga menziesii</i>	Phomopsis canker	<i>Phomopsis</i> sp.
Douglas fir	<i>Pseudotsuga menziesii</i>	Armillaria root rot	<i>Armillaria</i> sp.
Douglas fir	<i>Pseudotsuga menziesii</i>	Fusarium hypocotyl and root rot	<i>Fusarium</i> sp.
Douglas fir	<i>Pseudotsuga menziesii</i>	Swiss needle cast	<i>Phaeocryptopus gaeumannii</i>
cedar	<i>Thuja plicata</i>	Keithia blight	<i>Didymascella thujina</i>
hemlock	<i>Tsuga heterophylla</i>	Annosus root disease	<i>Heterobasidion annosum</i>

juniper	<i>Juniperus</i> sp.	Armillaria root rot	<i>Armillaria</i> sp.
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Flowers & Bulbs, Diseases, Bacterial

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
dahlia	<i>Dahlia</i> sp.	bacterial soft rot	<i>Erwinia</i> sp.

Flowers & Bulbs, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
poisetia	<i>Euphorbia pulcherrima</i>	Pythium root rot	<i>Pythium</i> sp.
money plant	<i>Lunaria annua</i>	white rust	<i>Albugo candida</i>
dusty miller	<i>Senecio</i> sp.	Botrytis blight (gray mold)	<i>Botrytis cinerea</i>
tulips	<i>Tulipa hybrida</i>	root infecting fungus	<i>Trichoderma</i>
tulips	<i>Tulipa</i> sp.	fire	<i>Botrytis tulipae</i>
tulips	<i>Tulipa</i> sp.	Penicillium blue mold	<i>Penicillium</i> sp.
pansies	<i>Viola</i> sp.	Botrytis blight (gray mold)	<i>Botrytis cinerea</i>
pansies	<i>Viola</i> sp.	Pythium root rot	<i>Pythium</i> sp.

Groundcovers, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
St. Johnswort	<i>Hypericum calycinum</i>	black root rot	<i>Thielaviopsis basicola</i>
sword fern	<i>Polystichum munitum</i>	leaf blister	<i>Taphrina (fauliana or polystichi)</i>
Oregon grape	<i>Berberis</i> sp.	rust diseases	<i>Cumminisella</i> sp. or <i>Puccinia</i> sp.

Shrubs & Vines, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
akebia	<i>Akebia</i> sp.	powdery mildew	<i>Erysiphe</i> sp.?
quince	<i>Chaenomeles</i> sp.	brown rot	<i>Monilinia fructicola</i>
chusquea bamboo	<i>Chusquea</i> sp.	Pythium root rot	<i>Pythium</i> sp.
gunnera	<i>Gunnera manicata</i>	root rot	<i>Pythium</i> sp.
holly	<i>Ilex aquifolium</i>	Phytophthora leaf and twig blight	<i>Phytophthora ilicis</i>
photinia	<i>Photinia x fraseri</i>	Diplocarpon leaf spot	<i>Diplocarpon mespili (Entomosporium mespili)</i>
azalea	<i>Rhododendron</i> sp.	azalea leaf and flower gall	<i>Exobasidium vaccinii</i>
rhododendron	<i>Rhododendron macrophyllum</i>	azalea leaf and flower gall	<i>Exobasidium vaccinii</i>
rhododendron	<i>Rhododendron</i> sp.	Phytophthora root rot	<i>Phytophthora</i> sp.
rhododendron	<i>Rhododendron</i> sp.	powdery mildew	<i>Microsphaera azaleae</i>
rhododendron	<i>Rhododendron</i> sp.	rhododendron rust	<i>Chrysomyxa</i> sp.
rhododendron	<i>Rhododendron</i> sp.	Armillaria root rot	<i>Armillaria</i> sp.
rose	<i>Rosa</i> sp.	powdery mildew	<i>Sphaerotheca pannosa</i>
lilac	<i>Syringa vulgaris</i>	powdery mildew	<i>Microsphaera syringae</i>

