

Table of potential invasive pathogens and diseases with susceptible Alaskan host species, presence/absence information and invasive-ranking for Alaska.

Pathogen Name	Disease Name	Host/s Species in Alaska	In Alaska?	Invasive Ranking
<i>Chrysomyxa abietis</i> (Wallr.) Unger	Spruce needle rust	spruce	no	high
<i>Gemmamyces piceae</i> (Borthw.) Casagr.	Spruce bud blight	spruce	yes	high
<i>Phytophthora austrocedrae</i> Gresl. & EM Hansen	Mal del ciprés	yellow-cedar	no	high
<i>Bursaphelenchus xylophilus</i>	Pine wilt nematode	lodgepole pine	no	moderate
<i>Chrysomyxa ledi</i> var. <i>rhododendri</i> (de Bary.) Savile	Rhododendron-spruce needle rust	spruce & rhododendron	no	moderate
<i>Cistella japonica</i> Suto et Kobayashi	Resinous stem canker	yellow-cedar	no	moderate
<i>Didymascella chamaecyparidis</i> (JF Adams.) Maire	Cedar shot hole	yellow-cedar	no	moderate
<i>Lophodermium chamaecyparissi</i> Shir & Hara.	Cedar leaf blight	yellow-cedar	no	moderate
<i>Melampsora larici-tremulae</i> Kleb.	Poplar rust	aspen, larch & pine	no	moderate
<i>Seiridium cardinale</i> (Wagener) Sutton & Gibson	Seiridium shoot blight	yellow-cedar	no	moderate
<i>Erwinia amylovora</i> (Burrill) Winslow	Fire blight	mountain-ash & ornamental fruit trees	yes	low
<i>Phytophthora ramorum</i> Werres deCock Man in't Veld	Sudden oak death	Pacific yew, larch & understory spp. ¹	no	low
<i>Phytophthora alni</i> subsp. <i>uniformis</i> Brasier & SA Kirk	Alder Phytophthora	alder	yes	low ²
<i>Taphrina betulae</i> (Fckl.) Johans.	Birch leaf curl	birch	no	low
<i>Taphrina betulina</i> Rostr.	Birch witches broom	birch	no	low
<i>Valsa hariotii</i>	Valsa canker	aspen, cottonwood, willow	no	low
<i>Phytophthora lateralis</i> Tucker & Milbrath	Phytophthora root disease	Pacific Yew (yellow-cedar v. low)	no	low
<i>Apiosporina morbosae</i> (Schwein.:Fr.) Arx	Black knot	bird cherry (invasive/ornamental)	yes	very low
<i>Cronartium ribicola</i> JC Fisch.	White pine blister rust	white pines (not native, used in landscaping)	yes	very low

¹ Rhododendron, Viburnum, western maidenhair fern, mountain laurel, false Solomon's seal, western star flower, salal, ninebark, salmonberry and Lingon berry. Only hosts native to Alaska that are on the APHIS host list for *P. ramorum* are listed. Susceptibility to *P. ramorum* varies significantly by species/genus and many highly susceptible hosts in CA, OR and WA are not present in AK.

² *P. alni* was detected in Alaska in 2007. High genetic diversity within the pathogen population in AK and lack of damage to native alder species from this pathogen suggest that *P. alni* has long been established and is not an invasive species.