



How To Draw and Upload Shapes



Demonstrate the steps for:

- Uploading a Shape for an Incident
- Drawing a Shape for an Incident
- Uploading a Shape for Analyses
- Drawing a Shape for Analyses

First Login to WFDSS, Navigate to the Incident



Incident Name	Contact Name	Geographic Area	Jurisdictions	Acreage	Start Date
Cub Test	Amato, Sam	Southwest	USFS	0.0	02/23/2010
My Incident	Amato, Sam	Southwest	USFS	100.0	03/09/2010
Samstest	Amato, Sam	Southwest	USFS	0.0	03/29/2010
Test 2	Amato, Sam	Southwest	NPS	0.0	04/01/2010

First users need to login in to the WFDSS application. Once logged in, navigate to the INCIDENT tab (1). Select the incident that needs a shape by clicking the toggle button to the left of the incident name (2). Then, click the VIEW INFORMATION hyper text (3). This will bring you to the INCIDENT INFORMATION page.

Users can use TEMPORARY FILTERS or DEFINE A NEW FILTER for using the INCIDENT list.

TO CREATE AN INCIDENT, refer to the DISPATCHER training material or the material for HOW TO CREATE an INCIDENT.

Review of How To Create and Incident: To CREATE the incident from coordinates or by clicking on the map, use the INTELLIGENCE tab:

- (1) - Click the WFDSS Symbol on the tool bar, then click the map for fire coordinates
- (2) - Coordinates can also be adjusted by directly entering into the text box after the map has been clicked
- (3) - Add Incident Name
- (4) - Click Next

Upload a Shape from the INCIDENT / INFORMATION Tab



Wildland Fire Decision Support System National Preparedness Level: 1
Incident: My Incident

My Home Incidents Analyses Intelligence Data Management

Information Situation Objectives Courses of Action Validation Decisions Periodic Assessment Reports

Incident List

Fire Behavior Request
RAVAR Request
Stratified Cost Index
Relative Risk
FMU List
Management Points
Shape Upload
Image Upload
Incident Privileges
Incident Analyses
Incident History List
National ERC-G
Fire Related Links

Edit Incident Information

Incident Name: My Incident
Geographic Area: Southwest Owner Name: Amato, Sam
Transfer Ownership

*Point of Origin Latitude Deg Min Sec: 33 70246 or 33 42 0.9
*Point of Origin Longitude Deg Min Sec: 100 5592 or 100 33 33.1
Example: 39527 Example: 105308

Unique Fire Identifier: 2010 Fire Code: _____
Calendar Year: UNR# Local Number

Final Fire Perimeter / Incident Size
Final Fire Perimeter: Loaded Not Loaded
The final fire perimeter can only be loaded if the fire is controlled or out AND a perimeter exists in WFDSS.
If the final fire perimeter is loaded, the incident size is set to the size of the most recent perimeter.
Incident Size (acres): 100.0

*Discovery Date: 03/09/2010 Discovery Time: 09:37
Containment Date: _____ Containment Time: _____
Controlled Date: _____ Controlled Time: _____
Out Date: _____ Out Time: _____

Submit

Incident Cause
 Unknown Natural Human

Is this a fire of National Significance?
 Yes No

*Responsible Agency(s)
 Bureau of Indian Affairs / Tribal
 Bureau of Land Management
 Fish and Wildlife Service
 National Park Service
 United States Forest Service
 AFCSA Corporations
 Other

Landscape Data Source
 AK Tanana Zone
 AK Yukon-Charley
 Alaska - 2009
 CA Landscape 091409
 LANDFIRE National 092509
 LANDFIRE Rapid Refresh
 Western Northern Rockies

Spatial GIS shape files can be uploaded from the INCIDENT INFORMATION page. On the left menu, click SHAPE UPLOAD.

