

CHAPTER 60 - PREDICTIVE SERVICES

PREDICTIVE SERVICES

Predictive Services provide decision support to the federal, state, and local wildland fire agencies for operational management and strategic planning fire firefighting resources. This is accomplished through the collection, analysis and dissemination of information regarding fire activity, resource status, weather, fuels, and assessments of fire danger and fire potential.

GBCC is responsible for the coordination and distribution of decision support products produced by the Predictive Services Unit.

The Predictive Services Handbook and the Predictive Services Operating Principles and Guidelines provide guidance and direction to NICC and GACC Predictive Services Units. The Predictive Services Handbook and Guidelines can be found at:

https://www.predictiveservices.nifc.gov/NPSG/npsg_pdf/PSHandbook_2009Update.pdf

- **INCIDENT STATUS SUMMARY (ICS-209)**

See National Interagency Mobilization Guide Chapter 60, for reporting requirements and format.

Any incident within the Great Basin that meets the reporting criteria will have an Incident Status Summary ICS-209 completed and submitted electronically via the Fire and Aviation Management Web (FAMWEB) ICS-209 application.

- Initial reporting criteria include but are not limited to; fire size of 100 timber/slash, 300 grass/brush, ordering or assigning of national resources or any significant events.
- In the event that the incident is contained in the first burning period, a completed Final report may be submitted into the ICS-209 application in lieu of an Initial report.

A final ICS-209 will be submitted once the incident is contained or controlled and national resources are no longer assigned to the incident. An ICS-209 may be changed from Final status to Update status in the event the incident escapes containment. A final ICS-209 will be subsequently submitted upon re-containment.

Reports are due by 1900 hours daily local time, although earlier submission times may be established during those periods when the GBMAC Group is active. Local centers will call GBCC by 1900 if a later submission time is necessary. The ICS-209 User's Guide is available on the Great Basin website for display/downloading.

https://www.predictiveservices.nifc.gov/intelligence/ICS-209_User_Guide_3.0_2017.pdf

Users should familiarize themselves with the definitions and instructions within the user's guide before attempting to enter information into the ICS-209 application.

It is the responsibility of the Type 1 and/or 2 IMT to complete and submit ICS-209s when they are in place on an incident. For all other incidents, the dispatch center will ensure complete and accurate ICS-209 information is gathered and electronically submitted.

For incidents managed under a strategy other than Full Suppression AND the incident is likely to remain active for a period greater than 72 hours.

See ICS-209 User's Guide page 13, for reporting requirements and format.

- **209 Reporting Criteria Definitions**

Full Suppression implies a strategy to "put the fire out," as efficiently and effectively as possible, while providing for firefighter and public safety. To complete a fireline around a fire to halt fire

spread, and cool down all hot spots that are immediate threat to control line or outside the perimeter, until the lines can reasonably be expected to hold under foreseeable conditions. Synonymous with “Full Perimeter Containment” and “Control.”

Monitor is the systematic process of observing, collecting and recording of fire-related data, particularly with regards to fuels, topography, weather, fire behavior, fire effects, smoke, and fire location. This may be done on-site, from a nearby or distant vantage point in person or using a sensor, or through remote sensing (aircraft or satellite).

Confine is to restrict a wildfire to a defined area, using a combination of natural and constructed barriers that will stop the spread of the fire under the prevailing and forecasted weather conditions until out. This means, “some action is or has been taken” (line construction, bucket drops, etc.) to suppress portions of the fire perimeter.

Point or Zone Protection involves protecting specific points from the fire while not actively trying to line the entire fire edge. Points being protected may be communities, individual homes, communication sites, areas of high resource value, etc.

- **Criteria For Updating ICS-209s**

- **Full Suppression**

Updated daily until contained or controlled and national resources are no longer being ordered for or assigned to the incident. If any significant changes occur overnight, a verbal update will be made to the GBCC by 0700 hours Mountain Time.

- **Monitor/Confine and Point or Zone Protection**

Update will be reported weekly, by close of business on Thursdays. Alternatively, updates will be completed when a significant change event occurs, on the day of the activity.

- **Significant Change Event**

A forecasted, planned, or experienced event that affects incident management or operations. This includes but may not be limited to the following items:

- A critical fire weather event is forecast, such as a high Haines index, dry cold front, etc; AND fire activity created by the event is expected to threaten, potentially threaten, or cause damage to values at risk;
- Sufficient increase in acres or activity (such as smoke production) to create public health or nuisance concerns;
- The incident strategy is modified;
- National resources are assigned or released;
- An accident, injury or fatality occurs;
- Loss of structures;
- The incident is contained or out.

- **Incident Prioritization**

GBCC Intelligence section will use the Incident Prioritization Worksheet supported by information contained within current ICS-209s to determine and establish incident priorities. When the GBMAC is activated, the GBMAC Coordinator will utilize the Incident Prioritization Worksheet contained within the GBMAC Operating Plan to establish incident priorities.

- **INTERAGENCY SITUATION REPORT (SIT)** See National Interagency Mobilization Guide.

Dispatch centers will report all fire activity, including prescribed fires via the FAMWEB application known as the Interagency Situation Report located at <https://fam.nwcg.gov/fam-web/>. Information from the SIT application is retrieved by GBCC, and subsequently by NICC, to generate summary situation reports.

