

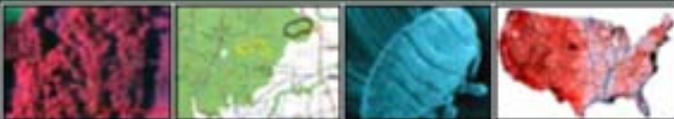


ADS and Disturbance Tracking Focus Group

Consistency, Coverage and
Cowality



Aww Jeez....
where the heck
is Ross Pywell
when you need
him??



Congratulations are in Order!

- We Are doing Great!
 - All the ADS data is in!!!!





Congratulations are in Order!

- And we are making progress for National Access.

File Edit View History Bookmarks Tools Help

http://localhost/WebMaps/InsectAndDiseaseSurvey.aspx

ITX time sheet ESRI Instructional Se...



STEP 1: Select a Year

2005

STEP 2: Select a Region

All Regions (Lower 48)

-OR- Select a State

All States (Lower 48)

STEP 3: Select a Damage Agent

All Categories

All Damage Agents

STEP 4: Select a Damage Type

All Damage Types

STEP 5: View the Data

GO



The screenshot displays the FHTET web application interface within a Mozilla Firefox browser window. The browser's address bar shows the URL `http://localhost/WebMaps/InsectAndDiseaseSurvey.aspx`. The page header features the USDA logo and the text "United States Department of Agriculture Forest Service" on the left, and the "FOREST HEALTH TECHNOLOGY ENTERPRISE TEAM" logo on the right. A navigation bar below the header contains links for "HOME", "FHTET INTERNET", "HELP", and "CONTACT US".

The main content area is divided into two sections. On the left is a form with five steps for data selection:

- STEP 1: Select a Year**: A dropdown menu is set to "2005".
- STEP 2: Select a Region**: A dropdown menu is set to "All Regions (Lower 48)".
- OR- Select a State**: A radio button is selected next to "All States (Lower 48)".
- STEP 3: Select a State**: A dropdown menu is open, showing a list of states with "Colorado" selected. The list includes: Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, and Michigan.
- STEP 4: Select a State**: A dropdown menu is set to "All".
- STEP 5: View**: A "Go" button is visible.

On the right side of the form is a map of the United States. A red dot is placed on the state of Colorado, indicating the selected location. The map is currently disabled, as indicated by a grey overlay.

At the bottom of the page, there is a footer with the text "Home | FHTET Internet | Help | Contact Us". The browser's status bar at the very bottom shows "Done".

Narrow data to be displayed by selecting a different year, and/or specific region or state, and/or specific damage agent or damage agent "category", and/or damage type. Map "disables" while selecting data to view. Note there are "east-wide" and "west-wide" options in the Region drop-down list.

FHTET - Forest Health Technology Enterprise Team - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost/WebMaps/InsectAndDiseaseSurvey.aspx

ITX time sheet ESRI Instructional Se...

USDA United States Department of Agriculture Forest Service

FH HEALTH TECHNOLOGY ENTERPRISE TEAM

HOME FHTET INTERNET HELP CONTACT US

STEP 1: Select a Year
 2005

STEP 2: Select a Region
 All Regions (Lower 48)
 -OR- **Select a State**
 Colorado

STEP 3: Select a Damage Agent
 11000 - Bark Beetles
 All Bark Beetles

STEP 4:
 All Bark Beetles
 11000 - Bark Beetles
 11002 - western pine beetle

STEP 5:
 11006 - mountain pine beetle
 11007 - Douglas-fir beetle
 11009 - spruce beetle
 11029 - pine engraver
 11030 - lps engraver beetles
 11050 - fir engraver



Home | FHTET Internet | Help | Contact Us

Done

Select damage agent by “category” and/or specific agent. Note drop-downs “filter” to display only what is actually in the data for the previously selected drop-downs. E.g. For 2005, in Colorado, 8 specific bark beetles exist in the database and only those 8 show up in the drop-down list.



STEP 1: Select a Year

2005

STEP 2: Select a Region

All Regions (Lower 48)

