

Collaborative Approaches:
Ten Years of Advancement in
Research Collaboration and
Decision Support Systems.

Recommendation 5

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Crossing the Millennium Conference

Boise - 1999

Recommendation 5:

Collaborative approaches to research, development and implementation of new information and decision support tools need to be encouraged.



Where we were ...

Decision Support

- Wildland Fire Situational Analysis (WFSA)
- Wildland Fire Implementation Plan (WFIP)
- Local data - data queries could be completed but not spatially represented
- Interagency data - access to data outside your agency was difficult

Where we were....

Decision Support (continued)

- Training / Standards
- Predictive Information
- Collaboration/Coordination within agency and interagency partners
- Analysis timeframes



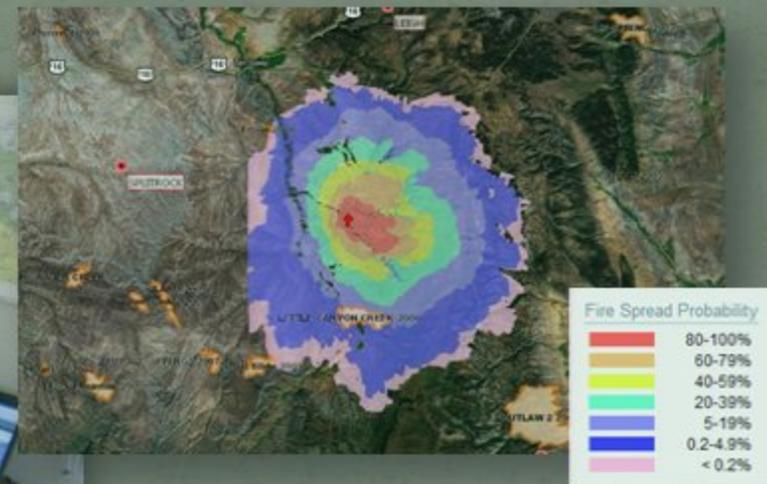
Why Is It Important??????

Framework & Guidance for Fire Management

- Federal Wildland Fire Management Policy Guidance (1995, 2001, 2009)
 - Sound risk management
 - Fire programs that are economically viable, based upon values, costs, and land & resource management plans
 - Fire management activities based on best available science
 - Managers will use a decision support process

Why Is It Important?????? (continued)

- National Fire Plan Guidance
- Quadrennial Fire Review
- Collaboration across boundaries
- It just makes sense....



What has been done....

Nationally – (some, but certainly not all....)

- Predictive Services
- Landfire
- Fire Program Analysis (FPA)
 - Large Fire Simulation (FSIM)
- Wildland Fire Assessment System (WFAS)
- Fire Regime Condition Class

What has been done... (Continued)

Nationally – (some, but certainly not all...)

- National Fuel Moisture Data Base
- Regional and statewide risk assessments
- Community Wildfire Protection Plans



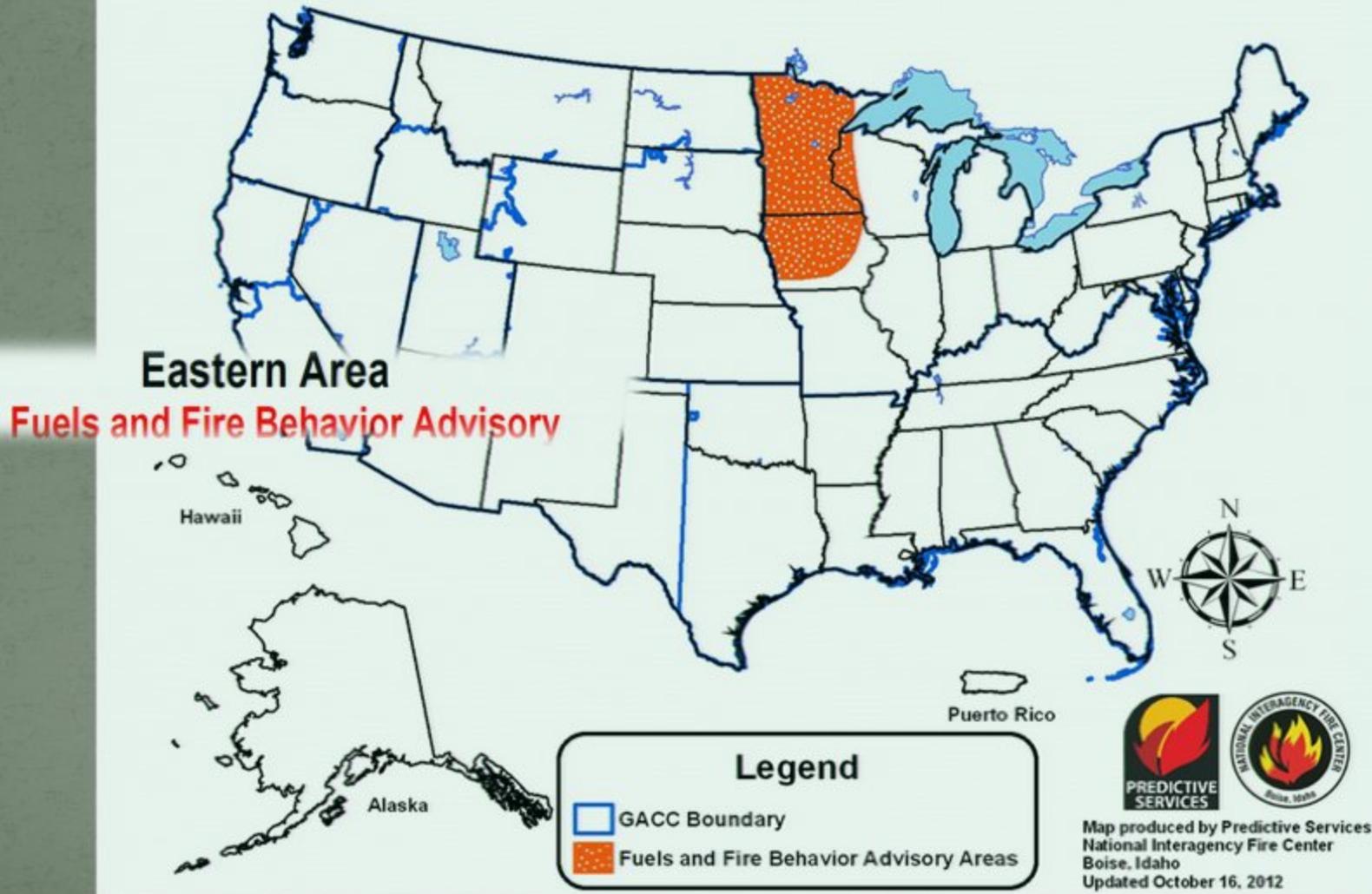
The screenshot shows the Oregon Department of Forestry website. The header includes the Oregon.gov logo and the text "Oregon Department of Forestry". A navigation menu on the left lists various links such as "About Us", "Contact Us", "Newsroom", "Oregon Board of Forestry", "Jobs with ODF", "Public Involvement", "Rules and Laws", "Wildfires", "State Forests", "Private Forests", "Forest Health", "Urban Forests", "Resource Planning", "Publications", "Indicators of Sustainable Forest Management", "Geospatial Information/GIS", "ODF Home", "Employee Resources (log in required)", "Custom Web Access (Email, Calendar, etc.)", and "ODFnet (Intranet)". The main content area is titled "Oregon County and Community CWPPs" and features a map of Oregon with color-coded regions. Below the map, there are links for "Overview", "ODF/USFS", "Community Wildfire Protection Plans in Oregon", "How to Use CWPPs & CUPPs", "CWPP Database", "Wildfire Links/Info", and "CWPP Database".



