

REFERENCE

1. Table based on work by Patricia L. Andrews, USDA Forest Service, Rocky Mountain Research Station, as presented in *A Temporal and Spatial Framework for Development and Application of Wildland Fire Decision Support Systems*.

DEFINITIONS AND ACRONYMS

ACARS: Aircraft communication addressing and reporting system

ArcGIS: An ESRI proprietary integrated collection of GIS software products for building a complete GIS

ArcMap: ArcMap is a comprehensive map authoring application for ArcGIS Desktop, as part of ESRI's proprietary system

ASCADS: Automated sorting, conversion and distribution system

ASOS: Automated surface observing system

AVHRR: Advanced very high resolution radiometer

AWIPS: Advanced weather information processing system

BehavePlus: A windows software application to predict wildland fire behavior

Bluesky: A modeling framework to predict cumulative impacts of smoke from agriculture, forest, and range fires

CHEETAH 2: A software program and database developed to rapidly assess historic wildfire occurrence and associated resource needs primarily at the national and geographic area levels. This information can be used to "hindcast" fire occurrence patterns for user-defined periods in order to predict future fire occurrence and suppression resource requirements.

COTS: Commercial, off-the-shelf software

EPA: Environmental Protection Agency

FAMWEB: Fire and aviation management web applications web site

FARSITE: A fire behavior and growth simulator for use on Windows computers

Fire Weather: Weather data and information used in support of fire management activities, including suppression, planning, spotting, prescribed fire, and air quality applications.

FCAMMS: Fire Consortia for the Advanced Modeling of Meteorology and Smoke

FireFamily Plus: An application that combines the fire climatology and occurrence analysis capabilities of several fire applications into a single package

FlamMap: A fire behavior mapping and analysis application that computes potential fire behavior characteristics over an entire FARSITE landscape

FS: Forest Service

FSPro: Fire spread probability application

FX-NET: NOAA's Forecast System Laboratory weather forecasting workstation

GACC: Geographic Area Coordination Center

GIS: Geographic information system

GOES: Geostationary Operational Environmental Satellite

JFSP: Joint Fire Science Program

KCFAST: A web-based computer application that simplifies data retrieval from NIFMID

Metadata: Data that is used to describe other data

MODIS: Moderate resolution imaging spectroradiometer

NCEP: National Centers for Environmental Prediction

NAWIPS: An expanded version of AWIPS which supports additional graphical formats

NDVI: Normalized difference vegetation index

NIFMID: The National Interagency Fire Management Integrated Database

NFDRS: National Fire Danger Rating System

NOAA: National Oceanic and Atmospheric Administration

NWS: National Weather Service

PM: Particulate matter size, in microns

RAWS: Remote Automated Weather Stations

RERAP: Rare event risk assessment process

ROMAN: Real-time observation monitor and analysis network

SNOTEL: Snowpack telemetry data

UAV: Unmanned aerial vehicle

USDA: U.S. Department of Agriculture

WFAS: Wildland fire assessment system

WFMI: Wildland fire management information system

WIMS: Weather information system