



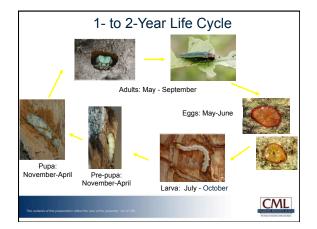


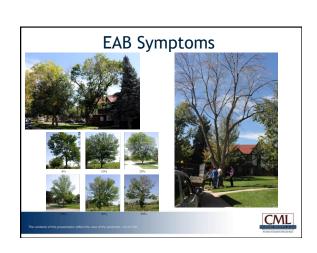
# Pest Biology

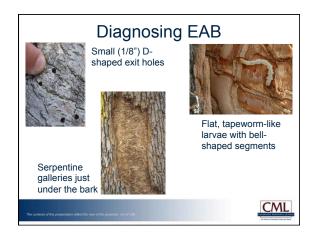
- · Impacts all species of ash
- · Larvae feed under bark
- Trees killed within 1-3 years of first symptoms
- Trees of all size are colonized:1/2-inch saplings to largest mature trees
- · Insect very difficult to detect

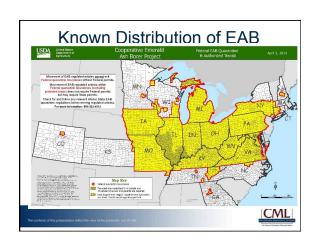




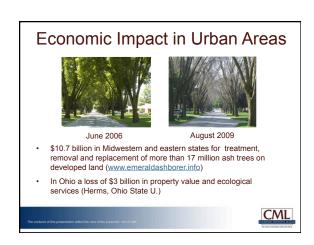


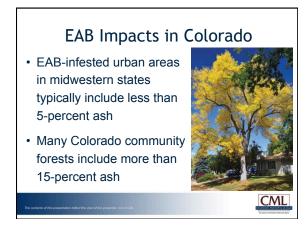


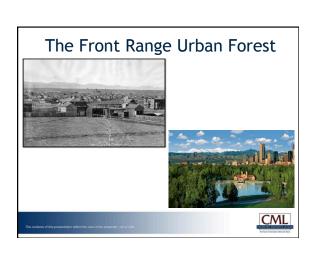


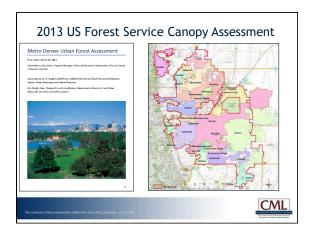


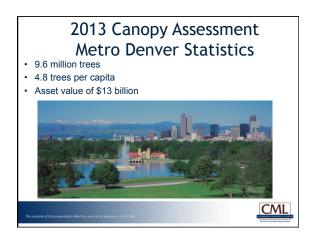




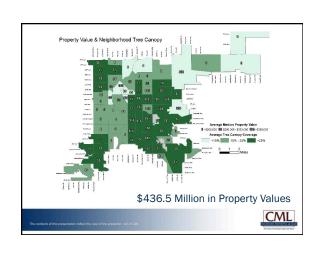


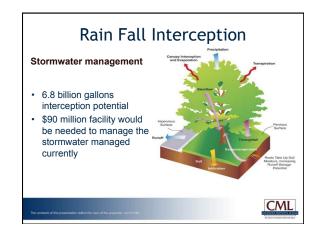


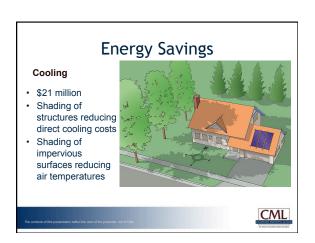


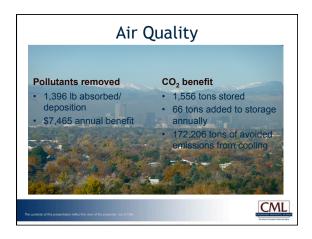


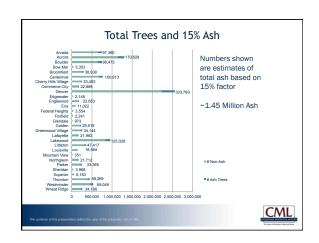


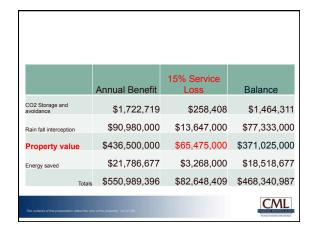






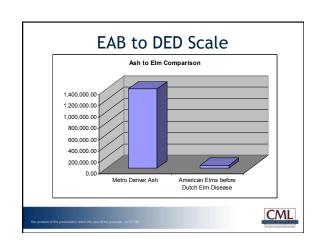


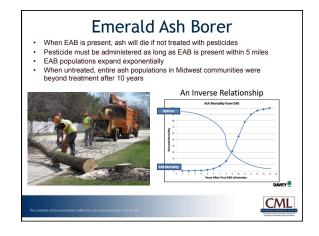


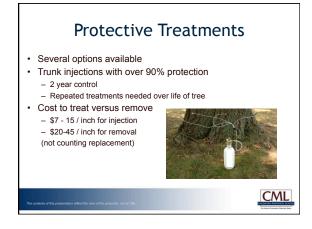








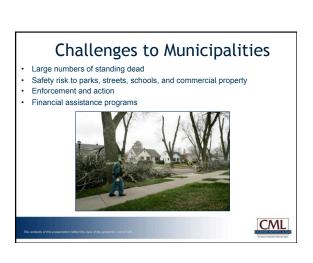


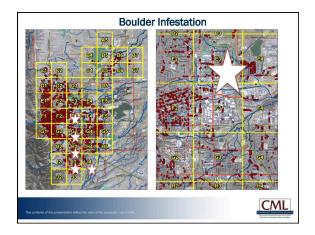


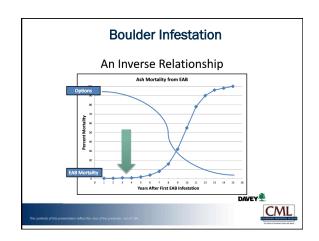


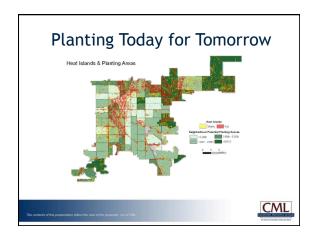




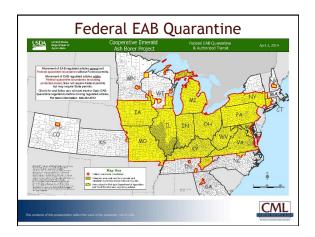














#### Role of Colorado Department of Agriculture

- · Monitor for pest
  - Determine area of infestation
  - Contain the pest and delay spread
- Respond