-OR- Select a State

Colorado

STEP 3: Select a Damage Agent

11000 - Bark Beetles

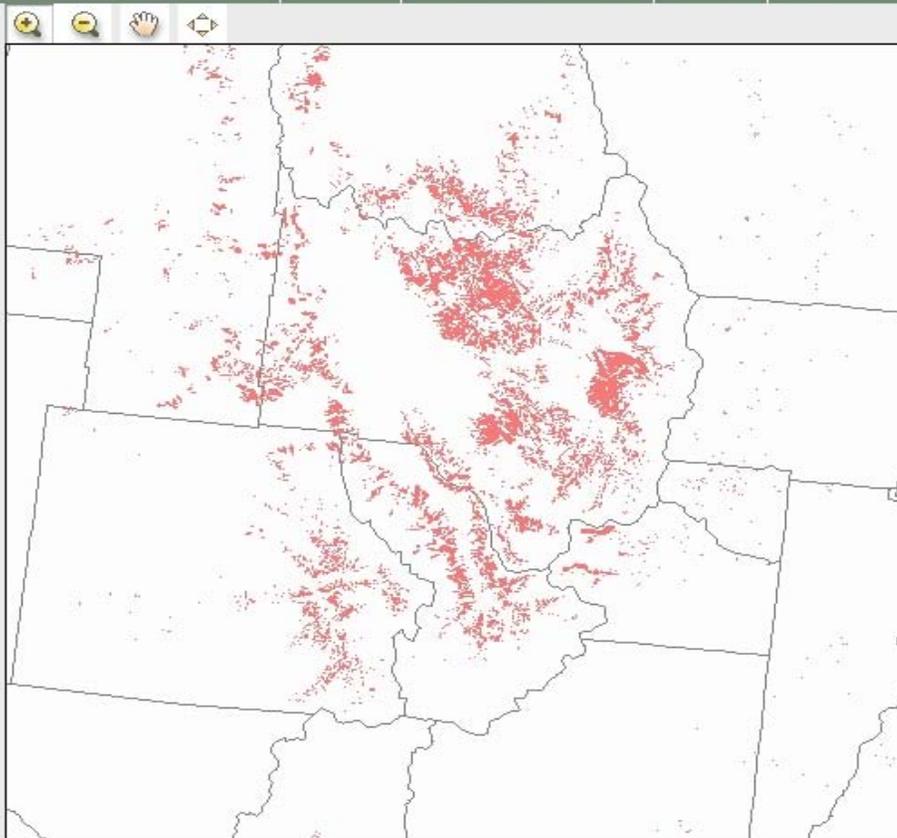
11006 - mountain pine beetle

STEP 4: Select a Damage Type

Mortality

STEP 5: View the Data

GO



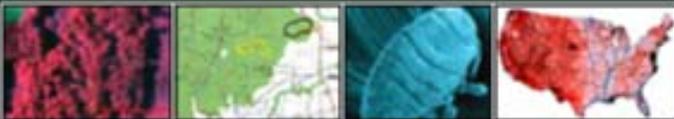


Immediate To-Do List includes:

- Add ability to toggle between map view and “report” view that shows acreage summaries for selected year, region or state, damage agent and damage type
- Add a download command that allows user to download the selected data as a shapefile
- Improve the cartography and base layers
- Finalize any web site and page design details (e.g. add an intro page, resize map when browser is resized)

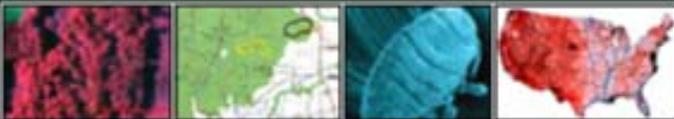
Then:

- Add a print button
- Add legend view (probably displayed in a popup window to keep the basic page clean and simple)
- Add ability to toggle to an “advanced” version of the page that includes more functions (e.g. overview map, ID tool, legend that allows turning individual base layers on/off, etc., etc.)
- Add risk maps



But..

- In spite of all this good work and progress...
- We still need improvement and there is work to be done...



