

Chapter 10 Preparedness

3 Preparedness Overview

4 Fire preparedness is the state of being ready to respond to wildfires based on
5 identified objectives and is the result of activities that are planned and
6 implemented prior to fire ignitions.

7 Preparedness requires:

- 8 • Identifying necessary firefighting capabilities;
- 9 • Implementing coordinated programs to develop those capabilities;
- 10 • A continuous process of developing and maintaining firefighting
11 infrastructure;
- 12 • Predicting fire activity;
- 13 • Implementing prevention activities;
- 14 • Identifying values to be protected;
- 15 • Hiring, training, equipping, prepositioning, and deploying firefighters and
16 equipment;
- 17 • Evaluating performance;
- 18 • Correcting deficiencies; and
- 19 • Improving operations.

20 Preparedness activities should focus on developing interagency response
21 capabilities that will result in safe, effective, and efficient fire operations aligned
22 with risk-based fire management decisions.

23 Preparedness activities will be consistent with direction in the approved land and
24 resource management plans (L/RMP) and fire management plans (FMP).

25 Preparedness Planning

26 At the local level, preparedness planning and the resultant activities begin with a
27 Fire Danger Operating Plan (FDOP), which includes a number of other plans
28 that result in coordinated actions based on the fire situation.

- 29 • *BLM – Districts can use an FDOP, Fire Danger Analysis Document
30 (FDAD), or Fire Weather and Fire Occurrence Analysis Document
31 (FWOAD), depending on which format best meets their needs.*

32 References, templates, and other supporting materials pertaining to the FDOP
33 process and related operationally focused preparedness plans can be found at
34 <https://www.nwccg.gov/committees/fire-danger-subcommittee> (see sections for
35 Useful Resources and NFDRS2016 Rollout Information) and
36 <https://www.wfas.net/nfdrs2016>.

- 37 • *BLM – References, templates, and other supporting materials pertaining to
38 the FDAD/FWOAD process can be found in FA-IM-2019-004, change 1.*

- 1 Outputs from an FDOP process are used to support decisions found in many
2 components of preparedness plans. These actions will ensure a unit is
3 appropriately prepared to react to new and emerging wildfire incidents.
- 4 Preparedness plans should include but are not limited to:
- 5 • Fire Danger Operating Plan (as specified by agency requirements)
 - 6 • Preparedness Level Plan
 - 7 • Initial Response/Preplanned Dispatch Plan
 - 8 • Step-up/Staffing Plan
 - 9 • Fire Prevention/Mitigation Plan (as specified by agency requirements)
 - 10 • Closure/Restriction Plan (as specified by agency requirements)
 - 11 • Geographic Area Mobilization Guide (updated annually)
 - 12 • Geographic Area Draw-Down Guidance (updated annually)

13 **Fire Danger Rating**

14 The National Fire Danger Rating System (NFDRS) and the Weather Information
15 Management System (WIMS) are the principal applications used by the Federal
16 land management agencies to assess fire danger. At every scale, fire danger
17 rating is a key consideration for staffing and prepositioning preparedness
18 resources, regulating industrial activity, or placing restrictions on public lands.
19 Because these assessments are used by and affect a wide variety of stakeholders,
20 including Federal and State agencies, local governments, industrial, and other
21 private entities, as well as the general public, participation in a recognized fire
22 danger system and careful management of weather and fire data is vital to
23 ensure accurate assessments and the consistent application of fire danger rating,
24 especially for broader scale assessments.

25 The following requirements apply to all NFDRS-compliant weather stations
26 managed in WIMS:

- 27 • For the primary fuel model (i.e., the first model listed in the WIMS station
28 catalog):
 - 29 ○ Identify an appropriate staffing index;
 - 30 ○ Identify the staffing index breakpoints (i.e., the two highest breakpoint
31 values and their associated percentiles*); and
 - 32 ○ Identify the number of decision classes (i.e., the number of staffing
33 levels).
 - 34 ▪ ** For units that have not performed detailed analysis to*
35 *identify fire business thresholds or climatological breakpoints,*
36 *it is recommended to use the 90th and 97th percentiles as*
37 *default values for these critical percentiles.*
 - 38 ▪ **BLM** – 80th and 95th percentiles
- 39 • To support Predictive Services products, include “16Y” as an “active” fuel
40 model in the WIMS station catalog for every station.

41 **Communication of Fire Danger**

42 Daily observed and forecasted fire danger outputs will be:

- 1 • Communicated daily to local fire personnel to aid in situational awareness;
 - 2 and
 - 3 • Should include the staffing index and/or index/component used.
- 4 Fire danger will be conveyed to the public using the five Adjective Fire Danger
- 5 Rating classes: low, moderate, high, very high, and extreme.