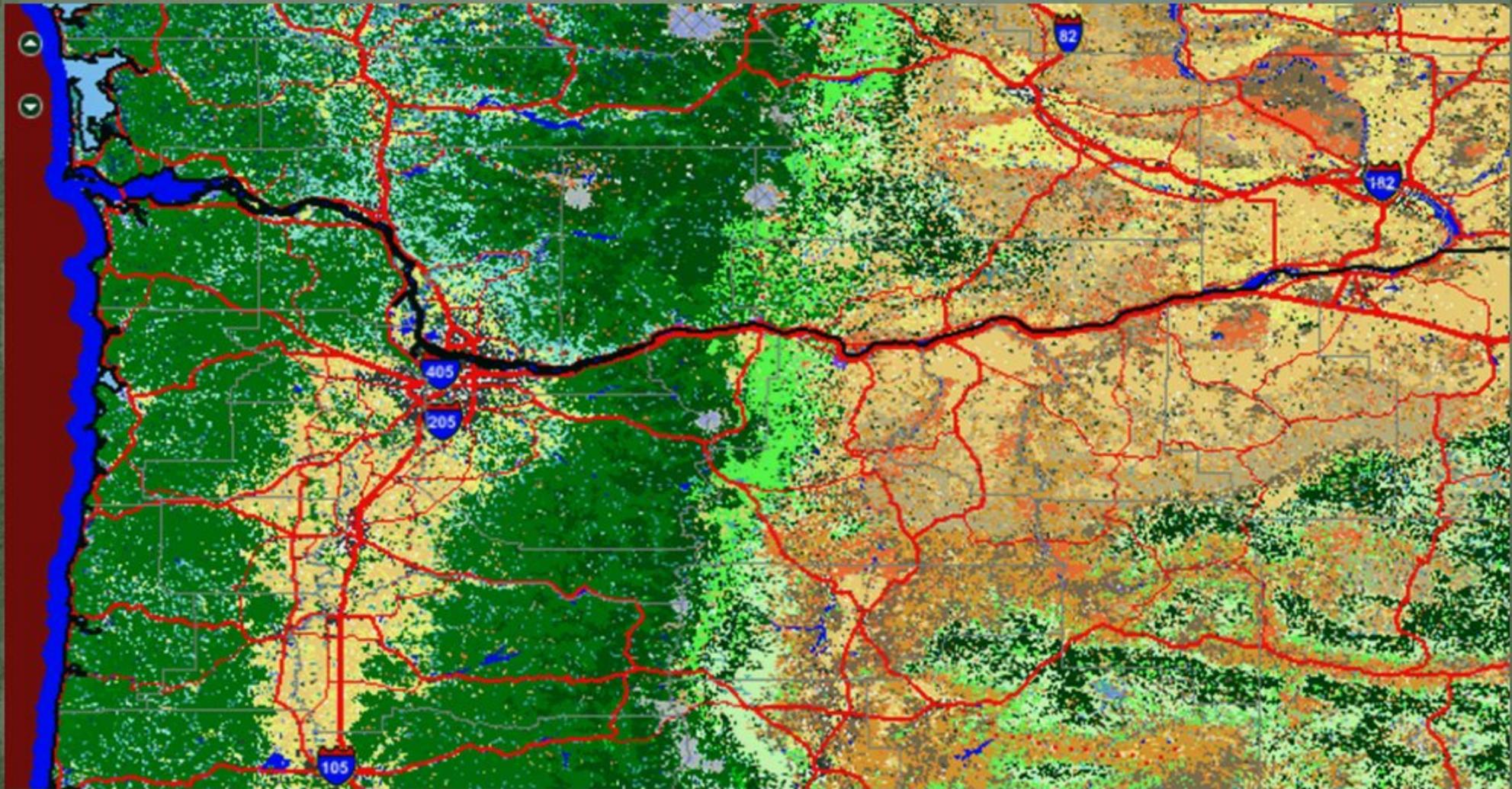
The cover page of the Santa Monica Mountains Community Wildfire Protection Plan (CWPP) features the "ForeverGreen Forestry" logo at the top. The title "SANTA MONICA MOUNTAINS COMMUNITY WILDFIRE PROTECTION PLAN (CWPP)" is prominently displayed. Below the title is a photograph of a wildfire with the caption "Wildfire sending smoke and embers over Malibu in 2007." The page includes a table of contents with links for "Home", "Community Fire Planning", "Participation in Strategic Planning", "Development Process", "Community Services", "Appendices", "Blog/News", and "Contact". A paragraph of text states: "The Public Draft of the Community Wildfire Protection Plan* (CWPP) for California's Santa Monica Mountains is now available for public review. See below for information regarding upcoming public meetings." Another paragraph reads: "This CWPP is written to be a resource guide for Santa Monica Mountains residents – especially those organizing themselves under the Fire Safe Council Banner. It contains extensive information on how to live with wildfire in the Santa Monica Mountains." A final paragraph says: "You can download the complete CWPP or individual chapters and appendices at the Public Draft CWPP website (click here). For a summary of what's in each of the CWPP chapters and appendices (click here)." At the bottom, it notes: "Comments on CWPP documents will be accepted until September 15th, 2010." The page has a decorative, torn-edge border.

