

National Interagency Predictive Services Handbook- 2023 The National Predictive Services Oversight Group (PSOG) provides management oversight and direction to National Predictive Services Program. The group coordinates, directs and oversees the development and implementation of national program products and services, ensures the integrity and cohesiveness of program operations, arbitrates differences, and provides a venue for dialogue and deliberation in support of a sustainable and effective program.

Signature

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Purpose

The purpose of the National Interagency Predictive Services Handbook is to provide direction, guidance, and standards to the Predictive Services program at both the National and Geographic Area Coordination Center levels. It establishes minimum standards for products and services from the Predictive Services programs in support of the wildland fire organization. This handbook defines:

- Program management and organization
- Roles and responsibilities
- Products and services
- Communication and coordination
- Decision-making processes
- Training and development
- Operational support

Handbook Review and Updates

The Predictive Services Handbook will be reviewed annually and updated as needed. Any proposed changes will be submitted to the Predictive Services Oversight Group by December 1 to be considered for inclusion for the following year. Proposals will then be presented to all members of the Predictive Services Program and the Geographic Area Center Managers for discussion and decision. Changes will be implemented no later than January 31.

Predictive Services Intent

Predictive Services was developed to create an interdisciplinary decision support unit that better coupled weather and climate to the evolution of fuels and wildland fire. This is accomplished through analysis of weather, climate, fuels, fire activity and intelligence. Predictive Services consists of three primary functions: fire weather and climate; fuels and fire danger; and fire activity and firefighting resources intelligence. Predictive Services units are located at the National Interagency Coordination Center (NICC) in Boise, ID, and at each of the Geographic Area Coordination Centers (GACCs). Users of Predictive Services products range from national agency administrators to regional fire managers to firefighters on the ground.

Predictive Services Background

Understanding the history of the development of Predictive Services will provide context to local staffing and policies. Consulting with your Center Manager, other Predictive Services members, or host agency supervisor may lend additional information.

Historically, the wildland fire organization managed wildfire in a reactive fashion. Land management agencies operated with a distinct lack of integrated planning and without multidisciplinary tools that incorporated expertise in weather, climate, fuels, and fire management resource requirements. Agencies allocated resources as needed or when significant fire threats became imminent. This approach failed to provide for long range fire activity planning on a national interagency basis, or for periods of high competition for resources.

During the 1990s, fire managers attempted to blend weather, fuels, and resource information into fire management planning. Several efforts failed or were complicated by declining budgets, complex and restrictive land management policies, and a restructuring of the National Weather Service's (NWS) fire

weather program. Management of resources grew increasingly difficult with a growing need for all hazards support from the land management agencies. This cemented the need for development of integrated planning and decision-support data, information, and tools for fire management.

Recognizing this need, attempts to synthesize multidisciplinary information into proper planning tools began at a few Geographic Area Coordination Centers. Teams of intelligence coordinators, fuels and fire danger specialists, and meteorologists combined their respective areas of expertise to develop seasonal outlooks that gave fire managers a predictive tool to plan management strategies for the coming fire season. These early efforts proved useful and led to a dedicated program for addressing these issues on a continuous basis. In 1999, the Northwest Coordination Center hired the first dedicated fire meteorologist to work directly with GACC staff and other subject matter experts to produce a suite of products that addressed medium and long-range fire planning concerns.

The severity and extent of the 2000 fire season highlighted the need for a more holistic approach to managing wildland fires as national fire resources were overwhelmed by a destructive season that raised public and political awareness at the national level. It became apparent that despite a wealth of weather, fuels, and resource information, there were no centers of expertise to integrate this information into effective planning and decision support tools. The update of the National Fire Plan provided funding for 20 fire meteorologists to join with the existing intelligence staff at the GACCs and the NICC, to form the National Predictive Services Program.

A National Predictive Services Group (NPSG) was formed and originally chartered under the Geographic Area and National Interagency Coordination Center Managers in 2002 to provide the Predictive Services program with oversight, leadership, and direction. To ensure strong national leadership and advocacy for the Predictive Services Program, the National Fire and Aviation Executive Board (NFAEB) agreed to recharter NPSG in the fall of 2005. After NFAEB and NWCG were combined during the NWCG restructuring process, NPSG was again re-chartered in 2009 and renamed the National Predictive Services Subcommittee (NPSS). Between 2015 and 2017, the effectiveness of the NPSS seemed to have failed.

In 2017 a program review was conducted of Predictive Services. The analysis determined that the group and their products were used and appreciated by many in fire management, but several shortfalls were impeding success of the program. Issues included proactive staffing that would address career progression and succession planning; governance and supervision of positions supporting multiple agencies; funding for new hires as well as product development and maintenance; standardization of products at different geographic areas; and how to better engage research and new technologies. One of the highest priorities identified a need for fire analysts at the NICC and at each GACC that would work with the meteorologists and intel to assess meteorological influences on the fire environment and describe subsequent implications to both wildland and prescribed fires and the effectiveness of control measures.

In 2019, the Predictive Services Oversight Group (PSOG) was chartered by the Fire Management Board (FMB) in response to the findings from the 2017 Predictive Services Program Review Report. PSOG encouraged a minimal level of staffing at each GACC, including that each area hire a fire analyst into the program. The Northwest GACC and NICC already staffed fire analysts in their Predictive Services units prior to this report.

The NICC and several geographic areas, including Alaska and North Ops, quickly hired fire analysts. In 2022, South Ops and Eastern Area also hired full-time fire analysts. Northern Rockies has a shared fire analyst

position with the Northern Region USFS Regional Office. Rocky Mountain has an analyst detail that they may choose to turn into a full-time position in the future. The goal is for all GACCs to have a fire analyst as part of their Predictive Services Program.

National Program Management and Organization

Program Organization

National Predictive Services staff works under the direction of the NICC Manager, with guidance from the National Multi-Agency Coordinating Group (NMAC). GACC Predictive Services staff work under the direction of the GACC Manager, with guidance from the Geographic Area Coordinating Groups. National and GACC Predictive Services work in unison to create and maintain products and services which provide value to users at all levels. Predictive Services is comprised of Meteorologists, Wildland Fire Analysts, and Intelligence Coordinators at the NICC and GACCs.

Program Management and Coordination

PSOG is tasked with providing management oversight and direction to the National Predictive Services Program. The group consists of:

- fire and center managers representing the federal land management agencies and the coordination system,
- subject matter experts from the Intel, Meteorologist, and Fire Analyst staff.