6 **Fire Danger Operating Plan**

- 7 • *BLM – Districts can use an FDOP, FDAD, or FWOAD depending on*
 - 8 *which format best meets their needs.*
- 9 Ideally developed for interagency field-level operations (e.g., corresponding to
- 10 the area within the jurisdiction of a third-tier dispatch center), an FDOP is an
- 11 integral component of local fire management planning. An FDOP documents the
- 12 analysis process and the development of decision points to be used for future weather
- 13 and fire occurrence situations based on an analysis of local conditions, historical
- 14 weather, and historical fire occurrence. The analysis and decision points are
- 15 developed using decision support tools such as the NFDRS, the Canadian Forest
- 16 Fire Danger Rating System (CFFDRS), the Palmer Drought Index, live fuel
- 17 moisture data, monthly or seasonal wildland fire outlooks, seasonal climate
- 18 forecasts, and wildland fire risk analyses. The analysis of historical weather and
- 19 fire occurrence is conducted utilizing a statistical software program, such as but not
- 20 exclusive to FireFamily Plus (FFP), which calculates fire danger indices and can
- 21 correlate them to historical fire occurrence. An FDOP process blends science,
- 22 historical data, established processes, and local knowledge to provide a unified
- 23 framework for local interagency unit managers/administrators to make informed
- 24 decisions that result in safe, efficient, and effective responses to fire situations.
- 25 Every field-level unit with a fire program should be covered by an FDOP and
- 26 should participate in the planning process. FDOP developers should attend
- 27 Intermediate NFDRS (S-491) and preferably, Advanced NFDRS (S-591) courses.
- 28 Units are encouraged to seek the participation of and review by NFDRS or
- 29 CFFDRS subject matter experts when developing an FDOP. Established FDOPs
- 30 should be monitored, reviewed annually, and updated as necessary to ensure they
- 31 continue to meet the preparedness needs of the local units.
- 32 • *BLM – BLM offices are required to have an FDOP, FDAD, or an FWOAD.*
 - 33 *BLM offices are required to complete and document their review every*
 - 34 *other year and updated every five years.*
- 35 In conjunction with the analysis noted above, an FDOP also describes:
- 36 • Processes, such as daily input and output monitoring of WIMS at
 - 37 <https://famit.nwcg.gov/>;
 - 38 • Tools that will be utilized to communicate fire danger information, such as
 - 39 Fire Danger PocketCards (PocketCards), or seasonal trends analysis; and
 - 40 • Related products, such as staffing, dispatch, and preparedness level plans
 - 41 (which can be included as components of an FDOP or linked, if presented
 - 42 as separate plans).

- 1 An FDOP template can be found at [https://www.nwcg.gov/committees/fire-](https://www.nwcg.gov/committees/fire-danger-subcommittee/nfdrs/rollout-workshop/library)
2 [danger-subcommittee/nfdrs/rollout-workshop/library](https://www.nwcg.gov/committees/fire-danger-subcommittee/nfdrs/rollout-workshop/library).
- 3 • *BLM – Reference templates and other supporting materials pertaining to*
4 *the FDAD/FWOAD process can be found in FA-IM-2019-004, change 1.*
- 5 Required minimum content for an FDOP includes the following components:
- 6 • **Roles and Responsibilities**
7 This section of an FDOP defines the roles and responsibilities for those
8 responsible for the development, maintenance, and daily implementation of
9 the plan, program management related to the plan, and associated training.
- 10 • **Fire Danger Area Inventory**
11 This section of an FDOP presents the inventory of the basic components of
12 an FDOP area, which will describe the general area, including the
13 administrative units involved in the planning process. The fire danger area
14 inventory will include:
- 15 ○ Fire history, as well as identification of fire/ignition issues specific to
16 the area;
- 17 ○ Description of vegetation/fuels, topography, and weather/climatology,
18 resulting in the delineation of specific FDRAs, which are broad
19 landscapes (typically, on the scale of tens or hundreds of thousands of
20 acres each) that are considered to have relatively homogeneous fire
21 danger;
- 22 ○ The existing weather station network and identification of any
23 additional weather station system needs; and
- 24 ○ Validation that each remote automated weather station (RAWS) meets
25 the requirements of the *National Wildfire Coordinating Group*
26 *(NWCG) Standards for Fire Weather Stations (PMS 426-3)*.
- 27 • **Operational Procedures**
28 This section of an FDOP establishes the procedures used to gather and
29 process data in order to integrate fire danger rating information into
30 decision processes. The network of fire weather stations whose observations
31 are used to determine fire danger ratings is identified. Station maintenance
32 responsibilities and schedules are defined. Include the following
33 information:
- 34 ○ Daily weather processing schedule and procedures;
- 35 ○ Daily communication schedule and modes;
- 36 ○ Seasonal station catalog adjustment schedule and responsible
37 personnel;
- 38 ○ Annual review of decision points and responsible personnel; and
- 39 ○ Periodic review of PocketCards or other communication methodology
40 and responsible personnel.
- 41 • **Decision Point Analysis**
42 This section of an FDOP describes the analysis of climatological breakpoints
43 and fire business thresholds that trigger changes in fire-danger-related
44 decisions within an FDRA. Decision points are identified using statistical
45 analysis software such as but not limited to FFP. Distinct selections of fuel

1 model and fire danger index/component (NFDRS or CFFDRS) are appropriate
2 for different management decisions (such as staffing, initial response, or
3 industrial and public restrictions). Because fire business thresholds correlate
4 periods of historical fire danger and fire occurrence, they generally provide
5 the best decision support and are appropriate for identifying staffing levels,
6 dispatch levels, fire restrictions, preparedness levels, fire prevention
7 activities, and other specific readiness actions. Climatological breakpoints,
8 which are expressed as percentiles, may be appropriate as decision points
9 for long-term decisions and general preparedness activities such as seasonal
10 staffing start/end dates or contract aircraft availability periods.

11 *Note: WIMS relies exclusively on climatological breakpoints to compute*
12 *staffing level and adjective rating. If fire business thresholds are used as*
13 *decision points, staffing level and adjective rating must be computed outside*
14 *of WIMS.*

15 • **Fire-danger-based Decisions**

16 This section of an FDOP describes the decision points used in step-
17 up/staffing plans, initial response/preplanned dispatch plans, preparedness
18 level plans, prevention plans (which include how Adjective Fire Danger
19 Ratings are determined and will be applied), closure/restriction plans, etc.
20 This section should include the rationale for the fuel model and
21 index/component selection and the corresponding decision points for each
22 of those plans. The plans may be included in an FDOP or be stand-alone
23 plans.