Predictive Services

Current Fuels & Fire Behavior Advisories

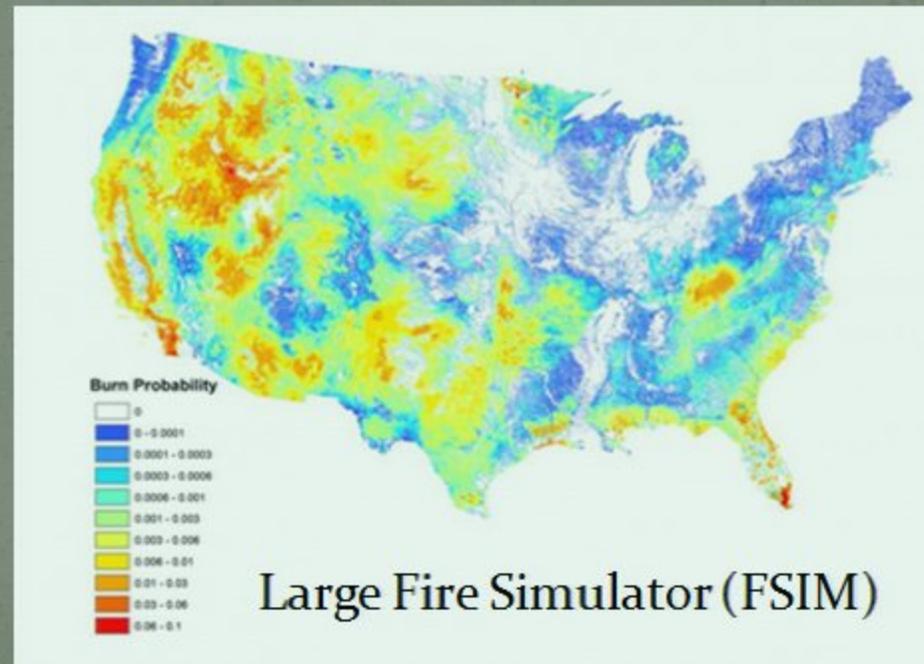
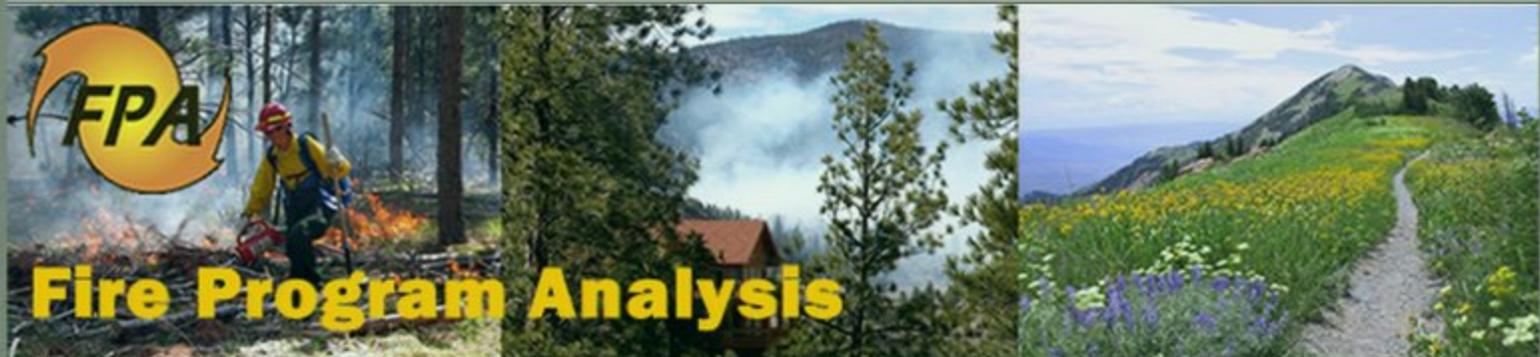


