

Archival of legacy datasets from projects conducted by the USFS PNW Fire and Environmental Research Applications Team

Final report to the Joint Fire Science Program

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This project archived the data from several projects conducted with JFSP support by the Fire and Environmental Research Applications Team (USDA Forest Service, Pacific Northwest Research Station, Pacific Wildland Fire Sciences Lab) (FERA). Data is being archived at the Forest Service Research Data Archive (<http://www.fs.usda.gov/rds/archive/>).

JFSP project data were collected, evaluated, prepared for archival, and documented with metadata. A template for FERA metadata was designed, and metadata tools such as Metavist, dbfMeta, and MP were used to prepare metadata.

Submissions to the data archive each include datasets, metadata records, final project reports to the JFSP, and associated publications and tools as appropriate. The Archive is currently in the process of reviewing the submissions prior to final inclusion in the archive. The project team will continue to work with the Archive to ensure the submissions meet Archive standards. With archival, these datasets will be available to other researchers in the future.

Submissions from the following JFSP projects were included in this project:

Research Data Archive ID	JFSP project number
JFSP-2014-003	#01-1-6-01
Fire scar data for eastern Washington, USA	
JFSP-2014-004	#03-1-3-06
Fuel Consumption and Flammability Thresholds in Shrub-Dominated Ecosystems	
JFSP-2014-005	#04-2-1-49
Litter and Duff Bulk Densities in the Southern United States	
JFSP-2014-006	#03-1-3-06
Developing models to predicting fuel consumption in sagebrush-dominated ecosystems	
JFSP-2014-007	#07-2-1-57
Estimates of volume, biomass, and potential emissions of hand-piled fuels	
JFSP-2014-008	#07-1-2-13
Evaluation of fuel treatment effectiveness in the 2006 Tripod Complex fires	
JFSP-2014-009	#01-1-7-02
Photo Series for Major Natural fuel Types of the United States -- Phase III	

JFSP-2014-010	#03-3-3-46	Stereo Photo Series for Quantifying Natural Fuels in the Prairie Forest and Northwestern Great Plains
JFSP-2014-011	#06-1-1-11	Stereo Photo Series for Quantifying Natural Fuels: Post-Hurricane Fuels in Forests of the Southeast United States
JFSP-2014-012	#98-1-1-05	Photo Series for Major Natural fuel Types of the United States -- Phase II
JFSP-2014-013	#08-1-6-01	Validation of fuel consumption models for smoke management planning in the eastern United States
JFSP-2014-015	#03-1-3-08	Forest Floor Consumption and Smoke Characterization in Boreal Forested Fuelbed Types of Alaska
JFSP-2014-016	#09-1-01-19	Landscape analysis of fuel treatment longevity and effectiveness in the 2006 Tripod Complex Fires
JFSP-2014-017	#98-1-9-06	Modification and Validation of Fuel Consumption Models for Shrub and Forested lands in the Southwest, Pacific Northwest, Rockies, Midwest, Southeast and Alaska

The datasets submitted to the archive include all 11 JFSP projects identified in the proposal plus two additional projects conducted by FERA identified after the proposal was accepted, JFSP #01-1-6-01 and JFSP #08-1-6-01.

This project demonstrated the need to prepare for archival of data from the very start of a project. While FERA does still have data from 16 year old projects electronically stored, it is often only a subset of the data collected for a project. For some projects, only processed data was available for archival; not all the raw field data was available electronically. For example, in the fuel consumption studies, the data that was submitted to the archive do include the pre-burn field data, but the post-burn field data was not available. Consumption data (difference between pre- and post-burn) was also archived, so that post-burn data can be reconstructed. Field data collection is typically one of the most expensive parts of a project, and field data has more potential uses than data that has been processed for a particular kind of analysis. The need to set aside data for archival as a project progresses is clear. Future projects at FERA will consider data archival needs from the start of a project.

Deliverables

Proposed	Delivered	Completion Date
Data, metadata, reports, publications, and tools from 11 JFSP Projects submitted to FS Research Data Archive	Data, metadata, reports, publications, and tools from 13 JFSP Projects submitted to FS Research Data Archive	June 2014
Not proposed	Presentation to FERA staff on metadata	January 2013
	Progress report for FY2013	September 2013
JFSP final report	Final report to JFSP	June 2014