1 The Interagency Situation Report User's Guide is available on the GBCC website.
2 https://www.predictiveservices.nifc.gov/intelligence/Situation_Report_User_Guide_2017.pdf
3

4 Users should familiarize themselves with the definitions and instructions captured within the user's
5 guide before attempting to enter information into the SIT application.
6

7 ○ **Situation Report Schedule, Statistics And Priorities**
8

9 ■ **May 15 through October 15:**

10 For all Great Basin dispatch centers, the Situation Report will be completed **daily** by close of
11 business or 1900 hours local time every day the center is staffed. The dispatch center will call
12 the Great Basin Intelligence Desk if a later submission time is necessary.
13

14 ■ **October 15 through May 15:**

15 The SIT Report will be submitted **weekly**, close of business on Thursday, at a minimum.
16 Centers may choose to report fire information daily, during this time frame. Should national or
17 geographic area's Preparedness Level be elevated to 2 or higher, the SIT Report will be
18 submitted daily.
19

20 ■ **Daily Fire Statistics**

21 Dispatch centers will report both wildfire and prescribed fire activity that occurred during the
22 past 24 hours on their units in this field. The reporting period is 0001 to 2400 local time. If
23 significant changes in fires/acres transpire after the report has been submitted, the updated
24 information will be relayed to the Coordination Center by 0700 hours local time. Corrections of
25 fires and/or acres, will be made on the Year-to-Date Statistics screen at the earliest possible
26 reporting period.
27

28 ■ **Local Incident Priorities**

29 Dispatch centers will use this screen to assign their internal incident priorities. If there is a
30 significant change in priorities once GBCC has closed for the day, a phone call will be placed
31 to the GBCC on-call phone to facilitate relaying the information to NICC. This will enable NICC
32 to effect the appropriate changes in the Incident Management Situation Report (IMSR) for the
33 following day.
34

35 ● **INCIDENT MANAGEMENT SITUATION REPORT** See the National Interagency Mobilization Guide
36

37 ● **NATIONAL WILDLAND SIGNIFICANT FIRE POTENTIAL OUTLOOK**
38 See National Interagency Mobilization Guide
39

40 ● **FUEL AND FIRE BEHAVIOR ADVISORIES** See National Interagency Mobilization Guide
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42 The GBCC Predictive Services staff, along with the GACC Center Manager, will be involved with the
43 issuance of any fuels/fire behavior advisories within the Great Basin. A GACC Meteorologist will
44 coordinate with the GBCG and/or agencies in order to carefully consider both the content and intended
45 audience of the messages.
46

47 Within the local area when a single agency, unit or county issues an advisory, it is recommended they
48 utilize the standard template for Fuel and Fire Behavior Advisories. The local dispatch center will
49 coordinate with the GACC Predictive Services Unit.
50

51 ● **SEASONAL FIRE WEATHER / FIRE DANGER OUTLOOK**
52

53 ○ **Fire Potential Impact Map**

54 Graphical guidance regarding short term fire weather impacts for the GACC. Includes potential for
55 lightning, critical winds, and wetting rains. This product will be issued daily during fire season.

- 1 ○ **7-day Significant Fire Potential Outlook**
- 2 A color-coded week-long forecast of fire potential, based on projected fuels dryness and weather
- 3 conditions. Firefighting resources information is also included. This product will be issued daily
- 4 during fire season.
- 5
- 6 ○ **Monthly and Seasonal Outlook**
- 7 A long term outlook that combines recent and future climatic conditions, and expected fuel
- 8 conditions, to produce a fire potential outlook for the upcoming four month period. This product is
- 9 issued monthly throughout the year, and available both in electronic copy and video format in the
- 10 Outlooks section of the Predictive Services webpage.

11
12 GBCC Outlook: <https://gacc.nifc.gov/gbcc/predictive/docs/monthly.pdf>

13
14 National Outlook: <https://gacc.nifc.gov/gbcc/outlooks.php>

15
16 **GREAT BASIN PREDICTIVE SERVICE PRODUCTS**

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18 • **GREAT BASIN EVENING SUMMARY REPORT**

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20 Evening Summary Report will be produced daily, and available on the GBCC website when more than

21 one IMT has been mobilized within the geographic area, PL 3 and above, or significant competition for

22 resources exists. The summary can be found on the GBCC Intelligence webpage.

23
24 • **GREAT BASIN NFDRS FUEL CHARTS**

25
26 Current Fuel Charts of ERC, 100-hr and 1000-hr fuel levels are generated for all Predictive Service

27 Areas, (PSAs) across the Great Basin, with comparisons to normal and record dry levels. These charts

28 are produced daily during fire season in Fire Family Plus and can be found in the Fuels/Fire Danger

29 section of the Predictive Services webpage.

30
31 • **GREAT BASIN CRITICAL FUEL STATUS**

32
33 An interactive map indicates whether fuels are currently critical or not for fire potential, and is updated

34 regularly through the fire season with input from local units. This map can be found in the Fuels/Fire

35 Danger section of the Predictive Services webpage.

36
37 • **GREAT BASIN RAWS POINT ERC MAP**

38
39 A color coded map which indicates daily ERC values, percentiles and trends for specific RAWs stations,

40 and can be found in the Fuels/Fire Danger section of the Predictive Services webpage.

41
42 • **GREAT BASIN FIRE POTENTIAL VIDEO BRIEFING**

43
44 A video briefing, issued daily by 0900 MT, looking at a combination of current fuel and fire conditions,

45 along with expected weather conditions, to determine significant fire potential across the Great Basin

46 for the coming week. This video briefing is located in the Outlooks link of the Predictive Services

47 header on the GBCC website. <https://gacc.nifc.gov/gbcc/outlooks.php>