Shrubs & Vines, Diseases, Bacterial

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
butterfly bush	<i>Buddleja</i> sp.	bacterial blight	<i>Pseudomonas syringae</i> pv <i>syringae</i>
lilac	<i>Syringa vulgaris</i>	bacterial blight	<i>Pseudomonas syringae</i> pv <i>syringae</i>

Small Fruits & Berries, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
blackberry	<i>Rubus</i> sp.	canker	<i>Gnomonia rubi</i>
blueberry	<i>Vaccinium</i> sp.	Botrytis blight	<i>Botrytis cinerea</i>
blueberry	<i>Vaccinium</i> sp.	Godronia canker	<i>Godronia cassandrae</i> : <i>Fusicoccum putrefaciens</i>
blueberry	<i>Vaccinium</i> sp.	mummyberry	<i>Monilinia vaccinii-corymbosi</i>
gooseberry	<i>Ribes</i> sp.	powdery mildew	<i>Sphaerotheca mors-uvae</i>
raspberry	<i>Rubus idaeus</i>	cane blight	<i>Coniothyrium</i> sp.
raspberry	<i>Rubus idaeus</i>	Phytophthora root rot	<i>Phytophthora</i> sp.
strawberry	<i>Fragaria</i> sp.	Verticillium wilt	<i>Verticillium</i> sp.
strawberry	<i>Fragaria</i> sp.	Rhizoctonia root rot	<i>Rhizoctonia</i> sp.
strawberry	<i>Fragaria</i> sp.	red stele	<i>Phytophthora fragariae</i> var. <i>fragariae</i>
strawberry	<i>Fragaria</i> sp.	powdery mildew	<i>Sphaerotheca macularis</i>

Small Fruits & Berries, Diseases, Bacterial

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
boysenberry	<i>Rubus</i> sp.	cane gall	<i>Agrobacterium rubi</i>
raspberry	<i>Rubus idaeus</i>	crown gall	<i>Agrobacterium tumefaciens</i>

Small Fruits & Berries, Diseases, Nematode

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
strawberry	<i>Fragaria</i> sp.	root lesion nematodes	<i>Pratylenchus</i> sp.

Small Fruits & Berries, Diseases, Viral

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
blueberry	<i>Vaccinium</i> sp.	blueberry shock	blueberry shock ilarvirus

Tree Fruits, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
filbert	<i>Corylus avellana</i>	Eastern filbert blight	<i>Anisogramma anomala</i>
apple	<i>Malus domestica</i>	European canker (Nectria canker)	<i>Nectria galligena</i>
apple	<i>Malus domestica</i>	apple scab	<i>Venturia inaequalis</i>
apple	<i>Malus domestica</i>	powdery mildew	<i>Podosphaera leucotricha</i>
peach 'Frost'	<i>Prunus persica</i>	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
apricot	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
Italian prune	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
plum	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
cherry 'Royal Anne'	<i>Prunus</i> sp.	Coryneum blight (shothole)	<i>Wilsonomyces carpophilus</i>
plum	<i>Prunus</i> sp.	brown rot	<i>Monilinia fruticola</i>
Asian pear	<i>Pyrus</i> sp.	Nectria canker/coral spot	<i>Nectria</i> sp.
pear	<i>Pyrus</i> sp.	pear scab	<i>Venturia pirina</i>

Tree Fruits, Diseases, Bacterial

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
Asian pear	<i>Pyrus</i> sp.	Pseudomonas bacterial blight	<i>Pseudomonas syringae</i> pv <i>syringae</i>

