

Application Validated?

----- Bureau of Land Management -----

Yes

IAMS	Initial Attack Management System	Retired
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In the early 1990s, the Initial Attack Management System (IAMS) was the program and framework to support Bureau of Land Management employees in sound fire suppression decisions. This framework contained several parts; maps which is the graphics display package for all other programs; lightning, Remote Automatic Weather Stations (RAWS), and Computer-Aided Hazard and Information System (CAHIS) which is the aviation functionality. The other parts have all moved to different administrativesites for fire suppression users with the movement from an interactive system to a stand-alone program. However, the basic of the interactive and stand-alone program mirror each other.

Contact: Keith McGillivray **Email:** Keith_McGillivray@nifc.blm.gov

----- California Department of Forestry -----

Yes

	California Fire Plan	Active
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Computer driven assessment of 1) Level of Service; 2) Critical Fire Weather; 3) Fuels; 4) Assets at Risk that are compiled in a GIS format that identifies critical wildfire areas that will be targeted for mitigation projects. The CFP looks to reduce fire fighting costs and property losses, increase firefighter safety, and to contribute to ecosystem health. Mitigation projects include fuel modification, landscaping and land use changes.

Contact: Rich Schell **Email:** rich.schell@fire.ca.gov

Yes

	California Fire Incident Reporting System Data Warehouse	Active
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Houses 10+ years of historical CFIRS data, contains 50 standardized statistical reports and Crystal Reports 8.0 front end for ad hoc data queries performed by SFM Data Collection Program staff

Contact: Melissa Frago or Susan Kingren **Email:** melissa.frago@fire.ca.gov

Yes

AIMS	Aircraft Information Management System	Active
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The AIMS program provides information on CDF's utilization of air assets. AIMS tracks aircraft flight time, retardant costs, pilot times, per diem and other associated incident costs. This data is used by CDF Finance to recover aircraft costs from other Agencies. The data is also used to provide aircraft status and maintenance information for AMU.

Contact: James Ramage **Email:** jim.ramage@fire.ca.gov

Yes

CFIRS	California Fire Incident Reporting System	Retired
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Statewide emergency incident data program that collects, compiles, analyzes and distributes statistical information reported by the California Fire Service. CFIRS was created in 1974 in response to Health and Safety Code 13110.5 to provide fire data and information to the fire community, and as a resource for the public. The data collected by CFIRS includes such information as numbers of fires, causes of fires, types of fires, location of fires, and fire-caused deaths. The information is used to help fire departments target their resources and education programs, as well as develop and support fire safety legislation.

Contact: Melissa Frago or Susan Kingren **Email:** melissa.frago@fire.ca.gov

Yes

ERD	Emergency Resource Directory	Active
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This application is used to track and manipulate employee qualifications for fireline assignments. It tracks and manipulates Hired Equipment (Dozers, Water Tenders, Rental Equipment, etc.) It also tracks Helibase, Helispot, Landing Zones, Bridge Limitations, Incident Base, Staging Area's. It can also be used to track special equipment (Jaws, Air Bags, etc) by agency and by resource. It can also be used as a rolodex to track information relating to Allied Agencies, Fire Departments, Fire Stations, and special facilities. It will generate various reports based on the above information.

Contact: Jake Goetz **Email:** jake.goetz@fire.ca.gov

Application Validated?

----- California Department of Forestry -----

Yes **PCFIRDAT** *PC - FireFamily* Retired

pcFIRDAT is a PC-based version of the FIRDAT fire behavior model, one of the three component routines in the USDA Forest Service's FIRE FAMILY program. The pcFIRDAT program was rdeveloped by the California Division of Forestry (CDF, 1994). FIRDAT (and pcFIRDAT) combines fire weather station attributes (e.g., elevation, latitude, surrounding fuel types, slope) with daily weather records and the equations of the National Fire Danger Rating System. The daily weather records for specific station locations are obtained from the National Interagency Fire Management Integrated Database (NIFMID) at the USDA's National Computer Center in Kansas City. Output from the pcFIRDAT routine produces frequency distributions, tables, and graphs of the NFDRS indices and components.

Contact:

Email:

----- Commercial Off-The-Shelf -----

Yes **FIREAWAY** *FireAway* Active

FireAway is a subset of the Behave software, plus additional tools and calculations from the Fireline Handbook, that runs on a handheld Palm computer. FireAway provides information such as relative humidity from wet & dry bulb readings, fuel moisture, probability of ignition, midflame windspeed, and fire behavior indicators (e.g., flamelength, rate of spread, heat, fireline intensity, direction of maximum spread). FireAway includes online help screens as well as reference resource such as suppression resource production rage, resoure typing, and a hand signals reference.

Contact: John Covele

Email:

Yes **FIREDIRECT** *FireDirect* Active

FireDirect from RedZone Software is mapping software providing innovative GIS capabilities for agencies fighting fires in the Wildland/Urban Interface.

Contact: Clark Woodward

Email: info@redzonesoftware.com

Yes **FIRESTORM** *Firestorm Pro* Active

Firestorm Pro is a wildland firefighting simulation program. You act as an Incident Commander. Use the four ground crews to cut firelines for structure protection, Dispatch the two air tankers to drop retardant, slowing the fire's advance and protecting the flanks of the ground crews, dispatch the helitack to pick up water and drop on hotspots, set backfires to stop the advancing flames.

Contact:

Email: info@cricketsoftware.com,

Yes **FMA Plus** *Fuels Management Analyst Plus* Active

FMA Plus is a software package that includes a suite of tools designed to calculate Down and Dead Woody inventories, using digital photo series, calculating Crown Mass for fire behavior predictions, and allows for the user to create their own fuel models to fit the local area. The software catalogs and runs reports for Brown's DDWoody inventories, creates data files to store stick counts, calculates and predicts fire behavior for Crown Mass. The software also creates a digital photo series with the option to make side-by-side comparisons and print photos for burn plans with the fuel loading.

Contact: Donald W. Carlton

Email: DCarlton@fireps.com

Yes **N/A** *Fire Weather Plus 2000* Unknown

Fire Weather Plus 2000 software is PC based Management and Presentation software that collects weather data, makes calculations, and runs reports. Built-in support for data collection from FTS weather stations, Campbell Scientific, and all stations transmitting with GOES. Manual weather data input and automated import tools for other computer-based data sources.

Contact:

Email:

Application Validated?

----- Commercial Off-The-Shelf -----

Yes

WFSA Plus	Wildfire Fire Situation Analysis	Unknown
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WFSA Plus is an automated tool designed to facilitate and improve decision making for wildland fire management. The software helps you organize, analyze and present data used in Wildland Fire Assessment (WFA), preparing a Wildland Fire Implementation Plan (WFIP), and Wildland Fire Situation Analysis (WFSA). Throughout WFSA Plus, you use a series of screens to gather and organize information about a wildland fire and possible responses. The results are presented in text, graphic and tabular formats. The final product is one or more printed reports.

Contact: John Anderson *Email:* balance@balancetech.com

----- National Oceanic and Atmospheric Administration -----

Yes

FX-Net	FX-Net	Active
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FX-Net is a software system designed to display integrated weather data. The integrated weather data consists of radar, satellite, surface observation and forecast weather model imagery. The system utilizes existing internet capabilities and is linked to a specific server farm in Boulder, Colorado. FX-Net is intended for and utilized by Predictive Services and Incident Meteorologists for briefings, incident support and assessment/forecast products.

Contact: Heath Hockenberry *Email:* heath_hockenberry@nifc.blm.gov

----- National Park Service -----

Yes

FEAT	Fire Effects Assessment Tools	In Development
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Fire Ecology data collection, data handling, and data analysis application. FEAT utilizes a PDA datalogger to capture fire effects and vegetation data in the field, a "desktop" data management system, and a statistical package to conduct analyses and produce data reports.

Contact: Ed Delaney *Email:* ed_delaney@nps.gov

Yes

FIREPRO	Fire Program Budget Analysis System	Active
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FirePro is a NPS budgeting and planning application on the Shared Application Computer System (SACS). It is currently in the maintenance mode. It will be replaced with the interagency Fire Program Analysis (FPA) in fy 2004.

Contact: Gladys Crabtree *Email:* gladys_crabtree@nps.gov

Yes

SAM	SAM Sensitive Area Program	Active
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Provided as an ArcView 3x extension. Provides compilation/overlay of value layers. Value layers can be rated, scaled using any variables and then analyzed to output a map showing the sums of layers. Documentation, legends, and output versions are tracked and stored.

Contact: Leslie Armstrong *Email:* leslie_armstrong@nps.gov

Yes

WFMCS	Wildland Fire Management Computer System	Retired
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Consists of several subsystems: Aviation, Fire Occurrence Statistical Reporting, FirePro, Fire Training, Fire Weather, Incident Qualifications and Certification System (IQS), National Interagency Incident Management, Situation Reporting System; provides a range of fire management tools for the National Park Service; uses COBOL programming language for all subsystems; also uses FORTRAN language for Fire Training and Fire Weather

Contact: Gladys Crabtree *Email:* gladys_crabtree@nps.gov

Application Validated?

