Forest Pest First Detectors

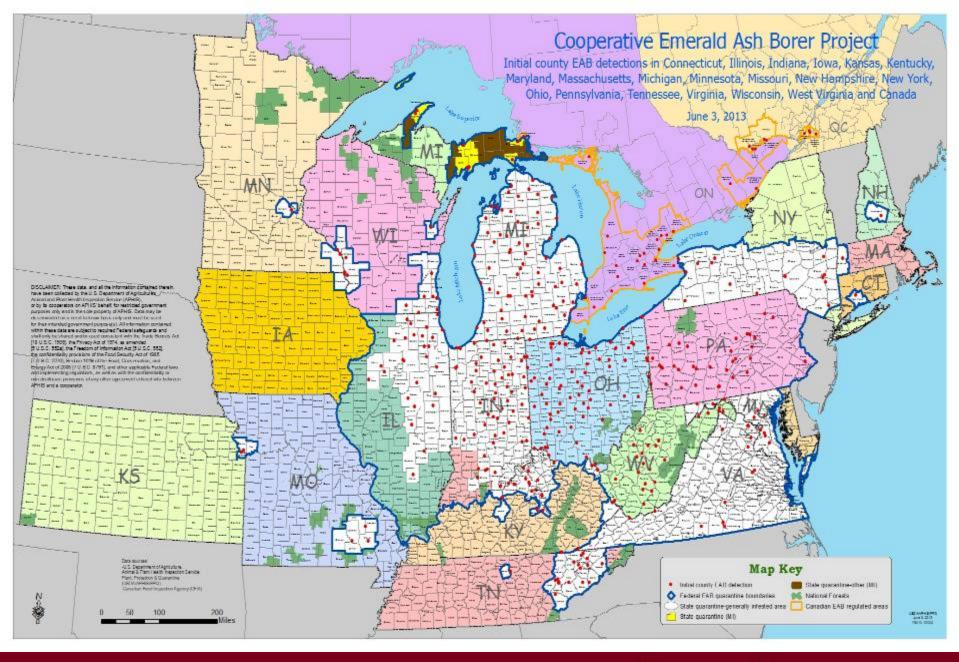
Gary Wyatt, Agroforestry Extension Educator Angela Gupta, Forestry Extension Educator



Overview

- Emerald Ash Borer (EAB) & other forest invasive species of special concern
- Ash in Minnesota
- First Detector Network
- Trainings & Development
- Results





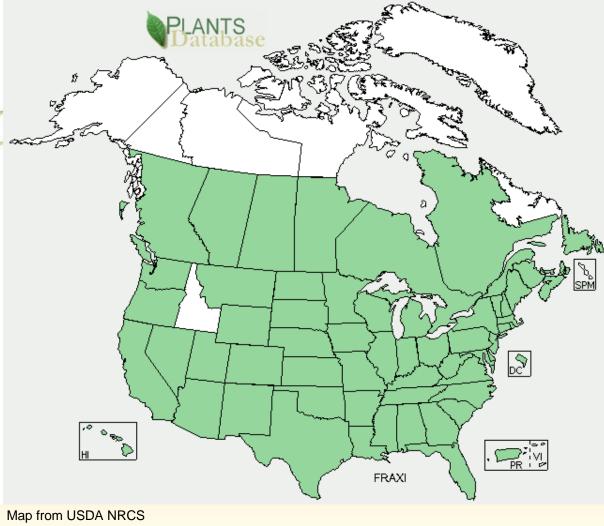
Native Ash in US



Wood & phloem-boring insects are likely to cause

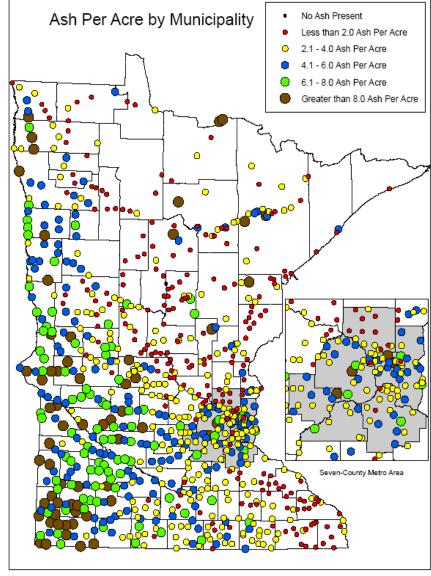
\$1.7 billion in economic impacts annually to local governments plus