Uploading a Shapefile



Wildland Fire Decision Support System National Preparedness Level: 1 Incident: My Incident

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Upload Shape File
Select a zipped shape file and click the 'Upload' button to upload your shape.
To successfully upload a shape file, it can only contain polygons.
If you wish to include a point or a line, you should first buffer it to create a polygon.

*Shape Label: form update 2000 4-22-10 *Shape Type: Fire Perimeter

Fire Perimeter Input Parameters

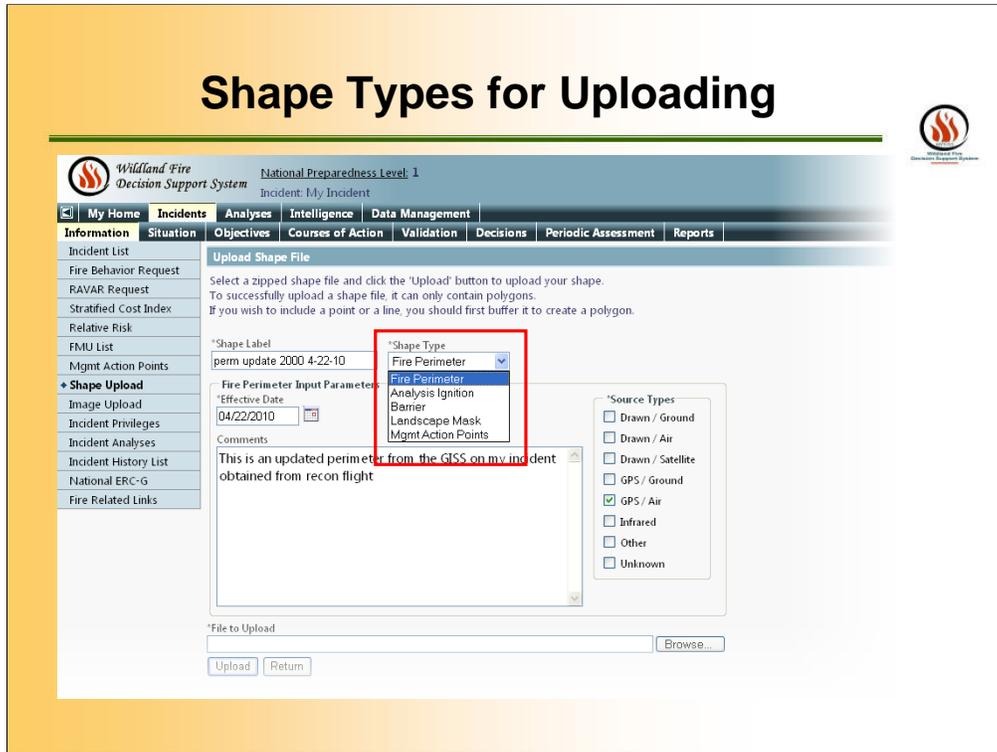
*Effective Date: 04/22/2010 Effective Time (hhmm): 20:00

Comments: This is an updated perimeter from the GIS on my incident obtained from recon flight

*Source Types:
 Drawn / Ground
 Drawn / Air
 Drawn / Satellite
 GPS / Ground
 GPS / Air
 Infrared
 Other
 Unknown

*File to Upload:

On the screen, users name the shape and choose the type of shape to upload. Users can also give the shape an effective date. This is beneficial when tracking the history of the types of shapes. Once the Shape Label, Shape Date and Shape Type are chosen, users can navigate to the shape location on a hard drive.



