

Science Delivery and the United States Interagency Joint Fire Science Program

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What is the Joint Fire Science Program?

- ❖ An interagency sponsor of fire science research.
 - USDA Forest Service
 - USDI Bureau of Land Management
 - USDI Bureau of Indian Affairs
 - USDI Park Service
 - USDI Fish and Wildlife Service
 - USDI Geological Survey Biological Division
- ❖ Annual funding \$US 8 to 14 million

What is the JFSP Mission?

- ❖ Provide timely technical information on fire to:
 - Field managers
 - Policy makers
- ❖ In the broad areas of fire:
 - Preparedness,
 - Suppression, and
 - Recovery

What was the JFSP's Tech Transfer Need?

- ❖ Justification of the program
 - Little recognition of accomplishment after \$US 120 million had been spent.
 - Conflicting agency priorities.
- ❖ Many loosely connected studies
 - Made coordinated delivery difficult
 - Weak tie between user needs and research

What was the JFSP's Tech Transfer Need?

- ❖ Existing efforts relied solely on researchers
- ❖ Requirements for user participation were vague and poorly focused

A Three Point Plan to Build Support and Enhance Adoption

- ❖ Stop Gap Measures
- ❖ Innovative Tactics
- ❖ Tried and True Methods

Stop Gap Measures



Open lines of communication
Demonstrate Relevance
Evaluate Past Performance

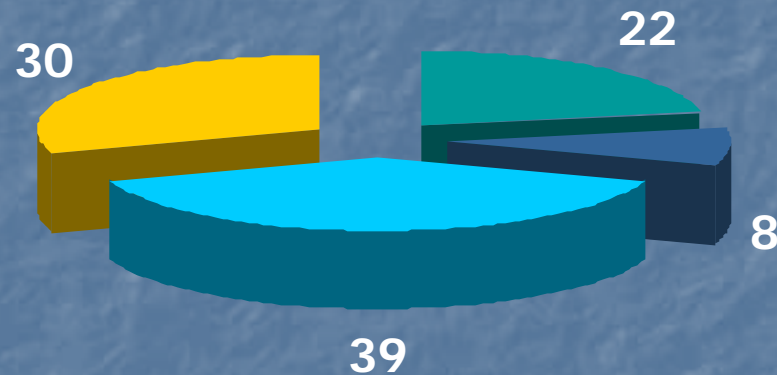
Stop Gap Measures *Lines of Communication*



We Heard You

Evaluate Past Performance

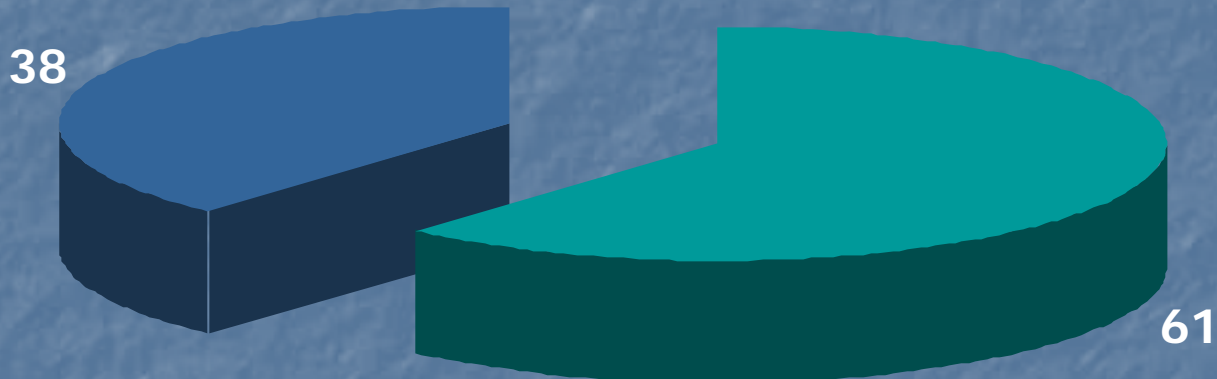
Percent accomplishment



- Produced promised deliverables
- Did not produce promised deliverables
- Altered deliverables and met obligation
- Altered deliverables and did not meet obligation

Evaluate Past Performance

Percent accomplishment



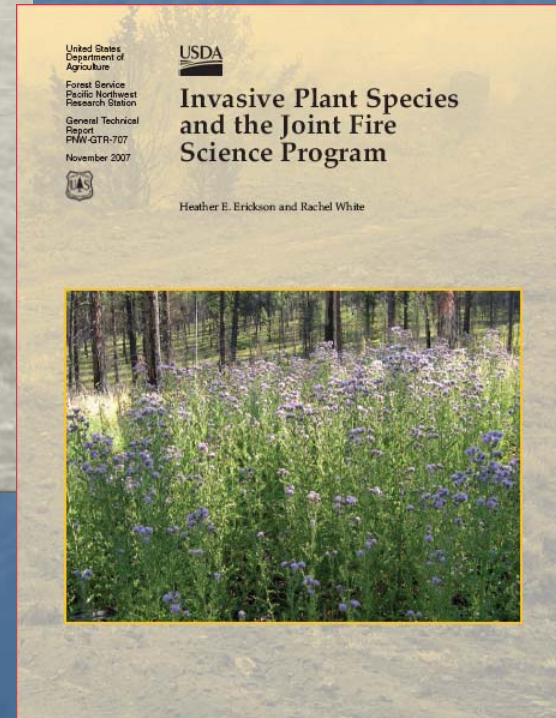
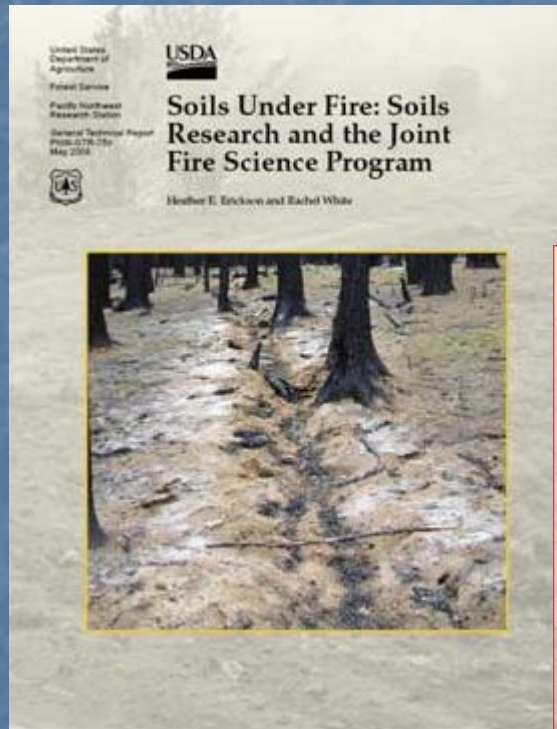
■ Fully Successful ■ Partially Successful or Unsuccessful