----- Other Office or Agency -----

Yes	<p>FHX2 FHX2 Active</p> <p>FHX2 is software developed to analyze the fire history of forests revealed by fire scars and other fire-related injuries found in the annual growth rings of trees. FHX2 provides a means for entering, archiving, storing, editing, and manipulation of fire history information from tree rings, which in turn, provides a more efficient mechanism for data storage and exchange. FHX2 creates master fire charts displaying fire chronologies for individual trees or for individual sites. FHX2 has powerful statistical functions for analyzing the seasonality of past fires, temporal changes in fire regimes, or spatial differences in fire occurrence between sites. FHX2 also provides access to a superposed epoch analysis program for analyzing the relationship between past fire and climate.</p> <p><i>Contact:</i> Dr. Henri D. Grissino-Mayer <i>Email:</i> grissino@valdosta.edu</p>
Yes	<p>fireLib fireLib Active</p> <p>fireLib is a C language function library for predicting the spread rate, intensity, flame length, and scorch height of free-burning surface fires. It is derived directly from the BEHAVE fire behavior algorithms for predicting fire spread in two dimensions, but is optimized for highly iterative applications such as cell- or wave- based fire growth simulation. fireLib was developed to give fire growth modellers a simple, common, and optimized application programming interface to use in their simulations.</p> <p><i>Contact:</i> Collin D. Bevins <i>Email:</i> cbevins@sem.net</p>
Yes	<p>FRAMES Fire Research and Management Exchange System In Development</p> <p>FRAMES is an ongoing project that will serve the information and tools needs of the wildland fire community, their partners, and the public.</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>
Yes	<p>IQS Incident Qualifications System Active</p> <p>State All-Risk training and workforce analysis application.</p> <p><i>Contact:</i> Keith Smith <i>Email:</i> Keith.Smith@wadnr.gov</p>
Yes	<p>ROMAN Real-time Observation Monitor and Analysis Network In Development</p> <p>ROMAN is an online observation network tailored to the needs of the fire community. ROMAN is unique in that it pulls together observations from all different types of sources into a single system (RAWS, NWS, Snotel, state and federal obs networks, and any other obs they can get their hands on). The data base covers all 50 states except Hawaii and makes them available in "Real-Time"! These observations can be pulled up in 3 different ways; 1) by area, 2) by source, and 3) by type of product.</p> <p><i>Contact:</i> Edward Delgado <i>Email:</i> Edward_Delgado@blm.gov</p>
Yes	<p>TERM Powerterm,Netterm,Webterm Active</p> <p>Terminal emulation packages used by various wildland fire agencies for access to the Automated Sorting, Conversion and Distribution System (ASCADS). It is likely that all of these packages will continue to be necessary until the re-engineered version of ASCADS is complete. Estimate of time to completion would need to come from the BLM.</p> <p><i>Contact:</i> Kolleen Shelley <i>Email:</i> kshelley@fs.fed.us</p>
Yes	<p>Toolbox Toolbox Active</p> <p>Software used in troubleshooting and maintaining RAWS stations manufactured by Forest Technology Systems (FTS).</p> <p><i>Contact:</i> Kolleen Shelley <i>Email:</i> kshelley@fs.fed.us</p>

Application Validated?

----- Other Office or Agency -----

Yes **VDDT** **Vegetation Dynamics Development Tool** **Active**
The Vegetation Dynamics Development Tool (VDDT) is a user-friendly, Windows-based computer tool which provides a modeling framework for examining the role of various disturbance agents and management actions in vegetation change.

Contact: Jim Merzenich **Email:** jmerzenich@fs.fed.us

Yes **WHIMS** **Wildfire Hazard Identification and Mitigation System** **Unknown**
Using GIS as the medium, WHIMS is designed to collect site-specific fire hazard information; compile the information into a central database; display the information as various kinds of maps, tables, and other graphical outputs; and get the information out to individuals to be used on the ground. WHIMS combines wildfire hazard assessment, prevention, and suppression expertise, with fire and forest management knowledge using geographic data management and analysis techniques and technologies.

Contact: Eric Philips **Email:** ephilips@co.boulder.co.us

----- United States Forest Service -----

Yes **Severity Maps** **Inactive**
Produces fire severity maps by geographic area; plots various levels of fire severity using the National Fire Danger Rating System (NFDRS) by comparing current conditions to historic norms for specified sites.

Contact: **Email:**

Yes **AMIS** **Aviation Management Information System** **Active**
An ORACLE relational database management system that handles aircraft use information for both contract and Forest Service owned aircraft. The information is summarized and reported to USDA and GSA on a regular basis. The system is designed to allow units to share data and reports between units.

Contact: Penny Sternberg **Email:** psternberg@fs.fed.us

Yes **AROS** **Automated Resource Order System** **Retired**
Creates, manages, and automatically forwards resource orders to predesignated sites. Updates status of orders for originators. Interacts with resource database to assign resources and resource requests. Moves resource data between units. Can be used at the National Interagency Coordination Center (NICC), on actual incidents, at Districts and Forests, and at dispatch and coordination centers

Contact: **Email:**

Yes **BehavePlus** **BehavePlus fire modeling system** **Active**
BehavePlus is a Windows application to predict wildfire behavior for fire management purposes. It is designed for use by wildfire managers who are familiar with fuels, weather, topography, wildfire situations and the associated terminology. BehavePlus uses a minimum amount of site-specific input data to predict fire behavior for a single point in time and space. Results are displayed in tables, graphs, and diagrams. Replaces the former BEHAVE fire behavior prediction and fuel modeling system.

Contact: Patricia Andrews **Email:** pandrews@fs.fed.us

Yes **CIS** **Cache Inventory System** **Retired**
Inventories and controls equipment on hand and issued to the field. Used for invoices, packing lists, and critical-item status reports. Manages inventory levels, facilitates order and shipment of field supplies, records purchasing activities, and manages accounts of current customers.

Contact: **Email:**

Application Validated?

----- United States Forest Service -----

Yes	<p>CONSUME <i>CONSUME</i> Unknown</p> <p>Consume 2.1 is an interactive fuel consumption model that predicts total and smoldering fuel/biomass consumption during prescribed fires and wildland fires. Predictions are based on weather data, the amount and fuel moisture of fuels, and a number of other factors.</p> <p><i>Contact:</i> David V. Sandberg <i>Email:</i> dsandberg@fs.fed.us</p>
Yes	<p>DFINV <i>Dead and Down Fuels Inventory</i> Inactive</p> <p>Uses the Planar Intercept method to predict dead-and-down fuel loading, based on user plot data.</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>
Yes	<p>DU <i>Dispatch Utilities</i> Retired</p> <p>Dispatch Utilities includes ADaM (Aircraft Data Manager) and SRSS (Sunrise - Sunset) programs. ADaM is a tool for flight planners to determine the optimum aircraft-flight combination to fill a request(s) for aircraft services. Included with ADaM is the Sunrise-Sunset time tables for calculating daylight hours for flight time.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
Yes	<p>EPM <i>Emissions Projection Model</i> Active</p> <p>EPM is an interactive computer model that predicts the time rate of fuel consumption and emissions from wildland biomass burns. It can be used as a stand-alone program for estimating emissions from individual fires. It also can provide input to smoke dispersion models to estimate smoke trajectories from individual or multiple fires and has been linked with SASEM, PUFF, NFSpuff, VSMOKE, TSARS Plus, and CALPUFF.</p> <p><i>Contact:</i> David V. Sandberg <i>Email:</i> dsandberg@fs.fed.us</p>
Yes	<p>FARSITE <i>FARSITE</i> Active</p> <p>FARSITE is a fire growth simulation model. It uses spatial information on topography and fuels along with weather and wind files. FARSITE incorporates the existing models for surface fire, crown fire, spotting, post-frontal combustion, and fire acceleration into a 2-dimensional fire growth model. users must have the support of a geographic information system (GIS) to use FARSITE because it requires spatial landscape information to run.</p> <p><i>Contact:</i> Mark Finney <i>Email:</i> mfinney@fs.fed.us</p>
Yes	<p>FEIS <i>Fire Effects Information System</i> Active</p> <p>FEIS is a computerized encyclopedia of information describing the fire ecology of more than 1,000 plant and animal species for the North American continent. FEIS summarize current information in an easily accessible web page application. FEIS provides information to help plan a prescribed fire or write a fire management plan. It can also provide information for other vegetative management activities such as: silviculture, range management, wildlife habitat improvement, land rehabilitation or ecosystem restoration. The information is also useful in preparing EA, EIS or NEPA documents. www.fs.fed.us/database/feis</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>
Yes	<p>FEPMIS <i>Federal Excess Property Management Information System</i> Active</p> <p>FEPMIS was developed as a comprehensive property management system designed to meet all audit requirements imposed upon the states by law and regulation, and to provide a tool for the States to improve and assist in the effective management of FEPP.</p> <p><i>Contact:</i> Brad Harwood <i>Email:</i> bharwood@fs.fed.us</p>

Application Validated?