The group coordinates, directs, and oversees the development and implementation of nationally standardized products and services. Consistent group dialogue and effective communication with Predictive Services staff and stakeholders ensures the integrity and cohesiveness of daily operations and provides for a sustainable and effective program.

PSOG is accountable for and has the authority to coordinate and provide management oversight to the National Predictive Services Program on behalf of its stakeholder groups and the Wildland Agencies. More information about PSOG can be found here: <u>https://www.nwcg.gov/partners/fmb/psog</u>.

Ideally, a Program Manager within the Predictive Services Unit at the GACC is identified. This person will be the primary interface with the GACC Manager and provide daily supervision of the Predictive Services Unit. Alternatively, the GACC Center Manager may function as the Program Manager for Predictive Services, though due to specific skills and training involved in the program, this is less desirable. Regardless of program management, GACC Managers provide supervision of their respective Predictive Services Units and work with that group in developing GACC-specific operating plans. These operating plans will encompass the daily activities of the GACC Predictive Services program, including supervision, the flow of information within the GACC and Geographic Area, the products produced, and the internal and external dependencies for these products.

GACC Managers and geographic area coordinating groups have the responsibility for ensuring GACC Predictive Services staff have the appropriate allocation of time and resources to produce national products as outlined in this handbook and that those products are completed as required. Any recurring and systemic issues regarding product issuance, data outages, and coordination among GACCs should be presented to PSOG through the appropriate subject matter expert.

Roles and Responsibilities

Predictive Services is a decision support unit for federal, state, and local land agencies for operational management of and strategic planning for wildland firefighting resources. Predictive Services accomplishes this through analysis of weather climate, fuels, fire activity and expected behavior, and resource availability. The products and services provide support for the proactive management of wildland fire considering safety, cost containment, efficiency, and ecosystem health. Additionally, Predictive Services will advance the state of science through collaborations with cooperating agencies, including academic, research, and public/private sector partners.

National Wildfire Coordinating Group (NWCG)

Formed in 1974, the National Wildfire Coordinating Group facilitates operational cooperation and coordination between various public agencies having jurisdictional responsibility for wildland fire management.

In 2007, Predictive Services was recommended for representation on the Fire Environment Committee and on the Fire Weather and Fire Danger Subcommittees.

Predictive Services Oversight Group (PSOG)

The Predictive Services Oversight Group (PSOG) provides management oversight and direction to the National Predictive Services Program. The group coordinates, directs, and oversees the development and implementation of national program products and services, ensures the integrity and cohesiveness of program operations, arbitrates differences, and provides a venue for dialogue and deliberation in support of sustainable а and effective program. The charter can be found at https://www.nwcg.gov/sites/default/files/docs/eb-psog-charter.pdf. PSOG is accountable for and has the authority to coordinate and provide management oversight to the National Predictive Services Program on behalf of its stakeholder groups and the Wildland Agencies.

PSOG is responsible for fulfilling the following management duties:

- Provide a common and integrated approach to national program strategy, planning and implementation.
- Coordinate and solicit fire management needs with National and Geographic Area Multi-Agency Coordinating Groups (NMAC and CGAC), who as stakeholders provide well-defined communication pathways to interagency fire leadership at the local, geographic, and national level.
- Facilitate communication with National and Geographic Area Center Managers Community.
- Ensure management coordination of changes to national program products, services, and applications.
- Provide guidance to National and Geographic Coordination Center Predictive Services.
- Make recommendations for the development and support of new national program products, services, and applications.
- Serve as a deliberative body to review and resolve national issues for which Predictive Services program staff has failed to reach consensus.
- May establish standing or ad hoc working groups whose purpose is to provide effective, coordinated, and sustainable management to the National Predictive Services Program.

PSOG will consist of the following core (voting) membership:

- NMAC Representative
- CGAC Representative
- NICC Center Manager or Assistant Center Manager
- GACC Center Manager or Assistant Center Manager
- Two Agency Fire Management Representatives
- Predictive Services Fire Analyst Working Group Representative,
- Predictive Services Intelligence Working Group Representative,
- Predictive Services Meteorologist Working Group Representative.

Non-voting liaison representation includes:

- Fire Management Board (FMB)
- Office of Wildland Fire
- National Weather Service

Membership, program review information, meeting minutes, FAQs, FMB memos, and other documents related to PSOG can be found at <u>https://www.nwcg.gov/partners/fmb/psog</u>.

NICC and GACC Predictive Services Unit

The National Predictive Services Program mission is to integrate climate, weather, fuels, fire activity, fire potential, and fire risk, and incident resource status information to enhance the ability of managers to make informed decisions for both short- and long-range strategic planning. Working as cohesive units, Predictive Services blends the functions of intelligence, fire management analysis, climate, and meteorology for delivering decision support data products and services in support of Geographic Area and National decision-making.

Predictive Services units at NICC and the GACCs will provide decision support products and services to federal, state, local and tribal land management agencies, and emergency management organizations. Products and services will include but are not limited to weather and climate, fuels and fire danger, significant fire potential, historical and current fire activity, and firefighting resources.

Predictive Services responsibilities include:

<u>Managing operational staffing.</u> Each unit will be organized and adequately staffed for fulfilling the duties required of its mission. These include but are not limited to preparation and dissemination of weather, climate, fire, and resource products; routine and ad hoc briefings for fire organization staff; development of analysis, diagnostic and prognostic tools; administrative documents including information and policy bulletins. Qualified specialists (meteorologists, intelligence specialists, fuels and fire danger analysts, etc.) will be identified and scheduled as needed to maintain full-service capabilities year-round to meet the wildland/prescribed fire missions, especially during the unit's core fire season, during intensive operational periods, and during unexpected staffing emergencies.

<u>Providing decision support products and services</u>. Predictive Services units will work collectively and individually to provide decision support products and services to the wildland fire organization. These products and services include but are not limited to collection, analysis and dissemination of fire activity,

weather, fuels, and firefighting resource data; prediction of weather, fuels, and fire activity (danger, potential, behavior, etc.); responding to queries for information related to fire activity, weather, fuels, firefighting resources and prescribed fire support; responding to inquiries from officials at agency, department, congressional, or executive levels; and maintaining situational awareness and briefing decision makers of evolving conditions.

