Fire Effects Monitoring Tools

Building on the National Park Service's FEAT software and Joint Fire Science Program's FIREMON application, NPS and their business partners, Systems for Environmental Management, Commonthread Inc., and Spatial Dynamics are developing the FFI (FEAT/FIREMON integration) tool. FFI is designed to be a single-source tool that all agencies can use for modeling, assessment, and reporting of fire effects.

- ***FFI*** *(FEAT/FIREMON Integration)*
- ***FEAT*** *(Fire Ecology Assessment Tool)*
- ***FIREMON*** *(Fire Effects Monitoring and Inventory Tool)*
- ***Protocol Manager***

FFI

FEAT-FIREMON Integration

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A multi-agency development project, FFI integrates FEAT and FIREMON into a single software tool. The integration of each system's unique functions will create an enhanced monitoring tool to accommodate data collection and support cooperative, interagency data management and information sharing. The FFI project is led by the National Park Service.

- Supports monitoring for federal land management agencies at the field and research level.
- Fully scalable from the site level to the landscape level.
- Exchanges data with LANDFIRE, FRCC, and the Burn Severity (dNBR) Atlas.
- Supports other natural resource applications, such as satellite imagery classification, vegetation, aquatic habitat, fisheries, and wildlife monitoring.

FEAT

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Developed for the National Park Service Fire Ecology Program, FEAT (Fire Ecology Assessment Tool) is an integrated tabular and spatial information system that supports data management and analysis for immediate and long-term monitoring and reporting of fire effects.

- Resident on desktop server; supports field data collection with PDAs
- Integrates comprehensive analytical tools
- Uses modular interface with ArcMap 9 desktop GIS
- Includes interactive Protocol Manager
- Supports FMH data collection protocols, Composite Burn Index, and others
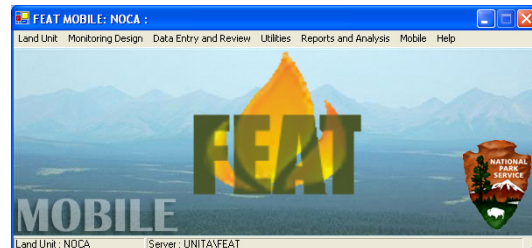
FIREMON

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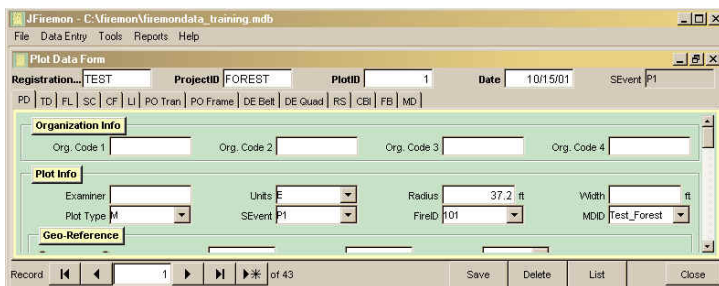
FIREMON (Fire Effects Monitoring and Inventory System) is a mature interagency fire effects monitoring system developed in cooperation with the USDA, USFS, Rocky Mountain Research Station, Missoula Fire Science Laboratory.

- Desktop application
- Includes components and instructions enabling field personnel to design monitoring projects
- Includes data summary and analysis tools

Protocol Manager

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The Protocol Manager is an interactive database management tool that streamlines creation of new protocols and methods for data collection in the field.

- Works seamlessly with FEAT and FFI
- Uses MSDE to create and store protocol database
- Easy export to external database
- Automated forms generation for desktop PCs and PDAs
- Automated metadata support
- Currently in use for Pacific salmon recovery