Turfgrass, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
annual bluegrass & bentgrass	<i>Poa annua</i>	anthracnose	<i>Colletotrichum graminicola</i>
bentgrass	<i>Agrostis</i> sp.	anthracnose	<i>Colletotrichum graminicola</i>
bentgrass	<i>Agrostis</i> sp.	basal anthracnose	<i>Colletotrichum graminicola</i>
golf turf		anthracnose	<i>Colletotrichum graminicola</i>
golf turf		brown patch	<i>Rhizoctonia solani</i>
home lawn		Curvularia blight	<i>Curvularia</i> sp.
new turf		damping off	<i>Pythium</i> sp.
golf turf:		downy mildew (yellow tuft)	<i>Sclerophthora macrospora</i>
golf turf		Drechslera leaf spot	<i>Drechslera</i> sp.
annual bluegrass	<i>Poa annua</i>	fairy ring	Basidiomycete
bentgrass	<i>Agrostis</i> sp.	fairy ring	Basidiomycete
pasture		fairy ring	Basidiomycete
annual bluegrass	<i>Poa annua</i>	Fusarium patch	<i>Microdochium nivale</i>
home lawn		necrotic ring spot	<i>Leptosphaeria korrae</i>
grass blades		powdery mildew	<i>Erysiphe graminis</i>
golf turf		Pythium root rot & blight	<i>Pythium</i> sp.
home lawn		Pythium	<i>Pythium</i> sp.
home lawn		red thread	<i>Laetisaria fuciformis</i>
bentgrass- golf turf	<i>Agrostis</i> sp.	take-all patch	<i>Gaeumannomyces graminis</i>
home lawn		yellow patch	<i>Rhizoctonia cerealis</i>

Vegetables & Herbs, Diseases, Bacterial

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
cucumber	<i>Cucumis sativus</i>	angular leaf spot	<i>Pseudomonas syringae</i> pv. <i>lachrymans</i>
daikon	<i>Raphanus sativus</i>	common scab	<i>Streptomyces scabies</i>
potatoes 'Chieftain'	<i>Solanum tuberosum</i>	bacterial soft rot	<i>Erwinia carotovora</i> pv. <i>carotovora</i>

Vegetables & Herbs, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
garlic	<i>Allium sativum</i>	basal rot	<i>Fusarium culmorum</i>
kohlrabi	<i>Brassica oleracea</i>	clubroot	<i>Plasmodiophora brassicae</i>
bok choy	<i>Brassica</i> sp.	clubroot	<i>Plasmodiophora brassicae</i>
lettuce	<i>Lactuca sativa</i>	damping off	<i>Pythium</i> sp.
lettuce	<i>Lactuca sativa</i>	downy mildew	<i>Bremia lactucae</i>
potatoes	<i>Solanum tuberosum</i>	early blight	<i>Alternaria solani</i>
lemon cucumber	<i>Cucumis sativus</i>	Fusarium root rot	<i>Fusarium</i> sp.
globe artichoke	<i>Cynara scolymus</i>	Fusarium root/stem rot	<i>Fusarium</i> sp.
tomato 'Sweet Million'	<i>Lycopersicon esculentum</i>	gray mold	<i>Botrytis cinerea</i>
tomatoes	<i>Lycopersicon esculentum</i>	late blight	<i>Phytophthora infestans</i>
tomato	<i>Lycopersicon esculentum</i>	leaf mold	<i>Fulvia fulva</i>

potatoes 'Chieftain'	<i>Solanum tuberosum</i>	leak	<i>Pythium</i> sp.
pumpkin 'Jackpot'	<i>Cucurbita pepo</i>	powdery mildew	<i>Erysiphe cichoracearum</i>
pumpkin	<i>Cucurbita</i> sp.	Verticillium wilt	<i>Verticillium</i> sp.
potato	<i>Solanum tuberosum</i>	Verticillium wilt	<i>Verticillium</i> sp.

Vegetables & Herbs, Diseases, Viral

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
tomato	<i>Lycopersicon esculentum</i>	beet curly top virus	beet curly top virus
tomatoes	<i>Lycopersicon esculentum</i>	tomato spotted wilt	tomato spotted wilt

Field Crops, Diseases, Fungal

<u>Host</u>	<u>Latin Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
California brome seed	<i>Bromus carinatus</i>	smut	<i>Ustilago</i> sp.

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