



WildFireSA Advanced User Guide

August 14, 2025





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Preface

The *WildFireSA Advanced User Guide* provides instructions for using WildFireSA, a web-based application designed to support situational awareness and decision-making for wildland fire incidents. The guide includes step-by-step procedures, feature overviews, and guidelines to ensure consistent and effective application of the software's capabilities.

Audience

This manual is intended for wildland fire agencies and other stakeholders involved in wildfire risk assessment, planning, and response. Users are expected to have a basic understanding of wildland fire reporting tools and decision-making frameworks to effectively utilize WildFireSA.

Accessibility

The *WildFireSA Advanced User Guide* is developed in alignment with government accessibility standards, including Section 508 of the Rehabilitation Act and the Web Content Accessibility Guidelines (WCAG) 2.1.

Additional Resources

For FAQs, videos, and training on WildFireSA, see: <https://portal.wildfire.gov/egp/help>



Introduction

WildFireSA is an integrated tactical and operational decision support tool used for wildland fires. WildFireSA combines a traditional "common operational picture" with collaborative mapping, geospatial and imagery analysis, and analytical reporting.

Prerequisites

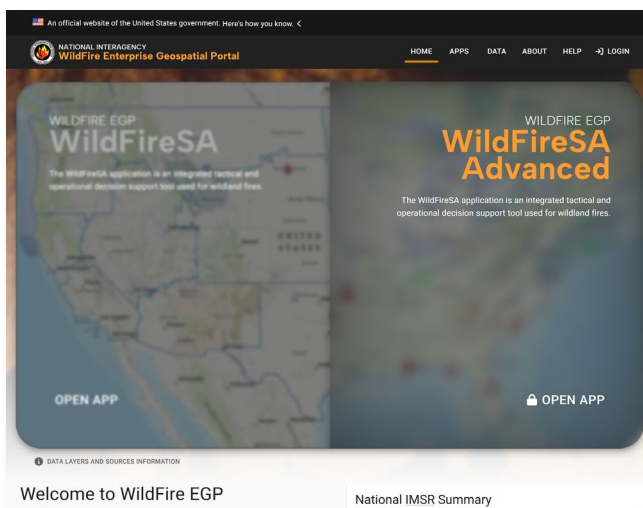
The following prerequisites are necessary to use WildFireSA:

1. **WildFire Enterprise Geospatial Portal (EGP) account.** Access to WildFireSA Advanced requires an active EGP account. If you do not have an EGP account, you can request one by following the steps outlined in the *EGP-FAMAuth User Guide*:
<https://portal.wildfire.gov/egp/documents/help/egp-famauth-account-user-guide.pdf>
2. **Web browser.** WildFireSA supports most modern browsers. Ensure your browser is up to date for optimal performance.
3. **Internet connection.** An internet connection is needed to access WildFireSA as well as update real-time data.

Accessing WildFireSA Advanced

To access WildFireSA Advanced:

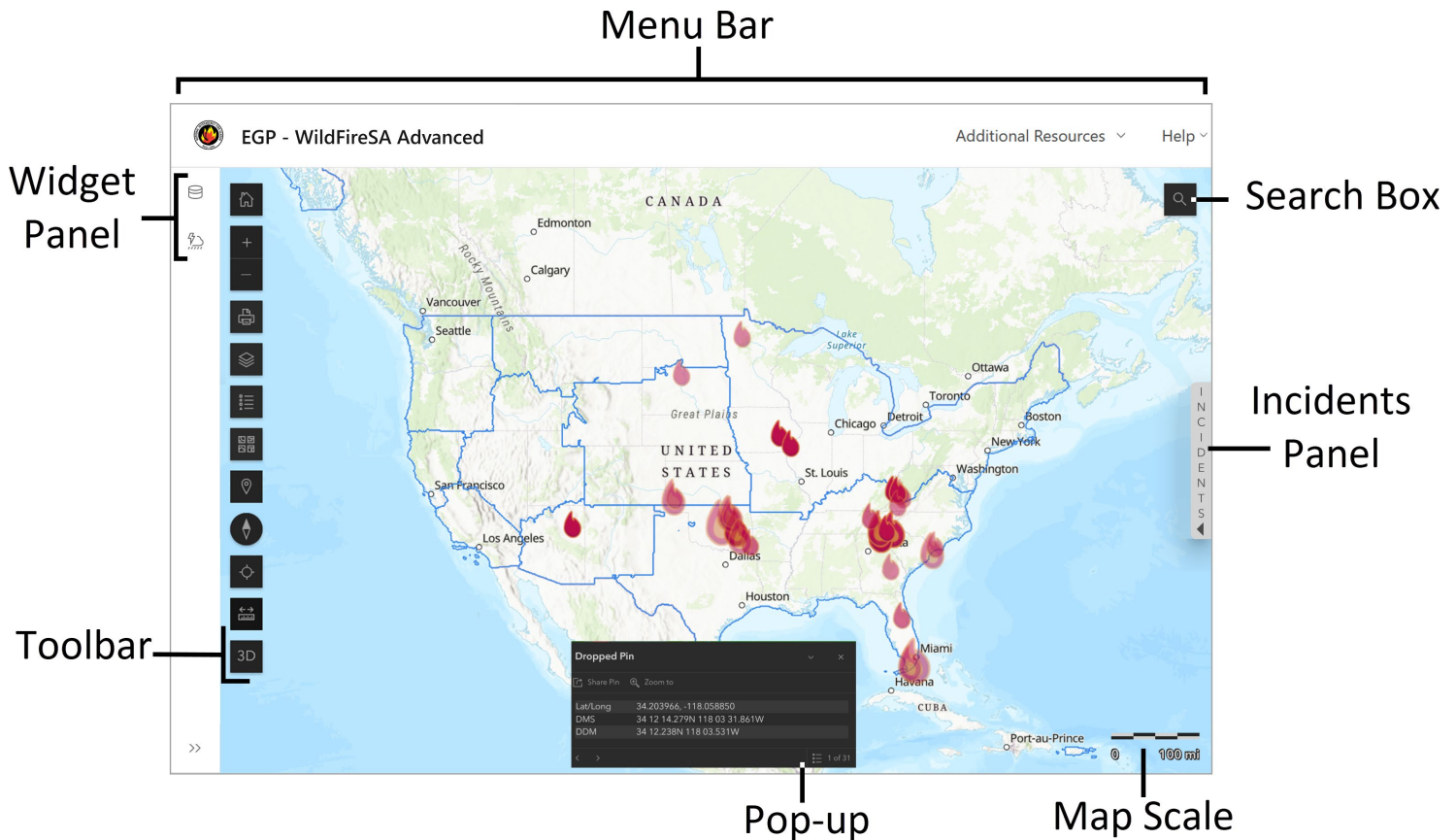
1. Go to the EGP home page: <https://portal.wildfire.gov/egp/>
2. Select **WildFireSA Advanced**.