<u>Research and development in areas of expertise</u>. Predictive Services units will research, develop, and disseminate methods for improving the state of the science and technology used in performing its duties. This includes but is not limited to developing new methods for data collection and analysis; developing new quantitative forecast methodologies and tools; identifying correlations among the variables that affect weather, climate, fuels, and wildfire; identifying and establishing better thresholds or breakpoints for assessing weather and fuels risks; validating processes and verifying forecasts; and determining value of products and services to the overall business of fire management. Leveraging Regional Fire Science Consortia or Fire Exchange Network (https://www.firescience.gov/JFSP_consortia.cfm), utilizing the Joint Fire Science Program, and reaching out to university researchers is encouraged.

Maintain proficiency with existing technologies while identifying and developing new ones. Predictive Services will maintain a high level of proficiency in all technologies that are essential in fulfilling its responsibilities. It will also identify and develop new technologies that can improve or enhance its ability to provide decision support products and services to the wildfire organization. Such technologies will include but are not limited to computer software, database and data analysis systems, internet technologies, mobile technologies, geographic information systems (GIS), and dissemination and broadcast systems. If Predictive Services personnel do not possess these skillsets, training may be assigned to acquire necessary skills to complete their duties. Additionally, if new and emerging technology outpaces training and existing skillsets, PSOG should be made aware while additional outside support should be provided by GACC Managers or fire management to help fulfill Predictive Services mission.

<u>Identify and maintain collaborative relationships</u>. Predictive Services will develop and foster collaborative relationships with partners from among the wildland fire agencies, other government agencies, academic institutions, and the public and private sectors to leverage the collective expertise and improve the quality of decision support products and services. Predictive Services will maintain membership on NWCG committees and sub-committees that incorporate the fire environment and intelligence gathering.

<u>Complete required training as well as assist in training of wildland fire personnel</u>. Predictive Services personnel must complete all general and job-specific training required to maintain proficiency in their skills. They should also make every effort to complete additional training that can enhance their capabilities. Further, Predictive Services personnel should contribute to the corporate knowledge base by participating as instructors in many of the training exercises and courses offered within the fire organization. While this is encouraged, it should not interfere with performance of regular duties.

Intelligence Section

The Intelligence unit of Predictive Services at the GACC and NICC is established to collect, analyze, and report on situation and resource information. At the GACC, positions vary and may include an Intelligence Coordinator, Intelligence Officer, and/or a detailed Intelligence Support Specialist (INTS). In addition, roles, responsibilities, and duties also vary among the Intelligence units at the GACC, but generally include:

<u>Multilevel coordination</u>. The Intelligence units coordinate with all levels of the interagency wildland fire organization including zones, areas, units, dispatch offices and other GACC Predictive Services units. Daily coordination enables the collection and exchange of information regarding resource commitment and availability; situational assessments of incidents (locations, number, size, complexity); threats to people; values at risk (natural resources, infrastructure, structures, etc.); and critical resource needs.

<u>Analysis and situational assessment</u>. Intelligence units analyze incident and resources information to identify critical needs, prioritize threats, and establish preparedness levels to assist decision-makers and dispatchers in incident and resource management decisions.

<u>Archive historical incident and resource information</u>. Intelligence units archive data from all levels of the wildland fire organization and maintain the historical record for future study, evaluation, planning and preparedness. This data includes but is not limited to incident location, start and end dates, size, cause, jurisdiction, resources dispatched, costs, values lost (structures, infrastructure, natural resources, etc.), injuries and fatalities.

<u>Briefings and reports</u>. Intelligence units provide written and oral briefings and reports and perform data analysis for a wide range of users, including resource managers, agency leadership, department secretaries and officials, congressional members and staffers, and congressional committees and subcommittees.

<u>Oversight and training of reporting programs</u>. Intelligence units provide oversight for the ICS-209 and Situation Reporting programs to ensure incident information is accurate and timely. Intelligence personnel also develop and conduct training for fire and dispatch personnel.

Meteorologist Section (Fire Weather and Climate)

Meteorologists are the weather, climate, and fire potential subject matter experts of the Predictive Services program. They collect and analyze weather data, forecast weather and its impacts on fuels, fire danger, fire potential, and resource allocation and disseminate findings throughout the fire organization. When available, the meteorologist works closely with a Wildland Fire Analyst. Strong working relationships and coordination with National Weather Service (NWS) forecast offices, incident meteorologists, regional operational centers, national centers, and NWS fire management are encouraged. In addition, relationships with agencies outside typical government partners may be critical, particularly with those in the energy and transportation sector. While roles and responsibilities vary to a degree among the Geographic Area Predictive Services units, the overall mission focus is to provide the following:

<u>Analysis and prognosis</u>. Meteorologists analyze observed and modeled meteorological data from a wide variety of sources to identify patterns that will affect the state of fuels, fire activity, and allocation of resources. They assess current and forecast conditions across multiple spatial and temporal scales to identify areas of elevated potential for significant wildfire prescribed fire activity, including ignitions, spread, behavior, severity, and duration. Air quality and smoke concerns may also be identified and considered.

<u>Fire and resource management decision support</u>. Meteorologists provide decision support information and tools in support of fire and resource management activities. Decision support is accomplished through briefings, published products, analysis and forecasting tools, and ad hoc queries. Protection of life and property, including firefighter and firefighting equipment safety, is implicit in all decision support activities. If a Predictive Services meteorologist is certified as an Incident Meteorologist (IMET) or Air Resource Advisor (ARA), or feels comfortable providing such services, they are encouraged to provide on-site decision support, especially on prescribed burns, when activity and management allow.

<u>Research and development</u>. Meteorologists must keep current with the state of the sciences in weather and climate, fuels, and wildland fire. They must also advance the science through research, development of new methods and tools for prediction, and contributing to the overall knowledge base in fire and fire prediction.

<u>Technology and data transfer</u>. Meteorologists will identify ways to disseminate and distribute data and products, working with partners to develop and implement technologies that will facilitate efficient and effective data transfer and understanding.

<u>Education and outreach</u>. Meteorologists will educate the wildland fire community on the use and understanding of meteorological data and products in wildland fire. This can be accomplished by participating as instructors in formal training courses offered by the wildland fire organizations; by preparing and disseminating training materials, user guides, or other documents to the wildland fire community; by attending meetings, workshops, and conferences; or through day-to-day interactions with firefighters, fire managers, and decision makers. Consistent efforts should be made to communicate effectively with stakeholders and partners in fire management to build trust and shared experience to facilitate better working relationships. Meteorologists should also engage the general public, educating them about wildfire and its prediction, through various outreach methods such as media interviews, community meetings, public school functions, or tours of wildland fire facilities.