Currently, users can upload shape files for several Shape Types:

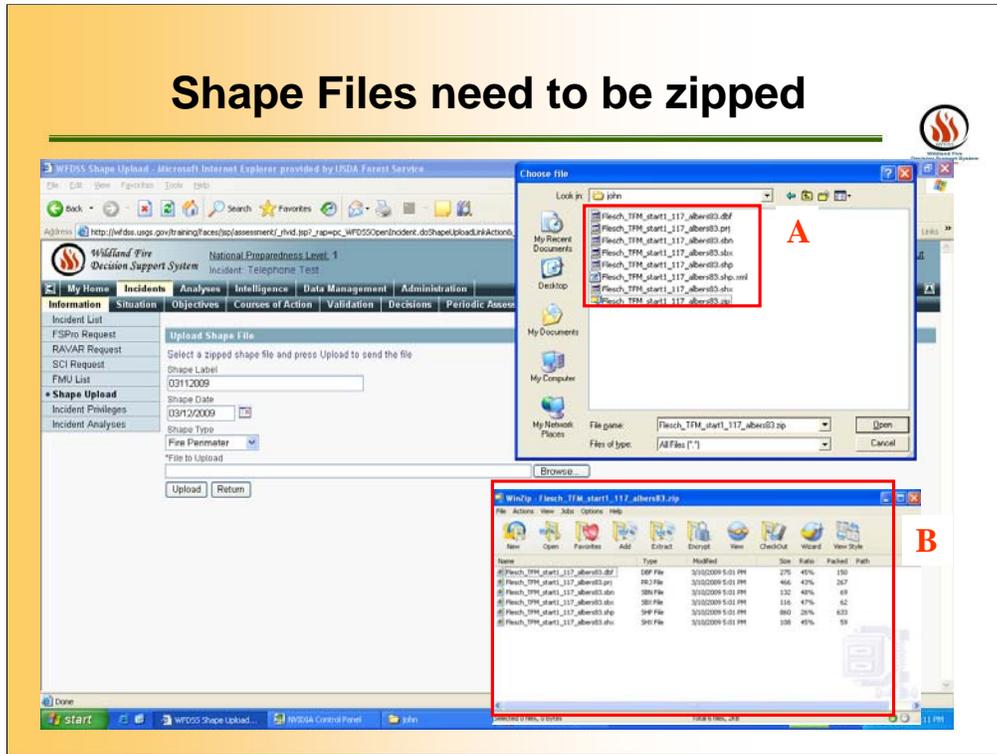
FIRE PERIMETER – Users can upload current fire perimeters. This is necessary for some fire modeling applications.

FIRE BARRIER – Barriers to fire spread are useful for decision making and fire modeling. Barriers can be rivers, prescribed burns, old fires, or fuel treatments.

LANDSCAPE MASK – The landscape masks are used to in fire modeling to change fuels characteristics based on fuels treatments, old fires or natural disasters.

FINAL FIRE – The final fire refers to the final fire perimeter. Often, the final fire perimeter is hard to locate when the fire is over. Uploading a final fire shape will help facilitate record-keeping and future landscape calibrations.

Shape Files need to be zipped



Users can click the **BROWSE** button to navigate to the location of their **ZIPPED** spatial shapefile pieces. Shapefiles are composed of several small files (A). Users need to make sure they have a projection file (*.prj) for their shapefiles. Also, within the zipped file, the shapefile “pieces” can not be embedded within another folder. See insert (B) above.

Upload the Shape File



Wildland Fire Decision Support System National Preparedness Level 1
Incident: My Incident

Information | **Situation** | **Objectives** | **Intelligence** | **Data Management** | **Objectives** | **Courses of Action** | **Validation** | **Decisions** | **Periodic Assessment** | **Reports**

Incident List
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RAVAR Request
Stratified Cost Index
Relative Risk
FMU List
Mgmt Action Points
♦ **Shape Upload**
Image Upload
Incident Privileges
Incident Analyses
Incident History List
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Fire Related Links

Upload Shape File

Select a zipped shape file and click the 'Upload' button to upload your shape.
To successfully upload a shape file, it can only contain polygons.
If you wish to include a point or a line, you should first buffer it to create a polygon.

