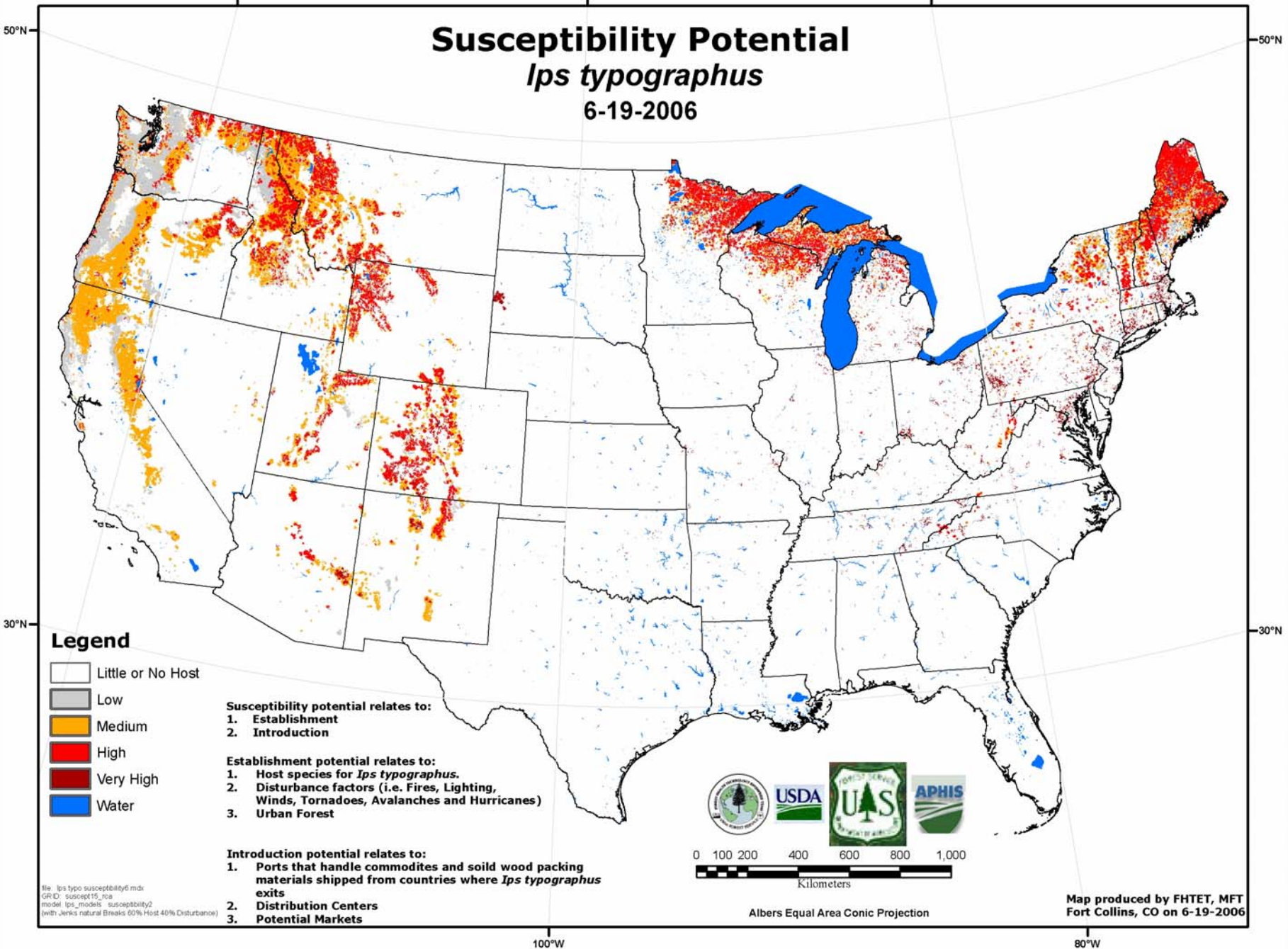


# Susceptibility Potential

*Ips typographus*

6-19-2006



**Legend**

- Little or No Host
- Low
- Medium
- High
- Very High
- Water

file: ips typographus susceptibility6.mxd  
GRID: suscept15\_roa  
model: ips\_models\_susceptibility2  
(with Jenks natural Breaks 80% Host 40% Disturbance)

**Summary of Susceptibility Potential for *Ips typographus* June 20, 2006 Website**  
**URL: <http://www.fs.fed.us/foresthealth/technology/products.shtml>**

The Susceptibility Potential Surface for *Ips typographus* 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 *Ips typographus*. Supporting information was taken from Exotic Forest Pest (ExFor) website (<http://spfnic.fs.fed.us/exfor/>). The Susceptibility Potential Surface was produced by combining the *Ips typographus* Introduction and Establishment Potential Surfaces in a final equal weighted overlay. Table 3 shows that 81,731,700 hectares of forest are susceptible to attack from *Ips typographus*. The datasets used in the Introduction and Establishment analyses, as well as the assigned arithmetic weights for each, can be seen in Tables 2 and 4, respectively.

**Table 1**

**Steering Committee Members**

Marla C. Downing, FHTET Lead  
 C. Wayne Berisford, U of G  
 Daniel M. Borchert, APHIS PPQ  
 Donald A. Duerr, USFS R8  
 Tom Eager, USFS R2  
 Robert A. Haack, USFS NRCS  
 Frank H. Koch, USFS SRS  
 Frank J. Krist Jr., USFS FHTET  
 Frank J. Sapio, USFS FHTET  
 Bill D. Smith, USFS SRS  
 Borys M. Tkacz, USFS FHP

**Table 2**

Introduction Variables and Arithmetic Weights

Variables	Weight
Principal Ports	33.33%
Markets	33.33%
Distribution Centers	33.33%

**Table 3** Summary of Susceptibility Potential for *Ips typographus*.

Category	Number of km <sup>2</sup> Grid Cells	Hectares	Percent
Low	152,453	15,245,300	18.65
Medium	326,124	32,612,400	39.90
High	294,668	29,466,800	36.05
Very High	44,072	4,407,200	5.39
<b>Total</b>	<b>817,317</b>	<b>81,731,700</b>	<b>100</b>
<i>Little or No</i>	<i>6,972,607</i>	<i>697,260,700</i>	

**Table 4** Establishment Datasets and Arithmetic Weights.

Variables	Weight
Disturbance	40%
Host Species	60%

**Point of Contact**

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