Landfire Product

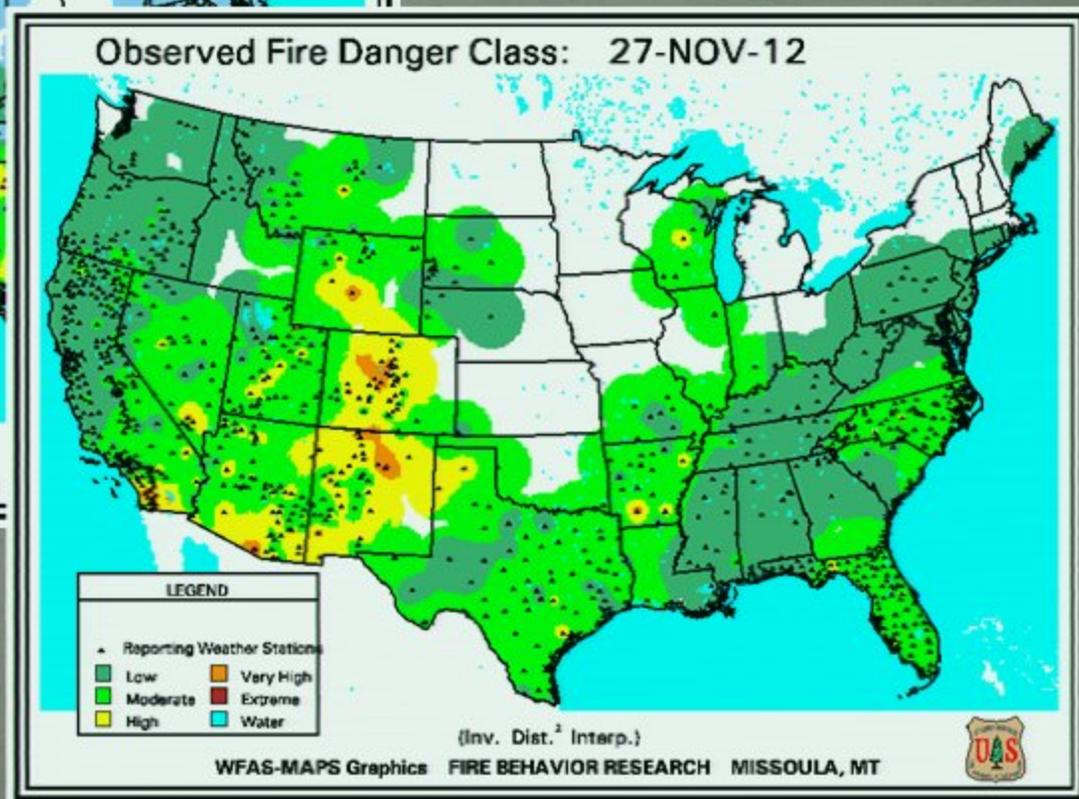
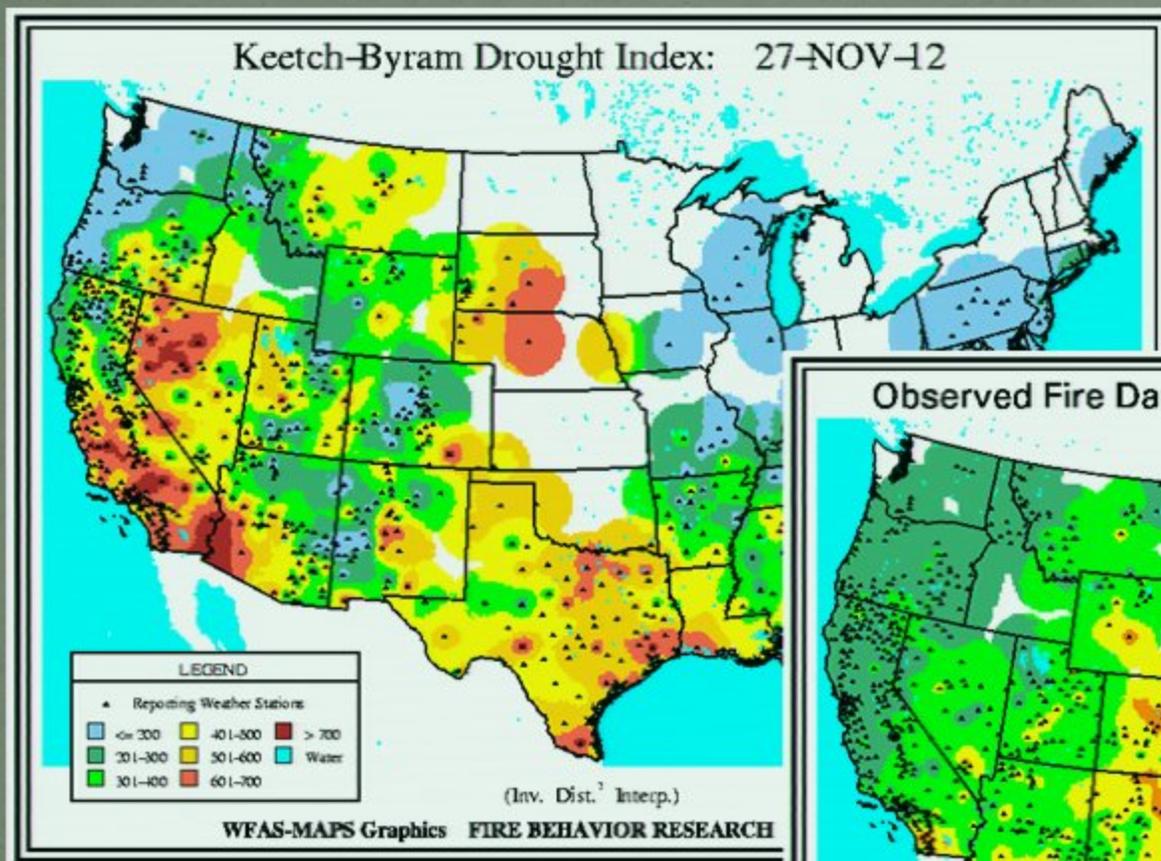


