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**APHIS Lists of Proven Hosts of and Plants Associated with  
*Phytophthora ramorum***

September 2022

**Proven Host Plants of *Phytophthora ramorum***

<b>Scientific Name</b>	<b>Common Name(s)</b>	<b>Koch's Postulates Reference</b>
<i>Abies grandis</i> §	Grand fir	LeBoldus et al., 2018
<i>Abies magnifica</i> §	Red fir	Chastagner and Riley, 2010
<i>Acer circinatum</i> §	Vine maple	DiLeo et al., 2008
<i>Acer macrophyllum</i> *	Bigleaf maple	Garbelotto et al., 2003 <sup>†</sup>
<i>Acer pseudoplatanus</i>	Planetree maple	COMTF, October 2006
<i>Adiantum aleuticum</i> *	Western maidenhair fern	Vettraino et al., 2006a
<i>Adiantum jordanii</i> *	California maidenhair fern	Vettraino et al., 2006a
<i>Aesculus californica</i> *	California buckeye	Garbelotto et al., 2003 <sup>†</sup>
<i>Aesculus hippocastanum</i>	Horse chestnut	COMTF, October 2006
<i>Arbutus menziesii</i> *	Madrone	Garbelotto et al., 2003 <sup>†</sup>
<i>Arbutus unedo</i> §	Strawberry tree	Moralejo et al., 2008
<i>Arctostaphylos columbiana</i> §	Hairy manzanita	DiLeo et al., 2008
<i>Arctostaphylos glauca</i> §	Bigberry manzanita	Rooney-Latham et al., 2020
<i>Arctostaphylos hooveri</i> §	Santa Lucia manzanita	Garbelotto et al., 2020
<i>Arctostaphylos manzanita</i> *	Manzanita	DiLeo et al., 2008
<i>Arctostaphylos montereyensis</i> §	Monterey manzanita	Garbelotto et al., 2020
<i>Arctostaphylos morroensis</i> §	Morro manzanita	Garbelotto et al., 2020
<i>Arctostaphylos pilosula</i> §	La Panza manzanita	Garbelotto et al., 2020
<i>Arctostaphylos pumila</i> §	Sandmat manzanita	Garbelotto et al., 2020
<i>Arctostaphylos silvicola</i> §	Silverleaf manzanita	Garbelotto et al., 2020
<i>Arctostaphylos viridissima</i> §	White haired manzanita	Rooney-Latham et al., 2020
<i>Berberis aquifolium</i> § (≡ <i>Mahonia aquifolium</i> )	Oregon grape	Elliott et al., 2021b
<i>Calluna vulgaris</i> *	Scotch heather	C Orlikowski and Szkuta, 2004
<i>Camellia</i> spp.*	Camellia - all species, hybrids and cultivars	Beales et al., 2004a
<i>Castanea sativa</i> *	Sweet chestnut	Denman et al., 2005b
<i>Ceanothus thyrsiflorus</i> §	Blue blossom Ceanothus	DiLeo et al., 2008
<i>Chamaecyparis lawsoniana</i> §	Port Orford cedar	Brasier and Webber, 2012
<i>Chrysolepis chrysophylla</i> §	Golden chinquapin	Rooney-Latham et al., 2022
<i>Cinnamomum camphora</i> *	Camphor tree	Rooney-Latham et al., 2013
<i>Corylus cornuta</i> §	Beaked hazelnut	DiLeo et al., 2008
<i>Fagus sylvatica</i>	European beech	Harris et al., 2021

