The Forest Health Technology Enterprise Team

Presentation to the Continental Dialogue

November 2014

Introduction to FHTET

- Established (re-chartered) by the Deputy Chief of State and Private Forestry in 1995

- To develop and deliver forest health technology services to field personnel in public and private organizations in support of the forest Service's land ethic:

  - To promote the sustainability of ecosystems by ensuring their health, diversity and productivity

Mission

- "To foster the development and use of technologies to protect and improve the health of America's forests."

FHTET

- Is a Washington Office unit (Detached) with offices in Fort Collins, CO and Morgantown, WV.

- We are part of Forest Health Protection (FHP) and answer directly to the Director of FHP.

FHTET Programs

- Fort Collins, CO
  - Quantitative analysis, Aviation Safety and Management, Invasive Species information, Systems, Application Software, Remote Sensing, and Geographic Information Systems and Spatial Analysis
    - 15 full time contractors

- Morgantown, WV
  - BioControl and BioPesticides
  - Pesticide Application technologies

FHP Authorities

- The Cooperative Forestry Assistance Act of 1978 as amended through 2008
  - Sec. 8. [16 U.S.C. 2104] FOREST HEALTH PROTECTION]
    - (B) Activities on NFS and other Lands in cooperation with State Foresters..
      - (1) Conduct Surveys to detect and appraise insect infestations, disease conditions and man made stresses…
      - (2) determine the biological, chemical and mechanical measures…
      - (4) provide technical information….
      - (5) develop *applied technology* and conduct pilot tests

Current "Flagship" projects

- National Insect and Disease Risk Map (NIDRM)
  - Basis of "Farm Bill" Forest Health designations
  - Individual Tree Species Atlas
    - Should go to print first ¼ 2015
- Improving Forest Health Survey (Funded by IRDB)
  - Digital Mobile Sketch Mapping
    - Process improvement of Digital Aerial Sketch Mapping (DASM)
  - Operational remote Sensing
    - Forest Disturbance Monitor
    - Supplemental Remote Sensing
  - Integration of Ground Survey
    - Mobile apps
    - Web portal apps

"Flagship" projects continued

- Invasive Species Risk Assessments
  - Emerald Ash borer
  - Gypsy Moth
- BioControl and BioPesticides
  - Japanese Stilt grass, Mile A Minute Weed, Tree of Heaven, Japanese Knotweed, Garlic Mustard, Hemlock Woolly Adelgid, Emerald Ash Borer….
  - Privatization of GypChek ®
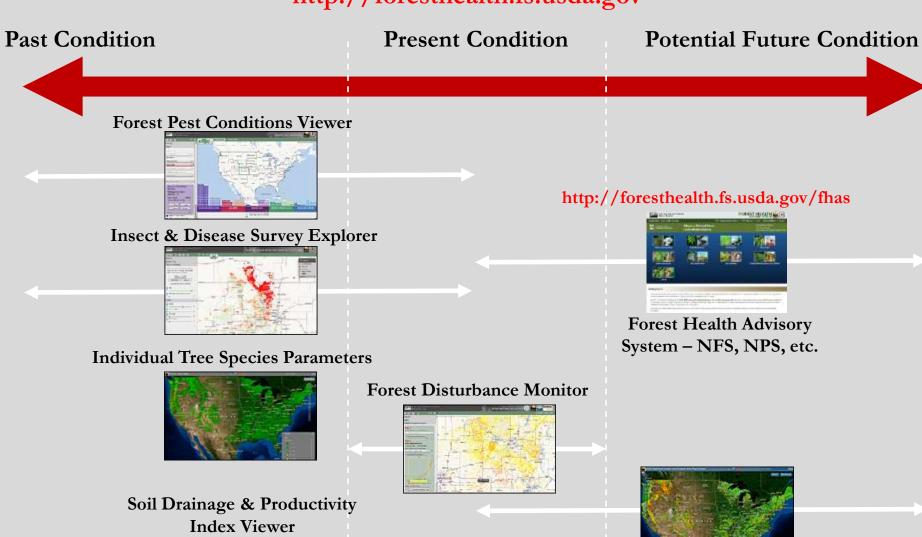- Pesticide Application Technologies
  - AgDisp

The Forest Health Portal

http://foresthealth.fs.usda.gov/

FHP Mapping & Reporting Portal

http://foresthealth.fs.usda.gov

Past Condition   Present Condition   Potential Future Condition

Forest Pest Conditions Viewer

http://foresthealth.fs.usda.gov/fhas

Insect & Disease Survey Explorer

Forest Health Advisory System – NFS, NPS, etc.

Individual Tree Species Parameters

Forest Disturbance Monitor

Soil Drainage & Productivity Index Viewer

NIDRM Viewer

Portal Overview- a few highlights

- Latest <u>headlines</u> and authoritative data used by legislative affairs, FS leadership, cooperators and Congressional staffers:

- Authoritative <u>pest ranges</u> and current conditions – used by cooperators, planners, modelers within NPS and NFS. Provides maps and text that can be used directly in NEPA work etc.

- For analytical purposes, universities, cooperating pest surveyors, we have several tools.

  - <u>IDS Explorer</u> (NEPA, salvage, planning etc.)

  - <u>FDM</u> (supports survey and provides and early warning system when combined with NIDRM).

  - NIDRM and Tree Atlas Pages (NEPA, planning, prevention work)

- **FHAS** <u>Demo</u>

  - Emphasizes all lands management and planning

  - Building partnerships

  - Prioritizing resources

  - Designed to meet the needs of resource staff

Discussion