Wildland Fire Analyst Section

The Wildland Fire Analysts assess how fuels, fire danger, and fire behavior will be affected by current and forecast weather conditions to identify potential safety concerns, problem areas, and opportunities for allocating or repositioning resources. The Wildland Fire Analysts work closely with the Predictive Services Meteorologists. They assist with fire danger/behavior skills prior to, during, or after increased fire activity to help develop short- and long-term outlook products.

Analysis and forecasting: Wildland Fire Analysts analyze observed and modeled weather, fuels, fire danger, and behavior data from a wide variety of sources to identify patterns that will affect fire activity. They assess current and anticipated conditions across spatial and temporal scales to identify areas of greater potential for significant fire activity, including ignitions, spread, behavior, severity, and duration for wildfire and prescribed fire efforts. Wildland Fire Analysts analyze incident information to identify critical patterns, prioritize threats, and assist decision-makers and dispatchers in incident, RX and resource management decisions.

<u>Fire and resource management decision support:</u> Wildland Fire Analysts provide decision support information and tools in support of wildfire and resource management activities. Decision support is accomplished through briefings, published products, analysis, and ad hoc queries.

<u>Research and development:</u> Wildland Fire Analysts keep current with the state of the sciences in weather and climate, fuels, and fire behavior. They advance the science through research, development of new methods and tools for prediction, and contributing to the overall knowledge base in fire and fire prediction.

<u>Education and outreach</u>: Wildland Fire Analysts will educate the wildland fire community on the use and understanding of weather and fuels data and products in wildland/prescribed fire. This can be accomplished by participating as instructors in formal training courses offered by the wildland fire organizations; by preparing and disseminating training materials, user guides, or other documents to the wildland fire community; by attending meetings, workshops and conferences; or through day-to-day interactions with firefighters, fire managers and decision makers. Fire Analysts should also engage the general public, educating them about wildfire and its prediction, through various outreach methods such as media interviews, community meetings, public school functions, or tours of wildland fire facilities.

<u>Multilevel coordination</u>: Wildland Fire Analysts coordinate with all levels of the interagency wildland fire organization including zones, areas, units, and dispatch offices. Daily coordination enables the collection and exchange of information regarding fuels and fire danger and behavior.

<u>Briefings and reports</u>: Wildland Fire Analysts provide written or oral briefings, prepare written reports, and perform data analysis for a wide range of users, including resource managers, agency leadership, department secretaries and officials, congressional members and staffers, and congressional committees and subcommittees.

Products and Services

Predictive Services provides national and Geographic Area products designed to meet national, regional, state, and local interagency needs. National products are standardized to provide consistency and ensure comprehension by all users.

Geographic area products vary widely across the country and are designed to meet the specific, and sometimes unique, needs of the GACC and local users. All products provided by meteorologists, intelligence staff, and fire analysts are considered Predictive Services products.

National Predictive Services Products

The NICC Predictive Services unit produces or oversees the production of national products for dissemination to decision makers throughout the country. Users include Congressional members and their staffs, Department Secretaries, Agency Directors, Fire Directors, Regional and State Directors, Fire Management Officers, Emergency Management Officials, fuels and fire analysts, dispatch units, firefighters, and other Federal, State, and Local partners. Some national products originate at NICC Predictive Services; others include products from the Geographic Area Predictive Services units integrated by the NICC Predictive Services unit.

Incident Management Situation Report (IMSR)

The Incident Management Situation Report is a national synopsis of significant incidents. It provides key incident information to many agencies and offices within government, as well as many groups and entities outside of government with an interest in wildland fire activity. The IMSR includes significant fire activity based upon Geographic Area, information on where to find national Predictive Services products, a "Six Minutes for Safety" topic, year to date wildland and prescribed fire statistics and resource commitments in a synopsized format. The Report is prepared by NICC Intelligence staff from information and data derived from Interagency Situation Reports and ICS-209 reports submitted through the SIT-209 application in the Wildland Fire Application Portal. Additionally, NICC Predictive Services provides a weather discussion and

a link to the National 7-day Significant Fire Potential Outlook and the National Significant Wildland Fire Potential Outlook where general weather, climate, and fuels information can be found.

The criteria for including significant wildfires and other incidents in the IMSR are described in the National Interagency Mobilization Guide, Chapter 60. The IMSR is issued weekly at National Preparedness Level 1, Monday through Friday at National Preparedness Level 2, and daily at National Preparedness Level 3 and higher.

National 7-day Significant Fire Potential Outlook

The National 7-day Significant Fire Potential Outlook (7-Day) is a composite of outlooks produced by each of the Geographic Area Predictive Services units. The 7-day provides a week-long projection of significant fire potential, considering current conditions and predicted trends in fuel dryness, weather, and fire ignition potential. This product is a nationwide view of the significant fire potential for the next seven days with links to the individual Geographic Area outlooks. The system is database-driven and is updated immediately as each Geographic Area Predictive Services unit posts its outlook. For national briefings, GACCs must issue their 7-day product by 0830 MDT to be included in the emailed briefing and by 0930 MDT to be included in the NMAC briefing. Any GACC unable to meet these deadlines will be represented by their last issuance. Since this product is a compilation of forecasts from each Geographic Area, the input frequency will vary depending on fire activity in each GACC. The national product will draw on the latest forecast from each Predictive Services unit and will show gray coloring after three days with no update, indicating that area is at PL1, and fire activity is minimal.

National Significant Wildland Fire Potential Outlook

The National Significant Wildland Fire Potential Outlook is prepared and distributed by NICC Predictive Services on the first day of each month at 1200 Mountain Time throughout the year, but exceptions may occur if the first is on a weekend or holiday. The report is a composite of discussions with and written input from the Geographic Area Predictive Services units with national summaries prepared by NICC Predictive Services. The purpose of the Outlook is to provide fire managers at all levels with the information needed to make long range decisions concerning resource staffing and allocation. This is primarily done through identifying areas in which potential significant wildfire activity is expected to be above or below normal levels.