----- United States Forest Service -----

Yes	FFP	FireFamily Plus	Active
	<p>FireFamily Plus is software for summarizing and analyzing daily weather observations and computing fire danger indices based on the National Fire Danger Rating System (NFDRS). While the software and packaging are new, many of the reports are not. FireFamily Plus addressed the year 2000 issues that confronted a litany of DOS programs that operated against fire weather files and combined the critical functionality of many of those programs into one 32-bit Windows program.</p> <p><i>Contact:</i> Larry Bradshaw <i>Email:</i> lbradshaw@fs.fed.us</p>		
Yes	FIREHARM	Fire Hazard Rating Model	In Development
	<p>This model will integrate weather, vegetation and fuels for science-based assessment of fire potential and hazard.</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>		
Yes	FIREMON	Fire Effects Monitoring System	Active
	<p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>		
Yes	FIRES	Fire Information Retrieval and Evaluation System	Retired
	<p>Fire Information Retrieval and Evaluation System (FIRES) provides methods for evaluating the performance of fire danger rating indexes. The relationship between fire danger indexes and historical fire occurrence and size is examined through logistic regression and percentiles. Historical seasonal trends of fire danger and fire occurrence can be plotted and compared. Methods for defining critical levels of fire danger are provided.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcc.gov</p>		
Yes	FIRESTAT	Fire Statistics System	Active
	<p>FireStat is a mandatory, PC Client/Server software application for electronically capturing the information from the FS-5100-29, Individual Fire Report. As described in FSH 5109.14, fire statistics data derived from individual fire reports will be loaded into the National Interagency Fire Management Integrated Database (NIFMID), the database for fire occurrence data, at the National Interagency Technology Center.</p> <p><i>Contact:</i> Penny Sternberg <i>Email:</i> psternberg@fs.fed.us</p>		
Yes	FOFEM	First Order Fire Effects Model	Active
	<p>FOFEM is an easy-to-use computer program for predicting effects of prescribed fire and wildfire. FOFEM predicts fuel consumption, smoke production, tree mortality, soil heating and burnout. FOFEM contains data and prediction equations that apply throughout the contiguous U.S. for forest and rangeland vegetation types that experience fire. The program uses four geographic regions and SAF/FRES vegetation types. Potential uses include wildfire impact assessments, developing of salvage specifications, design of fire prescriptions, environmental assessments and fire management planning. FOFEM can also be used in a real-time mode to help make predictions for ongoing wildfires. FOFEM 5.0 development is a Joint Fire Sciences funded project</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>		
Yes	IAP	Incident Action Plan	Active
	<p>The IAP enables a user to utilize the data in the I-Suite database to produce the Incident Action Plans for the incident.</p> <p><i>Contact:</i> Jon C. Skeels <i>Email:</i> jskeels@fs.fed.us</p>		

Application Validated?

----- United States Forest Service -----

Yes	ICARS	<i>Incident Command Accounting and Reporting System</i>	Active
	<p>The Incident Cost Accounting and Reporting System (ICARS) is designed to allow you to easily track individual resources in a database format. The system creates a line for every resource for every day. The ICARS user can then analyze, manipulate, and create outputs of this information in a variety of report formats.</p> <p>ICARS has been integrated into the I-Suite of applications and is now capable of running networked to many PC's all working from the same database.</p> <p><i>Contact:</i> Jon C. Skeels <i>Email:</i> jskeels@fs.fed.us</p>		
Yes	ICBS	<i>Interagency Cache Business System</i>	Active
	<p>ICBS is the automated cache inventory system designed to assist in inventory control and cost accounting for all items stocked in the National Fire Equipment System (NFES). The application is intended for use by the USDA, Forest Service (FS) and USDI, Bureau of Land Management (BLM) National Interagency Support Caches.</p> <p><i>Contact:</i> Penny Sternberg <i>Email:</i> psternberg@fs.fed.us</p>		
Yes	IRSS	<i>Incident Resource Status System</i>	Active
	<p>The Incident Resource Status System (IRSS) is one application contained within the Incident Suite of applications (I-Suite). IRSS is an automated resource tracking system that provides information about resources assigned to incidents. It is a tool intended to make record keeping and status assessment easy. IRSS provides a convenient, standardized approach to managing incident resource data, allowing you to quickly enter, check, sort and report on any resource or group of resources at a fire. By using IRSS, time and effort can be saved by reducing paperwork and limiting confusion caused by data entry errors. IRSS can be used at an individual incident, for a group of incidents, or at the dispatch level. IRSS can be used as a standalone database or can be shared among networked PCs.</p> <p><i>Contact:</i> Jon C. Skeels <i>Email:</i> jskeels@fs.fed.us</p>		
Yes	ISUITE	<i>ISUITE</i>	Active
	<p>The I-Suite application consists of the Incident Resource Status System (IRSS), Incident Cost Accounting and Reporting System (ICARS), Incident Time System (ITS) and the Incident Action Plan (IAP).</p> <p>Together, these applications are called the "I-Suite" (IRSS, ICARS, ITS, IAP = I-Suite). These applications are integrated, which means that they have a similar user interface, and share a common database. Data need only be entered once to be available to all the applications. Each application will still work independently, when necessary.</p> <p><i>Contact:</i> Jon C. Skeels <i>Email:</i> jskeels@fs.fed.us</p>		
Yes	ITS	<i>Incident Time System</i>	Active
	<p>The Incident Time System (ITS) is a product component of the I-Suite Incident System. The functions of the ITS are related to the collection and tracking of incident time for Federal, Casual (AD), miscellaneous personnel, also for Emergency Contracted Equipment.</p> <p><i>Contact:</i> Jon C. Skeels <i>Email:</i> jskeels@fs.fed.us</p>		
Yes	LANDSUM	<i>Landscape Simulation Model</i>	Active
	<p>Spatially explicit landscape dynamics simulation model.</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>		
Yes	LFBGC	<i>LANDFIRE-US Biogeochemical Modeling</i>	Active
	<p>A model to simulate ecosystem process dynamics across a spatial domain to be used as independent variables for consistently mapping biophysical settings that identify unique successional pathways.</p> <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>		

Application Validated?

----- United States Forest Service -----

Yes	<p>NACS National Automated Cache System Retired</p> <p>Manages fire cache inventory; facilitates inter-cache communication of critical supply items</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
Yes	<p>NEXUS NEXUS Active</p> <p>NEXUS is an Excel spreadsheet that links surface and crown fire prediction models. It is used to:</p> <ul style="list-style-type: none"> - estimate surface, transition, and crown fire behavior, - generate site specific indices of torching and crown fire potential, - build and test custom surface fuel models, - evaluate alternative treatments for reducing risk of crown fire, - explore the influence of different factors on predicted fire, behavior and crowning potential using existing fire behavior models, - assess potential for crown fire activity on a working or hypothetical fire. <p><i>Contact:</i> Cam Johnston <i>Email:</i> cjohnston@fs.fed.us</p>
Yes	<p>NFDRS-PC National Fire Danger Rating System Retired</p> <p>Facilitates day-to-day fire weather analysis; processes weather observations and forest/rangeland fuels data to produce probable wildland fire danger indices</p> <p><i>Contact:</i> <i>Email:</i></p>
Yes	<p>NFMAS National Fire Management Analysis System Active</p> <p>NFMAS analyzes data and alternatives for fire planning and budgeting. NFMAS calculates the Most Efficient Level (MEL) of funding for firefighting resources based upon average historic fire activity. Analyzes historic data and develops key numbers that reflect the historical fire occurrence base for a fire planning project area.</p> <p><i>Contact:</i> Penny Sternberg <i>Email:</i> psternberg@fs.fed.us</p>
Yes	<p>NFODL National Fire Occurrence Data Library Retired</p> <p>Collects computerized historical weather data.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
Yes	<p>NFWDL National Fire Weather Data Library Retired</p> <p>Historic Fire Weather Data Library contained historic fire weather records</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
Yes	<p>NIFMID National Interagency Fire Management Integrated Database Active</p> <p>Stores historical data about wildland fire occurrence and weather including Forest Service data from 1970-present, some earlier data, and data from other agencies. Automatically archives fire weather observations from the Weather Information Management System (WIMS).</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
Yes	<p>OVERSTAT Overhead Resource Status Retired</p> <p>Maintains current availability status for miscellaneous overhead personnel; automatically reports data to higher levels of the dispatch organization</p> <p><i>Contact:</i> <i>Email:</i></p>
Yes	<p>PCDANGER PCDanger Retired</p> <p>PCDanger facilitates day-to-day fire weather analysis of observations producing indices using the NFDRS calculations currently being used at WIMS.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>

Application Validated?