24 **Preparedness Level Plans**

25 Preparedness level plans are required at the national, state/regional, and local
26 levels. These plans address the five preparedness levels (1-5) and provide
27 management direction based on identified levels of burning conditions (fire
28 danger), fire activity, resource commitment/availability, such as incident
29 management teams (IMT) assigned, and other considerations (in contrast to
30 staffing levels, which typically only consider fire danger, as described below).
31 Preparedness level plans may be developed by a state/regional office for agency-
32 specific use.

33 Supplemental preparedness actions to consider include but are not limited to the
34 following items:

- 35 • Management briefings, direction, and considerations;
- 36 • Support function – consideration given to expanded dispatch activation and
37 other support needs (procurement, supply, ground support, and
38 communication);
- 39 • Support staff availability outside of fire organization;
- 40 • Fire danger/behavior assessment;
- 41 • Fire information – internal and external;
- 42 • Multi-agency coordination group/area command activation; and
- 43 • Prescribed fire direction and considerations.

1 Refer to the *National Interagency Mobilization Guide* and Geographic Area
2 Coordination Center (GACC) mobilization guides for more information on
3 preparedness level plans.

4 **Step-up/Staffing Plans**

5 Step-up/staffing plans are designed to direct incremental preparedness actions at
6 the local level in response to changing fire danger. Each plan should address the
7 unit's chosen number of staffing levels, and the corresponding actions to
8 consider for those changing fire danger conditions, as reviewed annually. The
9 step-up/staffing plan should be based on analysis completed as part of the unit's
10 FDOP and the analysis rationale, if not the entire plan, should be included as
11 part of an FDOP.

12 **Staffing Level**

13 The staffing level should be used to guide daily internal fire operational
14 decisions at the local level. The staffing level specifies appropriate daily staffing
15 for initial response resources, such as when to implement seven-day coverage
16 and adjusted work schedules, and the number of personnel committed to initial
17 attack resources (in contrast to the Initial Response/Preplanned Dispatch Plan –
18 described below – that specifies the number of resources dispatched to an
19 incident). Staffing level helps define daily readiness. A unit can operate with
20 three to nine levels of staffing. Most units typically use five (1, 2, 3, 4, 5) or six
21 (1, 2, 3L, 3H, 4, 5) levels. The use of fire business thresholds to determine
22 staffing levels is encouraged; however, they must be computed outside of the
23 WIMS.

24 The step-up/staffing plan describes preidentified escalating responses at fire
25 business or climatological thresholds analyzed in an FDOP and FMP. A step-
26 up/staffing plan should also include recurring supplemental preparedness actions
27 designed to enhance the unit's fire management capability during short periods
28 (Fourth of July, or other preidentified events) where staffing normally needs to
29 be increased to meet initial attack, prevention, or detection needs.

30 The staffing plan should also consider supplemental staffing actions such as the
31 following items:

- 32 • Fire prevention actions, including closures/restrictions, media messages,
33 signing, and patrolling;
- 34 • Prepositioning or augmentation of suppression resources;
- 35 • Cooperator discussion and/or involvement;
- 36 • Safety considerations: safety messages, safety officer;
- 37 • Increased initial attack dispatch staffing; and
- 38 • Increased detection activities.

39 In contrast to staffing actions established for the normal range of conditions,
40 severity is a longer duration condition that cannot be adequately dealt with under
41 normal staffing, such as a killing frost converting live fuel to dead fuel or drought
42 conditions. Severity is discussed later in this chapter.

1 Initial Response/Preplanned Dispatch Plans

2 Local-level, initial response/preplanned dispatch plans, also referred to as run
3 cards, specify the fire management response (e.g., number and type of
4 suppression assets to dispatch) within a defined geographic area to an unplanned
5 ignition, based on fire weather, fuel conditions, fire management objectives, and
6 resource availability.

7 Fire management officers (FMOs) will ensure that initial response/preplanned
8 dispatch plans are in place, utilized, and provide for initial response
9 commensurate with guidance provided in the FMP and/or L/RMP. Initial
10 response/preplanned dispatch plans will reflect agreements and operating plans
11 and will be reviewed annually prior to fire season. These plans may be modified
12 as needed during fire season to reflect the availability of national, prepositioned,
13 and/or severity resources.

14 Fire Prevention/Mitigation Plans

15 Unit-level fire prevention/mitigation plans may be required and completed by
16 conducting a wildland fire prevention/mitigation assessment. The purpose of the
17 plan is to develop a strategy that will identify actions to reduce unwanted human-
18 caused ignitions, thereby reducing wildland fire damages and losses,
19 unnecessary risks to firefighters, and suppression costs. As fire danger moves
20 from low to extreme, as defined in an FDOP, and/or human activity increases,
21 prevention and mitigation activities must be increased to maintain effectiveness.