Evaluation of Use In NEPA

- ❖ More than half of NEPA documents in last 3 years used JFSP information.
- ❖ Some agencies are much quicker to adopt new information.

Package existing outputs

Synopses



Innovative Tactics



Round Tables

Road Shows

Manager's Views

Include customers in the formal problem framing process

Roundtables



Organize New Studies into *Lines of Work*



Involve Practitioners in the Delivery Process. *Road Shows*



Give Practitioners A Voice

Manager's Views



Tried and True Methods



Glen Allen Nolen

Revamped Website

High Quality Written Information

A New Look for the JFSP *Website*

The screenshot shows the homepage of the Joint Fire Science Program website. The header features the program's logo and name, along with the tagline 'Research Supporting Sound Decisions' and the website URL 'www.fire-science.gov'. A navigation menu includes links for Home, About JFSP, RFAs, Research, Links, and Contact Us. The main content area is divided into three columns. The left column contains a search bar, a list of publications, featured websites, and a logo for the National Fire Plan. The middle column highlights the 'Fire Science Digest' and 'Fire Science Briefs' sections. The right column features a 'Principal Investigator's Corner' with various resources and a 'Mailing List' sign-up.

Joint Fire Science Program
Research Supporting Sound Decisions
www.fire-science.gov

Home About JFSP RFAs Research Links Contact Us

Search Our Projects

Advanced Search

Publications

TreeSearch - your *onestop* site for Research & Development Publications online

Featured Websites


The Journal of the Association for Fire Ecology

Advances in Fire Practice

Fire Management Today

FRAMES

International Journal of Wildland Fire



For the most current fire information available...

logon

Fire Science Digest

This JFSP publication is a summarization of a current issue and is produced several times each year.

- Big Changes in the Great Basin
- The Rothermel Fire-Spread Model: Still Running Like a Champ
- The Fire-Climate Connection

Fire Science Briefs

These JFSP publications are a summarization of a completed research project.

- Fire and Climate in the Inland Pacific Northwest: Integrating Science and Management

You can read more Briefs [here](#).

Science You Can Use

- An Integrated Approach to Evaluating the Economic Costs of Wildfire Hazard Reduction through Wood Utilization Opportunities in the Southwestern United States
- Timber product output implications of a program of mechanical fuel treatments applied on public timberland in the Western United States
- First Edition of Invasive Species Science Update
- Wildfires and Invasive Plants in American Deserts
- Exploring Use of Climate Information in Wildland Fire Management: A Decision Calendar Study

Principal Investigator's Corner

- Fire Research Ideas?
- Final Report Guidelines
- JFSP Logo
- Past-Due and Project Extension Policy
- Request for Extension Form
- Funded Project Requirements

Mailing List

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Documents Written for Practitioners.



New research is measuring the role of climate change and its effects on the region in the Inland North Photo of Wenatchee National Forest-Pacific Northwest Research Station collaborative study area by D. K.

Fire and Climate in the Inland Pacific Northwest Integrating Science and Management

Summary

Climate is a vital force shaping much of life on Earth. People have long suspected a link between susceptibility of forests to fire. But measuring such a relationship has been challenging with capabilities of taking into account climate, forest structure through space and time, and other variables. Managers and planners who make decisions to maintain forest health need an accurate understanding of how climate is linked to fire regimes, as well as tools to help them do it. Such tools would take information and allow it to be accessed in a straightforward and effective way.

Don McKenzie is a research ecologist with the USDA Forest Service at the Pacific Northwest Forest Research Station. He and a team of scientists linked two types of data from sites across eastern Washington: records (the Eastern Washington Fire History dataset) and tree ring chronology data that show climate on tree growth. By uniting these two datasets, the scientists looked at how climate has changed over time. They found an undeniable relationship between fire and climate, including a link to short-term periodicity of fire regime with the El Niño Southern Oscillation and the Pacific Decadal Oscillation. They also found that the 20th century era of fire exclusion "decoupled" the strong link between fire and climate. They expect global climate change to be a major player in the future with surprises in store.



Big Changes in the Great Basin

JFSP-funded researchers are exploring the ecological functioning of sagebrush-steppe communities in the Great Basin and other places in the dry Intermountain West.

Their work is helping managers effectively use tools such as tree mastication and prescribed fire to help these communities

become more resilient in the face of invasive weeds.

Other research is finding ways to reestablish native vegetation on sites

where weedy invaders have pushed the community past the point where it can recover on its own.