----- United States Forest Service -----

Yes	PLUMP	PLUMP	Inactive
	PLUMP is a one-dimensional time dependent plume model that includes parameterized cloud physics and entrainment. It generates vertical profiles of water vapor, cloud particles, rain and ice, temperature anomaly between the plume and surroundings, and vertical velocity from a vertical sounding of the atmosphere and varying boundary conditions. It is not wind-dependent, modeling only vertical motion in a windless environment. PLUMP can also be used to simulate simple convective clouds, both from orographic lifting and air mass. PLUMP should be useful for prescribed burning and for general smoke management. It will also find use in helping to estimate conditions for lightning activity, fire blowup, and downbursts.		
	<i>Contact:</i>	<i>Email:</i>	
Yes	QUALS	Fire Qualifications - Fire Quals Listing	Retired
	Collects personnel qualifications and data necessary to produce a "redcard"; does not validate whether the person has the prerequisite training and/or experience for the qualification		
	<i>Contact:</i>	<i>Email:</i>	
	<i>Contact:</i>	Help Desk	<i>Email:</i> fire_help@dms.nwcg.gov
Yes	REDCARD	Redcard Qualification System	Active
	REDCARD maintains and provides access to the Incident Command System qualifications of people.		
	<i>Contact:</i>	<i>Email:</i>	
	<i>Contact:</i>	Penny Sternberg	<i>Email:</i> psternberg@fs.fed.us
Yes	RESTAT	Resource Status - Region 1	Retired
	Manages the status and current location of four categories of resources; Aircraft, Crews, Equipment, and Overhead; designed to derive its own information from databases such as ICS.DB, and to supplement it with other information needed to make assignments; integrated with PRESENT for report writing and with AROS for making assignments		
	<i>Contact:</i>	<i>Email:</i>	
	<i>Contact:</i>	Help Desk	<i>Email:</i> fire_help@dms.nwcg.gov
Yes	WFAS	Wildland Fire Assessment System	Active
	WFAS, the Wildland Fire Assessment System, is an internet-based information system. The current implementation provides a national view of weather and fire potential, including national fire danger and weather maps and satellite-derived "Greenness" maps. Development is continuing. It also provides a real time, on-line archive of its map products.		
	<i>Contact:</i>	<i>Email:</i>	
	<i>Contact:</i>	Larry Bradshaw	<i>Email:</i> lbradshaw@fs.fed.us

----- Bureau of Indian Affairs -----

No	SAFENET	SafeNet	Active
	SAFENET is a database that provides a forum for firefighters to voice their safety concerns, facilitate problem solving, and to aid in identifying trends as they relate to firefighter safety. Safenet data may be submitted in hardcopy or electronic form via web-based interface.		
	<i>Contact:</i>	<i>Email:</i>	
	<i>Contact:</i>	John Gould	<i>Email:</i>

----- Bureau of Land Management -----

No		RamAir Simulator	Unknown
	Flight simulator; simulates RamAir flights to practice flying and landing a RamAir canopy under different wind and terrain features		
	<i>Contact:</i>	<i>Email:</i>	
	<i>Contact:</i>		<i>Email:</i>

Application Validated?

----- Bureau of Land Management -----

No	AFS-FWD	Alaska Fire Service Fire Weather Database	Unknown
	<p>The AFS Fire Weather Database provides access to fire weather information from a variety of sources such as RAWS (Remote Automated Weather Stations) and manually observed weather data. Output formats include display of hourly weather station sensor data, recent sensor data for a group of stations, and fire weather products including daily FWI (Fire Weather Indices) and fire weather forecasts.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	ALDS-IAMS	Automated Lightning Detection System - IAMS	Retired
	<p>Plots detected lightning strikes for the Western United States.</p>		
	<p>From 1976 through 1996 fire managers in the 11 Western states and Alaska received lightning data from the BLM network of lightning direction finders. The network was owned by the BLM and maintained by BLM staff stationed at the National Interagency Fire Center (NIFC) in Boise, Idaho.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	ASCADS	Automated Storage Conversion and Distribution System	Active
	<p>Downlinks, processes, forwards, and stores data from Remote Automated Weather Stations (RAWS), and is the system of record for the metadata about these stations.</p>		
	<i>Contact:</i> Keith McGillivray	<i>Email:</i> Keith_McGillivray@nifc.blm.gov	
No	CAHIS	Computer Aided Hazard Information System	Unknown
	<p>In 1988, representatives from several Federal agencies began to study how the benefits of the USFS Computer Aided Navigation (CAN) program could be applied to BLM Initial Attack Management System (IAMS). IAMS is a computerized system designed to provide intelligence that helps managers more effectively dispatch initial forces to incident sites. The system built was originally called CAHIS. It was officially recognized as a part of IAMS (within the MAPS program) in 1991.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	CAN	Computer-Aided Navigation	Retired
	<p>Calculates bearing and distance from airports, helibases, etc., to a specified destination. Identifies flight hazards and restrictions, such as military operations areas and training routes.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	EFF-PAY	Emergency Fire Firefighter Pay System	Active
	<p>The Emergency Firefighters System, EFF-Pay is an automated system which supports payment to the casual firefighters and provides payments to vendors in association with emergency firefighting.</p>		
	<i>Contact:</i> Barb McCuskey	<i>Email:</i>	
No	FATE	Fuels Assessment and Treatment Evaluation	Retired
	<p>FATE is a software-based fuel management planning program.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	RAMS	Risk Assessment and Mitigation Strategies	Active
	<p>RAMS provides a consistent process for developing prevention and fuels management programs. RAMS allows users to prioritize areas within their planning unit, consider various prevention and/or fuels treatment alternatives, and develop a budget. RAMS includes three components: Assessment, Prevention, and Fuels.</p>		
	<i>Contact:</i> Pat Durland	<i>Email:</i> Pat_Durland@blm.gov	

Application Validated?

----- Bureau of Land Management -----

No	WARS	Wildfire Automated Reporting System	Unknown
	Records all phases of a fire on BLM-administered land; collects data for thirteen Western states, including Alaska; maintains master file by calendar year		
	<i>Contact:</i>	<i>Email:</i>	
No	WFMI	Wildland Fire Management Information	Active
	WFMI is an internet portal developed by the Bureau of Land Management's National Software Development Unit (NSDU) and hosted by the BLM at the National Interagency Fire Center. WFMI provides access to four automated systems: Weather, Lightning, Aviation, and Fire Reporting. It also provides links to other systems of interest to the fire community.		
	<i>Contact:</i> Greg Jensen	<i>Email:</i> Greg_Jensen@blm.gov	
No	WPAP	Wildfire Prevention Analysis and Plan	Unknown
	Develops written fire prevention plans; identifies hazards, risks, and values in "prevention compartments" throughout the planning unit		
	<i>Contact:</i>	<i>Email:</i>	

----- California Department of Forestry -----

No	AIRS	Aircraft Incident Reporting System	Unknown
	Database of aircraft incidents and accidents.		
	<i>Contact:</i>	<i>Email:</i>	
No	CAD	Computer-Aided Dispatch	Retired
	Facilitates automated initial attack dispatching based upon pre-planned response levels; maintains resource status information that can be shared with other applications; provides conversions between latitude/longitude and legal descriptions; tracks resources committed		
	<i>Contact:</i>	<i>Email:</i>	
No	CALCAD	Computer-Aided Dispatch - California Version	Unknown
	Facilitates automated initial attack dispatching based upon pre-planned response levels. Maintains resource status information that can be shared with other applications.		
	<i>Contact:</i>	<i>Email:</i>	
No	CFES2	California Fire Economics Simulator	Active
	The California Fire Economics Simulator, Version 2 (CFES2) is a computer program to support evaluation of the California Department of Forestry's initial attack fire protection capability. CFES2 facilitates a wide range of "what if" analyses to help managers anticipate the consequences of organizational changes by measuring the capability of initial attack forces to contain wildfires before they can become large and damaging. CFES2 simulates critical conditions associated with initial attack system failure, including extreme fire spread rates and multiple fire starts.		
	<i>Contact:</i> James Spero	<i>Email:</i> james_spero@cdf.ca.gov	
No	INCINET	Interagency Incident Administrative Support System	Active
	Automates administrative tasks performed on emergency response incidents including the tracking of assigned resources; incorporates most of the standardized Incident Command System (ICS) forms to collect and report data, which are stored in a locally shared database		
	<i>Contact:</i>	<i>Email:</i>	

Application Validated?

----- California Department of Forestry -----

No **MIRPS** *Multi-Agency Incident Resource Processing System* Unknown
Resource ordering and status system used in California

Contact: *Email:*

No **PFIRS** *Prescribed Fire Incident Reporting System* Unknown
Tracks prescribed burns planned and accomplished by federal, state, and local agencies; allows regulators to issue online decisions and approvals

Contact: *Email:*

----- Commercial Off-The-Shelf -----

No *Atlas GIS* Active
Geographic Information System (GIS) mapping software.