WildFireSA Advanced User Interface

The WildFireSA Advanced user interface consists of seven main sections to help navigate the map and analyze incidents.



User Interface sections:

- [Toolbar](#)
- [Menu Bar](#)
- [Search Box](#)
- [Incidents Panel](#)
- [Widget Panel](#)
- [Pop-up](#)
- [Map Scale](#)



Toolbar

The Toolbar provides easy access to the most commonly used map features, such as adding layers and resetting the map view.

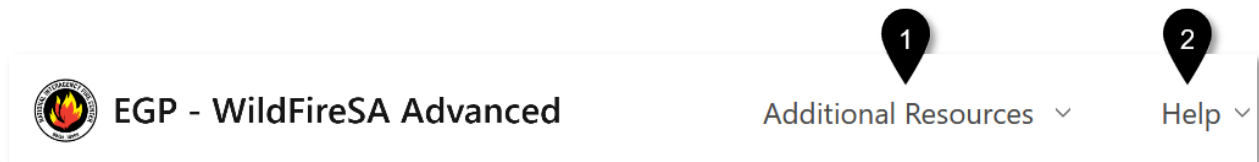
The Toolbar consists of the following buttons:

-  **Default map view**—resets the map view
-  **Zoom in**—zooms in to the center of the map
-  **Zoom out**—zooms out from the center of the map
-  **Print**—exports PDFs
-  **Layers**—displays the Layers menu
-  **Legend**—displays the Legend
-  **Select Basemap**—changes the basemap
-  **Toggle Pin Drop Mode**—drops a shareable pin onto the map
-  **Reset map orientation**—resets view North
-  **Find my location**—goes to your current location
-  **Measure Tool**—measures a distance or area
-  **3D/2D Switch**—switches the map between 3D and 2D



Menu Bar

The Menu Bar provides complementary resources to WildFireSA.



1. Additional Resources:

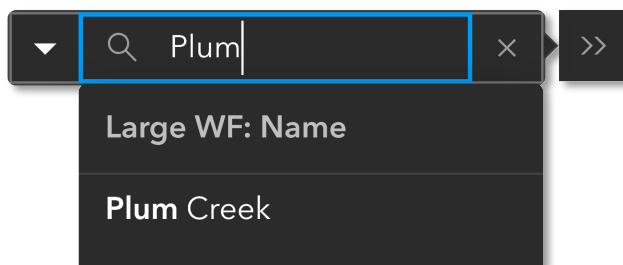
- Six Minutes for Safety — opens the National Wildfire Coordinating Group’s (NWCG) Six Minute for Safety program webpage.
- SitReport — opens the Incident Management Situation Report.
- Weather — contains National weather and Fire weather links.
- Predictive Services — opens NIFC’s predictive services webpage.
- WildWeb Resource Tracking — opens the WildCAD-E WildWeb Dispatch Center list.
- GACC Homepage — opens the GACC National Website Portal.

2. Help:

- EGP Help Page — opens the EGP Help page in a new tab. The help page contains FAQs, training videos, and user guides.
- Release Notes — opens the WildFireSA release notes page.

Search Box

The map’s Search Box is used to search for active fires or geographic locations. You can filter the search results by source using the **Search in** dropdown .



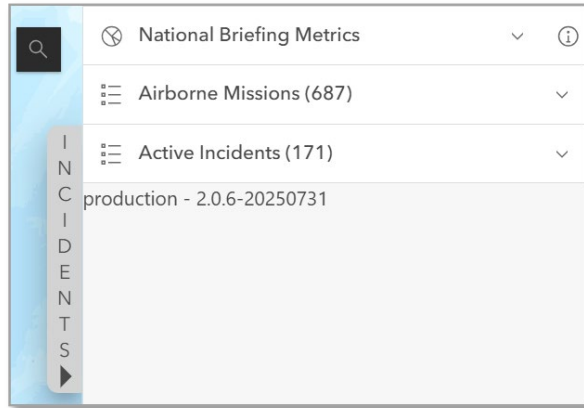
To search for a fire:

1. Enter the name of the fire.
Note: Do not include the word “Fire” after the name of the fire.
2. Select the fire from the search results dropdown.