\$830 million lost in residential property value.*



Ash in Minnesota





D. Cappaert, MSU

Other Forest Pests





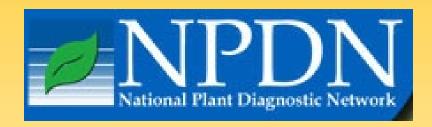


Gypsy Moth

Asian Longhorn Beetle

Thousand Cankers Disease

First Detector Network



- Plant disease and pest diagnostic facilities across the US
- Promote awareness & detection of plant pests
- First Detector Training, a National Model

Training & Development – A Collaboration



 Minnesota Department of Agriculture



Minnesota Department
 of Natural Resources

Val Ce

Ken ℍ



University of

University of Minnesota

EXTENSION

Driven to Discover™

Dean Herzfeld

- Gary Johnson
- Amy Mayer



Training – Volunteer Responsibility

- Increase detection efforts of MDA
- Volunteer for early detection
- Create awareness about forest/tree pests



Training - Program Goals

- One day training
- First Detection of pests: local, County & region
- Tree Inspector exam
- Educate the public





Training - Sites KITTSON ROSEAU LAKE OF THE WOODS MARSHALL KOOCHICHING BELTRAMI COOK LAKE ITASCA NORMAN CASS CLAY BECKER ITKIN

Workshop Sites:

2008 2011

2009 2012

2010

Pests by Year:

'08: EAB

'09: EAB, GM, ALB, Sirex

'10: EAB, GM, ALB, TDC

'11: EAB, GM, ALB, TCD, BOB,

Mt. PB, Vib. leaf beetle & OB

'12: EAB, GM, ALB, TCD, brown

marmorated stink bug & OB

'13: Same as '12 + Imprelis

Training - Target Audience

People with prior Forest or Tree experience and knowledge

- Forestry & Arboriculture professionals
- MN Certified Tree Inspectors
- Tree Care Advisors
- Master Volunteers





Activities - Detection



Activities – What do First Detectors do?



AGRICULTURE Minnesets Department of 625 Robert St. N., St. Ra	
Plant Protection Division, Ph: 651-201-6505, Fo: 651-201-6108	-
EAB First Detector Report Log	WE FRET DETECTOR NAME MAIK Abrahamson
Seetle	#BONE 555 - 555 - 5555 DBD ORIOUS
1234 Hole in the Wall Are Buow	
emercial green insect in grass under each	ISENT to EAB website to review emerist
tree bock after reviewing materials	- Level and principles tracks a
5-13-08 CONTACT HAVE	PHONE DE GEOLIS
MATERIC VOIDESS	the jook & computer, org Yes
1) Emeil report: reports an ash	Dreturned unail on 5-13 asking
tree w/ thin clown & epicolmic	for other contact information & whether
skouts - 919 ichiga wotarior)?	a sample can be obtained.
5-13-08 DONEACT NAME SOUTH STORY	FRONT 555 - 5535 - 5555 OD CHECKS
1234 A. ROLD, A. TOWN, MN	
Phone Report: reports a	D TOLD contact that materials will be sent to them to verify tree id a sym
dying tree	2) Sent email 5-13 requising materials.