Contact: *Email:* [rpmfonet@rpmconsulting.com](mailto:rpinfonet@rpmconsulting.com)

No *WeatherBrief* Active
Use WeatherBank's WeatherBrief-Satellite Service to receive weather information 24 hours a day via satellite. Information is sent directly to your IBM-compatible PC through a small satellite dish and data receiver. Select your personal menu from our list of 35,000 different weather products that suit your specific needs and interests. All products in your list are automatically updated as information is received via satellite, sent by WeatherBank's network computers.

Software features allow you to set audible alarms and automatic print flags to alert you when severe weather products have been issued or updated. Radar images update automatically every six minutes. Custom maps can be used to display data in the area that effects you most.

Contact: Steve Root *Email:*

No **ARMS** *Automated Real-Time Mapping System* Unknown
Records the track of a moving vehicle, equipped with a Global Positioning System (GPS) around a fire. Translates track onto a UTM map grid (AMG in Australia). Displays in real time on screen as vehicle moves. Prints track on clear film a few seconds after track is completed to overlay a standard topographic map.

Contact: *Email:*

No **CALPUFF** *CALPUFF* Active
CALPUFF is a non-steady-state modeling system being used for a wide variety of air quality modeling studies, including: * Near-field impacts in complex flow or dispersion situations: complex terrain; stagnation, inversion, recirculation, and fumigation conditions, overwater transport and coastal conditions, light wind speed and calm wind conditions; Long range transport; Implementation Plan (SIP) development; Secondary pollutant formation and particulate matter modeling; Buoyant area and line sources (e.g., forest fires and aluminum reduction facilities)

Contact: Alice Kashmanian *Email:* akashmanian@earthtech.com

No **CS-BEHAVE** *CS-BEHAVE for PC Windows* Inactive
Enhanced BEHAVE-PC program. Aids fire behavior prediction and fuel modeling. Makes real-time wildland fire behavior predictions commonly used for fire behavior training, wildfire suppression planning, fire crew dispatching, and after-the-fact investigations. Composed of the FUELS and BURN subsystems.

Contact: *Email:*

Application Validated?

----- Commercial Off-The-Shelf -----

No	FIREPLAN	Fire Planning - GIS Project	Active
	<p>FirePlan GIS from SIG uses advanced GIS technology to help identify cost-effective fire prevention solutions. Using the FARSITE fire model in conjunction with Arc View software, FirePlan can help land managers identify and prioritize areas for vegetative treatment.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	FIRETOWER	FireTower	Unknown
	<p>FireTower is a computer program for simulating the movement of fire through landscapes. Fire Tower allows users to simulate the spread of fires through the landscape from digital earth images including, aerial photographs or satellite imagery, on color-enabled Macintosh and Power Macintosh computers. Fire Tower lets land managers and foresters simulate how fires spread through the land allowing managers to conduct scenarios useful in predicting the behavior of wild fires".</p>		
	<i>Contact:</i> Richard Podolsky	<i>Email:</i> pdolosky@worldnet.att.net	
No	GDS-LD	Lightning Detection System - GDS	Unknown
	<p>The U.S. National Lightning Detection Network is a commercial lightning detection network operated by the Vaisala Group. (LightningStorm.com). A network of more than 150 antenna stations are connected to a central processor that records the time, polarity, signal strength, and number of strokes of each cloud-to-ground lightning flash detected.</p>		
	<i>Contact:</i> Phil Sielaff	<i>Email:</i> Phil_Sielaff@blm.gov	
No	SIS	Smoke Impact Spreadsheet	Active
	<p>The Smoke Impact Spreadsheet (SIS) model is a screening-level modeling system for calculating PM2.5 emissions and airborne concentrations downwind of natural or managed wildland fires. As a screening model, SIS provides conservative (e.g., higher than actual) predictions of the downwind air concentrations at user-selected receptors for comparison with appropriate federal or state air quality standards for PM2.5.</p>		
	<i>Contact:</i>	<i>Email:</i> air@airsci.com	
No	TELSA	Tool for Exploratory Landscape Scenario Analysis	Active
	<p>The Tool for Exploratory Landscape Scenario Analyses (TELSA) is a spatially explicit, landscape-level model of forest dynamics. It helps resource managers and planners assess the consequences of alternative management scenarios at the scale of landscape units. Unlike many other strategic planning models of forest dynamics, TELSA takes into account natural disturbances so that users can explore how their proposed management strategies will interact with vegetation succession and disturbances to alter landscape composition and structure.</p>		
	<i>Contact:</i> Don Robinson	<i>Email:</i> drobinson@essa.com	
No	WILDCAD	Wildland Computer-Aided Dispatch	Active
	<p>Wildland fire dispatch system for small and medium-sized centers; locates incidents, prints response card, tracks availability, maintains database for reports</p>		
	<i>Contact:</i>	<i>Email:</i>	

Application Validated?

----- Department of Agriculture -----

No **CDAF** *Climate Data Access Facility* Active

The National Water and Climate Center (NWCC) has developed efficient and highly effective technology to provide the data needed for water supply, climate, analysis, and conservation planning. NWCC acquires additional data sets that are needed from other networks and designs local data networks and sophisticated national networks. NWCC operates a variety of networks that use different data acquisition technology. They offer expertise to others through documentation, training, partnership, on-site assistance, and participation in professional forums.

Contact: Bruce Newton *Email:* bnewton@wcc.nrcs.usda.gov

----- Department of Interior -----

No *Fire Occurrence* Unknown

Historical fire occurrence data stored in DOI VAX (SACS) at the National Interagency Fire Center.

Contact: *Email:*

No **IQCS** *Incident Qualifications and Certification System* Active

Provides fire managers with detailed qualifications, certification, and training information to certify employees in fire or other technically skilled jobs; housed on the DOI VAX (SACS) at the National Interagency Fire Center (NIFC)

Contact: Merrie Johnson *Email:* merrie_johnson@nps.gov

No **NFPORS** *National Fire Plan Operations and Reporting System* Active

NFPORS is an interagency system designed to assist field personnel in managing and reporting accomplishments for work conducted under the National Fire Plan. NFPORS consists of three modules:

- 1) Restoration and Rehabilitation - available January 10, 2003
- 2) Hazardous Fuels Reduction - available August 1, 2002
- 3) Community Assistance - available March 3, 2003

Contact: Russ Berry *Email:* Russell_Berry@ios.doi.gov

No **SASEM** *Simple Approach Smoke Estimation Model* Unknown

SASEM is a screening and planning model designed to predict ground level dispersion of particulate matter and visibility impacts from single sources in relative flat terrain in the western United States. SASEM utilizes internally calculated plume rise and emission rates based on specified fuel types and configurations.

Contact: Mike Sestak *Email:*

No **VALBOX** *Ventilated Valley Box Model* Unknown

Ventilated Valley Box Model is a screening model designed to predict ground level concentrations of particulate matter and gaseous pollutants under stagnation conditions in mountain valleys.

Contact: Mike Sestak *Email:*

----- National Wildfire Coordinating Group -----

No **DMS** *Dispatch Messaging System* Active

DMS is an alternative e-mail system for transmission of mission critical information supporting the needs of the emergency dispatch community. DMS can be used by any wildland dispatch office and is a web-based application.

Contact: Jon C. Skeels *Email:* jskeels@fs.fed.us

Application Validated?

----- Other Office or Agency -----

No	CFFDRS	Canadian Forest Fire Danger Rating System	Active
	<p>The system uses weather, fuel and topographic data to rate the potential for forest fire ignition and to predict forest fire behavior. It is being used across Canada to evaluate the susceptibility of forests to fire. The system is one of the few nationally implemented fire danger rating systems in the world and has been adopted in a number of areas outside Canada.</p>		
	<i>Contact:</i>	Dennis Dube	<i>Email:</i> dennis.dube@nrcan.gc.ca
No	DLMS	Defense Logistics Management System	Inactive
	<p>Assists aircraft scheduling and A-126 postmission reporting. Offers after-the-fact data collection and minimal reporting capabilities. Maintains data and indices in subdirectories in Clipper Xbase form.</p>		
	<i>Contact:</i>		<i>Email:</i>
No	EMISS-OR	Emissions Reporting System	Unknown
	<p>Allows reporting of prescribed burn emissions data for compliance with Oregon Department of Environmental Quality (DEQ) rules</p>		
	<i>Contact:</i>		<i>Email:</i>
No	EMISS-WA	Emissions Reporting System for Washington Forests	Unknown
	<p>Allows reporting of prescribed burn emissions data for compliance with Washington Department of Environmental Quality (DEQ) rules</p>		
	<i>Contact:</i>		<i>Email:</i>
No	EMM	Ecosystem Management Model	Unknown
	<p>Integrates FORTRAN-based ecosystem landscape model and ARC/INFO GIS platform to produce an ecosystem simulation model.</p>		
	<i>Contact:</i>		<i>Email:</i>
No	FBP	Canadian Forest Fire Behavior Prediction System	Active
	<p>The Canadian Forest Fire Behavior Prediction (FBP) System is a sub system of the Canadian Forest Fire Danger Rating System (CFFDRS). The FBP System provides a systematic method of assessing fire behavior. The FBP System has 14 primary inputs that can be divided into five general categories: fuels, weather, topography, foliar moisture content, and type and duration of prediction. In the FBP System these inputs are used to mathematically develop 4 primary and 11 secondary outputs. Primary outputs are generally based on a fire intensity equation, and secondary outputs are calculated using a simple elliptical fire growth model.</p>		
	<i>Contact:</i>	Dennis Dube	<i>Email:</i> dennis.dube@nrcan.gc.ca
No	FLA-RISK	Florida Fuel Hazard Mapping	Unknown
	<p>Florida statewide mapping of fuel model at 30 meter resolution.</p>		
	<i>Contact:</i>		<i>Email:</i>

Application Validated?