  - Implement Quarantine
  - Initial goal will be to contain EAB and slow ash mortality





### Colorado Response

 A collaboration of local city/county & CDA, CSFS, USDA-APHIS, CSU









- Agencies work with affected cities/counties to determine a course of action
- Incident Command System structure
  - Quarantine the county or counties?
- Money for enforcement, who will pay?



## Boulder EAB Detection and Response

- Found in Boulder, September 23, 2013
  - Quarantine put in place
    - Emergency quarantine adopted, Nov. 12, 2013
    - Permanent quarantine effective, Mar. 2, 2014
  - Compliance
    - Over 2,000 contacts made
    - Agreements with 54 Businesses/entities



CML

## Response in Boulder



- Survey
  - Approx. 52 people from different local, state and federal agencies participated
  - 820 branches peeled in Boulder
  - Five 1-square mile areas found with EAB
  - Survey efforts ongoing



## Challenges

- · Emerging pest awareness
- · Fiscal hardships to communities
- Decisions regarding treatment, removal and replacement of trees
- Appropriate use and treatment of infested material



#### **Solutions**

- Strategies to reduce risk and improve preparedness
  - Conduct tree inventories
  - Develop management plans
  - Identify priority high value trees
  - Implement municipal codes and county resolutions to enforce sanitation of infested material and promote diversity of plantings