The report provides an outlook of monthly significant fire potential for the next four months, including monthly maps covering the outlook period depicting above normal, normal, or below normal significant wildland fire potential. It contains the following content:

- An *Executive Summary* provides a brief synopsis of each of the outlook periods.
- Maps in the summary depict areas of below normal, normal, and above normal significant fire potential.
- The *Past Weather and Drought* section summarizes the weather of the past month and the evolution of any drought conditions to illustrate how fuels and wildfire conditions reached the current state. This section may include any significant wildfire events.
- The *Weather and Climate Outlooks* section summarizes the broad climate patterns that will affect temperature and precipitation for the next four months.
- The *Geographic Area Forecasts* section provides more specific weather, fuels, and fire potential information for each of the Geographic Areas. The Geographic Area Forecasts should discuss past weather and drought, fuel conditions, fire activity and season timing, and how weather and

climate outlooks will impact significant fire activity in the coming months, with a summary of the forecast outlook at the beginning.

NICC Predictive Services will facilitate a monthly coordination call in approximately the third week of each month to coordinate monthly outlooks. The call will focus on a climate briefing from Predictive Services subject matter experts. Other climate subject matter experts from partner agencies may participate. Each Geographic Area Predictive Services unit will have the opportunity to offer additional weather, climate, and fuels information, ask questions, or convey preliminary thoughts on the outlook. Additional coordination may occur between neighboring units after the primary coordination call.

Geographic Area Predictive Services units must provide written input and maps of significant wildland fire potential concern for their respective area to NICC Predictive Services by the date and time specified during the coordination call of the National Significant Wildland Fire Potential Outlook. The contributions from each of the Geographic Area Predictive Services Units should be well-written and professional, adhering to technical writing standards as to minimize editing by NICC Predictive Services and to achieve high standards of a flagship and forward-facing Predictive Services product. These outlooks should be written in a manner that is accessible to non-meteorologists, although some technical language is permitted due to the nature of the outlooks. Please note, these outlooks are widely circulated and utilized, including national and international media and high-ranking elected officials.

Fuels and Fire Behavior Advisories

Fuels and Fire Behavior Advisories are alerts issued to address an exceptional or extreme circumstance that presents an increased threat to firefighter or public safety. Conditions that could normally be reasonably expected do not warrant a Fuels and Fire Behavior Advisory. Advisories will highlight current conditions that are on-going and should give specific examples from the field, if available.

- Advisories should be tailored so that firefighters at all experience levels can recognize the situation and act accordingly.
- Advisories must be coordinated with neighboring administrative units to ensure that all areas with similar conditions are being addressed.
- Advisories that extend beyond a single local administrative unit or that will be posted on the national Advisory map must be coordinated with the NICC and Geographic Area Predictive Service Units.
- Advisories must include a map of the affected area.
- Only one Advisory may be active at any time over any area: if multiple advisory conditions are present, they must be incorporated into one Advisory.
- Advisories will remain in effect for no more than 14 days from issuance. If conditions continue beyond that time frame, a new Advisory will need to be issued to update conditions with more timely information. At the request of the issuer, Advisories may be lifted at any time.

Issuance of Fuels and Fire Behavior Advisories that extend beyond a single local administrative unit will be handled on a national level. The Advisory text product and map will be submitted utilizing the Fuels and Fire Behavior Advisory Template found at <u>https://www.nifc.gov/sites/default/files/documentmedia/Fuels fire behavior advisory template.pdf</u> to the NICC Predictive Services Unit and the National Multi-Agency Coordinating Group representative for the Geographic Area issuing the Advisory. Once finalized and approved, NICC Predictive Services staff will distribute the Advisory via email throughout the Predictive Services Program, the National Coordination System, and the External Affairs unit. NICC Predictive Services will maintain a national website of current Fuels and Fire Behavior Advisories, consisting of a national map depicting advisory areas with links to the Fuels and Fire Behavior Advisory text product. It is strongly recommended that any anticipated Fuels and Fire Behavior Advisories be coordinated with NICC Predictive Services staff before they are submitted for issuance.

Other National Products

Other national products and services may include briefings, reports, and summaries as needed, program management, verification and quality assurance, training, national team involvement, product development, support and implementation, and management of web site, database, and systems that are controlled by Predictive Services personnel.

Geographic Area Predictive Services Products

The Geographic Area Predictive Services units produce and distribute weather, climate, fuels and fire potential, fire activity, and resource dispatch information and products for decision support at the geographic and local levels of the wildland fire organization. This information may also be used by national level interests when a higher level of detail not found in national products is required. Geographic Area Predictive Services units engage in upward reporting of vital fire and resource status information and decision support forecast products for inclusion in national reports and outlooks.

Geographic Area Predictive Services units produce other reports and outlook products that vary widely across the country to meet the specific needs of the Geographic Area, Multi-Agency Coordination Groups, and other regional and local users.

Incident Status Summary (ICS-209)

The Incident Status Summary (ICS-209 or simply "the 209") is the primary method for the situational reporting of significant wildfires and other significant incidents on lands under federal protection or ownership. States and other federal cooperators may also report incidents using the SIT-209 application in the Wildland Fire Application Portal. The ICS-209 form details specific incident information daily (reporting requirements may vary depending on the type and nature of the incident) and is submitted via the SIT-209 application. The ICS-209 is a primary source for incident information beyond the local unit and provides valuable information at the geographic and national levels.

The federal agency that has primary protection responsibility for an incident is responsible for completing the ICS-209. If the protecting agency is non-federal and chooses not to meet federal reporting standards, then the federal agency which has administrative jurisdiction shall submit the ICS-209. GACCs should ensure that incidents and dispatch centers submit complete and accurate ICS-209 reports into the SIT-209 application by the specified time.

For national reporting purposes (agency, geographic area and local requirements may vary) an ICS-209 shall be submitted according to the following guidelines:

- Wildland fires will be reported based on assignment of Incident Management Team (IMT) and national resources; significant events having occurred or forecast to occur; acres burned (>100 in timber, >300 in grass/brush fuels); incident strategy (Full Suppression, Point/Zone Protection, Confine and Monitor); and time since detection (see Diagram 1 below).
- Wildland fires managed for complete perimeter control (full suppression) will submit an ICS-209 daily when that fire meets large fire criteria. The National Interagency Coordination Center

classifies large fires as 100 acres or larger in timber and slash fuel types, 300 acres or larger in grass or brush fuel types, or when a Type 1 or 2 IMT is assigned. For fires being managed under this strategy, an ICS-209 will be submitted daily until the incident is contained. Refer to the GACC Mobilization Guide, or agency policy for reporting requirements once containment is achieved.

• Wildland fires managed under a Monitor, Confine, or Point/Zone Protection management strategy will submit an ICS-209 following the guidelines outlined in the When to Report Wildland Fire Incidents with an ICS-209 flowchart below.

Specific instructions for completing the ICS-209 form and using the 209 Program are in the User's Guide. Issuance times depend on local and national needs and are determined prior to fire season.