22 The prevention/mitigation plan outlines how the Adjective Fire Danger Ratings
23 are communicated to the public, and applied, in terms of responsible personnel
24 and assigned activities. Prevention activities are intended to reduce the occurrence
25 of unwanted human-caused fires and include but are not limited to:

- 26 • Education (signage, school programs, radio and news releases, recreation
27 contacts, local business contacts, exhibits);
- 28 • Engineering (public utility company, government agency/cooperator
29 coordination);
- 30 • Enforcement/industrial program monitoring (patrol, permitting, inspections,
31 including firewood cutting, logging, mining, power line maintenance, and
32 area closures); and
- 33 • Administration (patrol, communication, FDOP, sign and other plans and
34 planning activities).
 - 35 ○ **BLM** – Refer to *BLM MS-9212 – Fire Prevention*.
 - 36 ○ **NPS** – Refer to *NPS RM-18 Chapter 6 Prevention and Mitigation*.
 - 37 ○ **FWS** – *Prevention assessment determines the requirement for a*
38 *prevention plan. Refer to Fire Management Handbook, chapter 10.*
 - 39 ○ **FS** – Refer to *FSM 5110*.
 - 40 ○ **BIA** – Refer to *90IAM 5-H, BIA Wildfire Prevention Program*
41 *Handbook; available at*
42 *<https://www.bia.gov/sites/default/files/dup/assets/public/raca/handbook/>*

1 pdf/90%20IAM%205-
2 H_RACA_final_signed%203.19.21_w.footer_508.pdf.

3 **National Fire Prevention Education Teams**

4 National fire prevention and education teams (NFPETs) provide unit and agency
5 managers with skilled and mobile personnel who have the ability to supplement
6 or enhance ongoing local wildfire prevention and education activities where
7 hazard or risk is, or is expected to be, elevated above normal.

8 Teams are highly effective in their ability to reduce unwanted human-caused
9 wildland ignitions and are equipped to rapidly complete onsite prevention
10 assessments and plans, initiate implementation of such plans, and to begin
11 immediate prevention and education activities.

12 A basic team is composed of three personnel with these minimum qualifications:

- 13 • 1 PETL – Prevention and education team leader;
- 14 • 1 PETM – Prevention and education team member; and
- 15 • 1 PIO2 – Public information officer type 2.

16 Actual team composition may include additional support positions, as
17 determined jointly by the team leader and the ordering unit, on a case-by-case
18 basis, based on the team's anticipated tasking. The use of trainees is encouraged.

19 NFPETs can assist the local unit in preventing unwanted human-caused
20 wildfires in several ways. They can assist the local unit to:

- 21 • Complete fire risk assessments;
- 22 • Determine the severity of the situation;
- 23 • Facilitate community awareness and education in fire prevention, including
24 prescribed burning;
- 25 • Coordinate announcement of interagency restrictions and closures;
- 26 • Coordinate fire prevention efforts with the public, special target groups,
27 State and local agencies, and elected officials;
- 28 • Promote public and personal responsibility regarding fire prevention in the
29 wildland/urban interface; and
- 30 • Assist IMTs in accomplishing their objectives in working with the public to
31 develop fire protection plans.

32 To order an NFPET, place the order with the regional GACCs. See the *National*
33 *Interagency Mobilization Guide* for additional information on ordering and
34 using NFPETs.

35 **Fire Danger PocketCards for Firefighter Safety**

36 Fire Danger PocketCards provide, through a graphical interpretation of historic
37 fire danger, a means for firefighters to understand the fire potential for a given
38 local area during any day of the fire season. PocketCards apply to areas of
39 uniform fire danger rating, known as FDRAs, which should be developed
40 through an interagency FDOP process. (If FDRAs are not defined, PocketCards

- 1 may be developed based on other areas of like fire danger.) The PocketCard can
2 also be an ideal tool for local seasonal tracking of fire season severity with the
3 addition of daily indices (see “Local Unit Seasonal Tracking” section). The
4 PocketCards must adhere to the NWCG standard located at
5 <https://famit.nwcg.gov/applications/WIMS/PocketCards>.
- 6 PocketCards should be updated following a significant fire season, but
7 otherwise, based on the length of the station or Special Interest Group (SIG)
8 dataset:
- 9 • 10 years or less of historic weather data, update PocketCard annually;
 - 10 • 11-14 years, update every other year;
 - 11 • 15 years or more, update every 3 years.
- 12 In all cases, a high-quality database should be used (5 years of poor data and 10
13 years of good data does not equal 15 years of quality data).
- 14 Compliance with the standard, including quality, currency, and application of
15 the PocketCards, is the responsibility of the local fire management unit.
- 16 • **BLM** – *Seasonal trend analysis (updated and posted at least every two*
17 *weeks) is the only requirement for communication of fire danger; however,*
18 *offices may use PocketCards in addition to a seasonal trend analysis.*
19 *Seasonal trend analyses will be prepared at the Predictive Service Area*
20 *(PSA) scale or smaller. PSA scale analyses are typically developed and*
21 *posted online by the Geographic Area Coordination Center (GACC) while*
22 *smaller scales are typically developed by the local unit. Hard copies should*
23 *be made available in areas with limited internet connectivity. FMOs should*
24 *ensure incoming and local resources are briefed on the seasonal trend*
25 *analysis for their area (See FA IM-2018-022). Final approval for seasonal*
26 *trend analyses and PocketCards will be obtained from the BLM*
27 *representative to the NWCG Fire Danger Subcommittee*
28 *(<https://www.nwcg.gov/committees/fire-danger-subcommittee/roster>).*
 - 29 • **FS** – *Obtain regional certification for PocketCards. Distribute PocketCards*
30 *to each fireline supervisor on type 3, 4, and 5 wildfires. Units have the*
31 *option to do more frequent updates if they choose to do so.*
 - 32 • **BIA** – *Field-level units will identify the NWCG-compliant Fire Danger*
33 *PocketCard(s) that represent their lands and ensure they are available to*
34 *all firefighters and fire management personnel.*
- 35 The NWCG standards for updating and posting the cards can be found at
36 <https://famit.nwcg.gov/applications/WIMS/PocketCards>.

