

## Fire Science Programs.

The Fire Research and Management Exchange System (FRAMES); National Interagency Fuels, Fire and Vegetation Technology Transfer (NIFTT); and the Wildland Fire Science Partnership (WFSP).

FRAMES provides agency and municipal decision makers with a clearinghouse of up-to-date information and decision resources for a science-based approach to managing wild land fire. It is a virtual shopping mall, a cyber-infrastructure that provides services, information and tools for managers and links them with scientists. Primary funding comes from the US Forest Service (USFS).

FRAMES has combined with the National Interagency Fuels, Fire, and Vegetation Technology Transfer (NIFTT) to provide training courses on the latest techniques, tools and approaches to wild land fire management. NIFTT's mission is to provide land managers with science-based analysis tools and training (e.g., online courses, webinars, tutorials, guidebooks, and workshops) focused on the assessment of fire behavior, fire effects, fire regimes, and vegetation dynamics.

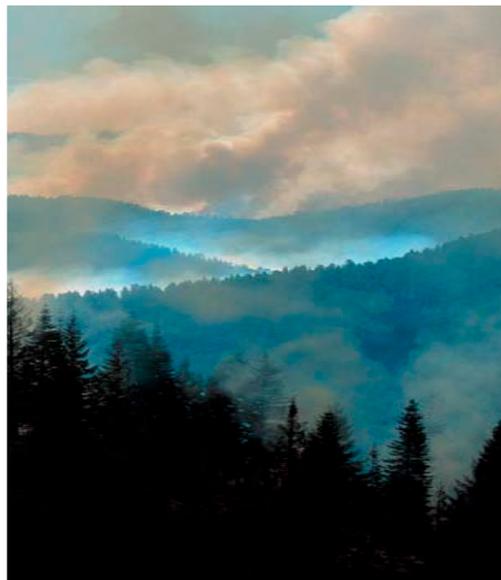
Using the FRAMES web portal, fire managers at all levels of responsibility can run models that predict fire behavior and severity, access resource allocation assistance modules, run simulations and visualizations, map potential damage and loss to lands and structures and threats to municipalities, get guidance on how to implement post-fire restoration projects, and get training on a variety of topics offered by NIFTT. FRAMES provides an array of services for practitioners, including:

- Search or browse the latest research, organized logically by subject and geography,
- Access Joint Fire Science Program (JFSP), USDA Forest Service Fire Labs, and the Wildland Fire Decision Support System (WFDS),
- Share documents, spreadsheets, graphics, presentations, and other information with colleagues in a secure space tailored to the specific needs of their project team or command team, and
- Take on-line NIFTT training courses to stay up to date on the latest techniques, tools and approaches to wild land fire management.

## Accomplishments.

In FY 2012, FRAMES and NIFTT are supporting wildland fire and natural resource professionals and serving thousands of logged-in users and other visitors each month. The FRAMES portal supports and hosts 16 federal websites that provide a variety of services including online training for wildland fire professionals, archives of wildland fire related webinars, and the National Wildland Fire Coordinating Group's Smoke Committee site where their Smoke Management Guide is being revised.

Since 2010, FRAMES has supported the JFSP-funded Knowledge Exchange Consortia, a national network to accelerate the awareness, understanding, and adoption of wildland fire science information by federal, tribal, state, local, and private stakeholders within ecologically similar regions.



FRAMES is providing web and/or resource cataloging support to JFSP-funded consortia in Alaska, Southern Rockies, the Southwest, and will be supporting the newly funded consortia for the Northern Rockies and the Pacific Northwest.

The FRAMES Resource Cataloging System (RCS) containing data records, documents and tools now houses 10,600 records, and provides access to an additional 26,000 records from the Tall Timbers E.V. Komarek Fire Ecology Database. The RCS allows researchers to create relationships between resources and “bundle” them. For example, a tool record can be linked to documents that describe or reference the tool. If the tool is a piece of software it can be linked to a researcher’s datasets for model testing. Managers can use the RCS to keep an historical “bundled” record of data, documents, and tools they use during a project.

### Efficiency: Intra/Inter Agency Partnerships

FRAMES Partners are the USFS Rocky Mountain Research Station (RMRS), US Geological Survey, University of Idaho (UI), Joint Fire Science Program, Bureau of Land Management, National Park Service, National Oceanic and Atmospheric Administration, USFS Wildland Fire Management Research Development & Applications, and the Wildland Fire Science Partnership.

Throughout 2012, USFS labs, NIFTT, and JFSP consortia will continue grow the RCS by adding new records. Also, researchers from the USFS and the Pacific Northwest National Laboratory are partnering with FRAMES to serve a Biomass Emission Factor Database funded by the Strategic Environmental Research and Development Program (SERDP; a partnership between the DOD, EPA and DOE). FRAMES is partnering with Idaho EPSCoR and Idaho National Laboratory (INL) to build the University of Idaho-based Northwest Knowledge Network (NKN) for research data storage, retrieval and preservation, which will provide data services and tools to researchers throughout the region. FRAMES has been recognized by the National Science Foundation (NSF) for its leadership in cyberinfrastructure (CI).

To learn more about FRAMES, please visit: [www.frames.gov](http://www.frames.gov).



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