Incidents Panel

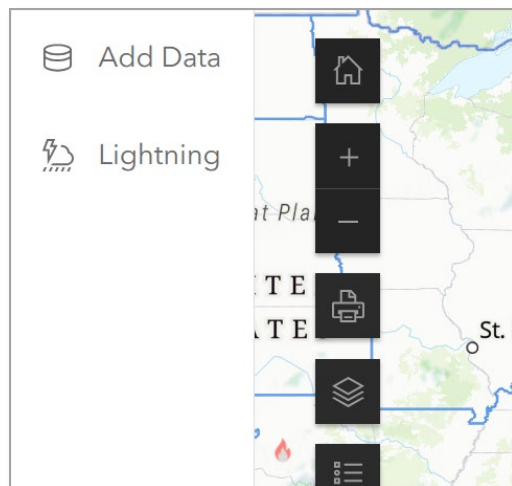
The Incidents Panel opens to show the National Briefing Metrics, Airborne Missions, and Active Incidents sections.



- **National Briefing Metrics** — displays active incident data at a national or regional level.
- **Airborne Missions** — contains Airborne Intelligence including images, videos, and perimeter data.
- **Active Incidents** — contains detailed information for individual active incidents.

Widget Panel

The Widget Panel holds the **Add Data** and **Lightning Strikes** widgets.

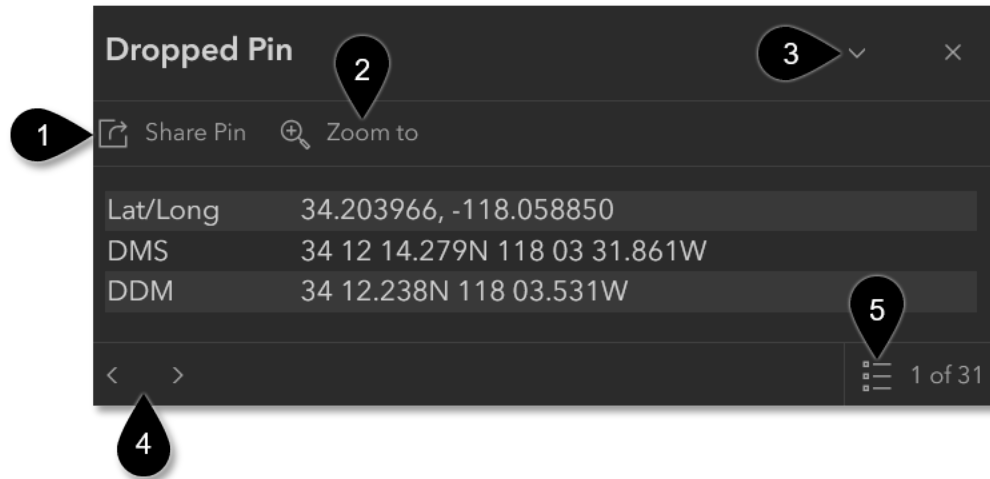


- **Add Data** – add layers into the **Layers** menu.
- **Lightning** – displays cloud-to-ground lightning strikes by the map extent.



Pop-up

A Pop-up appears when a pin is dropped or a feature is selected. The Pop-up shows additional information for the selected feature or pin.



1. **Share Pin** — copies your current URL to the clipboard.
2. **Zoom to** — zooms to the Dropped Pin or the selected feature on the map.
3. **Collapse** — collapses the pop-up.
4. **Previous/Next** — cycles between nearby features. Cycling to a feature populates the pop-up with its details.
5. **Select Feature** — shows a list of nearby features, sorted by source. Selecting a feature from the list populates the pop-up with its details.

Map Scale

The scale of a map is the ratio of a distance on the map to the corresponding distance on the ground. The scale dynamically changes depending on your current zoom level.





Navigation

You can navigate the map using the toolbar, mouse, keyboard, and touch gestures. To use keyboard inputs, the map must first be selected.

Navigation	Method
Pan	To pan the map: • Click and drag the map • Tap and drag the map with one finger • Use the arrow keys
Zoom	To zoom in: • Use the Zoom in button  • Double-click the map • Double-tap the map • Scroll the mouse wheel upward • Select the plus sign (+) on your keyboard • Shift+click and drag to draw a square over the area you want to zoom in on • Pinch outwards To zoom out: • Use the Zoom out button  • Scroll the mouse wheel downward • Select the minus sign (-) on your keyboard • Ctrl+Shift+click and drag to draw a square over the area you want to zoom out of • Pinch inwards