*Shape Label: perm update 2000 4-22-10 *Shape Type: Fire Perimeter

Fire Perimeter Input Parameters

*Effective Date: 04/22/2010 Effective Time (hh:mm): 20:00

Comments: This is an updated perimeter from the GIS on my incident obtained from recon flight

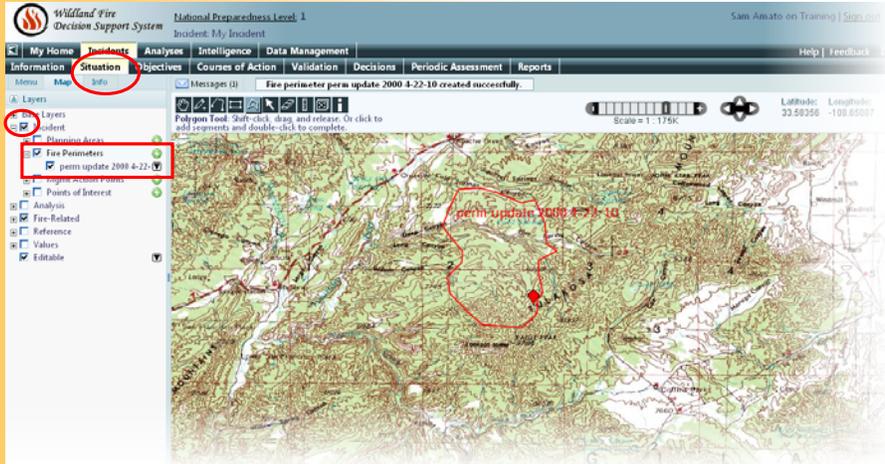
*Source Types:
 Drawn / Ground
 Drawn / Air
 Drawn / Satellite
 GPS / Ground
 GPS / Air
 Infrared
 Other
 Unknown

*File to Upload: C:\Documents and Settings\samato\Desktop\UploadingShapes.ZIP Browse...

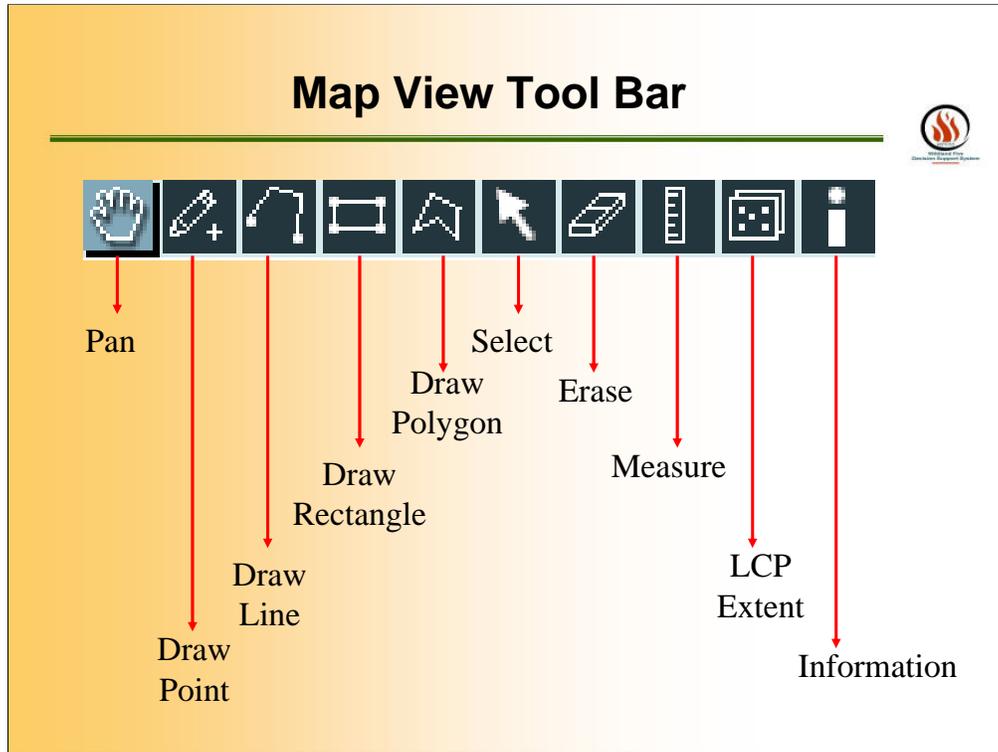
Upload **Return**

Once the zipped file has been chosen, click the **UPLOAD** button to start the process. The **RETURN** button returns you to the **INCIDENT INFORMATION** page.