37 **Managing Weather Data in the Weather Information Management System**

38 Fire danger requires continual management in order to produce accurate results
39 that are applied in a timely manner. Daily observation variables are processed
40 and calculated automatically in WIMS but need to be verified regularly to
41 ensure the systems are working correctly. Weather observations should be

- 1 reviewed at least weekly to catch errors in the data that may indicate a bad
- 2 RAWS sensor or missing data.
- 3 Certain RAWS station settings should be adjusted in WIMS to match locally
- 4 determined values, such as:
 - 5 • Fuel Model Parameters (e.g., perennial vs annual, humid vs moist, etc.)
 - 6 • Growing Season Index Settings
- 7 Decision points should be reviewed annually and adjusted, as appropriate, based
- 8 on statistical analysis. If decision points are adjusted, PocketCards should also be
- 9 validated and updated as necessary.

10 Management Actions for Remote Automated Weather Stations

11 Noncompliance Report

12 A weekly report from Wildland Fire Management Information (WFMI) weather
13 module displays RAWS that are more than 1 year and 45 days past their annual
14 maintenance date. Fire weather stations are to be maintained annually per
15 *NWCG Standards for Fire Weather Stations* (PMS 426-3). The report is widely
16 distributed by email and available at <https://raws.nifc.gov/standards-guidelines>.
17 If a RAWS is on the report, it has either not had annual maintenance, or the
18 documentation for annual maintenance has not been completed in WFMI. Data
19 from these RAWS should not be used or used with caution.

20 Portable RAWS

21 Fire managers should ensure that locally held portable RAWS are maintained
22 prior to use. Non-maintained portable RAWS will not be activated for data
23 processing through WFMI weather.

- 24 • *BLM* – Refer to chapter 2 for more guidance.

25 Predictive Service Areas

26 Predictive Service Areas (PSA) are sub-geographic areas of similar climate,
27 fuels and topography defined by GACC meteorologists generally for forecasting
28 purposes. The PSAs are also used to display current and forecasted conditions at
29 the national and geographic area level, such as maps showing 7-Day Significant
30 Fire Potential and statistics graphs of select indices and fuel moistures. While
31 PSAs are defined using similar criteria as Fire Danger Rating Areas (FDRAs),
32 the PSA-based products are intended for longer range prediction purposes and
33 strategic planning at the sub-geographic scale, and FDRA-based products are
34 intended to guide daily operational decisions at the unit level.

35 National Predictive Services Fire Potential Outlooks and Advisories

36 National Significant Wildland Fire Potential Outlook

37 The National Significant Wildland Fire Potential Outlook (Outlook) is prepared
38 and distributed by NICC Predictive Services on the first day of each month. The
39 Outlook is a composite of outlooks prepared by the individual Geographic Area
40 Predictive Services units and national discussions prepared by NICC Predictive
41 Services. The report provides fire managers at all levels with the information

1 needed to make long-range decisions concerning resource staffing and
2 allocation. The Outlook identifies areas where significant wildland fire activity
3 is expected to be above or below normal levels.

4 The Outlook covers a four-month period. Maps for each period display areas of
5 below normal, normal, and above normal significant wildland fire potential. A
6 brief synopsis of the current and predicted national and GACC situation is
7 included in the report. Specific guidance on issuance and requirements for the
8 Outlook can be found in the *National Interagency Mobilization Guide* at
9 <https://www.nifc.gov/nicc/mobguide/index.html>.

10 **National 7-Day Significant Fire Potential Outlook**

11 The National 7-Day Significant Fire Potential Outlook (7-Day) is a composite of
12 outlooks produced by each of the Geographic Area Predictive Services units.
13 The 7-Day provides a week-long projection of fuel dryness, weather, and fire
14 potential. The 7-Day depicts a nationwide view of the significant fire potential
15 for the next seven days with links to the individual geographic area 7-Day
16 outlooks. The system is database-driven and is updated periodically as each
17 Geographic Area Predictive Services unit posts its outlook. Each Geographic
18 Area Predictive Services unit will determine whether to routinely produce a
19 morning or afternoon product. Issuance times for each area's outlook can be
20 found in the *Geographic Area Mobilization Guide* and/or in its National
21 Weather Service/Predictive Services Operating Plan. Guidance on issuance and
22 requirements for the 7-Day can be found in the *National Interagency*
23 *Mobilization Guide* at <https://www.nifc.gov/nicc/mobguide/index.html>.

24 **Fuels and Fire Behavior Advisories**

25 Fuels and Fire Behavior Advisories (Advisory) alerts issued as needed to
26 address an exceptional or extreme circumstance that could threaten firefighter or
27 public safety. Conditions that could be reasonably expected normally do not
28 warrant an Advisory. Advisories will focus on fuel conditions and fire behavior
29 that have long-term impacts, not atmospheric conditions that can be found in
30 other predictive services products. Advisories will highlight and give specific
31 examples of conditions that are currently ongoing and have been experienced in
32 the field. Advisories should be tailored so that firefighters at all experience
33 levels can recognize the situation and act accordingly. Advisories should be
34 coordinated with neighboring administrative units to ensure that all areas with
35 similar conditions are being addressed. All Advisories that extend beyond a
36 single local administrative unit or that will be posted on the national Advisory
37 map must be coordinated with the NICC and GACC Predictive Service units.
38 Each Advisory must include a map of the affected area. Only one Advisory may
39 be active at any time over any area. If multiple Advisory conditions are present
40 incorporate them into one Advisory. Advisories will remain in effect for 14 days
41 from issuance. If the Advisory conditions continue beyond the 14 days a new
42 Advisory will need to be issued to update conditions and circumstances with
43 more timely information. At the request of the issuer, Advisories may be lifted
44 before the 14 days has passed. For the Fuels and Fire Behavior Advisory

