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

September 2022

Proven Host Plants of *Phytophthora ramorum*

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

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

Scientific Name	Common Name(s)	Koch's Postulates Reference
*Quercus ilex**	Holly oak	Denman et al., 2005a
Quercus kelloggii	California black oak	Garbelotto et al., 2003†
Quercus parvula var. *shrevei*	Shreve's oak	Rizzo et al., 2002
Rhododendron spp.*	Rhododendron (including azalea) – all species, hybrids and cultivars	Hansen et al., 2005
*Rosa gymnocarpa**	Wood rose	Hüberli et al., 2004
*Salix caprea**	Goat willow	COMTF, August 2006
*Sequoia sempervirens**	Coast redwood	Maloney et al., 2002
*Syringa vulgaris**	Lilac	Beales et al., 2004b
*Taxus baccata**	English yew	Lane et al., 2004
*Trientalis latifolia**	Western starflower	Hüberli et al., 2003†
*Umbellularia californica**	California bay laurel	DiLeo et al., 2009
Vaccinium myrtillus§	Whortleberry	Herrero et al., 2011
Vaccinium parvifolium§	Red huckleberry	Elliott et al., 2021b
*Vaccinium ovatum**	Evergreen huckleberry	Hansen et al., 2005
Viburnum spp.*	Viburnum – all species, hybrids and cultivars	Parke et al., 2004
Vinca minor§	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
Abies alba§	Silver fir	O'Hanlon et al., 2016
Abies concolor	White fir	COMTF, October 2005
Abies procera§	Noble fir	O'Hanlon et al., 2016
Acer davidii	Striped bark maple	COMTF, 2006
Acer laevigatum	Evergreen Maple	USDA-APHIS, 2005
Alnus cordata	Italian alder	O'Hanlon et al., 2016
Arctostaphylos glandulosa§	Eastwood's manzanita	Rooney-Latham et al., 2017
Arctostaphylos montaraensis§	Montara manzanita	COMTF, April 2020; Rooney-Latham, Confirmed
Arctostaphylos pallida§	Pallid manzanita	Swiecki and Bernhardt, 2017
Arctostaphylos peninsularis§	Peninsular manzanita	COMTF, April 2020; Rooney-Latham, Confirmed
Arctostaphylos rainbowensis§	Rainbow manzanita	COMTF, April 2020

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

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

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

§New additions to the associated plant list

Rationale for Lists:

Host Plants Regulated for *P. ramorum:*
Naturally infected associated plants are deemed host plants regulated for *P. ramorum* upon completion, documentation, review, and acceptance of traditional Koch's postulates.

Plants Associated with *P. ramorum*:
Plants associated with *P. ramorum* are naturally infected plants from which *P. ramorum* has been cultured and/or detected using polymerase chain reaction (PCR). Traditional Koch's postulates have not yet been completed nor documented and reviewed for each of these associated plants. These reports must be documented and reviewed by PPQ before they are listed as host plants.

Regulation at the genus level:
Plants included in either of the above lists may be regulated at the genus level. This will ensure appropriate and effective inspection in quarantine areas, regulated nurseries, and regulated articles to mitigate the spread of *P. ramorum*. Examples of this include when the number of individual species, hybrids, or cultivars listed or to be listed are determined to hinder appropriate and effective inspection or regulation; or when sufficient numbers of member species of a genus are known susceptible to the disease-causing organism, all members of that genus have a demonstrable risk of spreading that disease. Thus, to prevent the spread of disease, all members of that genus will be treated the same.

Agency Contact:
William Wesela
National Policy Manager
301-851-2229

Betsy Randall-Schadel
National Operations Manager
919-855-7544

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