View the Shape once uploaded



Next, click on the SITUATION tab within the incident. Choose the MAP tab to view the spatial data layers. Expand the INCIDENT section. This is the section that has the incident specific data layers that have been created during the incident (Planning Area, Fire Perimeters, Fire Barriers, Landscape Masks, Points of Interest). The uploaded shape should be available for viewing.



Overview of the Map Tool Bar:

Pan – Moves the map around the screen

Draw Point – Creates temporary shape points on the map. Can be used to create points of interest or point ignition.

Draw Line – Creates a line shape on the map.

Draw Rectangle – Creates a rectangle on the map by holding the left mouse button and dragging the mouse from left to right on a diagonal.

Draw Polygon – Creates a polygon by holding the SHIFT key on the keyboard and the LEFT mouse button and drawing a polygon shape with the cursor.

Select – Use this to select a shape on the screen.

Erase – Use this to erase a temporary shape that was created on the map screen.

Measure – Use this to measure distance on the map.

LCP Extent – Use this to create an LCP extent to run fire behavior models within. To draw a rectangular extent, hold the left mouse button and drag and draw a rectangle.

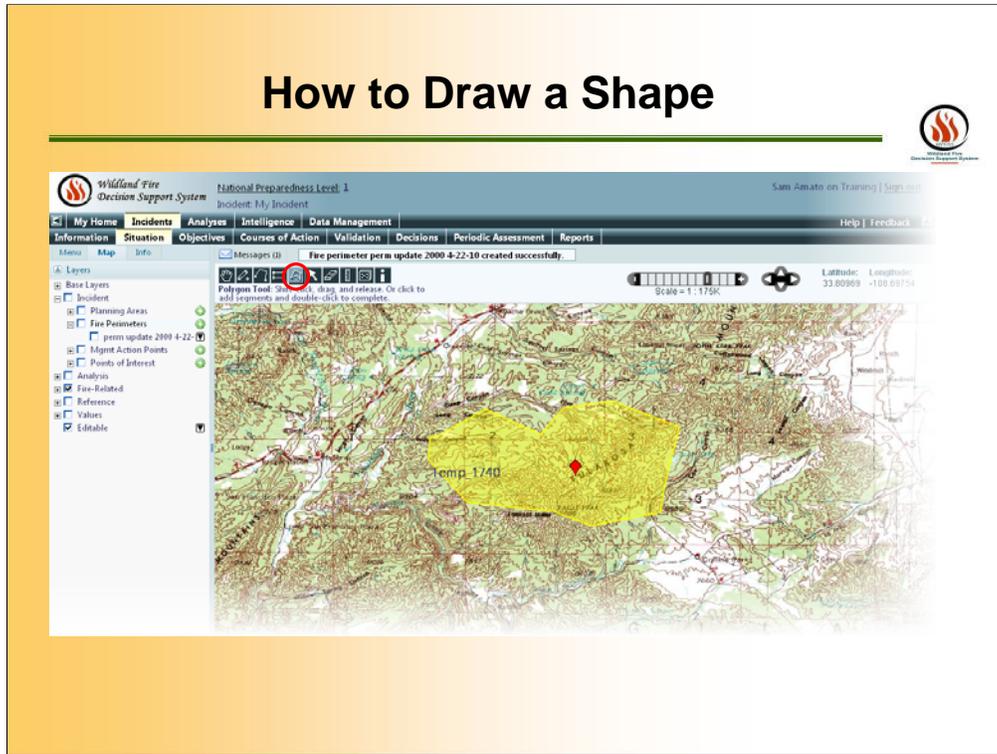
Information – This tool will create a temporary point that will query the underlying data layers. Use this button to query information from the map such as LANDFIRE DATA, Fire Weather Forecast, Values Inventory, Fire Danger or Strategic Directions.