1 template and protocols, see [https://www.predictiveservices.nifc.gov/fuels_fire-](https://www.predictiveservices.nifc.gov/fuels_fire-danger/fuels_fire-danger.htm)
2 [danger/fuels_fire-danger.htm](https://www.predictiveservices.nifc.gov/fuels_fire-danger/fuels_fire-danger.htm).

3 **National Intelligence Products**

4 See the *National Interagency Mobilization Guide*, chapter 60.

5 **Local Unit Seasonal Tracking**

6 • **BLM** – *Districts can use an FDOP, FDAD, or FWOAD depending on*
7 *which format best meets their needs.*

8 As identified in the FMP and/or FDOP, each unit selects and compares to
9 normal, the current value and seasonal trend of one (or more) of the following
10 indicators which are most useful in predicting fire season severity and duration
11 in its area. By downloading daily weather observations and adding them to the
12 database, FFP or similar statistical analysis software can be used to produce the
13 current NFDRS, CFFDRS, and fuel moisture products, including statistical
14 graphs of various indices and components such as:

- 15 • NFDRS (or CFFDRS) index and/or component values;
- 16 • Palmer Drought or Keetch-Byram Drought Index;
- 17 • 1000-hour fuel moisture;
- 18 • 100-hour fuel moisture;
- 19 • Live fuel moisture; and/or
- 20 • Growing Season Index.

21 The seasonal trend of each selected indicator is graphically compared to normal
22 and all-time worst (for the historical period analyzed). This comparison is
23 updated regularly and posted in dispatch and crew areas. To compare and
24 display comparisons, use a PocketCard and/or fire danger seasonal graphs,
25 which have been developed and used at the local unit to inform and educate
26 firefighters on local conditions. PocketCards and seasonal fire danger graphs
27 should use the same index and fuel model to display information so that the two
28 can be easily compared.

29 Any local seasonal trends of indices/components or fuel moisture values should
30 be communicated to the GACC Predictive Services unit to augment their
31 assessments. Trends should be monitored throughout the fire season and
32 communication should be on-going, particularly when significant changes in key
33 indicators occur.

34 **Fire Severity Funding**

35 Fire severity funding is the authorized use of suppression operations funds
36 (normally used exclusively for suppression operations and distinct from
37 preparedness funds) for extraordinary preparedness activities that are required
38 due to:

- 1 • FMP, FDOP, or operating plan criteria that indicate the need for additional
2 preparedness/suppression resources. The plan(s) should identify thresholds
3 for severity needs.
- 4 • Anticipated fire activity will exceed the capabilities of local resources.
- 5 • Fire seasons that either start earlier or last longer than identified in an
6 FDOP.
- 7 • An abnormal increase in fire potential or danger not planned for in existing
8 preparedness plans.
- 9 Agency established decision points or thresholds will be used to determine
10 severity funding needs.
- 11 The objective of fire severity funding is to appropriately manage risk and adjust
12 planned actions and staffing in excess of the budgeted program to improve initial
13 response capabilities and wildfire prevention activities when extraordinary
14 weather and fire conditions may result in the occurrence, or substantial threat of
15 occurrence, of wildfires with significant damage potential.
- 16 Fire severity funding is not intended to:
- 17 • Raise preparedness funding levels to cover differences that may exist
18 between funds actually appropriated and those identified in the fire planning
19 process.
- 20 ○ *BLM – Refer to chapter 2 for more guidance.*
- 21 ○ *NPS/FWS/FS – Mitigate threats to Threatened and Endangered*
22 *Species habitat, wildland/urban interface, or other values identified in*
23 *L/RMPs.*

24 **Typical Uses**

25 Fire severity funds are typically used to:

- 26 • Increase prevention activities;
- 27 • Temporarily increase firefighting staffing;
- 28 • Pay for standby;
- 29 • Preposition initial attack suppression forces;
- 30 • Provide additional aerial reconnaissance; and
- 31 • Provide for standby aircraft availability.

32 **Authorization**

33 Authorization to use severity funding is provided in writing based on a written
34 request with supporting documentation. Authorization is on a line-item basis and
35 comes with a severity cost code. Agencies will follow their administrative
36 procedures for issuing severity cost codes. Authorization is provided for a
37 maximum of 30 days per request; however, regardless of the length of the
38 authorization, use of severity funding must be terminated when abnormal
39 conditions no longer exist. If the fire severity situation extends beyond the 30-
40 day authorization, the unit/state/region/agencies/Tribes must prepare a new
41 severity request.

1 **State/Regional-Level Fire Severity Funding**

2 Each fiscal year the national office will provide each state/region with funding
3 and a severity cost code for state/regional short-term severity needs (e.g., wind
4 events, cold dry front passage, lightning events, and unexpected events such as
5 off-road rallies, cultural events) that are expected to last less than one week.
6 Expenditure of these funds is authorized by the state/regional directors at the
7 written request of the agency administrator. State/regional directors are
8 responsible and accountable for ensuring that these funds are used only to meet
9 severity funding objectives and that amounts are not exceeded. The national
10 office will notify the state/regional director, state/regional budget officer, and
11 the state/regional FMO when the severity cost code is provided.