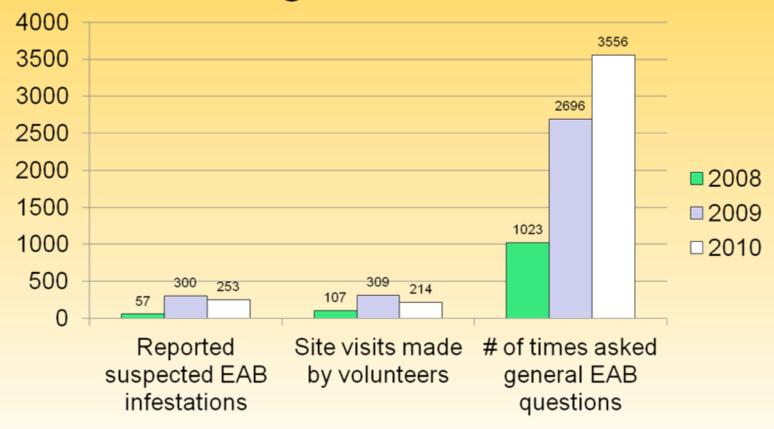
Reported Results

- First EAB in MN! (St. Paul, 2009)
- First gypsy moth caterpillar MN! (Duluth, 2010)
- 538 active FD volunteers
 - 64 out of 87 counties have First Detectors
 - Including people from all neighboring states
- First Detectors reported:
 - In 2010, 97% wanted to be First Detectors in 2011



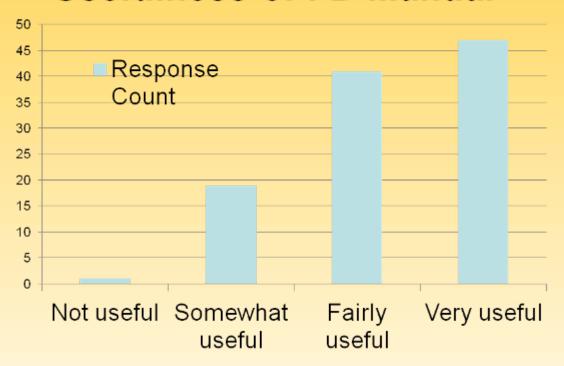
2010 First Detector Survey Results

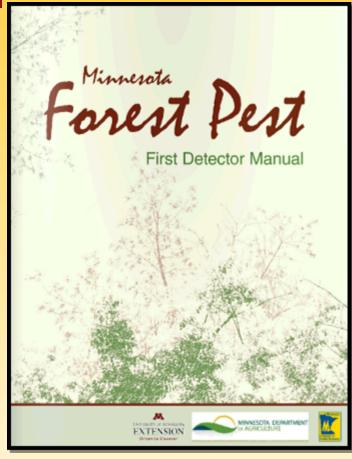
Forest Pest First Detector Program Outcomes



First Detector Manual

Usefulness of FD Manual





Results

- In 2010
 - FD volunteered 1316 hours
 - FD traveled 7733 miles

Total Public Value ~\$29,000

&

Involved in EAB & GM finds

U.S. First Detector Programs

- 41 (84%) programs include forest pests
- Three most common First Detector pests:
 - EAB (61%) (30 states in all 5 regions)
 - Sudden Oak Death (53%)
 - Thousand Cankers Disease (39%)

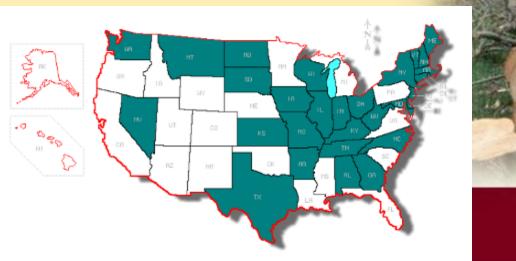


Photo:
Daniel Herms,
The Ohio State University, Bugwood.org

National Study Results

6 States (12%) said MN model impacted their programs

Respondents volunteered comments

- 13 (26%) mentioned funding concerns
- 10 (20%) mentioned the value of "more eyes"
- 5 (10%) mentioned the value of interstate collaboration

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Upcoming Events

Extension Forestry Team

Minnesota Forest Pest First Detector Program

2013 Forest Pest First Detector Workshops have been scheduled. Registration now open.

Please read through all the information to the bottom on this page.

2013 Forest Pest First Detector Information Brochure (PDF)

NEW! Looking for Volunteers to Survey for Oriental Bittersweet.

Scroll to the very bottom of this page for all the details about the oriental bittersweet survey opportunity.



http//:z.umn.edu/FPFD



For more information contact: Gary Wyatt

wyatt@umn.edu