Landfire Vegetation NW Oregon and SW Washington

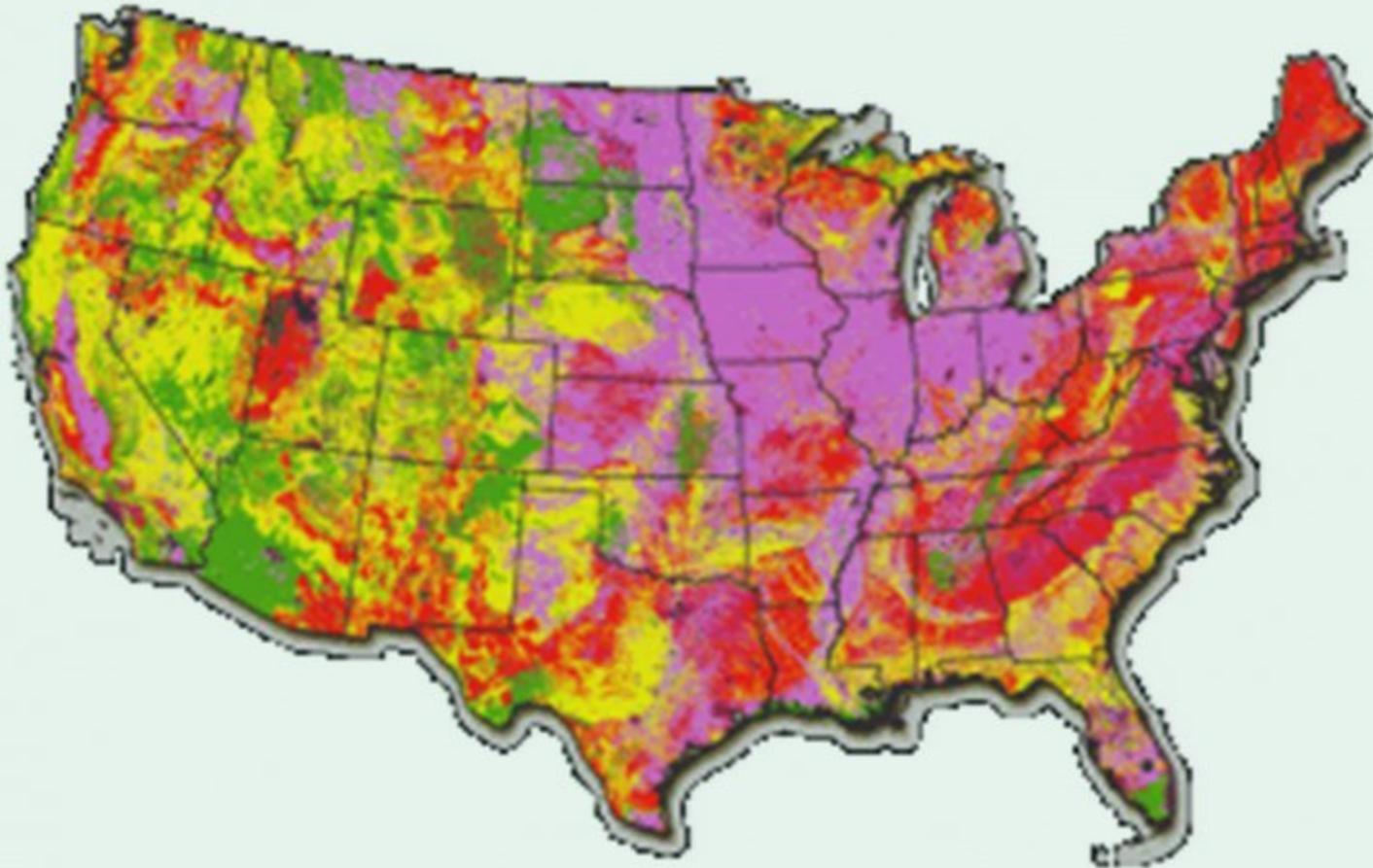
Fire Program Analysis



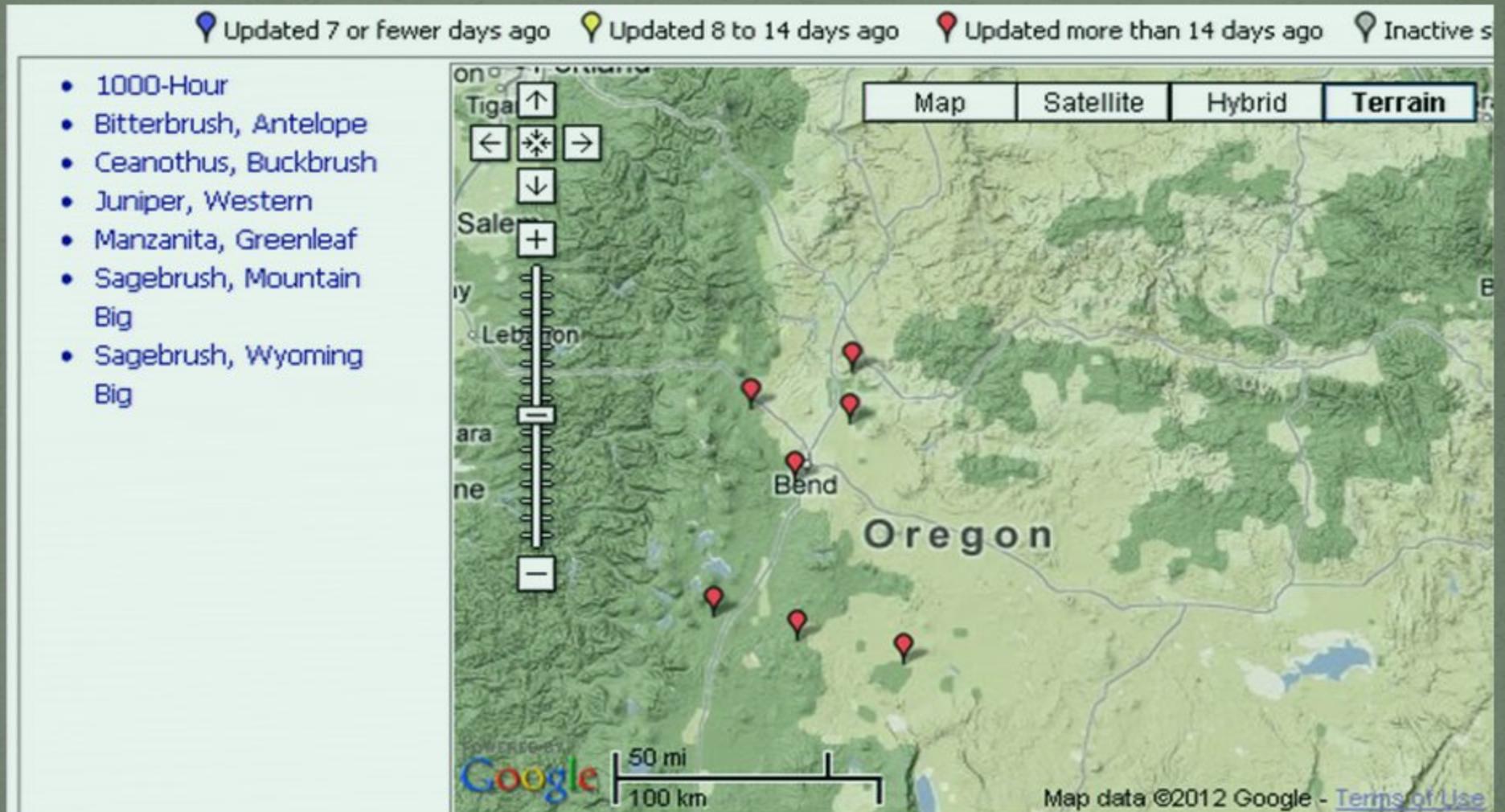
Wildland Fire Assessment System (WFAS)