Common Problems For Shape File Upload



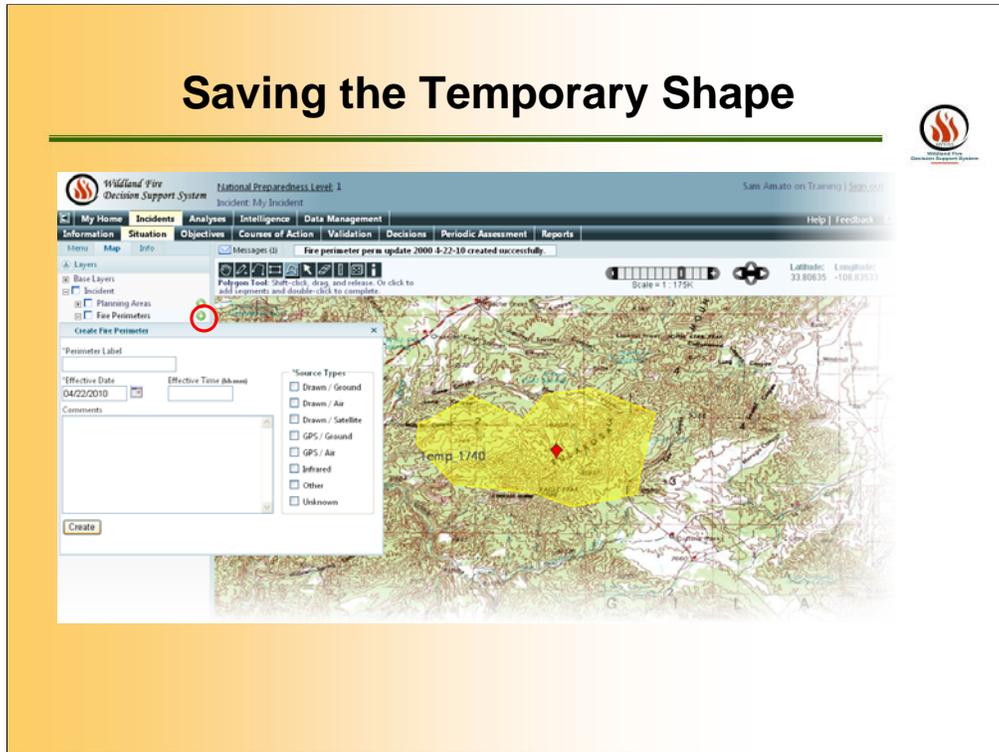
- Shape is within a folder in the compressed (zipped folder)
- The shapefile is not a polygon. WFDSS will not allow you to upload points and lines. If you have feature that is a line or point that you wish to upload, buffer the feature and save it as a polygon.
- Make sure your shape file is clean of all extra lines and points, etc. that may be still captured in the shape although the main feature is a polygon and is clean.
- Make sure your projection is valid and properly applied to the shape.