----- Other Office or Agency -----

No	<p>FMIS <i>Fire Management Information System - Canada</i> Unknown</p> <p>The Forest Management Information System (FMIS) is envisaged as an integrated system which will be used to support the planning, implementation and monitoring of multi-objective forest management activities. The FMIS can be used for strategic, tactical and operational planning and implementation, and operational control in and across administrative units and levels of the organizational hierarchy. Besides the databases and models required to support decision-making in the many programs of the Department, the FMIS also has the ability to maintain current forest inventories and generate maps of spatially-oriented data (e.g. attributes of entities depicted on a map, such as population of a village, whose location can be fixed on a map). The components of the FMIS, which will necessarily be linked, are a Monitoring Information System (MIS), a Geographic Information System (GIS), and an Image Processing System.</p> <p><i>Contact:</i> E. W. Ted Robak <i>Email:</i> robak@unb.ca</p>
No	<p>FMIS <i>Fire Management Information System - Greece</i> Unknown</p> <p>GIS-based application, with the GIS-modules developed inhouse; based on topographical data, fuel maps, real-time weather data (fed into extrapolating algorithms); provides prevention maps like fire load index, priority level, crowning probability; includes a fire-simulation module based on Rothermel's model</p> <p><i>Contact:</i> Angelos Sphyris <i>Email:</i></p>
No	<p>FWI <i>Canadian Forest Fire Weather Index System</i> Active</p> <p>The Canadian Forest Fire Weather Index (FWI) System consists of six components that account for the effects of fuel moisture and wind on fire behavior. The first three components are fuel moisture codes and are numerical ratings of the moisture content of litter and other fine fuels, the average moisture content of loosely compacted organic layers of moderate depth, and the average moisture content of deep, compact organic layers. The remaining three components are fire behavior indexes which represent the rate of fire spread, the fuel available for combustion, and the frontal fire intensity; their values rise as the fire danger increases.</p> <p><i>Contact:</i> Dennis Dube <i>Email:</i> dennis.dube@nrcan.gc.ca</p>
No	<p>GeoMAC <i>Geospatial Multi-Agency Coordination</i> Unknown</p> <p>The Geospatial Multi-Agency Coordination Group (GeoMAC) is an internet -based mapping tool orginally designed for fire managers to access online maps of current fire locations and perimeters in the contiguous 48 states and Alaska.</p> <p><i>Contact:</i> Joe Frost <i>Email:</i> jfrost@fs.fed.us</p>
No	<p>IFMIS <i>Intelligent Fire Management Information System</i> Unknown</p> <p>The Intelligent Fire Management Information System (IFMIS) is a microcomputer-based decision support system developed at Forestry Canada's Northwest Region. It was developed primarily for forest fire preparedness planning and for dispatching initial attack resources to wildfires.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>LANDFIRE <i>LANDFIRE</i> In Development</p> <p>The LANDFIRE project is a multi-agency, inter-disciplinary research and development activity designed to develop a consistent and accurate methodology capable of producing geospatial data of vegetation conditions, fire fuels, risks, and ecosystem status at the national, regional, and local scales for implementation of the National Fire Plan.</p> <p><i>Contact:</i> Dan Keller <i>Email:</i> dkeller@fs.fed.us</p>
No	<p>MNIAAPC <i>Minnesota Initial Attack Assessment</i> Retired</p> <p>After initial inputs, "games" different organizational mixes and budget levels; part of the National Fire Management Analysis System (NFMAS)</p> <p><i>Contact:</i> <i>Email:</i></p>

Application Validated?

----- Other Office or Agency -----

No	RAZU	RAZU	Unknown
	RAZU is a Smoke Management web application.		
	<i>Contact:</i>	<i>Email:</i>	
No	SOSTRISK	Southern State Fuel Hazard Mapping	In Development
	Map of fuel hazard and fuel model for entire southeast states.		
	<i>Contact:</i>	<i>Email:</i>	
No	TOM/FETM	Programmatic Fuels Management Tradeoff Model	Unknown
	TOM/FETM is a stochastic, dynamic, non spatial model designed to simulate the expected trade-off between wildland fire and prescribed fire emissions, acreage burned, and fire intensity levels under different fire weather conditions, land management strategies, and wildland fire protection policies. Results are assessed by fuel condition classes without regard to how those classes are distributed in space. The model links to the appropriate database files containing weather station information, fire management zone, and other information needed to run the model.		
	<i>Contact:</i>	<i>Email:</i>	
No	VENTURATOOLS	Ventura_Tools	Active
	Ventura_Tools is a complete set of ArcView 3.2 extensions to create and edit critical incident data. After the data has been developed a quick map layout tool is employed to create IAP, Planning and Public Display Maps.		
	<i>Contact:</i> Jim Kniss	<i>Email:</i> Jim.Kniss@mail.co.ventura.ca.us	

----- United States Forest Service -----

No	ACUSE	Aircraft Use Database	Retired
	Allows entry of flight usage data into a national database; provides tools to manage aircraft contract and pilot data and to transfer flight usage data from USDA Forest Service Form FS-6500-122 into computer disk files; provides detailed summary reports		
	<i>Contact:</i>	<i>Email:</i>	
No	ADaM	Aircraft Data Manager System	Active
	ADaM is a personal computer application sponsored by USDA Forest Service Fire and Aviation Management. The application is a tool for flight planners to determine the optimum aircraft-flight combination to fill a request(s) for aircraft services. Included with ADaM is the Sunrise-Sunset time tables for calculating daylight hours for flight time and CAN (Computer Aided Navigation). ADaM, CAN, and Sunrise-Sunset will be loaded on the personal computer as Dispatch Utilities. All other versions of ADaM, CAN, and Sunrise-Sunset are obsolete with this release.		
	<i>Contact:</i> Help Desk	<i>Email:</i> fire_help@dms.nwcg.gov	
No	AFFIRMS	Automated Forest Fire Information Retrieval and Mgmt System	Retired
	Interactive application for storing fire and weather data for reports, historical analysis, and calculation of fire danger ratings. Permits simultaneous entry of fire-weather observations from field stations over a large network. Displays data and associated fire indices		
	<i>Contact:</i>	<i>Email:</i>	

Application Validated?

----- United States Forest Service -----

No	<p>ALDS-DG <i>Automated Lightning Detection System - Data General</i> Retired</p> <p>Reads data from the Bureau of Land Management (BLM) Automated Lightning Detection System - Initial Attack Management System (ALDS-IAMS).</p> <p>Creates a metafile for plotting detected lightning strikes for the Western United States. Transmits metafile automatically to selected Regional or Forest units which use data to produce their own maps.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>ALLOCATE <i>ALLOCATE</i> Unknown</p> <p>ALLOCATE is an optimization model. It determines the best way to allocate dollars to forests based on National Fire Management System (NFMS) data.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>ALMS <i>Automated Lightning Mapping System</i> Active</p> <p>This application allows the user to download near real time lightning location information from the BLM lightning data server via the Internet. Users must have a valid User ID and Password on the BLM lightning data server. (See documentation for further details.)</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcc.gov</p>
No	<p>APPROVE <i>APPROVE</i> Unknown</p> <p>U.S. Forest Service Region 6 only. Database of all aircraft, pilots, and operators. Helps determine which aircraft and pilots can be used for specific assignments.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>AUS <i>Aircraft Utilization</i> Unknown</p> <p>USDA Forest Service Region 6 only. Improves utilization of chartered aircraft. Stores flight schedules. Provides access to schedules based on planned travel routes to determine if a scheduled flight can be used.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>AUTO209 <i>Automated Fire Situation Report</i> Unknown</p> <p>Allows automated data entry into Incident Command System Form ICS-209, Incident Status Summary. Transmits summaries from reporting units to regional and national databases. Improves timely and complete reporting for use in strategic decisionmaking. Generates automated ICS-209 form by calculating and tabulating the resources allocated to a particular incident.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>BAR-CODE <i>BAR-CODE Program</i> Unknown</p> <p>Creates an interface for the Intermec bar-code reader and printer.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>BIOPAK <i>BIOPAK</i> Unknown</p> <p>BIOPAK (Means, et al. 1994) is a menu-driven package of programs for personal computers that calculates the biomass, area, height, length, or volume of plant components (leaves, branches, stem, crown, and roots) using existing prediction equations. It has application in ecosystem studies for calculating biomass allocation, productivity and leaf area; in wildlife and entomology studies for calculating foliage area, and browse (e.g., foliage + small twigs), fruit and inflorescence mass; and fire management for calculating fuels of live plants by size classes.</p> <p><i>Contact:</i> Doug Henshaw <i>Email:</i> henshaw@fsl.orst.edu</p>

Application Validated?