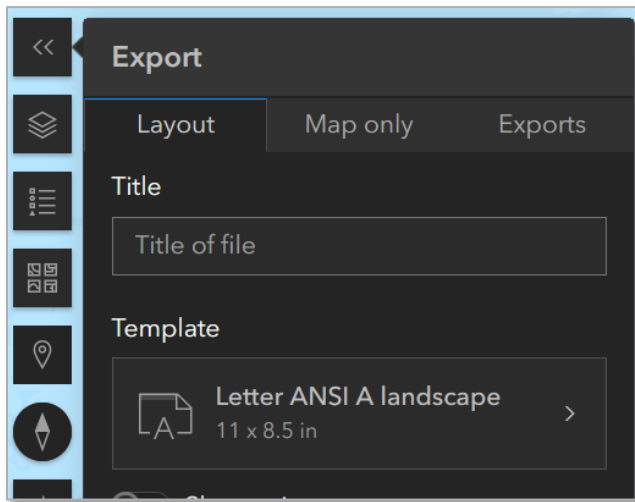
Rotate	To rotate the map: • Right-click on the map and drag • Place two fingers on the map and rotate • Select the A or D key on your keyboard Note: Click Reset map orientation  to return the map view to North.
 Default Map View	The Default Map View button  resets the map's pan, zoom, and rotation back to the default map view.

For additional 3D navigation controls, see "[3D Navigation](#)"



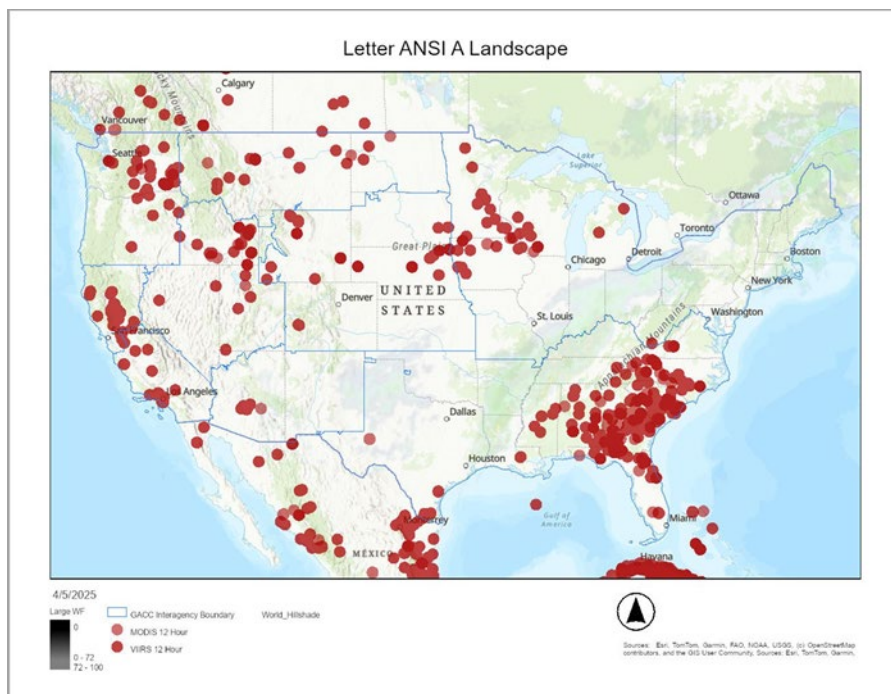
Print

The Print menu allows you to export PDFs. The Print menu consists of 3 tabs: Layout, Map Only, and Exports.



Layout

The **Layout** tab is used to customize map layout options such as including a legend or map title.





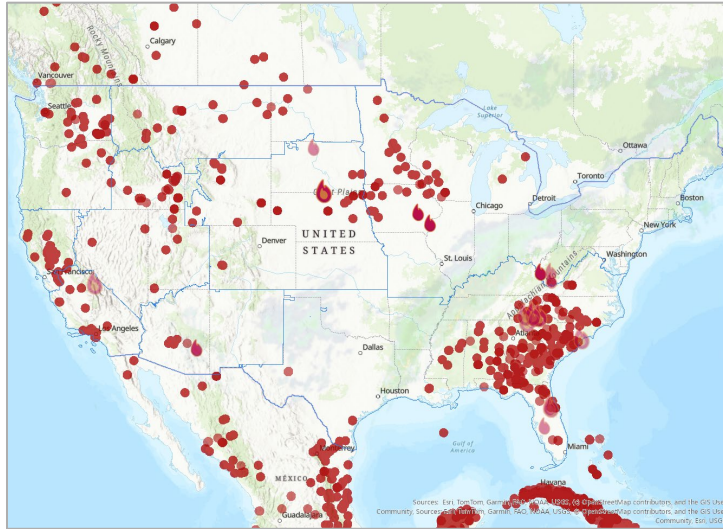
The following table describes the **Layout** tab's configuration options:

Field	Description
Title	Specifies the title that appears above the map on the printout. When this field is blank, the title will display the name of the layout template.
Template	Determines the page size.
Show print area	Shows the area that will be exported.
File format	Determines the file format that the map will be exported in.
Set scale	Sets the print area based on the map scale. The Reset button  sets the print area to your current map view. Set scale impacts the behavior of the Template and DPI fields.
Author	Displays the author in the lower right of the printout.
Copyright	Displays the copyright in the lower right of the printout.
DPI	Sets the DPI (dots per inch) of the printout. A higher number will create a better-quality image with a larger file size.
Output spatial reference	Sets the WKID (Well-Known ID).
Include legend	Adds a legend in the bottom of the printout with all layers that are viewable in the print area.
Include north arrow	Adds an arrow pointing north in the bottom of the printout.
Include scale bar	Adds a map scale bar in the bottom of the printout.
Export	Exports the map. The file can be downloaded from the Exports tab.



