

HAZARD ASSESSMENT SURFACES FOR *PHYTOPHTHORA ALNI* SUBSP. *ALNI*

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ABSTRACT

Special acknowledgements go to Dr. Thomas Jung for his contributions in assessing the hazard of *Phytophthora alni* in the conterminous United States. His knowledge, expertise, and intelligent reasoning contributed greatly to this project and guided our assumptions in modeling the hazards. We wish to recognize one specific difference in our model assumptions: the hazard from planting alder in the U.S. may be manifested differently than in Europe. It seems more likely that the hazard will come from nurseries receiving infested plants and the delivery of infested plants to the general population, not from direct planting of alder in natural forests.

Phytophthora alni subspecies *alni* (PAA) is currently present throughout Europe and spreading. The potential

susceptibility for *P. alni* was mapped for the conterminous United States in 1-km² units by the U.S. Forest Service, Forest Health Technology Enterprise Team's (FHTET) PAA Invasive Species Steering Committee. The map is intended for use in developing a detection strategy for monitoring PAA.

Assumptions in developing the susceptibility product included the following: (1) *Alnus* species in North America are susceptible to PAA, (2) PAA can be transported into the United States on either host or non-host bare root stock, (3) PAA introduction will most likely occur at nurseries or through horticultural plantings in or near municipalities, (4) *Alnus* species will be highly susceptible to PAA on sites that tend to be wet.