Fire Regime Condition Class

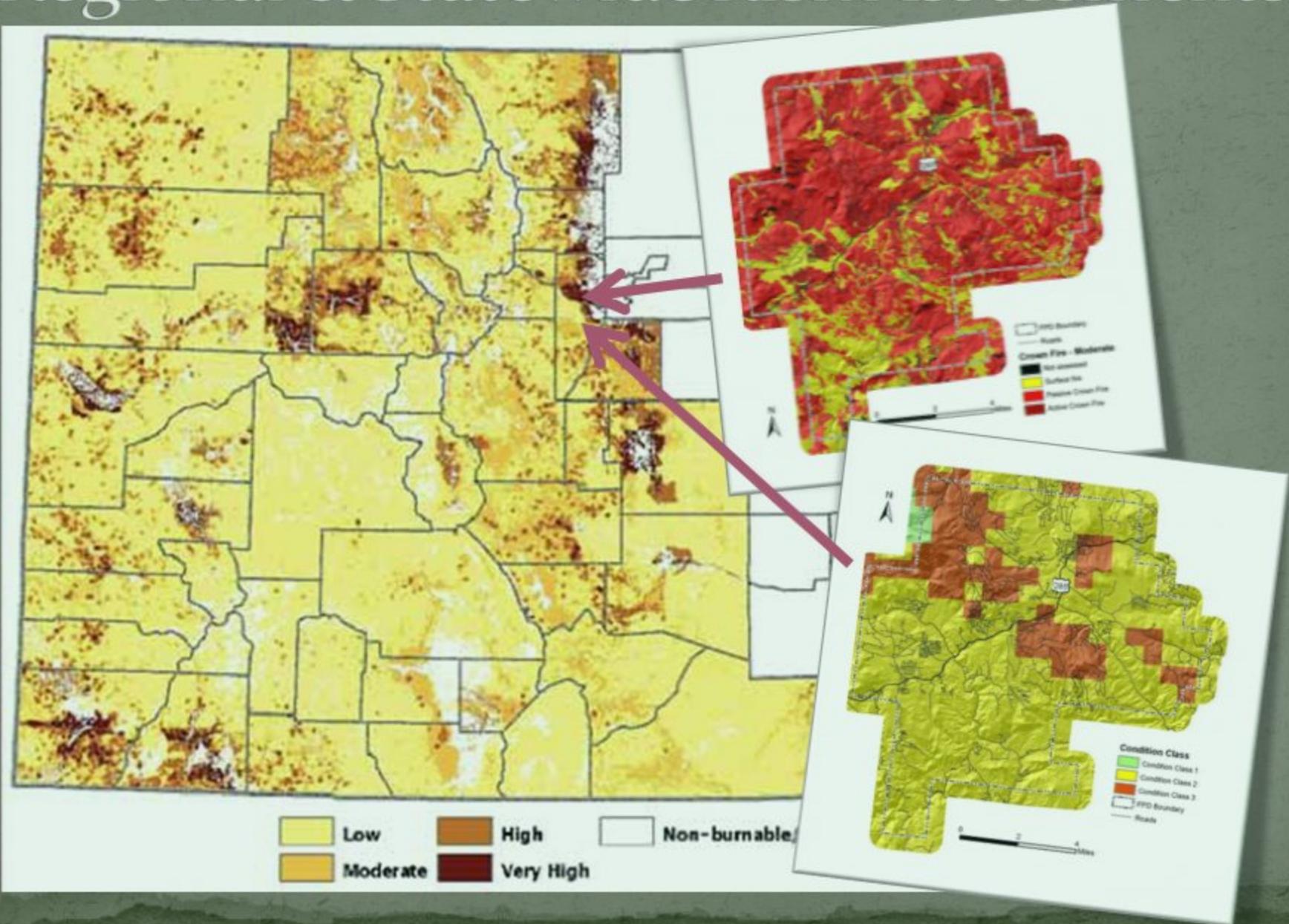


National Fuel Moisture Database



Oregon NFMD Sample Sites

Regional & Statewide Risk Assessments

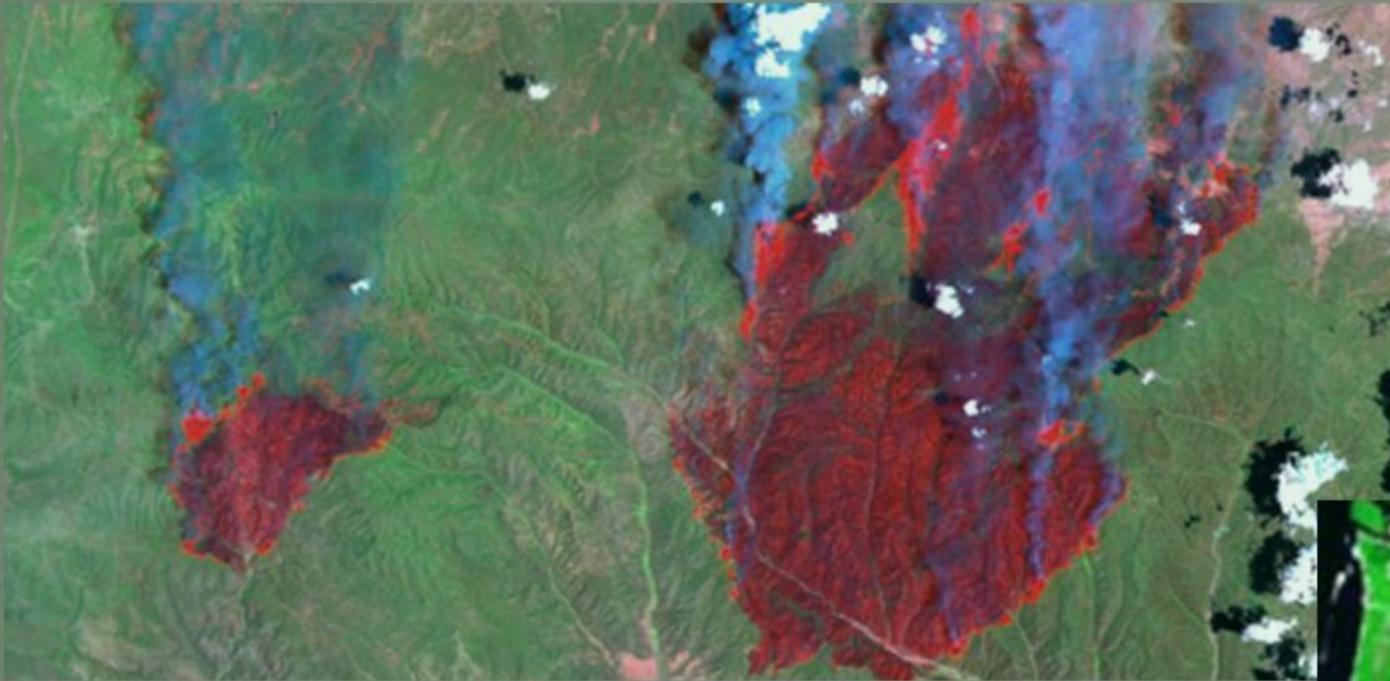


What have we done?