Map only

The **Map only** tab exports a map without a surrounding layout.



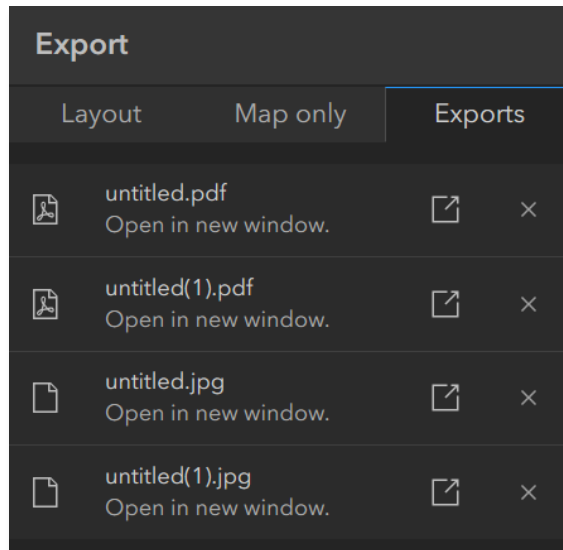
The following table describes the **Map only** tab's configuration options:

Field	Description
File name	Sets the name of the file in the Exports tab.
File format	Determines the file format that the map will be exported in.
WidthxHeight	Sets the print area based on the current map view.
Show print area	Shows the area that will be exported.
Set scale	Sets the print area based on the map scale. The Reset button  sets the print area to your current map view. Set scale impacts the behavior of the Template and DPI fields.
DPI	Sets the DPI (dots per inch) of the printout. A higher number will create a better-quality image with a larger file size.
Output spatial reference	Sets the WKID (Well-Known ID).
Include attribution	Displays attribution text at the bottom of the printout. The attribution text will automatically update based on the current map view.



Exports

The **Exports** tab is where exported maps are listed. The file links expire after a period of time and are lost upon browser refresh.



The following table describes the **Exports** tab's icons:

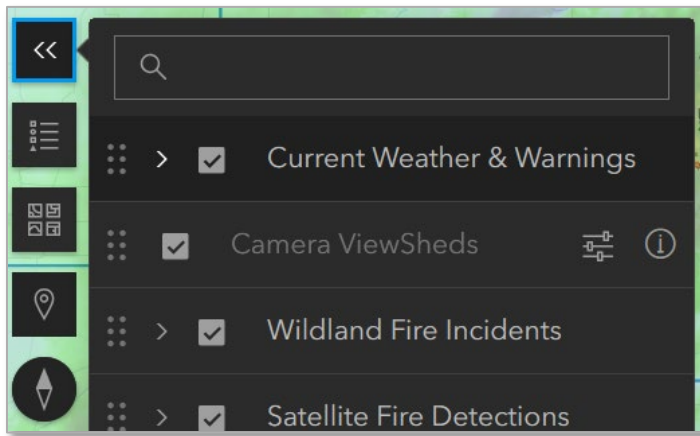
Icon	Description
	Opens the file in a new window.
	Removes the file from the list of exports.



Layers

Layers are a visual representation of incident data. Layers place symbols onto the map to provide critical incident information at a glance. Some layer symbols provide in-depth incident details in a Pop-up when selected. Different layers are visible at different zoom levels. Layers that are enabled at your existing zoom level are highlighted in the **Layers** menu, while layers that are disabled at your current zoom level are greyed out.

Layers Menu



To view the Layers menu, select the **Layers** button  from the toolbar. The Layers menu opens to show layer groups. Expand each layer group to select the layers that you want to display on the basemap. Clear the checkboxes for the layers that you do not want to display. The software will remember your layer configuration when you enable or disable layer groups.

Note: All layer configurations will be lost upon browser refresh.

The Layers menu offers the following functionality:

- A blue dot beside a layer indicates that the layer data is updating.
- To adjust a layer's opacity, select the layer's **Opacity** button  and adjust the slider.
- To search for layers and layer groups, use the search box located at the top of the Layers menu.

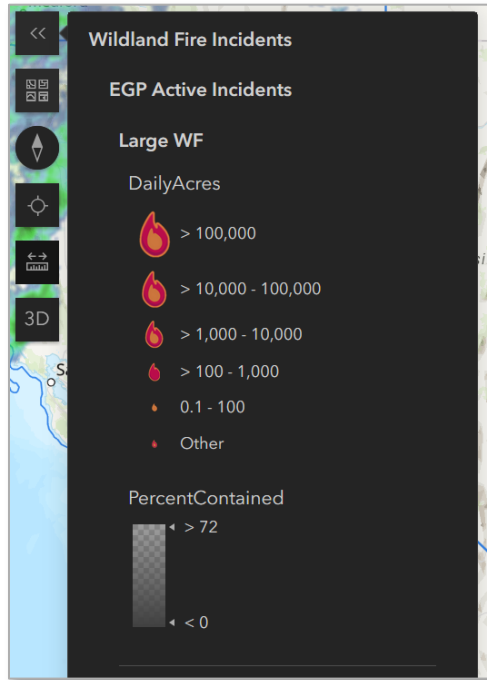
Note: Do not include a space after the search term.

- To view the layer's source, select the **Layer information** button .
- To rearrange layers, click and drag the **Reposition** button .



Legend

The legend provides information about layer symbols.