Incident Situation Report

The Interagency Situation Report is part of the SIT-209 application in the Wildland Fire Application Portal. Dispatch centers are required to submit Situation Reports:

- Daily at National Preparedness Level 2 and above.
- Weekly from November through April when:
 - o there is wildfire activity (including prescribed fires),
 - \circ $\;$ there is an increase in wildland fire resource commitments, or
 - a unit's fire danger is very high or extreme.

Reporting is required for all prescribed fire activity year-round according to the schedule listed above. The reporting period for the Situation Report is 0001 to 2400. GACCs shall ensure that all their dispatch centers have submitted complete and accurate Situation Reports as outlined in each Geographic Area Mobilization Guide. The NICC Intelligence unit will retrieve Situation Reports from the SIT-209 application by 0200 Mountain Time.

The Sit Report application shares incident information with the SIT-209 application for certain summaries and reports. Specific reporting requirements and program instructions are in the Sit Report User's Guide.

7-Day Significant Fire Potential Outlook

The 7-day Significant Fire Potential Outlook provides a week-long projection of fuels dryness, weather, fire potential and firefighting resource information. Fire activity at each Geographic Area will determine the frequency of product issuance. During the active portion of the area's fire season (or year) at PL1 and PL2, and while transitioning in or out of that active time, the product will be issued daily, M-F. At PL3 and higher, the product will be issued 7 days a week. Once out of fire season or the active part of the fire year, the product may no longer be issued for that area, though updates on any indications of changing potential are desired. There may be situations when GACCs will issue this product outside of their normal active season, depending on anticipated weather and fuel conditions. Additionally, if the National PL is at 4 or 5, then all GACCs should produce their portion of the product 7 days a week. This outlook must be issued by 0830 MDT to be included in the briefing emailed by NICC PS staff to fire managers, and by 0930 MDT to be included in the NMAC briefing.

The outlooks will be produced by a qualified meteorologist, fire analyst, or another trained support staff member under Predictive Services' supervision. It will be generated using the National 7-day Significant Fire Potential Development page accessed at https://fsapps.nwcg.gov/psp/npsg/forecast/ With login access. This will facilitate producing the routinely issued product as well as unscheduled updates. Because it is a centralized, database-driven system, it will automatically populate the National 7-day Outlook. It will enable Predictive Services units to provide GACC-to-GACC backup for the product. Specific issuance times for each Geographic Area's outlook can be found in its Geographic Area Mobilization Guide or in its National Weather Service/Predictive Services Annual Operating Plan.

The 7-day Significant Fire Potential Outlooks are found at https://fsapps.nwcg.gov/psp/npsg/forecast/ with a product description at https://fsapps.nwcg.gov/psp/npsg/forecast/ With a product description at https://fsapps.nwcg.gov/psp/npsg/forecast/ Day Product Description.pdf

Significant Wildland Fire Potential Outlook

The Significant Wildland Fire Potential Outlook is prepared and distributed by the Geographic Area Predictive Services units on the first business day of each month throughout the year. While not required, units are encouraged to produce an outlook to supplement the National Significant Wildland Fire Outlook (see section 40.1.3). The Geographic Area report must align with the National outlook in providing an assessment of significant fire potential for the next four months and follow a similar format. Published Geographic Area outlooks must align with the National outlook. Areas highlighted must be identical in both products. Published outlooks must be posted to their respective websites on the first business day of the month, in conjunction with the National outlook. Geographic Area websites must link to the National outlook. Links for the Geographic Area outlooks can be found at each Geographic Area's

respective	website	or	at
media/monthly	seasonal	outlook.pdf	

If a Geographic Area chooses to publish a mid-month update, changes to the national product are not necessary, though the national office should be informed of any significant changes.

Fuels and Fire Behavior Advisories

Advisories are issued at different levels of the wildland fire organization depending on their geographic scope. Single, local administrative units may issue advisories for their immediate jurisdiction without input or approval of the NICC, although it is strongly recommended that all affected Predictive Services groups are consulted and coordination occurs. If multiple units within a Geographic Area issue concurrent advisories, especially if contiguous, the Geographic Area Predictive Services must engage and coordinate the effort with the NICC Predictive Services Unit.

Advisories can be found at <u>https://www.nifc.gov/nicc/predictive-services/fuels-fire-danger</u> and may be linked on the Geographic Areas websites.

Continuity of Operations Plan (COOP)

The GACCs and NICC will develop and maintain Predictive Services backup plans for transferring or assuming operational responsibility during failures, emergencies or staffing shortages. Backup plans will become part of NICC and GACC Continuity of Operations Plans (COOP).

Staffing

GACC PS managers and GACC managers should make sure appropriate staffing levels are maintained, including adding additional staffing during increased activity and preparedness levels. Internal staffing options within the coordination system should be utilized first. For meteorologists, the option to bring in NWS IMETs may be pursued if the GACC is at PL 3 or higher or if multiple incident management teams are active within the GACC per the AOP.

Anticipated staffing vacancies should be remedied ahead of time in coordination with the GACC PS unit, coordinating group, center manager, NICC PS, and PSOG. If internal PS staffing support is unavailable or unsustainable for the duration of the vacancy, the aforementioned entities and personnel should contact external partners (i.e., NWS, state agencies) for potential detail opportunities. It is unacceptable to go without PS products and services due to staffing vacancies.

Coordination

Effective coordination is an integral part of Predictive Services. It facilitates the exchange of details concerning data gathering, analysis, and decision-making. It ensures that a consistent message is presented to partners and customers. And it facilitates moving the program forward through research and development that germinates through the exchange of ideas.

Predictive Services' partners and customers fall into two categories: internal and external. Effective communication with both is essential for conveying pertinent information and for coordinating actions to reduce or eliminate ineffective and inefficient efforts.

Internal Coordination

Internal coordination is between Predictive Services and any of its partners or customers within the wildland fire organization. This includes communication within Predictive Services itself. It fosters the sharing of ideas, provides a mechanism for evaluating program effectiveness and value, and facilitates coordination to ensure consistency with programmatic and organizational missions.

While internal communication is often ongoing and situational, routinely scheduled communication ensures consistent exchange of information. Within Predictive Services, scheduled communication is often by way of teleconference calls or virtual meetings.

Monthly Intelligence Calls

Intelligence Coordinators and Officers will conduct a monthly call. Calls may follow a set schedule or may be announced. All intel personnel are encouraged to participate.

