

# Preparing for the Emerald Ash Borer at Kansas State University



Native Range: Russian Far East Mongolia, China, Japan, Korea, Taiwan



#### All species of ash (Fraxinus spp.) attacked by EAB



White ash



Black ash



Green ash



Blue ash

and <u>all horticultural cultivars</u> of these species.

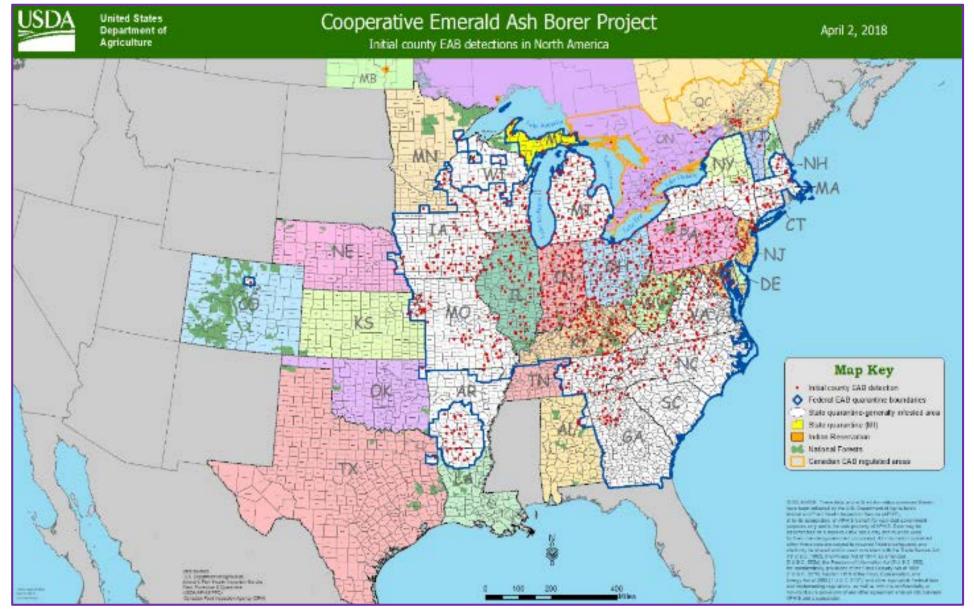
## What's At Risk?

2006 2009



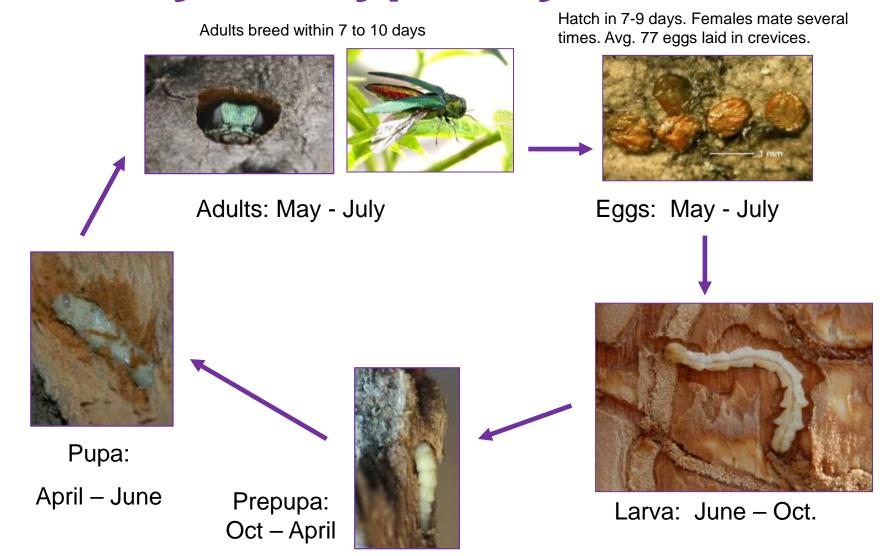


Ash trees lining a street before (left) and after (right) they were decimated by EAB.