Scientific Name	Common Name(s)	Koch's Postulates Reference
<i>Frangula californica</i> * (= <i>Rhamnus californica</i> )	California coffeeberry	Garbelotto et al., 2003 <sup>†</sup>
<i>Frangula purshiana</i> * (= <i>Rhamnus purshiana</i> )	Cascara buckthorn	Vettraino et al., 2006b
<i>Fraxinus excelsior</i>	European ash	COMTF, August 2005
<i>Gaultheria procumbens</i> *	Eastern teaberry	Osterbauer et al., 2014
<i>Gaultheria shallon</i> <sup>§</sup>	Salal	Elliott et al., 2021b
<i>Griselinia littoralis</i> *	Kapuka	Giltrap et al., 2007
<i>Hamamelis virginiana</i> *	Witch hazel	Giltrap et al., 2004
<i>Heteromeles arbutifolia</i> *	Toyon	Garbelotto et al., 2003 <sup>†</sup>
<i>Kalmia</i> spp.*	Mountain laurel - all species, hybrids and cultivars	Tooley and Browning, 2009 <sup>†</sup>
<i>Larix × eurolepis</i> <sup>§</sup>	Hybrid larch	Harris and Webber, 2016 <sup>†</sup>
<i>Larix decidua</i> <sup>§</sup>	European larch	Harris et al., 2021 <sup>†</sup>
<i>Larix kaempferi</i> <sup>§</sup>	Japanese larch	Harris and Webber, 2016
<i>Laurus nobilis</i> *	Sweet bay	COMTF, September 2004
<i>Lonicera hispidula</i> *	California honeysuckle	Davidson et al., 2003 <sup>†</sup>
<i>Lophostemon confertus</i> <sup>§</sup>	Brisbane box	Blomquist et al., 2020
<i>Loropetalum chinense</i> <sup>§</sup>	Chinese fringe flower	Blomquist et al., 2012
<i>Magnolia × loebneri</i> <sup>§</sup>	Loebner magnolia	Giltrap et al., 2007
<i>Magnolia doltsopa</i> * (= <i>Michelia doltsopa</i> )	Sweet michelia	COMTF, October 2006
<i>Magnolia stellata</i> <sup>§</sup>	Star magnolia	Giltrap et al., 2007
<i>Maianthemum racemosum</i> * (= <i>Smilacina racemosa</i> )	False Solomon's seal	Hüberli et al., 2005
<i>Notholithocarpus densiflorus</i> (= <i>Lithocarpus densiflorus</i> )*	Tanoak	Hansen et al., 2005
<i>Parrotia persica</i> *	Persian ironwood	Hughes et al., 2006
<i>Phoradendron serotinum</i> subsp. <i>Macrophyllum</i> <sup>§</sup>	Big-leaf mistletoe	Riley and Chastagner, 2011
<i>Photinia × fraseri</i> *	Red tip photinia	Orlikowski and Szkuta, 2004 <sup>‡</sup>
<i>Pieris</i> spp.*	Andromeda, Pieris - all species, hybrids and cultivars	Parke et al., 2004
<i>Prunus laurocerasus</i>	Cherry laurel	Elliott et al., 2020
<i>Pseudotsuga menziesii</i> var. <i>menziesii</i> *	Douglas fir	LeBoldus et al., 2018
<i>Quercus agrifolia</i>	Coast live oak	Rizzo et al., 2002
<i>Quercus cerris</i>	European turkey oak	COMTF, August 2006
<i>Quercus chrysolepis</i>	Canyon live oak	Murphy and Rizzo, 2003
<i>Quercus falcata</i>	Southern red oak	Brasier et al., 2004b;

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<i>Quercus ilex</i> *	Holly oak	Denman et al., 2005a
<i>Quercus kelloggii</i>	California black oak	Garbelotto et al., 2003 <sup>†</sup>
<i>Quercus parvula</i> var. <i>shrevei</i>	Shreve's oak	Rizzo et al., 2002
<i>Rhododendron</i> spp.*	Rhododendron (including azalea) – all species, hybrids and cultivars	Hansen et al., 2005
<i>Rosa gymnocarpa</i> *	Wood rose	Hüberli et al., 2004
<i>Salix caprea</i> *	Goat willow	COMTF, August 2006
<i>Sequoia sempervirens</i> *	Coast redwood	Maloney et al., 2002
<i>Syringa vulgaris</i> *	Lilac	Beales et al., 2004b
<i>Taxus baccata</i> *	English yew	Lane et al., 2004
<i>Trientalis latifolia</i> *	Western starflower	Hüberli et al., 2003 <sup>†</sup>
<i>Umbellularia californica</i> *	California bay laurel	DiLeo et al., 2009
<i>Vaccinium myrtillus</i> §	Whortleberry	Herrero et al., 2011
<i>Vaccinium parvifolium</i> §	Red huckleberry	Elliott et al., 2021b
<i>Vaccinium ovatum</i> *	Evergreen huckleberry	Hansen et al., 2005
<i>Viburnum</i> spp.*	Viburnum – all species, hybrids and cultivars	Parke et al., 2004
<i>Vinca minor</i> §	Periwinkle	Elliott et al., 2021a

§New additions to the proven host list

\*Unmanufactured wood and wood products, including firewood, logs, and lumber of species listed above are **not** regulated. See [Federal Regulations, 7 CFR 301.92 - 301.92-2](#).

