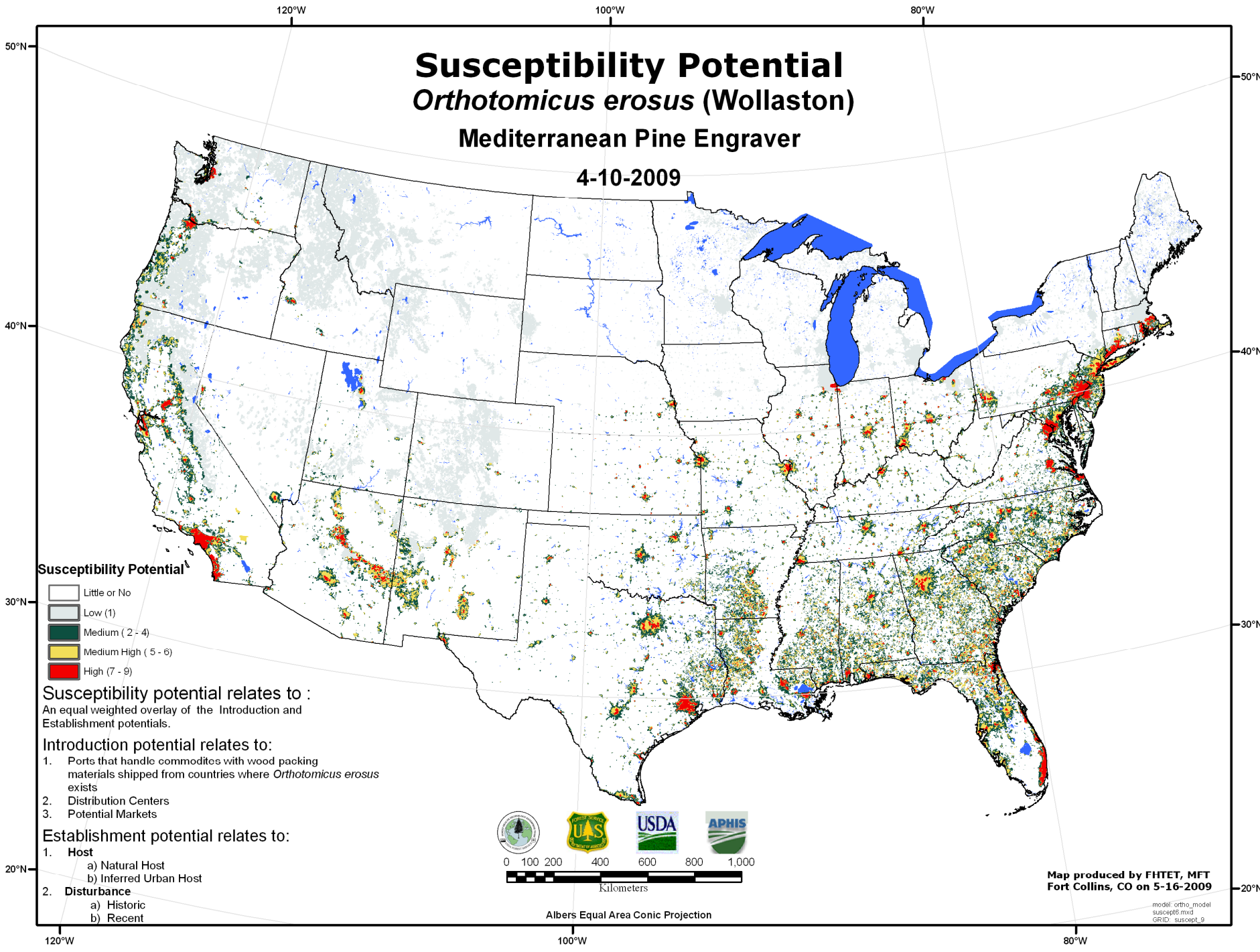


# Susceptibility Potential *Orthotomicus erosus* (Wollaston)

## Mediterranean Pine Engraver

4-10-2009



### Susceptibility Potential

- Little or No
- Low (1)
- Medium (2 - 4)
- Medium High (5 - 6)
- High (7 - 9)

### Susceptibility potential relates to :

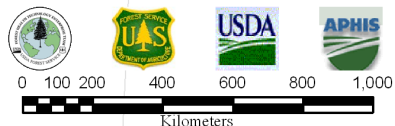
An equal weighted overlay of the Introduction and Establishment potentials.

### Introduction potential relates to:

1. Ports that handle commodities with wood packing materials shipped from countries where *Orthotomicus erosus* exists
2. Distribution Centers
3. Potential Markets

### Establishment potential relates to:

1. **Host**
  - a) Natural Host
  - b) Inferred Urban Host
2. **Disturbance**
  - a) Historic
  - b) Recent



Albers Equal Area Conic Projection

Map produced by FHTET, MFT  
Fort Collins, CO on 5-16-2009

model: ortho\_model  
suscept6.mxd  
GRID: suscept\_9

**Summary of Susceptibility Potential for *Orthotomicus erosus* (Wollaston):  
Mediterranean Pine Engraver; April 10, 2009**

**Website URL: [http://www.fs.fed.us/foresthealth/technology/invasives\\_orthotomicuserosus\\_riskmaps.shtml](http://www.fs.fed.us/foresthealth/technology/invasives_orthotomicuserosus_riskmaps.shtml)**

The Susceptibility Potential Surface for *Orthotomicus erosus* (*O. erosus*) was produced for the Conterminous United States (CUS) in 1 square kilometer (km<sup>2</sup>) 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 is to develop a detection strategy for *O. erosus*. Supporting information was taken from the Exotic Forest Pest (ExFor) website (<http://spfnic.fs.fed.us/exfor/>). The Susceptibility Potential Surface was produced by combining the *O. erosus* Introduction and Establishment Potential Surfaces in an equal-weighted overlay. Table 2 shows that 150,410,900 hectares of forest are susceptible to attack from *O. erosus*. The datasets used in the introduction and establishment analyses can be seen in Tables 3 and 4, respectively.

**Table 1**

**Steering Committee Members**

Marla C. Downing, FHTET Lead  
Daniel M. Borchert, APHIS PPQ  
Frank H. Koch, USFS SRS  
Frank J. Krist Jr., USFS FHTET  
Frank J. Sapio, USFS FHTET  
Bill D. Smith, USFS SRS  
Steven J. Seybold, USFS, PSW  
Borys M. Tkacz, USFS FHP  
Robert C. Venette USFS NRS

**Table 3**

Introduction Variables

<b>Variables</b>
Ports
Markets
Distributions Centers

**Point of Contact**

Marla C. Downing  
Forest Health Technology Enterprise Team (FHTET)  
Forest Health Protection  
USDA Forest Service  
2150 Centre Avenue, Bldg A, Suite 331  
Fort Collins, CO 80526-8121  
Phone: 970-295-5843  
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**Table 2** Summary of Susceptibility Potential for *O. erosus*

Category	Number of km <sup>2</sup> Grid Cells	Hectares	Percent
Low	760,491	76,049,100	50.56
Medium	540,544	54,054,400	35.94
Medium High	165,997	16,599,700	11.04
High	37,077	3,707,700	2.47
<b>Total</b>	<b>1,504,109</b>	<b>150,410,900</b>	<b>100.00</b>
<i>Little or No</i>	<i>6,285,815</i>	<i>628,581,500</i>	

**Table 4**

Establishment Variables

<b>Variables</b>
<b>Host</b>
a) Natural Host
b) Inferred Urban Host
<b>Disturbance</b>
a) Historic
b) Recent

**Contractor Support**

Michael F. Tuffly