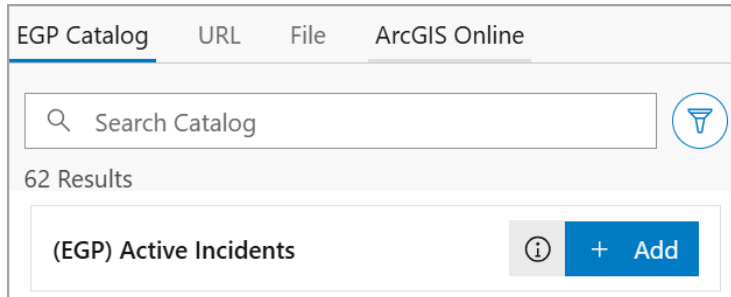


To view the Legend, select the **Legend** button . The legend dynamically changes depending on which layer symbols are visible in your current map view. The layer group and layer name are shown above the layer symbols.



Add Data Widget

The Add Data Widget allows you to add layers into the **Layers** menu from EGP's data catalog, URLs, zipped shapefiles, or an ArcGIS Online account. To open the Add Data Widget, select **Add Data** from the left of the screen.



EGP Catalog

To add a layer from EGP's data catalog, select the **+ Add** button next to a layer name. You can filter down the catalog by selecting tags or searching layer names. To view the layer's source, select the **Layer information** button .

URL

To add a layer from a URL, enter the **Layer URL**. Optionally, enter a **Layer Title**.

Note: Supported layer types: Map Service, Feature Service, WMS, KML/KMZ. Private non-MFA ArcGIS layers are supported, but WMS/KMZ/KML layers must be public.

File

To add a new layer from a shapefile, select a .zip file using the **Browse** button and select **Add**.

Note: Limited to a maximum of 4,000 records. The maximum upload size is 2MB for a shapefile.

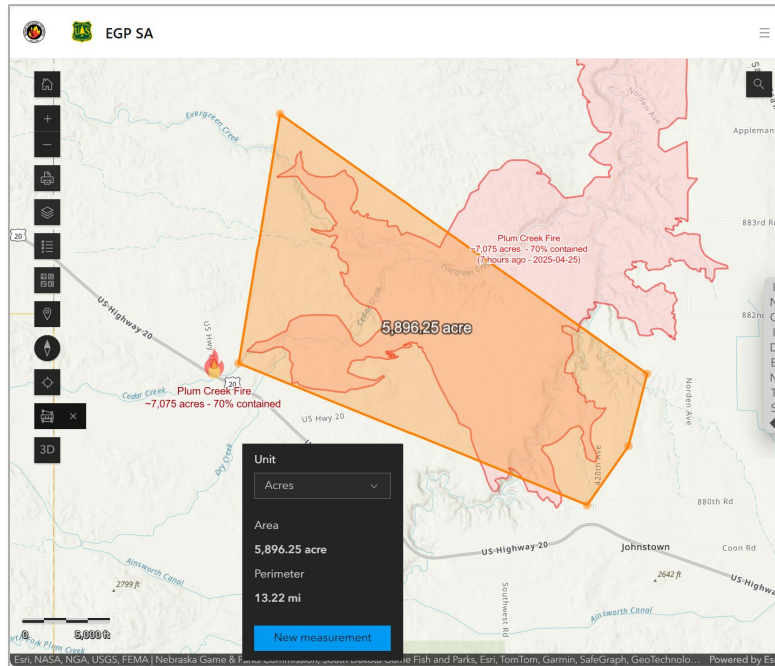
AGOL

To add a layer from ArcGIS Online, sign into your ArcGIS Online account using your **Username** and **Password**. **Note:** ArcGIS Online currently supports non-MFA accounts only. You will be unable to add internal NIFC ArcGIS Online content.



Measure Tool

The Measure Tool allows you to measure distance, area, and perimeter on the map with multiple units of length.



To use the Measure Tool:

1. Select the **Measure Tool** button .
2. Select **Distance**  **Distance** or **Area** .
3. Click on the map where you want to start the measurement. To add additional measurement points, click on the map again.
4. Double-click to complete the measurement.
5. Click and drag the measurement points to adjust the measurement.

Optionally, do any of the following:

- From the **Unit** dropdown list, select a different unit of measure. The measurement results are converted to the newly selected unit.
- Select **New measurement** to clear the current measurement and start a new one.
- While measuring, select the **Esc** key on your keyboard to clear the current measurement.
- To close the **Measure Tool**, select the **X**  beside the **Measure Tool** button .



3D/2D Switch

The 3D/2D Switch provides powerful visualization and analysis capabilities for geographic data, allowing users to seamlessly transition between 2D and 3D map views. To toggle between the 2D and 3D view, select the **3D/2D Switch** **3D**. When you switch to the 3D view, the **Pan/Rotate Toggle** is added to the top of the toolbar.





3D Navigation

The standard map controls, as described in “[Navigation](#),” are consistent with the 3D map view. Below is a list of controls unique to the 3D view.

Navigation	Method
Zoom	To zoom the map: • Select the J or U key on your keyboard • Hold the wheel button and drag up or down
Tilt	To tilt the map: • Select the W or S key on your keyboard • Hold right-click and drag up or down • Drag two fingers up or down on the map To reset to the default tilt level, select the P key on your keyboard
Camera Focal Length (FOV)	To change the camera focal length (Field of View): • Hold Shift and scroll up or down • Hold Shift+wheel button and drag up or down
 Pan/Rotate Toggle	Toggle between pan  and rotate  mode to swap the left and right mouse button functionality for pan and rotate. Note: • The 3D view starts in pan  mode by default. • The Pan/Rotate toggle does not affect touch controls.