### Plants Associated with *Phytophthora ramorum*

(These are regulated only as nursery stock.)

Scientific Name	Common Name	Reference
<i>Abies alba</i> §	Silver fir	O'Hanlon et al., 2016
<i>Abies concolor</i>	White fir	COMTF, October 2005
<i>Abies procera</i> §	Noble fir	O'Hanlon et al., 2016
<i>Acer davidii</i>	Striped bark maple	COMTF, 2006
<i>Acer laevigatum</i>	Evergreen Maple	USDA-APHIS, 2005
<i>Alnus cordata</i>	Italian alder	O'Hanlon et al., 2016
<i>Arctostaphylos glandulosa</i> §	Eastwood's manzanita	Rooney-Latham et al., 2017
<i>Arctostaphylos montaraensis</i> §	Montara manzanita	COMTF, April 2020; Rooney-Latham, Confirmed
<i>Arctostaphylos pallida</i> §	Pallid manzanita	Swiecki and Bernhardt, 2017
<i>Arctostaphylos peninsularis</i> §	Peninsular manzanita	COMTF, April 2020; Rooney-Latham, Confirmed
<i>Arctostaphylos rainbowensis</i> §	Rainbow manzanita	COMTF, April 2020

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<i>Arctostaphylos uva-ursi</i>	Kinnikinnick,	COMTF, February 2020
<i>Arctostaphylos virgata</i> <sup>§</sup>	Bolinas manzanita	Rooney-Latham et al., 2017
<i>Arctostaphylos viscida</i> <sup>§</sup>	Whiteleaf manzanita	COMTF, April 2020; Rooney-Latham, Confirmed 2022
<i>Ardisia japonica</i>	Marlberry	CFIA Confirmed Positive Plants, 2005
<i>Berberis nervosa</i> (≡ <i>Mahonia nervosa</i> )	Creeping Oregon grape	COMTF, June 2010
<i>Betula pendula</i>	Silver birch	Webber et al., 2010
<i>Calycanthus occidentalis</i>	Spicebush	COMTF, July 2005
<i>Castanopsis orthacantha</i>	Castanopsis	COMTF, September 2006
<i>Ceanothus oliganthus</i> <sup>§</sup>	Hairy ceanothus	Rosenthal et al, 2021
<i>Cercis chinensis</i> <sup>§</sup>	Chinese redbud	COMTF, May 2008
<i>Choisya ternata</i> <sup>§</sup>	Mexican orange blossom	APHIS Confirmed Positive Plants, 2013
<i>Clintonia andrewsiana</i>	Andrew's clintonia	COMTF, August 2004
<i>Cornus kousa</i> × <i>Cornus capitata</i>	Norman Haddon dogwood	EPPO, 2013
<i>Cornus capitata</i> <sup>§</sup>	Bentham's cornel	DEFRA, 2015
<i>Cornus kousa</i> <sup>§</sup>	Kousa dogwood	APHIS Confirmed Positive Plants, 2012
<i>Corylopsis spicata</i> <sup>§</sup>	Spike winter hazel	COMTF, February 2008
<i>Daphniphyllum glaucescens</i> <sup>§</sup>		COMTF, March 2009
<i>Distylium myricoides</i>	Myrtle-leaved Distylium	COMTF, September 2006
<i>Drimys winteri</i>	Winter's bark	Brasier et al., 2004a
<i>Dryopteris arguta</i>	California wood fern	COMTF, August 2004
<i>Eucalyptus haemastoma</i>	Scribbly gum	COMTF, September 2006
<i>Euonymus kiautschovicus</i>	Spreading euonymus	COMTF, 2006
<i>Fothergilla major</i> <sup>§</sup>	Mountain witch alder	DEFRA, 2015
<i>Fraxinus latifolia</i>	Oregon ash	COMTF, September 2005;
<i>Garrya elliptica</i> <sup>§</sup>	Silk tassel bush	COMTF, August 2007;
<i>Hamamelis</i> × <i>intermedia</i> ( <i>H. mollis</i> & <i>H. japonica</i> )	Hybrid witchhazel	APHIS Confirmed Positive Plants, 2012;
<i>Hamamelis mollis</i>	Chinese witchhazel	COMTF, February 2005
<i>Hydrangea seemannii</i> <sup>§</sup>	Seemann's hydrangea	DEFRA, 2015
<i>Ilex aquifolium</i> <sup>§</sup>	European holly	EPPO, 2013
<i>Ilex cornuta</i>	Chinese holly	APHIS Confirmed Positive Plants, 2009
<i>Ilex latifolia</i> <sup>§</sup>	Tarajo holly	DEFRA, 2015
<i>Ilex purpurea</i>	Oriental holly	COMTF, September 2006
<i>Illicium parviflorum</i>	Swamp star anise	APHIS Confirmed Positive Plants, 2009
<i>Larix occidentalis</i> <sup>§</sup>	Western larch	LeBoldus and Søndreli, 2019
<i>Leucothoe axillaris</i>	Fetterbush, doghobble	COMTF, April 2006

