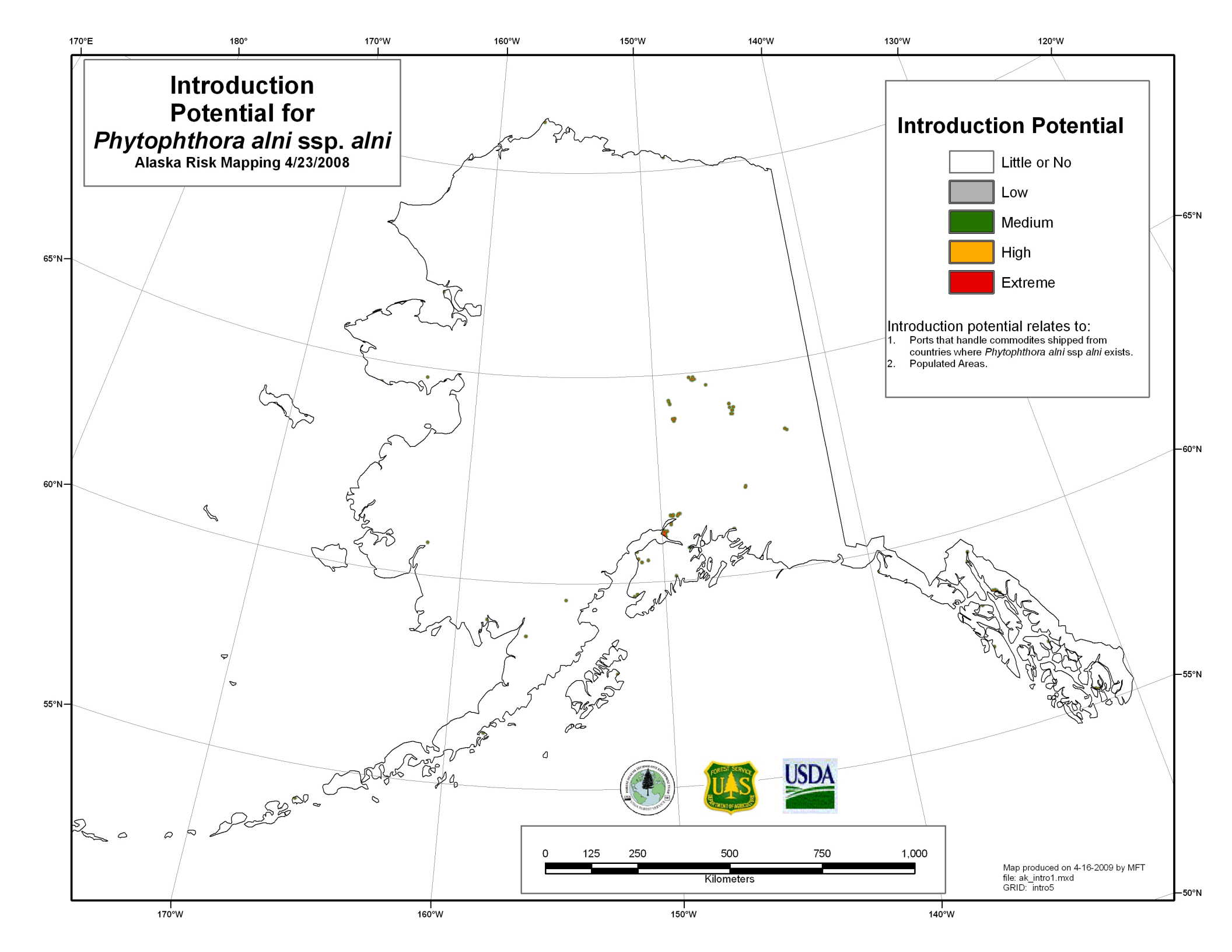
Introduction Potential for *Phytophthora alni* ssp. *alni*
Alaska Risk Mapping 4/23/2008
Introduction Potential
Little or No
Low
Medium
High
Extreme
Introduction potential relates to:
1. Ports that handle commodites shipped from countries where *Phytophthora alni* ssp *alni* exists.
2. Populated Areas.
170°E
180°
170°W
160°W
150°W
140°W
130°W
120°W
65°N
60°N
55°N
50°N
0 125 250 500 750 1,000
Kilometers
Map produced on 4-16-2009 by MFT
file: ak_intro1.mxd
GRID: intro5

Summary of Introduction Potential for *Phytophthora alni* ssp. *alni:* April 23, 2008
Website URL: http://www.fs.fed.us/foresthealth/technology/invasives_phytophthoraalinalni-riskmaps.shtml

The Introduction Potential Surface for *Phytophthora alni* ssp. *alni* (*PAA*) was produced for the State of Alaska in 1 square kilometer (km^2) units by the U.S. Forest Service, Forest Health Technology Enterprise Team's (FHTET) Invasive Species Steering Committee (Table 1). The product's intended use, in conjunction with the Establishment Potential Surface, is to develop a Susceptibility Potential Surface for *PAA.* Supporting information was provided by *Dr. Thomas Jung and the Exotic Forest Pest (ExFor) website (http://spfnic.fs.fed.us/exfor/). Two primary datasets with standardized values from 0 to 10 were used as variables in the analysis. The data sets are: 1) plant nurseries, and 2) metropolitan areas. Nurseries and metropolitan areas were buffered by 6 km and assigned a weight base upon the buffered distance (Table 2). Finally, nurseries and metropolitan areas were combined into a maximum overlay. These data are grouped into five classes.

Plant Nurseries: Source: ReferenceUSA database. ReferenceUSA is an online, proprietary database offered by the InfoUSA company. It contains detailed records on more than 13 million businesses. Documentation/metadata is not available. Using the business address information contained in ReferenceUSA database, these data were geocoded. Geocoding was made possible with data provided by TeleAtlas. Additional plant nursery addresses were provided by Lori Trummer. These additional nursery addresses were geocoded and pooled with the ReferenceUSA database.

Metropolitan Areas: Source: Environmental Research Institute (ESRI) in Redlands, California, World at Night (**Imhoff et al. 1997) represents a nighttime view of the Earth produced by mosaicking Defense Meteorological Satellite Program (DMSP) Operational Linescan System (OLS) satellite images. This system was originally designed to view clouds by moonlight and to map the locations of permanent lights on the Earth's surface. These data are derived from nine months of observations superimposed on a darkened land surface. ESRI georeferenced these data to a real-world coordinate system.

Table 1

Steering Committee

Marla C. Downing, FHTET Lead
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Table 2

Introduction distance and Values

Distance in Meters	Class
0 - 2000	Extreme
2001 - 3000	High
3001 - 5000	Medium
5001 - 6000	Low
gt 6001	Little or No

Point of Contact
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Contractor Support
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**Imhoff M. L., Lawrence, W. T., Stutzer, C.S., and Elvidge, C.D., 1997. *Remote Sensing and Environ* 61:361-379