Daily Intelligence Reporting

The NICC Intelligence staff requires daily reporting from the GACCs when at National PL 3 and above. The purpose of this report is to get a quick synopsis of the current fire activity, initial attack, significant weather events, expected resource commitment, and any other items of significance. This information is compiled via Microsoft Forms and presented to the National Multi Agency Coordination Group in the afternoon briefing.

Monthly Meteorological Calls

Meteorologists will conduct a monthly call to focus on administrative and programmatic issues, as well as webinars and other training sessions sponsored by individual GACCs or the national program. All Meteorologists and wildland fire analysts are encouraged to participate.

Monthly Significant Wildland Fire Potential Outlook Coordination

Predictive Services meteorologists and wildland fire analysts will conduct a monthly call to coordinate the issuance of the monthly significant fire outlook. These calls will include a discussion of anticipated climate conditions for the Outlook period and provide an opportunity for exchange of information on each GACC's anticipated outlook products. At least one meteorologist from each GACC is required to participate unless otherwise coordinated with NICC PS. Fire analysts are encouraged to join the call and external partners can be invited. GACC PS collaboration with regional and state subject matter experts is encouraged.

Daily Meteorologists Coordination Call

Predictive Services meteorologists will conduct a daily coordination call as fire conditions necessitate, to discuss issues affecting weather, fuels, and fire potential. Call frequency and Geographic Area participation will be based on national and Geographic Area Preparedness Levels, as described in the table below. GACC fire analysts are also encouraged to join the call as well.

The call will be kept to 20 minutes or less. Each call will consist of roll call, then a brief synopsis by the NICC Predictive Services Unit regarding what they see as key issues for the next outlook cycle. This will be followed by a round robin for each GACC, identifying significant weather impacts and any suspected changes to the outlook in the one-to-three-day period, then the trend for days four through seven. Geographic Area input could be as simple "no changes" if there is nothing to add. Coordination between GACCs is not intended for this call, though the line will be available after the call to do so as needed. The

on-shift Storm Prediction Center fire weather forecaster and a representative from the National Weather Service Western Region Operations Center are also welcome on this call.

National	Call	GACC Preparedness Level										
Preparedness Level	Schedule	1	2	3	4	5						
1	As Needed	Optional	Optional	Required	Required	Required						
2	Mon	Optional	Optional	Required	Required	Required						
3	Mon Wed Fri	Optional	Required	Required	Required	Required						
4	Mon - Fri	Optional	Required	Required	Required	Required						
5	Daily	Optional	Required	Required	Required	Required						

Regional Coordination Calls

The Geographic Area Predictive Services units may coordinate with local partners and customers to exchange information regarding weather and climate, fuels status, fire activity and potential, and resource status. Purpose of calls, schedules, and teleconferencing details should be included in local Standard Operating Plans (SOPs) and Predictive Services-National Weather Service Annual Operating Plans (AOPs).

External Coordination

External coordination occurs between Predictive Services and any of its partners or customers outside the wildland fire organization. This may include government agencies and officials (federal, state, local) that are not directly involved in wildland fire but have an interest. Groups include emergency management officials, air and environmental quality agencies, Congressional members and staff, governors, state legislators, media outlets, and the general public.

External communication is often situational and provided on an as-needed basis. However, routine coordination may be scheduled for short periods, particularly during times of high fire activity. External coordination should be carefully managed to ensure that operational decision support is not adversely affected.

Conflict Resolution

Should a conflict arise between a Predictive Services unit and any other person or organization, including conflicts between Predictive Services units, all parties should first work toward an agreeable solution. If unable to agree, then the Predictive Services units should elevate the dispute to the Geographic Area Center Manager, the National Interagency Coordination Center Manager, and the National Predictive Services Program Lead or Leads. A conference call will be scheduled between all these personnel to discuss and resolve the issue. If agreement is not achievable by these parties, then the issue will be brought to PSOG, which will provide final resolution.

Decision Making Process

Predictive Services makes many decisions that affect all or parts of the overall program. Most decisions concerning direction, guidance, and standards will be made at the PSOG level or higher. Those that are not will be addressed by Predictive Services personnel using one of the following techniques.

Programmatic decisions are those that consider issues directly related to the function and work product of Predictive Services. They affect the program as a whole and not solely members of Predictive Services. These include but are not limited to national product standards (content and formats, issuance times, change management, etc.); training standards or requirements; national equipment and technology standards or requirements. Though some of these decisions are driven at a higher level and dictated down, other decisions are made by Predictive Services as a group. It is imperative that each Predictive Services unit discuss any impending decisions with their Geographic Area Center Manager and other Fire Management personnel.

Voting will be conducted as one vote per GACC in which 50 percent plus one vote of all GACCs is required to make an ultimate decision.

Personnel decisions are those that relate to the individual members of Predictive Services. These include but are not limited to representatives to committees, subcommittees, task groups, etc., and Chairs and Vice-chairs for the sub-functions of Predictive Services. Geographic Area Center Managers should be consulted prior to a personnel decision that affects the workload of their staff.

Voting will be conducted as one vote per member in which 50 percent plus one vote of all Predictive Services staff at both the National and GACC level is required to make an ultimate decision.

Training and Development

The following table outlines the training courses and skills for Predictive Services positions. Except where ICS qualifications are required, the skill and training elements in the Training and Development table <u>do</u> <u>not</u> constitute hiring criteria. Individual employee training plans should reflect those courses or skills needed.

(C)OURSE or (S)KILL	Intel	Intel	Met (Prog.	Met	Fire Analyst
	Coord.	Officer	Mgr)		
Agency Requirements	Х	Х	Х	Х	Х
I-100 OR I-200 (C)	Х	Х	Х	Х	Х
S-130 (C)	Х	Х	Х	Х	Х
S-190 (C)	Х	Х	Х	Х	Х
S-203 (C)	Х	Х	R		R
I-400 (C)	R	R	R		R
S-290 (C)	Х	Х	Х	Х	Х
S-390 (C)	R	R	Х	Х	Х
S-490 (C)	R		R	R	Х
S-491 (C)	Х	R	Х	Х	Х
S-495 (C)	R	R	R	R	Х
S-590 (C)			R		Х
D-110 (C)	Х	Х			
D-310 (C)	Х	Х			
M-410 (C)	Х	R	Х	Х	Х
ICS-209 (S)	Х	Х	R		R
SIT Report (S)	Х	Х			R
Rx-410 (C)			Х	R	R
INTS (C)	Х	Х			R