National Briefing Metrics Section

The National Briefing Metrics section displays active incident data from a national view and can be adjusted to view individual GACC regions. The section also allows you to view the Incident Management Situation Report (IMSR).

National Briefing Metrics				
Select a Region				
Preparedness Level	Active Large Fires	Type 1/2 Fires	Initial Attack	
1	14	0	197	
New Large Incidents	Large Fires Contained	Uncontained Large Fires	NIMOs Committed	Complex IMTs
4	5	20	0	0
Crews	Engines	Dozers	Helicopters	Fixed Wing
9	6	0	20	9

The National Briefing Metrics section displays the following metrics:

- Preparedness Level
- Initial Attack
- New Large Incidents
- Large Fires Contained
- Uncontained Large Fires
- CIMTS committed
- NIMOs Committed
- Type 1 Crews
- Type 2 Crews
- Engines
- Dozers
- Helicopters
- Fixed Wing

To filter the data by a specific GACC region:

1. Open the **GACC Regions** dropdown.
2. Select a GACC region from the list. The map zooms into the selected region, and the data is adjusted to reflect that specific region.
3. To return to the national view, select **Back to National**.

To view the Incident Management Situation Report:

- Select the **NICC Sitrep** button .



Airborne Missions Section

The Airborne Missions Section displays all Airborne missions, including missions that are not tied to incidents. Selecting a mission shows the mission's airborne intelligence, including videos

images , features , and missions .

Airborne Missions (2)

6KQ

X

All Missions

☐

Only-Incident Missions

OR-OCF-CRAZYCREEK-N216KQ

0

13

0

1

Initially captured: 04/24/2025, 01:02 PM

WA-BENN-DELTA-N216KQ

0

5

1

1

Initially captured: 03/25/2025, 07:48 PM

To search for a mission:

1. Type the mission name into the search box.
2. If the mission is tied to an incident, select the **Only-Incident Missions** toggle to filter the results.
3. Select the mission.

For more information on viewing airborne intelligence, see ["Airborne Intel."](#)



Active Incidents Section

The Active Incidents section shows a list of all active incidents within the current map view. Selecting an active incident from the list shows the incident details and Airborne Intel.

Active Incidents (11)

Search Incidents

Sort By

Size

Filter by Discovery Date

MM/DD/YYYY

MM/DD/YYYY

Past 30 Days

Past 90 Days

Year to Date

Clear

CANYON - ImsrOther - Large WF 8/7/2025 (3 Days)

2 10 5 3

5,370 Acres

78% Contained

Personnel	Cost	Structures Threatened
960	\$5,169,607	4,758

The Active Incidents Overview displays the following metrics:

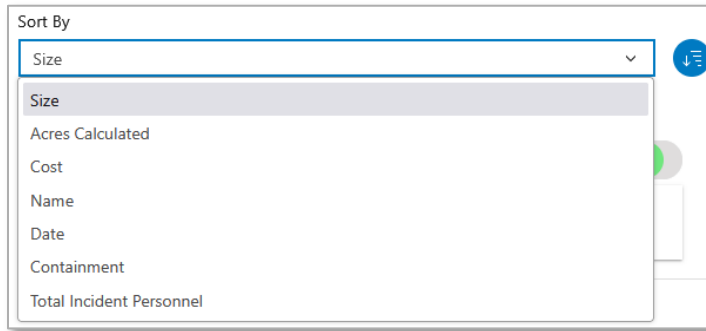
- Number of Airborne Intel videos , images , features , and missions 
- Acres Burned
- Percent Contained
- Personnel
- Cost
- Structures Threatened



Sorting Incidents

To sort the active incidents:

1. Select the sorting criteria from the **Sort By** list.



2. To display the incidents by descending or ascending order, select the **Sort By** button .

Filtering Incidents

To search for an incident by name, enter the full or partial name of an incident into the search box.

Note:

- Only active incidents that are within the current map view will be shown.
- Do not include a space after the incident name.

To search for an incident by discovery date, select the **Discovery Date** ellipsis and enter a timeframe into the calendar field. Alternatively, choose a preset timeframe from the blue **Discovery Date** buttons. To clear the calendar fields, select the **Clear** button.



Incident Details

Selecting an incident from the Active Incidents list zooms to the incident on the map and populates the incident details in the Incidents Panel. Closing the incident details returns you to your previous map view.

< FD090027
Franklin County, MA Share

Last Updated: INFORM_Inspector, 04/18/2025 19:27:25

FD090027 - EGP Active Incidents Public view - Emerging
Less 24 Hours 4/18/2025 (0 Days)

50 Acres No Value Contained

Personnel	Cost	Structures Threatened
No Value	No Value	0

The incident details include:

- Overview
- Airborne Intel
- Committed resources (SitRep)
- Incident Information
- Assessment Information
- Sit-209 Committed Resources
- IROC Committed Resources
- Detailed Information

Sharing Incident URLs

WildFireSA allows sharing incident URLs to easily zoom to and view details of specific incidents. The Share button copies your current URL, which contains zoom and location data, to accurately share incidents.