- 12 • **BLM** – Refer to chapter 2 and the BLM Fire Operations website
13 ([https://doimsp.sharepoint.com/sites/blm-fa/fire-](https://doimsp.sharepoint.com/sites/blm-fa/fire-operations/SitePages/Fire-Severity-Preposition.aspx)
14 [operations/SitePages/Fire-Severity-Preposition.aspx](https://doimsp.sharepoint.com/sites/blm-fa/fire-operations/SitePages/Fire-Severity-Preposition.aspx)).
- 15 • **NPS** – Parks have the authority to approve “Step-up” actions only, as
16 defined in their FMP. Regional offices approve severity.
- 17 • **FWS** – Refer to the Fire Management Handbook, chapter 10 for additional
18 short-term severity guidance.
- 19 • **FS** – Severity funding direction is found in FSM 5130 and current fiscal
20 year program direction.
- 21 • **BIA** – Regional offices will establish procedures for approval and
22 monitoring short-term severity usage/funds within their respective regions.

23 **National-Level Fire Severity Funding**

24 National agency fire directors or their delegates are authorized to allocate fire
25 severity funding under specific conditions stated or referenced in this chapter.
26 Expenditure of these funds is authorized by the appropriate approving official at
27 the written request of the state/regional director. Approved severity funding will
28 be used only for the preparedness activities and timeframes specifically outlined
29 in the authorization, and only for the objectives stated above.

- 30 • **BLM** – Refer to chapter 2 and the BLM Fire Operations website for
31 additional national severity guidance.
- 32 • **NPS** – Regional offices approve all severity requests.
- 33 • **FWS** – Additional information may be found on the FWS SharePoint site or
34 the current US Fish and Wildlife Service Fire Business Guide.
- 35 • **FS** – Regional offices approve all severity requests.
- 36 • **BIA** – Refer to chapter 6 for additional guidance.

37 **Appropriate Fire Severity Funding Charges and Activities**

38 Severity-funded personnel and resources will not use a severity cost code while
39 assigned to wildfires. The wildfire FireCode number will be used.

40 **Labor**

41 Appropriate labor charges include:

- 42 • Regular pay for non-fire personnel;

- 1 • Regular pay for seasonal/temporary fire personnel outside their normal fire-
 - 2 funded activation period; and
 - 3 • Overtime pay for all fire and non-fire personnel.
- 4 Severity-funded personnel and resources must be available for immediate initial
5 attack regardless of the daily task assignment.

6 **Vehicles and Equipment**

7 Appropriate vehicle and equipment charges include:

- 8 • GSA lease rate and mileage;
- 9 • Hourly rate or mileage for agency-owned vehicles; and
- 10 • Commercial rentals and contracts.

11 **Aviation**

12 Appropriate aviation charges include:

- 13 • Contract extensions;
- 14 • The daily minimum cost for call-when-needed (CWN) aircraft;
- 15 • Preposition flight time; and
- 16 • Support expenses necessary for severity funded aircraft (facility rentals,
17 utilities, telephones, etc.).

18 **Travel and Per Diem**

19 Severity-funded personnel in travel status are fully subsisted by the Government
20 in accordance with their agency regulations. Costs covered include:

- 21 • Lodging;
- 22 • Government-provided meals (in lieu of per diem);
- 23 • Airfare (including returning to their home base);
- 24 • Privately owned vehicle mileage (with prior approval); and
- 25 • Other miscellaneous travel and per diem expenses associated with the
26 assignment.

27 **Prevention Activities**

28 Appropriate prevention activities include:

- 29 • Funding prevention teams (Prevention teams will be mobilized as
30 referenced in the *National Interagency Mobilization Guide*, chapter 20.)
- 31 • Implementing local prevention campaigns, to include community risk
32 assessments, mitigation planning, enforcement, outreach, and education
- 33 • Augmenting patrols

34 **Note:** Non-fire funded prevention team members should charge Base 8 and
35 overtime to the severity cost code for the length of the prevention activities
36 assignment. Fire-funded personnel should charge overtime only to the severity
37 cost code for the length of the prevention activities assignment.

38 **Inappropriate Fire Severity Funding Charges**

39 The following charges should not be charged to fire severity:

- 1 • Shortages between funds actually appropriated (including rescissions) and
- 2 those identified in the fire planning process
- 3 • Administrative surcharges, indirect costs, fringe benefits
- 4 • Equipment purchases
- 5 • Purchase, maintenance, repair, or upgrade of vehicles
- 6 ○ *NPS/FWS/BIA – Severity-related repair and maintenance of agency*
- 7 *vehicles and equipment may be funded by severity because they do not*
- 8 *have a use rate covering these charges. These charges must be*
- 9 *approved by the national office.*
- 10 • Purchase of radios
- 11 • Purchase of telephones
- 12 • Purchase of pumps, saws, and similar suppression equipment
- 13 • Aircraft availability during contract period
- 14 • Cache supplies that are normally available in fire caches

15 **Interagency Severity Requests**

16 Agencies working cooperatively in the same geographic area must work
 17 together to generate and submit joint requests, to minimize duplication of
 18 required resources, to reduce interagency costs, and to utilize severity-funded
 19 resources in an interagency manner. However, each agency should request funds
 20 only for its fair-share contributions or offsets for pooled, interagency
 21 resources/activities. The joint request should be routed simultaneously through
 22 each agency’s approval system, and the respective approving official will issue
 23 an authorization that specifies allocations by agency.