Scientific Name	Common Name	Reference
<i>Leucothoe fontanesiana</i>	Highland doghobble	O'Hanlon et al., 2016
<i>Lithocarpus glaber</i> <sup>§</sup>	Japanese oak	DEFRA, 2015
<i>Lonicera periclymenum</i>	Common honeysuckle	Canadian Food Inspection Agency, 2022
<i>Magnolia × soulangeana</i>	Saucer magnolia	COMTF, February 2005
<i>Magnolia × thompsoniana</i> <sup>§</sup>	hybrid magnolia	COMTF, April 2008
<i>Magnolia acuminata</i> <sup>§</sup>	Cucumber tree	DEFRA, 2015
<i>Magnolia cavaleriei</i> <sup>§</sup>		CFIA Confirmed Positive Plants, 2006
<i>Magnolia delavayi</i> <sup>§</sup>	Delavay's magnolia	DEFRA, 2015
<i>Magnolia denudata</i>	Yulan magnolia	EPPO, 2013
<i>Magnolia denudata</i> × <i>salicifolia</i> <sup>§</sup>	Magnolia	EPPO, 2013
<i>Magnolia ernestii</i> (= <i>Michelia wilsonii</i> )	Michelia	COMTF, March 2006
<i>Magnolia figo</i> <sup>§</sup> (= <i>Michelia figo</i> )	Banana shrub	COMTF, May 2008
<i>Magnolia foveolata</i> <sup>§</sup>		EPPO, 2013
<i>Magnolia grandiflora</i>	Southern magnolia	COMTF, June 2006
<i>Magnolia insignis</i> (≡ <i>Manglietia insignis</i> )	Red lotus tree	COMTF, September 2006
<i>Magnolia kobus</i> <sup>§</sup>	Kobus magnolia	EPPO, 2013
<i>Magnolia liliiflora</i> <sup>§</sup>	Lily magnolia	EPPO, 2013
<i>Magnolia lotungensis</i> (≡ <i>Parakmeria lotungensis</i> )	Eastern joy lotus tree	COMTF, September 2006
<i>Magnolia maudiae</i> (≡ <i>Michelia maudiae</i> )	Smiling monkey forest tree	Sansford and Woodhall, 2007
<i>Magnolia salicifolia</i> <sup>§</sup>	Anise magnolia	EPPO, 2013
<i>Molinadendron sinaloense</i>		APHIS Confirmed Positive Plants, 2011
<i>Nerium oleander</i>	Oleander	O'Hanlon et al., 2016
<i>Nothofagus obliqua</i>	Patagonian oak	Brasier et al., 2004a
<i>Osmanthus decorus</i> (≡ <i>Phillyrea decora</i> ; = <i>P. vilmoriniana</i> )	Osmanthus	COMTF, March 2006
<i>Osmanthus delavayi</i>	Delavay tea olive	COMTF, February 2007
<i>Osmanthus fragrans</i>	sweet olive	Grünwald et al., 2008
<i>Osmanthus heterophyllus</i>	Holly olive	Grünwald et al., 2008
<i>Osmorhiza berteroi</i>	Sweet Cicely	COMTF, September 2005
<i>Physocarpus opulifolius</i> <sup>§</sup>	Ninebark	COMTF, February 2008
<i>Picea sitchensis</i> <sup>§</sup>	Sitka spruce	LeBoldus and Søndreli, 2019
<i>Pickeringia montana</i> <sup>§</sup>	Chaparral pea	Rooney-Latham et al., 2017
<i>Pinus ponderosa</i> <sup>§</sup>	Ponderosa Pine	Rosenthal et al., 2021
<i>Pittosporum undulatum</i>	Victorian box	Hüberli et al., 2006