Frank's not so Hidden Objectives

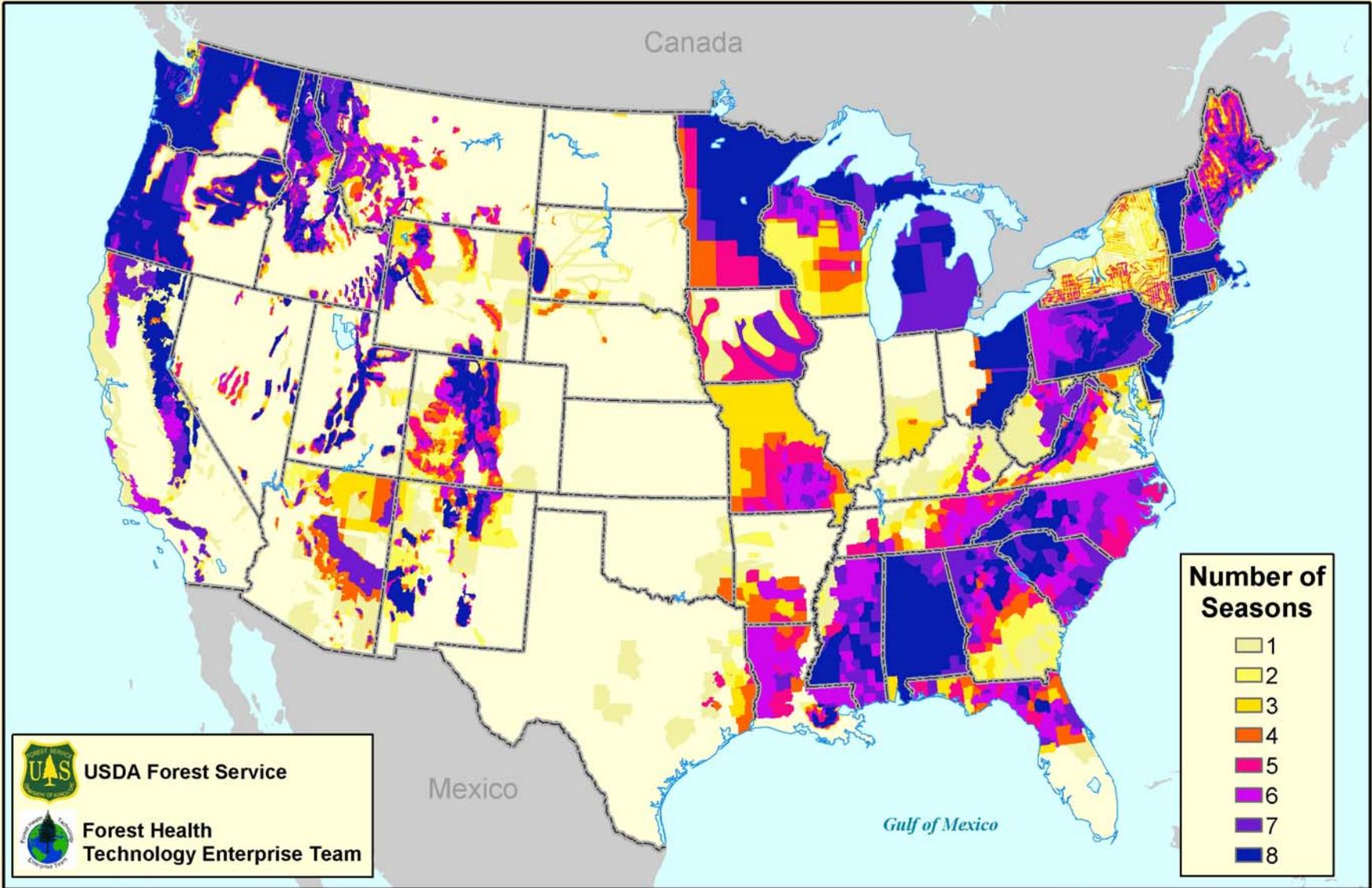
- A minimum of three resolutions
- They might look like...
 - Flown/not flown, collected with GPS, submitted and logged in National Database
 - Updated Pest List (PTIPS)
 - Errors
 - A list that addresses “biological complexes”
 - Simplify ADS standards to a level that we can realistically meet as a National Program





Cowality Issues

- Overlapping polygons that are not rectified (in damage and flown layers)
- Multi-part polygons (FHTET can add functionality in ADTools to find these)
- SPB numbers of questionable derivation
- SPB polys that are randomly distributed by county
- Missing Surveyor and/or date information for flown layers
- Entire states depicted as flown
- Missing flown data where damage polygons are recorded.



Reported Number of Seasons Flown 1999-2006

Source: USDA-FS FHTET ADS Database

A horizontal banner with a green background and a row of five small images: a red forest, a green field, a blue forest, a red map of the US, and a green forest. The word "Consistency" is written in white serif font on the right side.

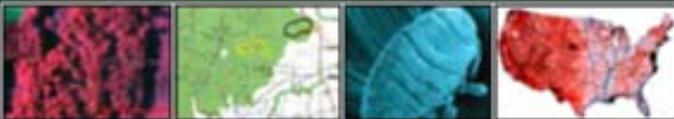
Consistency

- Difference in Mortality Coding:
 - Mortality w/ TPA/Number of trees in west
 - Mortality with combinations of PATTERN and SEVERITY codes in east.
- Multi-Agent/Multi-damage/Complexes/:
 - Should summaries of specific agents (like mpb) also include complexes that are known to contain the specific agent in the mix. How does FHTET know and decide?

A decorative banner at the top of the slide, featuring a row of five small images: a close-up of red bark, a green leaf, a blue insect, a red map of the United States, and a green forest scene. The word "Consistency" is written in white text on a dark green background to the right of these images.

Consistency

- Coding of similar phenomena in different ways makes reporting tasks equally difficult: Are they the same?
 - pinyon pine mortality(80004) vs. pinyon ips (11019)
 - Western balsam bark beetle(11015) on subalpine fir vs. subalpine fir mortality(80002)
 - Mountain pine beetle (11006) on mixed conifer (high elevation) vs. 5-needle pine decline(80003) on bristlecone/limber
 - Decline (24008) on aspen vs. dieback (90010) of aspen vs. aspen defoliation (80001) vs. defoliators (12000) on aspen.



Other more minor issues

- Fire polygons: do these belong in the database? Should they be included in mortality summaries? (they are not now).
- Other ways of depicting mortality on maps (by TPA ranges, etc.)
- Metadata: National metadata does not incorporate any info the Regions may submit. Regional metadata is varied and not consistent.



So....

- Jeff Lock the door.