24 **Requesting Fire Severity Funding**

25 Each agency has established severity funding request protocols. The completed
 26 and signed request is submitted from the state/regional director to the appropriate
 27 approving official as per the sequence of action outlined below. Authorizations
 28 will be returned in writing.

29 **Sequence of Action and Responsible Parties for Severity Funding Requests**

Action	Responsible Party
In collaboration with interagency partners, as appropriate, identify and develop severity funding request.	Unit FMO
Review, modify, and approve (or reject) request. Forward to state/regional office.	Unit agency administrator
Review, modify, and recommend for approval/rejection unit request. Add state/regional needs and consolidate. Forward to state/regional director for approval within 48 hours.	State/regional FMO
Review, modify, and approve/reject request. Forward to the appropriate national fire director/approving official within 48 hours. Notify the fire budget staff.	State/regional director

Action	Responsible Party
Review, modify, and approve/reject the request within 48 hours. Issue written authorization with a severity cost code.	Appropriate national fire director/approving official
Establish severity cost code in the appropriate finance system within 24 hours.	Applicable national finance system
Notify unit office(s) and state/regional budget lead upon receipt of authorization.	State/regional FMO
Utilize severity cost code. Ensure that project expenditures are only used for authorized purposes. Continually assess needs and submit new requests/extensions as required.	Unit FMO
Maintain severity files, including requests, authorizations, and summary of expenditures and activities.	Unit/state/regional/national offices

- 1 • *NPS – All approved severity requests must be uploaded to the shared*
2 *OneDrive folder per the Fiscal Year 2021 Wildland Fire Severity Program*
3 *Oversight Memorandum.*
4 • *FS – Severity codes are preestablished at the beginning of the fiscal year.*
5 *Requests are approved at the regional office with a copy to the national*
6 *office for those exceeding \$250,000 or including national shared resources.*

7 **Labor Cost Coding for Fire Severity Funded Personnel**

8 Fire preparedness personnel outside their normal activation period, employees
9 whose regular salary is not fire funded, and administratively determined (AD)
10 employees hired under an approved severity request should charge regular time
11 and approved non-fire overtime to the severity suppression operations
12 subactivity and the requesting office's severity cost code.

13 Fire preparedness personnel should charge their regular planned salary (Base-8)
14 to their budgeted subactivity using their home unit's location code. Follow
15 individual agency coding guidance when responding to another agency's
16 severity request.

17 Regular hours worked in suppression operations will require the use of the
18 appropriate fire subactivity with the appropriate FireCode number. Overtime in
19 fire suppression operations will be charged to the suppression operations
20 subactivity with the appropriate FireCode number.

21 Employees from non-Federal agencies should charge their time in accordance
22 with the approved severity request and the appropriate local and statewide
23 agreements. An interagency agreement for reimbursement must be established.
24 The Interagency Agreement for Fire Management can be used as a template.

- 25 • *FS – Firefighters under a severity order will continue to charge base salary*
26 *to a B-code and overtime to the severity S-code, even if it is outside their*

1 *funded tour. If called out to an incident, these resources will be under the*
2 *same rules of charging base salary to a B-code and overtime to the P-*
3 *code. Regions must manage funding of tours within allocations*
4 *provided. Firefighters working on an incident beyond their planned and*
5 *funded tour will continue to charge their Base-8 hours to a B-code*
6 *(Wildland Fire Preparedness Program [WFPR]). Regions must contact WO*
7 *FAM if they believe they might exceed their allocations. All firefighters*
8 *charge their Base-8 hours to preparedness job codes—either WFPR or a B-*
9 *code—unless they are working on other non-fire project work outside of fire*
10 *season. These situations are accounted for in the allocations by basing the*
11 *allocations on the last three years of salary expenditures.*

12 **Documentation**

13 The unit/state/regional and national office will document and file accurate
14 records of severity funding activity. This will include complete severity funding
15 requests, written authorizations, and expenditure records.

16 **Severity Funding Reviews**

17 State/regional and national offices should ensure appropriate usage of severity
18 funding and expenditures. This may be done as part of the normal agency fire
19 program review cycle.

20 **Qualification for Professional Liability Insurance Reimbursement**

21 Public Law 110-161 provides for reimbursement for up to one half of the cost
22 incurred for professional liability insurance (including any administrative
23 processing cost charged by the insurance company) for temporary fire line
24 managers, management officials, and law enforcement officers.

25 To qualify for reimbursement, “temporary fire line managers” must meet one of
26 the following three criteria:

- 27 • Provide temporary supervision or management of personnel engaged in
28 wildland fire activities;
- 29 • Provide analysis or information that affects a supervisor’s or manager’s
30 decision about a wildland fire;
- 31 • Direct the deployment of equipment for a wildland fire, such as a base camp
32 manager, an equipment manager, a helicopter coordinator, or an initial
33 attack dispatcher.
 - 34 ○ **DOI** – See *Personnel Bulletin No. 08-07, March 20, 2008.*
 - 35 ○ **FS** – Refer to [https://usdagcc.sharepoint.com/sites/fs-cfo-](https://usdagcc.sharepoint.com/sites/fs-cfo-bfp/MiscPay/SitePages/Home.aspx)
36 [bfp/MiscPay/SitePages/Home.aspx](https://usdagcc.sharepoint.com/sites/fs-cfo-bfp/MiscPay/SitePages/Home.aspx).