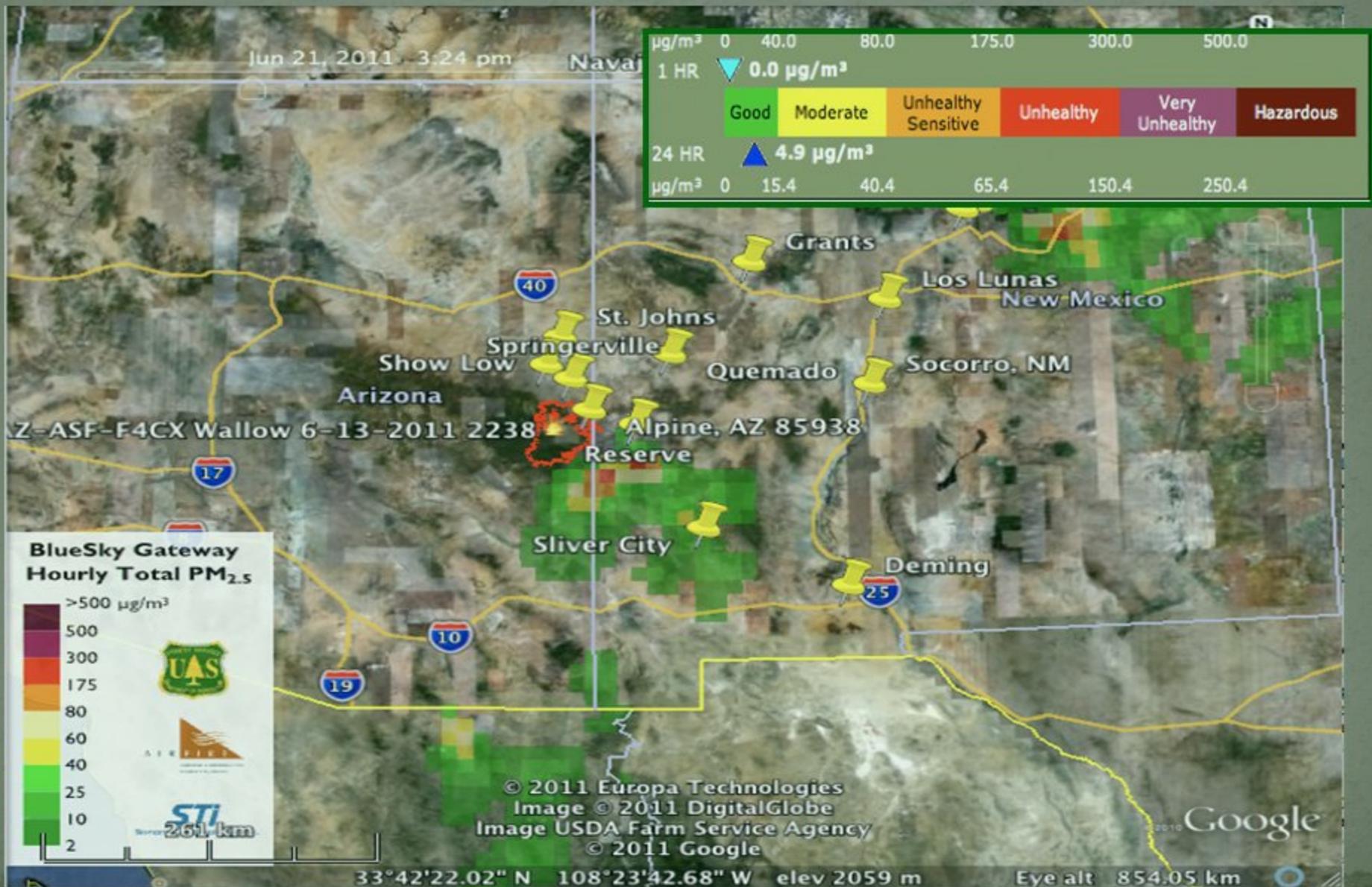
Regional / Local / Incident – (some, but certainly not all....)

- Remote Sensing Application Center (RSAC)
- Smoke Modeling
- Wildland Fire Decision Support System (WFDSS)
- Mobile Technologies

