

TWISTS AND TURNS IN MAPPING EAB IN OHIO

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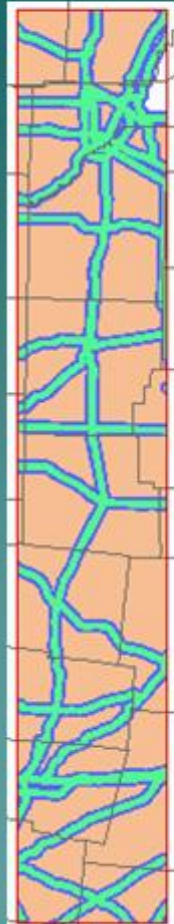
sydnor.1

Considered Risks

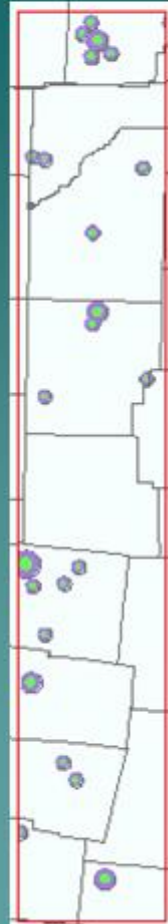
Base,
BA Ash



Roads



Campgrounds



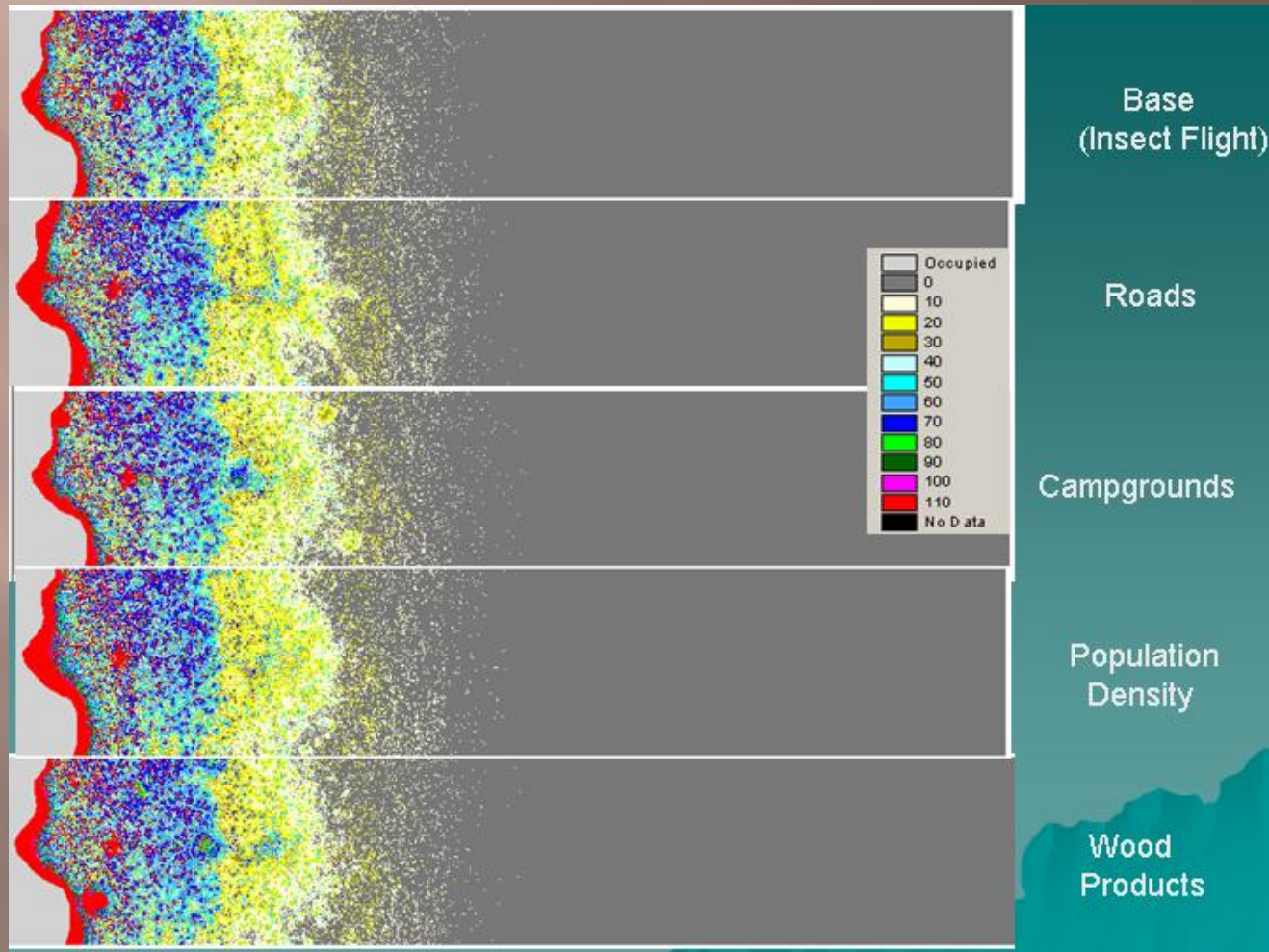
Population
Density



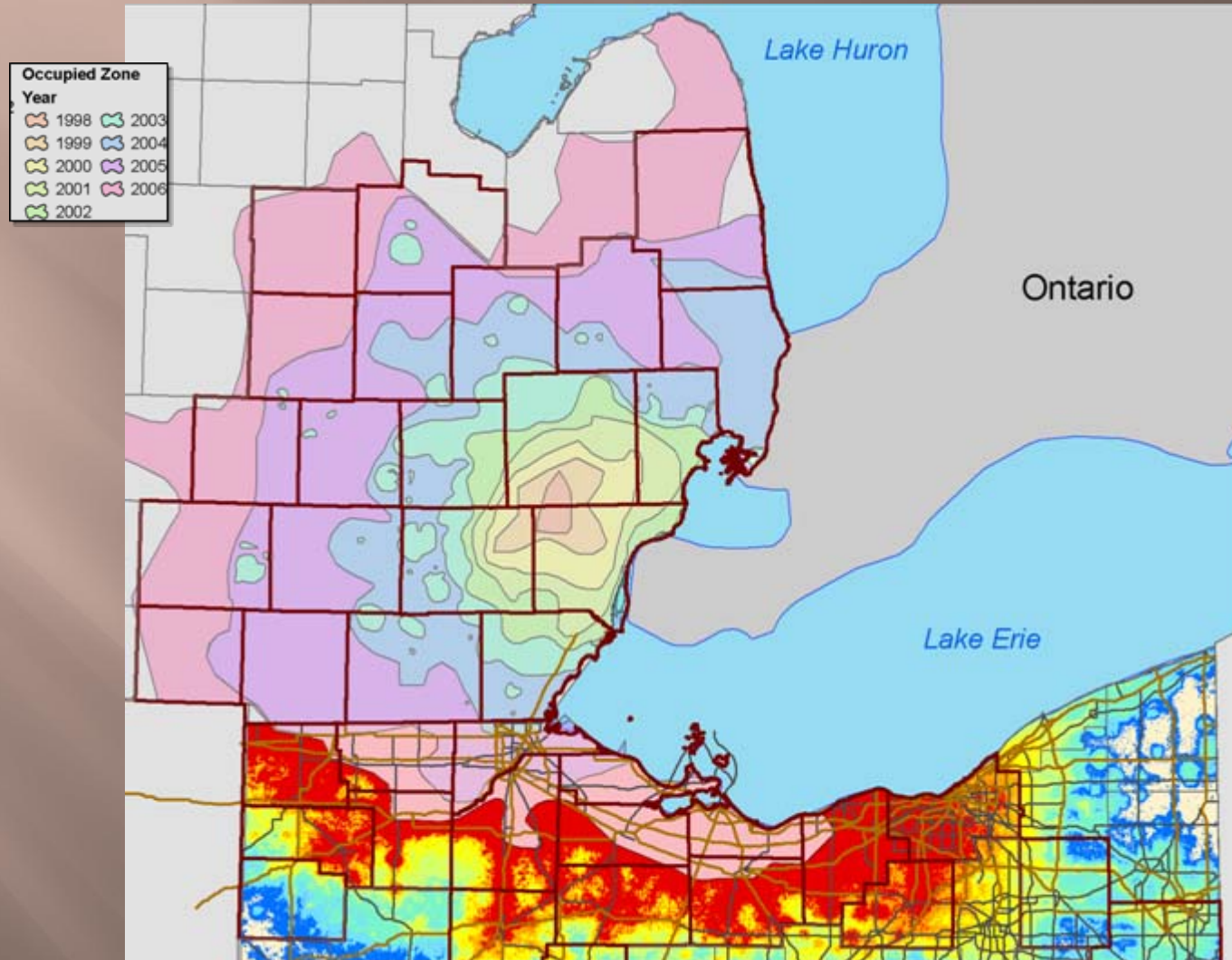
Wood
Products



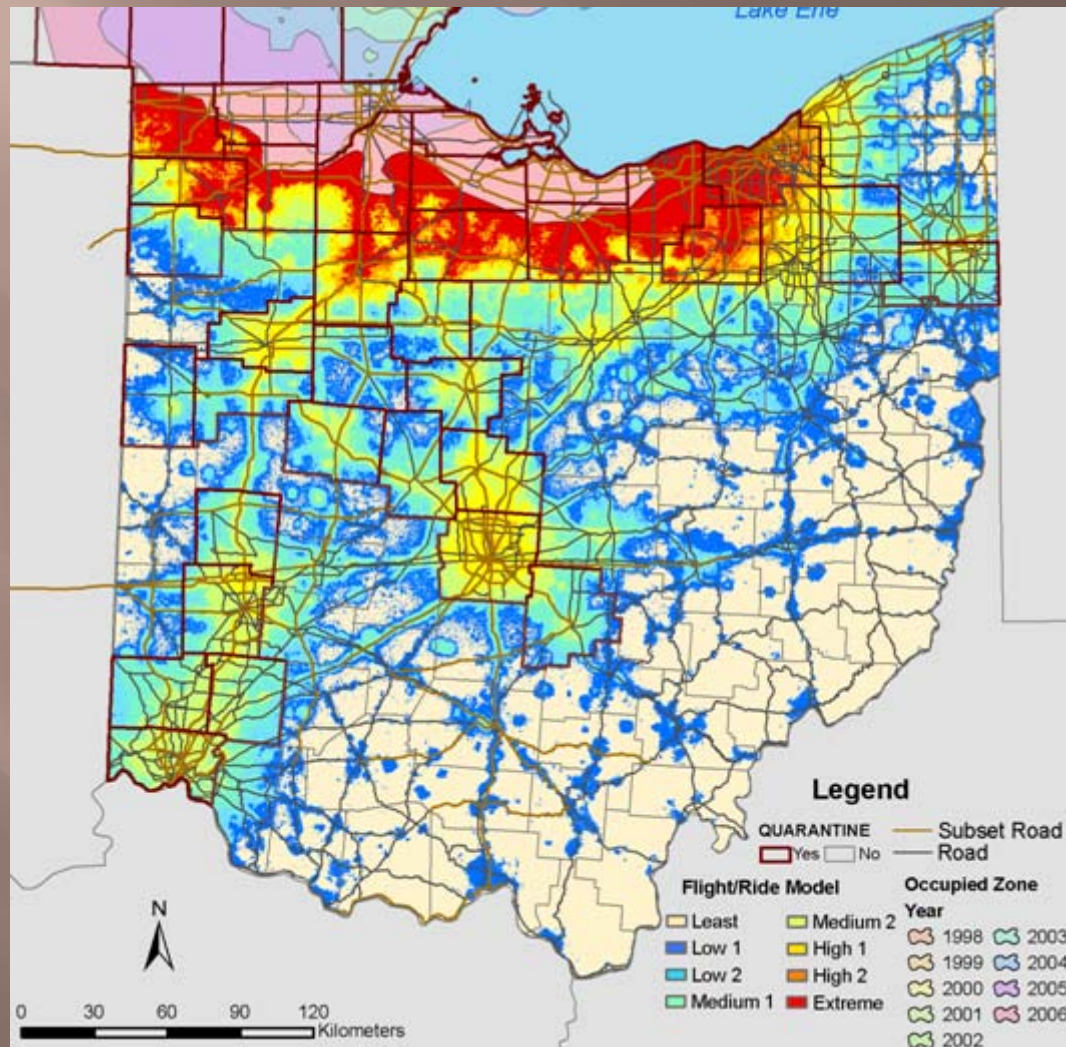
Risk x Layer



Generally Infested Area 2006



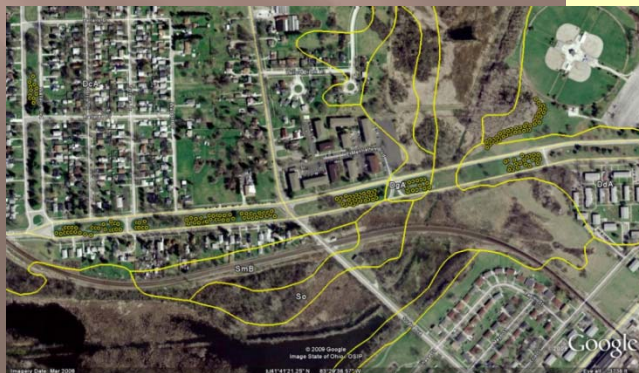