Scientific Name	Common Name	Reference
<i>Polystichum munitum</i> <sup>§</sup>	Western Swordfern	APHIS Confirmed Positive Plants, 2022
<i>Prunus lusitanica</i>	Portuguese laurel cherry	O'Hanlon et al., 2016
<i>Pyracantha koidzumii</i>	Formosa firethorn	Briere et al., 2005
<i>Quercus acuta</i>	Japanese evergreen oak	EPPO, 2013
<i>Quercus petraea</i>	Sessile oak	COMTF, September 2005
<i>Quercus phillyraeoides</i> <sup>§</sup>	Ubame oak	O'Hanlon et al., 2016
<i>Quercus robur</i> <sup>§</sup>	English oak	DEFRA, 2015
<i>Quercus rubra</i>	Northern red oak	EPPO, 2013
<i>Ribes laurifolium</i> <sup>§</sup>	Evergreen Flowering Currant	EPPO, 2013
<i>Rosa</i> (specific cultivars) Royal Bonica ("MEI modac") Pink Meidiland ("MEI poque") Pink Sevillana ("MEI geroka")	Royal Bonica rose Pink Meidiland rose Pink La Sevillana rose	EPPO, 2013;
<i>Rosa hybrida</i> 'Radrazz' <sup>§</sup>	Knock Out rose	APHIS Confirmed Positive Plants, 2019
<i>Rosa rugosa</i>	Rugosa rose	COMTF, March 2006
<i>Rubus spectabilis</i>	Salmonberry	Hansen et al., 2005
<i>Rubus ursinus</i> <sup>§</sup>	California blackberry	Rooney-Latham et al., 2017
<i>Salix babylonica</i>	Weeping willow	Canadian Food Inspection Agency 2007,
<i>Sarcococca hookeriana</i> <sup>§</sup>	Himalayan sweet box	Schlenzig et al., 2015
<i>Schima argentea</i> <sup>§</sup>		Brown and Brasier, 2007
<i>Schima wallichii</i>	Chinese guger tree	COMTF, February 2007
<i>Sorbus aucuparia</i> <sup>§</sup>	European mountain ash	DEFRA, 2015
<i>Syringa meyeri</i> <sup>§</sup>	Meyer lilac	APHIS Confirmed Positive Plants, 2019
<i>Syringa pubescens</i> <sup>§</sup>	Lilac	APHIS Confirmed Positive Plants, 2019
<i>Taxus × media</i>	Anglo-Japanese yew	De Gruyter and Steeghs, 2006
<i>Taxus brevifolia</i>	Pacific yew	COMTF, September 2005
<i>Torreya californica</i>	California nutmeg	COMTF, September 2005
<i>Toxicodendron diversilobum</i>	Poison oak	Hansen et al., 2005
<i>Trachelospermum jasminoides</i>	Star jasmine	Osterbauer et al., 2011
<i>Tsuga heterophylla</i> <sup>§</sup>	Western hemlock	LeBoldus and Søndreli, 2019
<i>Vaccinium intermedium</i> <sup>§</sup>		DEFRA, 2015
<i>Vaccinium vitis-idaea</i> <sup>§</sup>	Lingonberry	EPPO, 2013
<i>Vancouveria planipetala</i>	Redwood ivy	COMTF, September 2005
<i>Veronica spicata</i> (= <i>Pseudolysimachion spicatum</i> )	Spiked speedwell	APHIS Confirmed Positive Plants, 2010

<sup>§</sup>New additions to the associated plant list