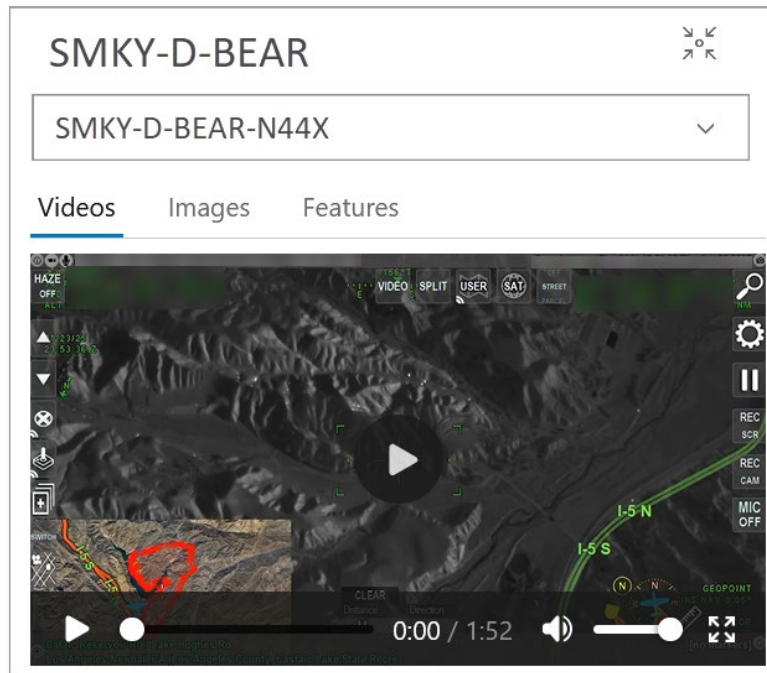
To share an incident URL:

1. Select an incident from the Active Incidents list.
2. Select the **Share** button from the upper right corner of the Incidents Panel. The incident URL is copied to the clipboard.
3. Paste the URL to share it.



Airborne Intel

The Airborne Intel section shows airborne intelligence grouped by incident. You can view the intel, download it, or zoom to it on the map.



To view Airborne Intel:

1. Open the **Incidents Panel**.
2. Select a mission from the **Airborne Missions** section.
3. If applicable, select the specific mission from the mission drop-down.



4. Select the **Videos**, **Images**, or **Features** tab.
5. Scroll through the list and click on the piece of intel you are interested in viewing.

To download multiple videos, images, or features:

1. Select the **Select** button .
2. Select the checkbox next to the data that you want to download.
Tip: To select all files within a tab, check **Select All**.
3. Scroll to the top of the list, and select the **Download Selected** button .



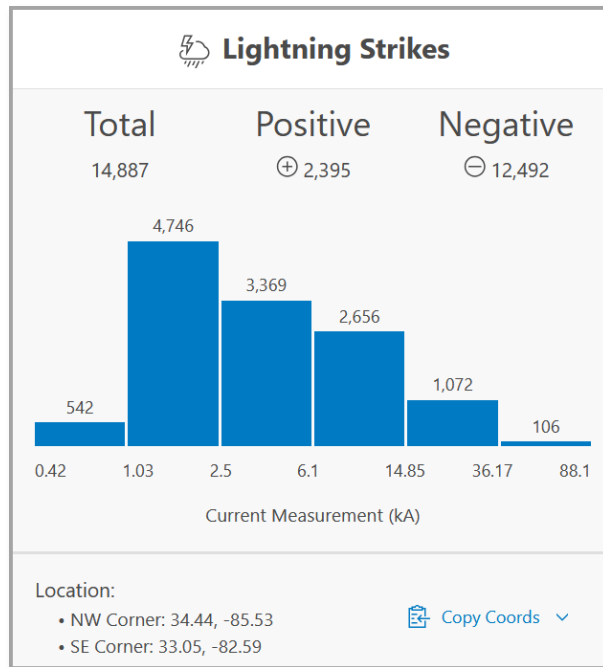
The following table describes the Airborne Intel icons:

Icon	Description
 Go to	The Go to button zooms to the incident on the map.
 Download	The Download button downloads the image, video, or feature.
 Star	The Star icon indicates the which image is being displayed.
 Details	The Details button shows the feature's details.



Lightning Widget

The Lightning Widget displays and exports strike counts for cloud-to-ground lightning strikes. The strike counts are shown in a histogram grouped by current strength (kA).



To export lightning data:

1. Zoom to the desired region. The exact coordinates of the data being exported are shown under **Location**.
Note: Lightning data will not display until the map is zoomed-in to a state level. To tally data for two or more states, select **Enable Strike Information**.
2. Select the time frame to be exported. The maximum timeframe is seven days.
3. Select **Download CSV Data**.



Version Control Table

Document Name:	WildFireSA User Guide
File Location/Path:	https://portal.wildfire.gov/egp/app/sa-advanced

Version Number	Effective Date	Author	Purpose/Change	Reviewed By
1.00	4/28/2025	Taylor Diaz	Publish	Taylor Diaz
1.01	5/06/2025	Taylor Diaz	SME Review	Michael Cibicki
1.02	5/20/2025	Taylor Diaz	Image updates	Taylor Diaz
1.03	8/14/2025	Taylor Diaz	Added Lightning Widget and Airborne Missions	Taylor Diaz