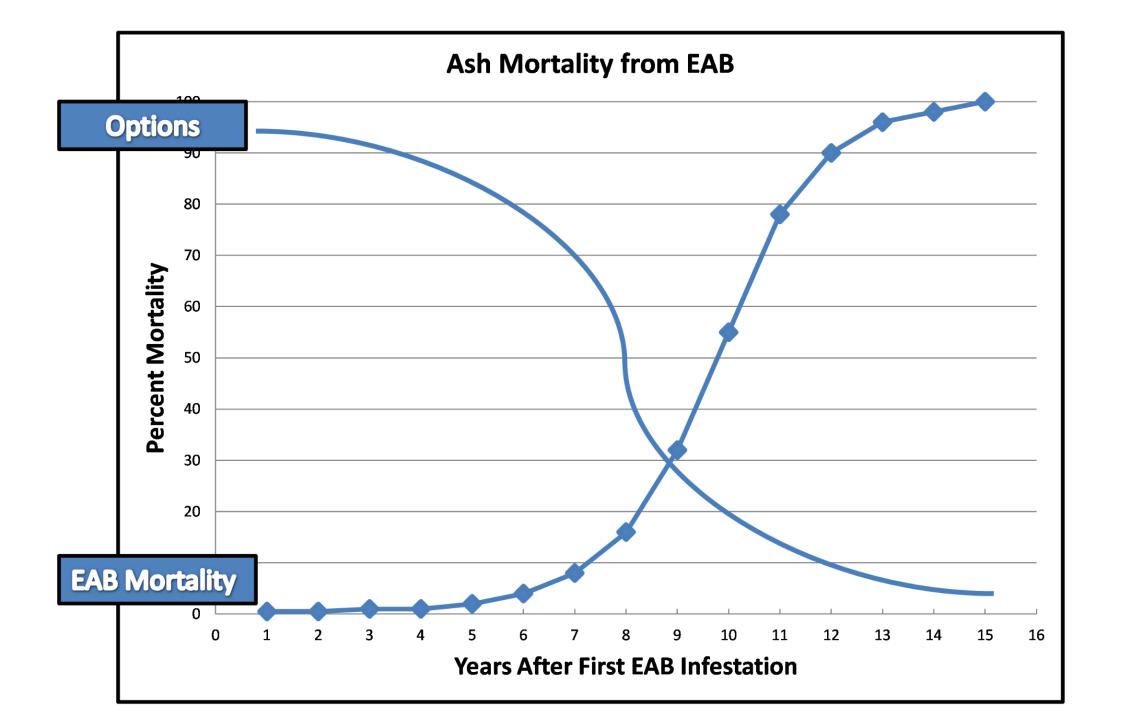


31 States + D.C. Initial detection in SE Michigan near Detroit, Summer 2002 Wyandotte, Johnson, Leavenworth, Douglas, Jefferson, Atchison, Doniphan, and Shawnee Counties (2012-2017)

# Life Cycle: Typically 1 Gen/Year







#### **K-State Ash Inventories**

Ash Tree Locations - Manhattan

Ash Tree Locations - Polytechnic







Summarized Ash Tree Data Diameter by Range							Inventoried July 17, 2017				
	0 to 5.99"	6" to 11.99"	12" to 17.99"	18" to 23.99"	24" to 29.99"	30" to 35.99"	36" to 41.99"	42" to 47.99"	48+"	Total Trees	Value
Good Condition											
All Ash	3	28	28	13	7		1	1		81	
Est. Value	\$162	\$13,692	\$37,996	\$34,580	\$30,779		\$9,174	\$12,215			\$138,598
Fair Condition											
All Ash	1	24	55	30	9	3				122	
Est. Value	\$36	\$7,824	\$49,775	\$53,190	\$26,379	\$13,137					\$150,341
Poor Condition											
All Ash	5	7	20	12	2					46	
Est. Value	\$90	\$1,141	\$9,040	\$10,644	\$2,932						\$23,847
Dead Ash		1	1							2	\$0
TOTAL	9	60	104	55	18	3	1	1	0	251	\$312,786

#### Summarized Ash Tree Data Polytechnic Campus Inventoried January 19, 2018 Diameter by Range 0 to 6" to 12" to 18" to 24" to 30" to 36" to 42" to Total 48+" Value 5.99" 17.99" 23.99" 29.99" 35.99" 41.99" 47.99" 11.99" Trees Good Condition All Ash 1 Est. Value \$489 \$489 Fair Condition All Ash 1 1 2 Est. Value \$326 \$905 \$1,231 Poor Condition All Ash 3 1 2 6 \$452 \$1,774 Est. Value \$489 \$2,715 TOTAL \$4,435

# **Action Plan Highlights**

- □Polytech: 9 Trees: 6 poor, 2 fair, 1 good condition
- □MHK: 251 Trees: 2 dead, 46 poor, 122 fair, 81 good condition
- □Highlights:
  - 5 Year Management Cycle
  - Remove dead (already done), poor, fair trees, and good trees in poor locations
  - Plant 2 trees for every tree removed (not necessarily where ash are removed)
  - Treat historic, iconic, large healthy specimens when EAB 15 miles from campus
  - Treat good trees in prime locations
  - Utilize good quality logs
  - Communication strategy for alumni, students, faculty and staff, University and campus leadership, general public
  - Annual review of plan and strategy

### **EAB Readiness Team Members**

Ryan Swanson Associate Vice-President of Facilities and University Architect

Kevin Schindlbeck Director of Facilities Services

Joe Myers Facilities Grounds Maintenance Supervisor

Mark Taussig Landscape Architect, Campus Planning and Project Management

Skyler Harper Associate Director, Department of Housing and Dining

Scott McElwain Director, Kansas State University Gardens

Charles Barden Professor, Horticulture and Natural Resources

Cheryl Boyer Associate Professor, Horticulture and Natural Resources

Greg Davis Associate Professor, Horticulture and Natural Resources

Cathie Lavis Professor, Horticulture and Natural Resources, Tree Campus USA Chair

Chad Miller Associate Professor, Horticulture and Natural Resources

Ray Cloyd Professor, Entomology

Chip Winslow Professor, Landscape Architecture/Regional and Community Planning

Lee Skabelund Professor, Landscape Architecture/Regional and Community Planning

Judy O'Mara Instructor and Diagnostician, Plant Pathology

Chandler Day Graduate Student, Plant Pathology

Kim Bomberger Community District Forester, Kansas Forest Service

Randy James Consulting Arborist, Tree BioLogics and Growing Concerns

J. David Mattox City Forester, City of Manhattan