Remote Sensing Applications Center



Smoke Modeling

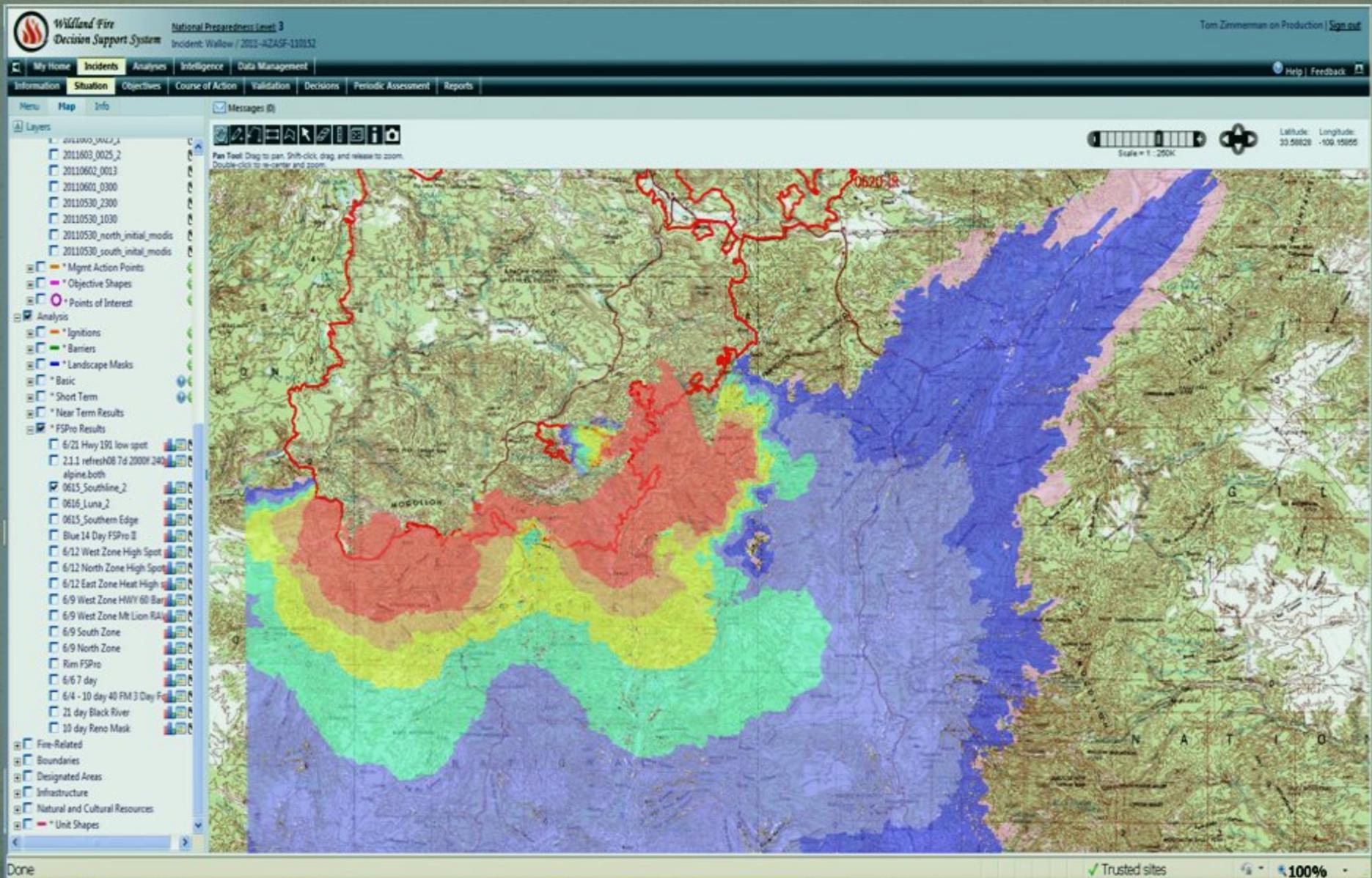


WFDSS

Fire History Layer-2000-2009

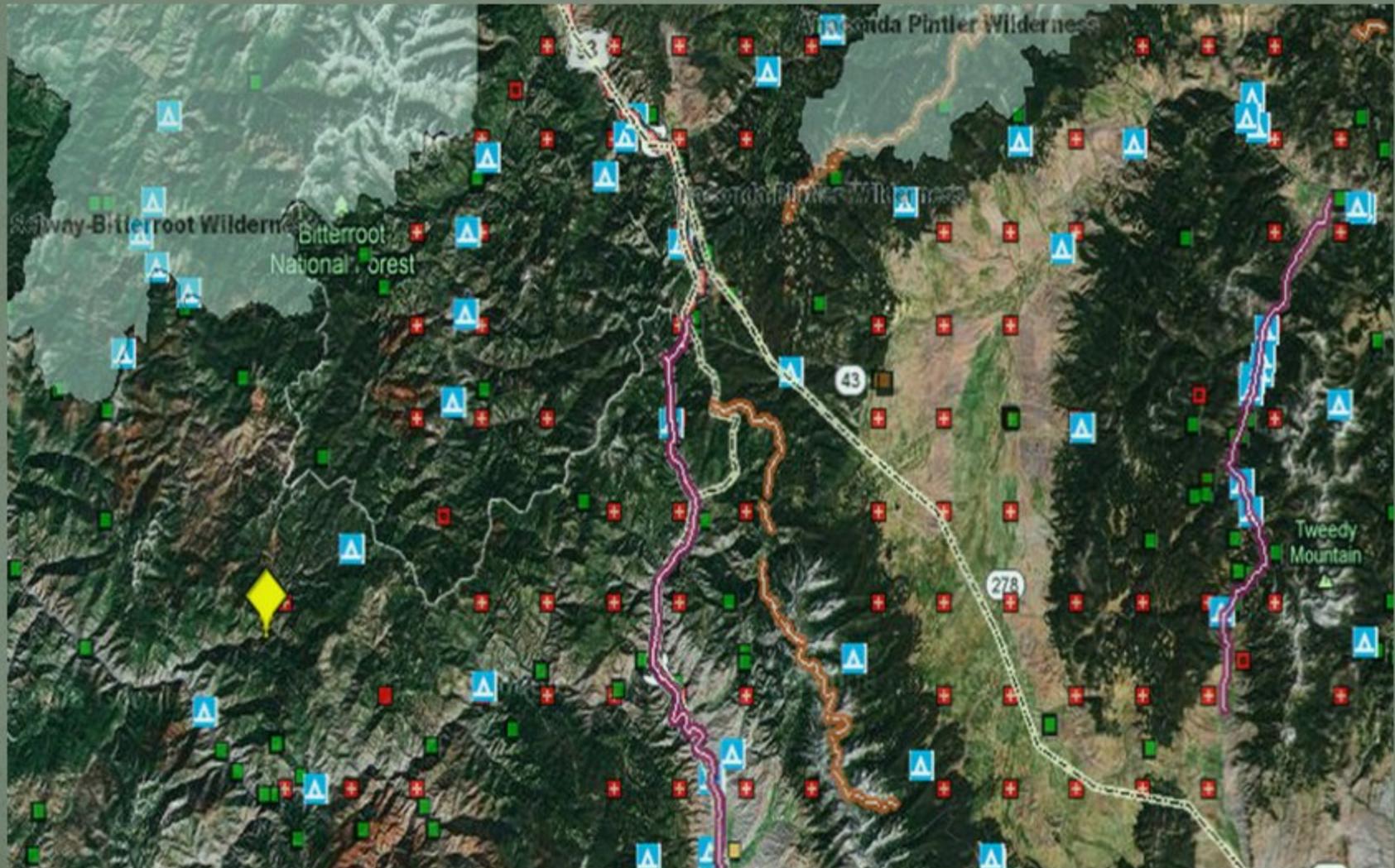


WFDSS – FS-Pro Product



WFDSS-Values

Facilities, Class I Airshed, Roads and Trails



Mobile Technologies in Fire and Aviation Management



What have we done?

- Training - Expansion beyond typical classroom delivery
- Multi-media technologies being used
- Availability of information
- Decision support centers

Technological Advancements? ? ? ?

- Information overload
- Less face time with collaborators
- Multitasking with multi media devices
- Information Security

Where do we go from here?

- We must be mindful as we move forward
 - Data quality & standards
- Continued development of new technologies
 - Improved modeling and layers
 - Weather inputs to models
- Integration of multiple data systems to push and pull information
- Virtual workplaces, training and meeting structures
- Continue collaboration and coordination
- Further integration among the Fire Agencies

Questions?