2006 Modeled Areas of Risk



EAB Resistance



Soil Type and EAB Resistance



Ohio Ash Density Study

ITEM	Street Tree Ash	Park Ash	Private Ash
Median ash /1,000 residents	8.71	2.89	76.92
Mean ash / 1,000 residents	20.50	38.28	320.92
Number of Responses	63	58	47
Tree Totals ^y (Median based)	98,885	32,811	873,284
Tree Totals ^z (Mean based)	232,739	438,598	3,643,450

^z Mean based totals = mean trees per 1,000 residents/ (Ohio population/1,000 residents)

^y Median based totals = median trees per 1,000 residents/ (Ohio population /1,000 residents)

Midwest Ash Density Survey

ITEM	Street Tree Ash	Park Ash	Private Ash
Median ash / 1,000 residents	51.4	8.4	156.1
Mean / 1,000 residents	60.0	29.9	331.7
Number of Responses	111	97	70
Four-state Tree Totals ^y (Median-based)	1,737,441	283,940	5,276,546
Four-state Tree Totals ^z (Mean-based)	2,028,141	1,010,690	11,212,238

^z Mean-based totals = mean trees per 1,000 residents * (four state population/1,000 residents)

^y Median-based totals = median trees per 1,000 residents * (four state population /1,000 residents)

Loss of Economic Benefits to Toledo Due to Ash Loss

Benefits	Ash Total (X1000)	City Total (X 1000)	Ash Tree \$/tree	City Tree \$/tree
Stormwater	\$553	\$5,150	\$80.61	60.75
Aesthetic/Other	\$383	\$4,758	\$55.79	56.12
Energy	\$396	\$3,954	\$57.69	46.64
Air Quality	\$70	\$674	\$10.17	8.04
CO2	\$54	\$569	\$7.94	6.71
Total Benefits	\$1,454.992	\$15,105.541	\$212.19	178.26