R Python, Power Bi, Tableau, or stats/visualization tools	R	R			R
(S)					
FEMS (S)	R	R	Х	Х	Х
FFPLUS (S)	Х	Х	Х	Х	Х
BEHAVE PLUS (S)	R	R	R	R	Х
ArcGIS (S)	R	R	R	R	Х
WIMS/KCFAST (S)	Х	Х	Х	Х	Х
FAMAUTH- WX (S)	Х	Х	Х	Х	Х
AWIPS II/CAVE (S)			Х	Х	R
BASIC STATISTICS (S)	R	R	Х	Х	Х
EXCEL & ACCESS (S)	Х	Х	Х	R	Х
BASIC UNIX/LINUX (S)			R	R	R
WFSA WORKSHOP (S)			R		R
COGNOS (Query St.) (S)	Х	Х			R
COGNOS (Reports) (S)	Х	Х			R
IROC Reports (S)	Х	Х			
FamAuth User Manager (S)	Х	Х	R	R	Х
WFDSS (S)	R	R	R	R	Х

X – Required R – Recommended

* (C) = Successful Course Completion

* (S) = Skill Acquired Through OJT or Formal Training

* Where a position requires ICS qualifications, course and skill requirements listed here may be in addition to those required by the ICS position.

Recommended Experience or Skills for Intel:

- 90 days Fire experience
- Intelligence Support Specialist (INTS) or trainee

Recommended Training, Experience or Skills for Mets:

- Recommended reading:
 - Mountain Meteorology: Fundamentals and Applications, Author: C. David Whiteman
 - Fire Weather NFES Publication 1174
 - NFDRS Weather Station Standards PMS 426-3
 - FAMAUTH and WIMS user guides

Recommended Experience for Wildland Fire Analysts:

- Fire Behavior Analyst (FBAN) or trainee
- Long Term Fire Analyst (LTAN) or trainee

Support Requirements

The Predictive Services Program recommends the following staffing to successfully meet program objectives. Actual program support varies between Geographic Areas and will be addressed through Coordinating Group decision making processes.

Staffing

National Interagency Coordination Center. Predictive Services staffing at NICC will typically consist of:

2 National Program Leads (Meteorologists)

- 1 Wildland Fire Analyst
- 1 Intelligence Coordinator
- 1 Intelligence Officer
- 1 Intelligence Officer (seasonal)

Geographic Area Coordination Centers. Predictive Services staffing at GACCs will typically consist of:

- 1 Geographic Area Program Manager (may be separate or filled by one of PS personnel)
- 2 Meteorologists
- 1 Wildland Fire Analyst
- 1 Intelligence Coordinator
- 1-2 Intelligence Officers (may be seasonal, dedicated, or detailed)

There may be local variations on staffing based on local needs and external factors. Alaska and Eastern Areas only have one meteorologist each. California GACCs typically have additional staffing due to heavier workload and longer fire seasons. Other areas may choose to have more or less staffing than recommended, including seasonal hires, based on varying workload and funding opportunities.

Appendix: Standardized Forms and Products

Incident Status Summary (ICS-209)

Available electronically: <u>https://www.nifc.gov/sites/default/files/document-media/NIMS_ICS-</u> 209 Form %282015%29.pdf

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7-day Significant Fire Potential Matrix and Discussion

eographic Area	Parameters: Prepare Print					Put	olished: Jun	21, 2015 6:3	4:25 AM MT	Legend
National ka	Predictive Service Area (PSA)	Sun 21 Jun	Mon 22 Jun	Tue 23 Jun	Wed 24 Jun	Thu 25 Jun	Fri 26 Jun	Sat 27 Jun	Sun 28 Jun	Significant Fir Potential
ornia North Ops	SC01 - Eastern Sierra									No Data
ornia South Ops	SC02 - Central Sierra									Little or no
ern Area t Basin	SC03 - Southern Sierra									Low risk
ern Rockies	SC04 - Sierra Foothills									Moderate ris
west	SC05 - Central Valley									High Risk Trigg
y Mountain	SC06 - Central Coast Interior									H H
nern Area	SC07 - Central Coast									υ υ
west	SC08 - South Coast									w w
	SC09 - Western Mountains									D D
	SC10 - Eastern Mountains									L L
44	SC11 - Southern Mountains									R R
C 🛗	SC12 - Lower Deserts									
Archive	SC13 - Eastern Deserts									
	SC14 - Central Mojave									
ip Side-by-Side	SC15 - Upper Deserts									

NATIONAL 7-DAY SIGNIFICANT FIRE POTENTIAL

Weather:

Geographic Area	
	I
National	I
Alaska	I
California North Op:	I
California South Op	I
Eastern Area	I
Great Basin	I
Northern Rockies	I
Northwest	P
Rocky Mountain	
Southern Area	
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Archive	
Map Side-by-Side	
Forecast Export	

Continued hot and very dry inland today

Strong high pressure currently centered near the Four Corners Area will move east bringing a slow cooling trend to the region through Tuesday. However, temperatures will still be above normal, away from the coastal areas, when temperatures reach their coolest. Maximum temperatures will be in the upper 70s and 80s across the mountains, with 90s to 102 in the valleys today. Westerly winds of 15 to 25 mph with gusts to 40 mph will surface across the Tehachapi Mountains, Antelope Valley, and Banning Pass through Tuesday evening. These winds will also occur across much of Mono County this afternoon. Temperatures will warm late this week as another high pressure forms over the Four Corners Area and then strengthens to the west and north. Minimum humidity will remain in the single digits and teens above the marine layer through Friday. The marine layer is currently around 1,000 feet deep and will reach near 2,000 feet deep by Tuesday. The marine layer will start to shrink by Thursday. Southeast flow aloft will bring isolated to scattered afternoon showers and thunderstorms to the mountains and deserts next weekend.

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Fuels/Fire Potential:

Very dry conditions along with above normal temperatures will cause the potential for large fire to remain elevated above the marine layer through the end of this week. Dead fuel moisture will remain in the single digits above the influence of the marine layer through the end of this week. The dead fuels will be able to be completely consumed and due to the long term drought dead fuel loading is well above average. Moderate to rapid rates of spread will be likely in windy areas and where fuels and topography are favorably aligned. Expect moderate initial attack to continue across the region through the forecast period.

7-day Significant Fire Potential National Map



Monthly Seasonal Significant Wildland Fire Potential Outlook



Fuels and Fire Behavior Advisory