----- United States Forest Service -----

No	CALPFIRS	California Prescribed Fire Incident Reporting System	Unknown
	<p>CALPFIRS is a prescribed fire reporting system used to track data about prescribed fires being done by all land management agencies in California. It is used to track emissions production, acres burned, costs, and accomplishments. It also communicates with the California Air Pollution control meteorologists and the local districts.</p>		
	<i>Contact:</i> Beth Little	<i>Email:</i>	
No	CHEETAH	Cheetah	Unknown
	<p>Collects information at GACC level? - Possibly related to Tom Wordell.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	CLIMATOLOG	Climate Analysis Using NIFMID	Retired
	<p>Obtains climatological summaries of temperature, relative humidity, wind, and precipitation from the National Fire Weather Data Library (NFWDL) located at the National Computer Center in Kansas City.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	DARTS	Data and Reports Technology System	Retired
	<p>Serves as data entry medium to the National Fire Management Analysis System (NFMAS). Develops Cost plus Net Value Change efficiency curves with the NFMAS data using spreadsheet linked with the Minnesota Initial Attack Assessment (MISS) model. Builds the NFMAS Results Worksheet itemizing all costs and displaying them by budget option level.</p>		
	<i>Contact:</i>	<i>Email:</i>	
No	DEBMOD	Debris Prediction Program	Inactive
	<p>Uses data from a timber stand exam to develop debris prediction for a given method of timber harvest on a specific site. Allows users to estimate crown weight of standing trees. Used to determine loading prior to harvest/thinning.</p>		
	<i>Contact:</i> Cam Johnston	<i>Email:</i> cjohnston@fs.fed.us	
No	EERA	Emergency Equipment Rental Agreement	Active
	<p>The Emergency Equipment Rental Agreement (EERA) software program has been developed for the primary use of Contracting Officers to create EERA's and to generate informational reports for their benefit and others involved in emergency incident support such as fire dispatchers. The application is installed on unit servers. The program contains a remote access capability which enables users to view EERA's at other database locations. EERA does not interface with any other applications or systems at this time. The EERA program is offered as two software application packages, a full database application and a remote site application.</p>		
	<i>Contact:</i> Tamara Jenner	<i>Email:</i> tjenner@fs.fed.us	
No	FARS	Federal Aviation Resource System	Active
	<i>Contact:</i>	<i>Email:</i>	
No	FASTRACS	Fuel Analysis, Smoke Tracking, and Report Access	Unknown
	<p>FASTRACS provides a system for planning, tracking, and reporting fuels management related activities. The program introduces two new approaches:</p> <ol style="list-style-type: none">1) Identification of tasks based on Projects, Boundary Units, and Activities - a familiar sounding set of terms used in a program-specific way to organize and manage traditional fuels management work.2) Implementation of a new methodology for estimating fuel loadings and calculating consumption and emissions based on Fuels Characterization Classes (FCC).		
	<i>Contact:</i>	<i>Email:</i>	

Application Validated?

----- United States Forest Service -----

No	FCCS	Fuel Characteristic Classification System	In Development
	Development of more sophisticated fire behavior and effects models requires a comprehensive system of fuel classification that more accurately captures the structural complexity and geographic diversity of fuelbeds. FERA (Fire and Environmental Research Applications) is currently developing a nationwide system of Fuel Characteristic Classification to satisfy this need.		
	<i>Contact:</i>	Roger Ottmar	<i>Email:</i> rottmar@fs.fed.us
No	FETM	Fire Emissions Trade-Off Model	Unknown
	Application to demonstrate the tradeoffs between wildfire and prescribed fire emissions under diverse environmental conditions, ecosystem management strategies, and wildfire protection policies.		
	<i>Contact:</i>		<i>Email:</i>
No	FFE-FVS	Fire and Fuels Extension to Forest Vegetation Simulator	Active
	(FFE-FVS) links the existing Forest Vegetation Simulator (FVS) models that represent fire and fire-effects, with newly developed fuels dynamics and crowning submodels. For more information about FVS see: http://www.fs.fed.us/fmcs/fvs/description/index.php .		
	<i>Contact:</i>	Dennis E. Ferguson	<i>Email:</i> deferguson@fs.fed.us
No	FIREBUDGET2	Fire Budget Analysis	Unknown
	FireBudget2 is a budget analysis tool to assist planners in determining Fire and Aviation Management budgets. Using various funding levels, FireBudget2 determines allocation at the Most Efficient Level (MEL) as calculated in the National Fire Management Analysis System (NFMAS).		
	<i>Contact:</i>	Help Desk	<i>Email:</i> fire_help@dms.nwcc.gov
No	FIREFLY	FIREFLY - Airborne Infrared Mapping	Unknown
	Remote sensing application used to record and plot fire hot-spots from an aircraft. Data can be downlinked to the incident to be plotted and analyzed		
	<i>Contact:</i>		<i>Email:</i>
No	FIRESUM	Fire Succession Model	Unknown
	The Fire Succession Model (FIRESUM) is a deterministic ecosystem process model that simulates long-term stand dynamics of forests in the Northern Rocky Mountains. The model simulates tree regeneration, growth and mortality given stochastic fire events. In the model, individual trees are grown deterministically using an annual time step. Tree growth is affected by light, water and nutrients. Fuel loadings are calculated annually and fire is simulated by reducing litter, duff, and down woody fuels. The model simulates forest stand dynamics.		
	The model requires species parameters as input as well as site parameters, such as weather, elevation, and soil characteristics. Output includes the average basal area for each tree species simulated, fuel values of forest components and fire behavior statistics.		
	<i>Contact:</i>	Bob Keane	<i>Email:</i> rkeane@fs.fed.us
No	FlamMap	Fire Behavior Mapping and Analysis	In Development
	FlamMap is a PC based program designed for use by local fire managers for fire behavior mapping and analysis.		
	<i>Contact:</i>	Mark Finney	<i>Email:</i> mfinney@fs.fed.us

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No	<p>FORBS <i>Fuels Out-Year Request and Budget System</i> Unknown</p> <p>FORBS is a module of NFMAS (National Fire Management Analysis System), utilizes existing PCHA99 (Personal Computer Historical Analysis), IIAA99 (Interagency Initial Attack Assessment), and Arc View processes. FORBS is tied to the Suppression Analysis developed in IIAA and PCHA. The objective is to model fire behavior, with and without treatment, and change over time as fuels decay or accumulate.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
No	<p>FPM <i>Fire and Pest Protection Forest Modeling Program</i> Unknown</p> <p>Calculates optimal regeneration harvest and pest protection schedules by age and species taking into account fire risk that produces a desired wood quantity over time at maximum discounted net profit</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>IASELECT <i>Initial Attack Pre-Planned Dispatch System</i> Unknown</p> <p>Assists fire managers in developing pre-planned dispatches; menu-driven analysis package; allows user to evaluate cost efficiency of alternative dispatches</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>IIAA <i>Interagency Initial Attack Assessment</i> Active</p> <p>Interagency Initial attack Assessment (IIAA) is a tool used to develop budget requests as part of the National Fire Management Analysis system (NFMAS) process. IIAA is used by administrative planning units to select the most effective fire program for a given budget, identify the best location to station additional firefighting resources, and simulate the effects of alternate dispatch policies and escape criteria.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>IMT <i>Ignition Management Tutorial</i> Unknown</p> <p>Leads users through demonstration of Ignition Management including identification of hazards, risks, and values; development of programs of work and integration with fire budgeting</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>IPNF INDEX <i>Idaho Panhandle National Forest Index System</i> Unknown</p> <p>Database used to index documents and maps related to forest planning.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>KCFAST <i>Kansas City Fire Access Software</i> Unknown</p> <p>Facilitates access to data and applications at the USDA National Information technology Center (NITC) in Kansas City. Primarily used to access data in the National Interagency Fire Management Integrated Database (NIFMID), without interacting directly with the IBM Job Control Language</p> <p><i>Contact:</i> Penny Sternberg <i>Email:</i> psternberg@fs.fed.us</p>
No	<p>MAGIS <i>Multi-Resource Analysis and Geographic Information</i> In Development</p> <p>MAGIS is a modeling system for integrating ecological and social information, and scheduling management treatments spatially and temporarily for a landscape. In addition, the model computes the effects on the landscape from the schedule of treatments. A wide variety of management practices can be accommodated, including prescribed burning.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>METAFIRE <i>METAFIRE</i> Unknown</p> <p>Calculates and displays large fire potential based upon current and predicted weather conditions; displays resulting information in tabular and graphic format for the entire United States</p> <p><i>Contact:</i> <i>Email:</i></p>

