

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.

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 Wildland Fire Application Portal (FAMAuth) 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 for display/downloading.
https://gacc.nifc.gov/predictive_services/intelligence/niop/programs/sit_209/Help/index.htm

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."

Monitoring is the orderly collection, analysis, and interpretation of environmental data to evaluate management's progress toward meeting objectives, and to identify changes in natural systems

1 particularly with regards to fuels, topography, weather, fire behavior, fire effects, smoke, and fire
 2 location. This may be done onsite, from a nearby or distant vantage point in person, for example,
 3 the work done by Fire Effects Monitor (FEMO) or Field Observer (FOBS) positions or by using a
 4 sensor, or through remote sensing (aircraft or satellite).

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 6 **Confine** A wildfire response strategy of restricting a wildfire to a defined area, primarily using
 7 natural barriers that are expected to restrict the spread of the wildfire under the prevailing and
 8 forecasted weather conditions. Some response action may be required to augment or connect
 9 natural barriers (e.g. line construction, burn-out, bucket drops, etc.).

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 11 **Point or Zone Protection** A wildfire response strategy which protects specific assets or highly
 12 valued resources from the wildfire without directly halting the continued spread of the wildfire.

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

15 **Full Suppression**

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

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

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

23
 24 **Significant Change Event**

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

- 27
- 28 ▪ A critical fire weather event is forecast, such as a high Haines index, dry cold front, etc; AND
- 29 fire activity created by the event is expected to threaten, potentially threaten, or cause damage
- 30 to values at risk;
- 31 ▪ Sufficient increase in acres or activity (such as smoke production) to create public health or
- 32 nuisance concerns;
- 33 ▪ The incident strategy is modified;
- 34 ▪ National resources are assigned or released;
- 35 ▪ An accident, injury or fatality occurs;
- 36 ▪ Loss of structures;
- 37 ▪ The incident is contained or out.

38
 39 ○ **Incident Prioritization**

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

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 45 ● **INTERAGENCY SITUATION REPORT (SIT)** See National Interagency Mobilization Guide

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 47 Dispatch centers will report all fire activity, including prescribed fires via the FAMAAuth application known
 48 as the Interagency Situation Report located at <https://iwfirp.nwccg.gov/>. Information from the SIT
 49 application is retrieved by GBCC, and subsequently by NICC, to generate summary situation reports.

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 51 The Interagency Situation Report User’s Guide is available on the GBCC website.
 52 https://gacc.nifc.gov/predictive_services/intelligence/niop/programs/sit_209/Help/index.htm

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 54 Users should familiarize themselves with the definitions and instructions captured within the user’s
 55 guide before attempting to enter information into the SIT application.

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- **Situation Report Schedule, Statistics and Priorities**
 - **May 15 through October 15:**
For all Great Basin dispatch centers, the Situation Report will be completed **daily** by close of business or 1900 hours local time every day the center is staffed. The dispatch center will call the Great Basin Intelligence Desk if a later submission time is necessary.
 - **October 15 through May 15:**
The SIT Report will be submitted **weekly**, close of business on Thursday, at a minimum. Centers may choose to report fire information daily, during this time frame. Should national or geographic area’s Preparedness Level be elevated to 2 or higher, the SIT Report will be submitted daily.
 - **Daily Fire Statistics**
Dispatch centers will report both wildfire and prescribed fire activity that occurred during the past 24 hours on their units in this field. The reporting period is 0001 to 2400 local time. If significant changes in fires/acres transpire after the report has been submitted, the updated information will be relayed to the Coordination Center by 0700 hours local time. Corrections of fires and/or acres, will be made on the Year-to-Date Statistics screen at the earliest possible reporting period.
 - **Local Incident Priorities**
Dispatch centers will use this screen to assign their internal incident priorities. If there is a significant change in priorities once GBCC has closed for the day, a phone call will be placed to the GBCC on-call phone to facilitate relaying the information to NICC. This will enable NICC to effect the appropriate changes in the Incident Management Situation Report (IMSR) for the following day.

- **INCIDENT MANAGEMENT SITUATION REPORT** See the [National Interagency Mobilization Guide](#)
- **NATIONAL WILDLAND SIGNIFICANT FIRE POTENTIAL OUTLOOK**
See [National Interagency Mobilization Guide](#)
- **FUEL AND FIRE BEHAVIOR ADVISORIES** See [National Interagency Mobilization Guide](#)

The GBCC Predictive Services staff, along with the GACC Center Manager, will be involved with the issuance of any fuels/fire behavior advisories within the Great Basin. A GACC Meteorologist will coordinate with the GBCG and/or agencies in order to carefully consider both the content and intended audience of the messages.

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

- **SEASONAL FIRE WEATHER / FIRE DANGER OUTLOOK**
 - **Fire Potential Impact Map**
Graphical guidance regarding short term fire weather impacts for the GACC. Includes potential for lightning, critical winds, and wetting rains. This product will be issued daily during fire season.
 - **7-day Significant Fire Potential Outlook**
A color-coded week-long forecast of fire potential, based on projected fuels dryness and weather conditions. Firefighting resources information is also included. This product will be issued daily during fire season.
 - **Monthly and Seasonal Outlook**
A long-term outlook that combines recent and future climatic conditions, and expected fuel

1 conditions, to produce a fire potential outlook for the upcoming four month period. This product is
 2 issued monthly throughout the year, and available both in electronic copy and video format in the
 3 Outlooks section of the Predictive Services webpage.

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 5 GBCC Outlook: <https://gacc.nifc.gov/gbcc/predictive/docs/monthly.pdf>
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7 National Outlook: <https://gacc.nifc.gov/gbcc/outlooks.php>
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9 **GREAT BASIN PREDICTIVE SERVICE PRODUCTS**

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 11 • **GREAT BASIN EVENING SUMMARY REPORT**

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 13 Evening Summary Report will be produced daily, and available on the GBCC website when more than
 14 one IMT has been mobilized within the geographic area, PL 3 and above, or significant competition for
 15 resources exists. The summary can be found on the GBCC Intelligence webpage.
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17 • **GREAT BASIN NFDRS FUEL CHARTS**

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 19 Current Fuel Charts of ERC, 100-hr and 1000-hr fuel levels are generated for all Predictive Service
 20 Areas, (PSAs) across the Great Basin, with comparisons to normal and record dry levels. These charts
 21 are produced daily during fire season in Fire Family Plus and can be found in the Fuels/Fire Danger
 22 section of the Predictive Services webpage.
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24 • **GREAT BASIN CRITICAL FUEL STATUS**

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 26 An interactive map indicates whether fuels are currently critical or not for fire potential, and is updated
 27 regularly through the fire season with input from local units. This map can be found in the Fuels/Fire
 28 Danger section of the Predictive Services webpage.
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30 • **GREAT BASIN RAWS POINT ERC MAP**

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 32 A color-coded map which indicates daily ERC values, percentiles and trends for specific RAWs
 33 stations, and can be found in the Fuels/Fire Danger section of the Predictive Services webpage.
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35 • **GREAT BASIN FIRE POTENTIAL VIDEO BRIEFING**

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 37 A video briefing, issued daily by 0900 MT, looking at a combination of current fuel and fire conditions,
 38 along with expected weather conditions, to determine significant fire potential across the Great Basin
 39 for the coming week. This video briefing is located in the Outlooks link of the Predictive Services
 40 header on the GBCC website. <https://gacc.nifc.gov/gbcc/outlooks.php>