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No	<p>NFSPUFF NFSPUFF Unknown</p> <p>NFSPUFF is a screening/planning level, three-dimensional, gridded wind field smoke emissions and trajectories puff model. It is designed to predict ground level concentrations of particulate matter and gaseous pollutants from multiple sources in complex terrain in the Western United States. The model incorporates an emission production module (EPM) with National Weather Service predictions for upper-air winds, extrapolated to the surface, to predict potential pollutant transport. Tabular, 2-D and 3-D graphics are displayed.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>PCHA99 Personal Computer Historical Analysis Unknown</p> <p>A module of NFMAS, allows the user to analyze historical wildland fire occurrence for wildland fire planning. PCHA99 allows the user to import fire and weather data for the desired planning unit, review and edit the data, generate fire summaries for further fire planning, and use the data in various other ways. Also users can look at local data for review and correction.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
No	<p>PWA99 Prevention Workload Analysis Unknown</p> <p>The PWA99 model is to evaluate the effectiveness of specific kinds and amounts of fire prevention activities for which unique production functions can be quantitatively defined in terms of their respective effect on the occurrence of person-caused fires over time.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
No	<p>RERAP Rare Event Risk Assessment Process Unknown</p> <p>RERAP is a Windows based program that helps calculate the information needed to manage prescribed fire and wildfires.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>
No	<p>RXBURN Prescribed Fire Conditions Retired</p> <p>Analyzes and assesses burn prescriptions; provides detailed summaries of planned fire prescriptions from historical weather records. Provides climatological summaries and co-occurrence frequencies of user-selected fire weather and fire danger rating parameters</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>SIAM Structure Ignition Assessment Model Unknown</p> <p>SIAM assess potential residential ignitions during wildland/urban interface (WUI) fires given a structure's materials and design and its exposure to flames and firebrands to produce an index of WUI ignition risk.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>SIMPPLLE Simulating Processes & Patterns at Landscape Scale Active</p> <p>SIMPPLLE is a spatially explicit, stochastic system that simulates disturbance processes with and without management treatments. The model provides simulation capabilities to identify the frequency and locations of disturbance processes, particularly fire. For example, SIMPPLLE can be used to identify locations having high potential for extensive crown fires.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>SIT National Interagency Situation Report Active</p> <p>The Interagency Situation Report (SIT) captures incident activity and resource status information in a brief summary intended for use by managers. Once the information has been submitted via the web site, it is used at the local Dispatch Offices, Geographic Area Coordination Centers (GACCs) and the National Interagency Coordination Center (NICC) to produce summary reports, which are then distributed to agency managers for their use as a decision making tool.</p> <p><i>Contact:</i> Help Desk <i>Email:</i> fire_help@dms.nwcg.gov</p>

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No **VCIS** *Ventilation Climate Information System* Unknown
 The Ventilation climate Information System (VCIS) allows users to assess risks to values of air quality and visibility from historical patterns of ventilation conditions. The data can be used to help develop plans for avoiding smoke impacts and optimizing the use of prescribed fire at specific places or certain times of year.

Contact: David V. Sandberg *Email:* dsandberg@fs.fed.us

No **WIMS** *Weather Information Management System* Active
 WIMS is a comprehensive system that helps users manage weather information. WIMS is an Oracle-based Internet application that accesses the National Interagency Fire Management Integrated Database (NIFMID) that contains historic fire weather and historic fire record information. WIMS allows users to retrieve weather information by providing access to many weather information sources, tools for managing data, data manipulation and display functions, and an interactive communications environment.

Contact: Help Desk *Email:* fire_help@dms.nwcg.gov

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No *Station Manager* Unknown
 Stores and tracks local records including training, incident response, and inventory; provides a variety of reports used by field personnel

Contact: *Email:*

No **BDB** *Burn Data Base* Unknown
 Tracks, monitors, and evaluates fire activity on a specific unit. Menu-driven and user friendly. Can be modified for needs of individual units.

Contact: *Email:*

No **C & R** *C and R* Unknown
 Analyzes fire prevention plans

Contact: *Email:*

No **CREW NEEDS** *Crew Needs Analysis* Retired
 Calculate the optimal number of fire crews needed for an incident given certain pre-described conditions

Contact: *Email:*

No **ERPLAN** *ERPLAN* Unknown
 Estimates emissions for a year of prescribed burning. Produces spreadsheet model of past, present, and future emissions.

Contact: *Email:*

No **EX-FIRE** *EX-FIRE* Unknown
 Processes fire costs.

Contact: *Email:*

No **FA** *Fuels Appraisal* Unknown
 Develops debris predictions for a given method of timber harvest on a specified site. Inventories downed, woody materials.

Contact: *Email:*

Application Validated?

----- Unknown -----

No	<p>FAP <i>Fuels Appraisal Process</i> Unknown</p> <p>Develops debris predictions for a given method of timber harvest on a specified site. Inventories downed, woody material.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>FASS <i>Fuels Appraisal Support System</i> Unknown</p> <p>Package of two applications.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>FIRE TRAC <i>Fire Training Retrieval and Certification System</i> Unknown</p> <p>System to track fire training, experience, and qualifications</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>FIREMAP <i>Fire Management Analysis Process</i> Unknown</p> <p>Predicts fire behavior in "on-site" situations when time effects have to be analyzed; simulates the consequences of hypothesized changes in vegetation, composition, and density on the fire characteristics (area burned and fire intensity) in well-known ecosystems; estimates fire characteristics, taking spatial and temporal variability into account; simulates fire spread in discrete time steps; integrates a fire behavior prediction system (BEHAVE) and a Geographic Information System (MAP Analysis Package) into a framework that allows simulation of the actual spread of a fire over a digital elevation model.</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>FIRESKAN <i>FIRESKAN</i> Unknown</p> <p>Infra-red linescanner-based fire mapping system; linescan-equipped aircraft flies over a fire; on-board computing equipment records an infra-red image, which is processed to identify the fire area; fire area is then transferred to a map base and printed, FAXed, or digitally sent to the ground; approximately 10 minutes is required for the mapping process; relative accuracy of less than the width of a road or track is achievable on the final map</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>FIRESCAPE <i>FIRESCAPE</i> Unknown</p> <p>Fire growth simulation program developed for research in wildland fire; assists fire researchers in understanding how fire may react under certain conditions</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>FUELS-DB <i>Fuels Data Base</i> Unknown</p> <p>Helps district fuels manager to plan and track fuels management activities</p> <p><i>Contact:</i> <i>Email:</i></p>
No	<p>INSYST <i>Incident Systems and Telecommunications</i> Unknown</p> <p>Includes all efforts involved in providing computer support to incidents, coordination with other regions, training, hardware maintenance, and development of programs</p> <p><i>Contact:</i> <i>Email:</i></p>

Application Validated?

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No	PF-DARTS	Prevention and Fuels Data and Reports Technology	Unknown
	Calculates costs and benefits of various fuels treatment and prevention programs; predicts changes in future fires based on different programs; incorporates district fire prevention planning actions into the IAA model; allows IAA runs to analyze the effect of prevention actions and priorities by showing reductions in outputs of fire suppression costs and losses		
	<i>Contact:</i>	<i>Email:</i>	
No	PFEP	Prescribed Fire Emission Predictor	Unknown
	Unknown		
	<i>Contact:</i>	<i>Email:</i>	
No	READY	READY	Unknown
	Reports preparedness of modules and stations; provides summary reports and recommendations for improving noted deficiencies		
	<i>Contact:</i>	<i>Email:</i>	
No	THOR	THOR	Unknown
	Models probability of ignition by lightning from 100-hour fuel moisture and duff depth (inferred from fuel model); produces map with lightning locations and probability of ignition overlays		
	<i>Contact:</i>	<i>Email:</i>	
No	VEG2FM	Vegetation to Fuel Model	Unknown
	Creates crosswalk from the satellite vegetation layer to National Fire Danger Rating System (NFDRS) fuel models; creates new fuel model layer		
	<i>Contact:</i>	<i>Email:</i>	
No	ZONECAD	ZONECAD	Retired
	Dispatch system for use in regional "zone" dispatch centers; recommends nearest available aircraft; provides distance and bearing; prepares summary reports		
	<i>Contact:</i>	<i>Email:</i>	