How to Draw a Shape



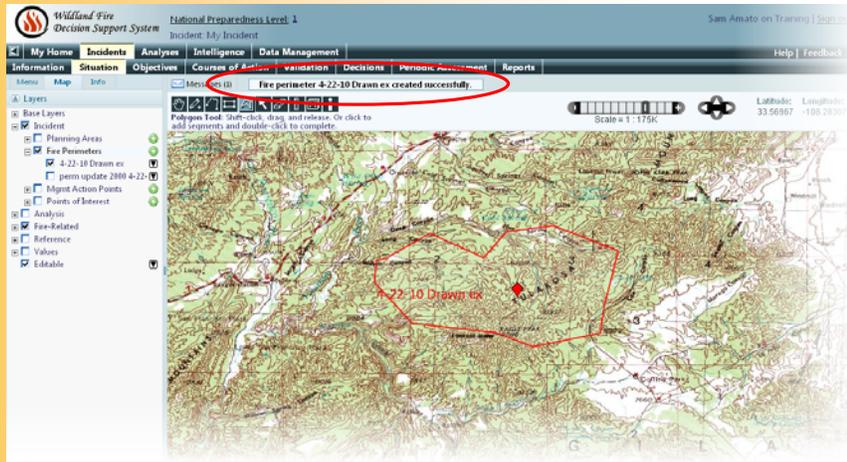
First, zoom to the area of the incident. Choose the polygon tool from the tool bar (See Red Circle). The next step is where a little practice in the WFDSS training system will help out. Hold the SHIFT key on the keyboard and the LEFT mouse button as you draw the shape on the map. As you hold both the SHIFT key and the LEFT mouse button, trace on the map the location of fire perimeters, planning areas, fire barriers, landscape masks, or points of interest. The use of different base layers help facilitate the drawing.

Saving the Temporary Shape



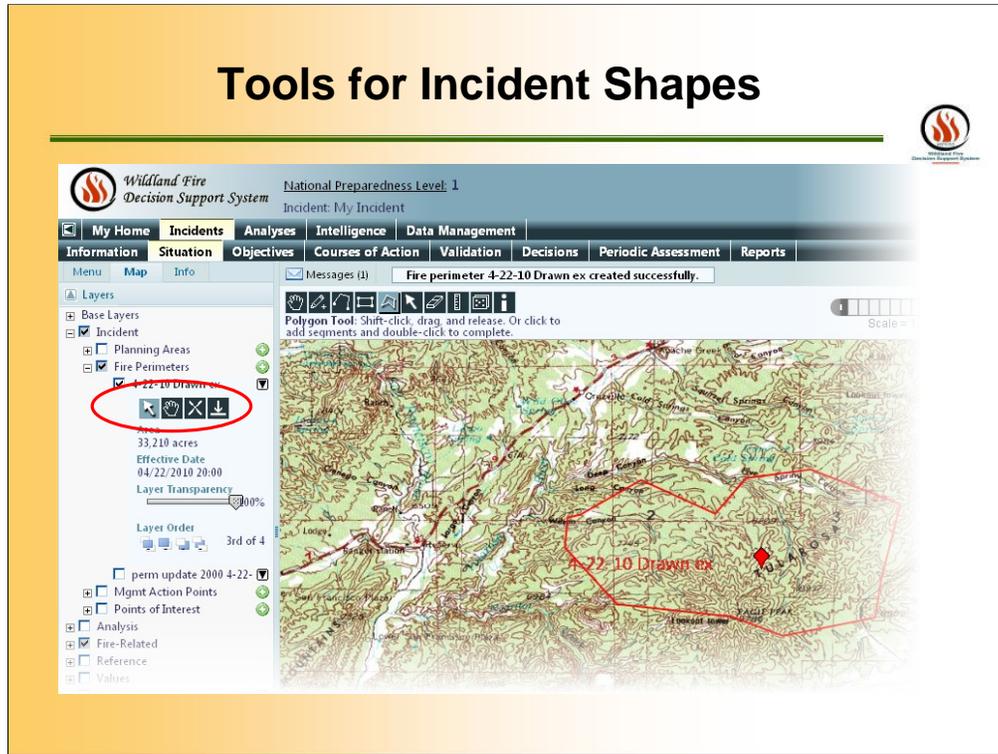
Once the temporary shape is created, click the green plus symbol next to the type of Incident shape that needs to be created. This opens the input box for the shape information – Name, Effective Date, Time, Source/Type, and Comments. Click SAVE when the information has been filled in.

Successful Creation



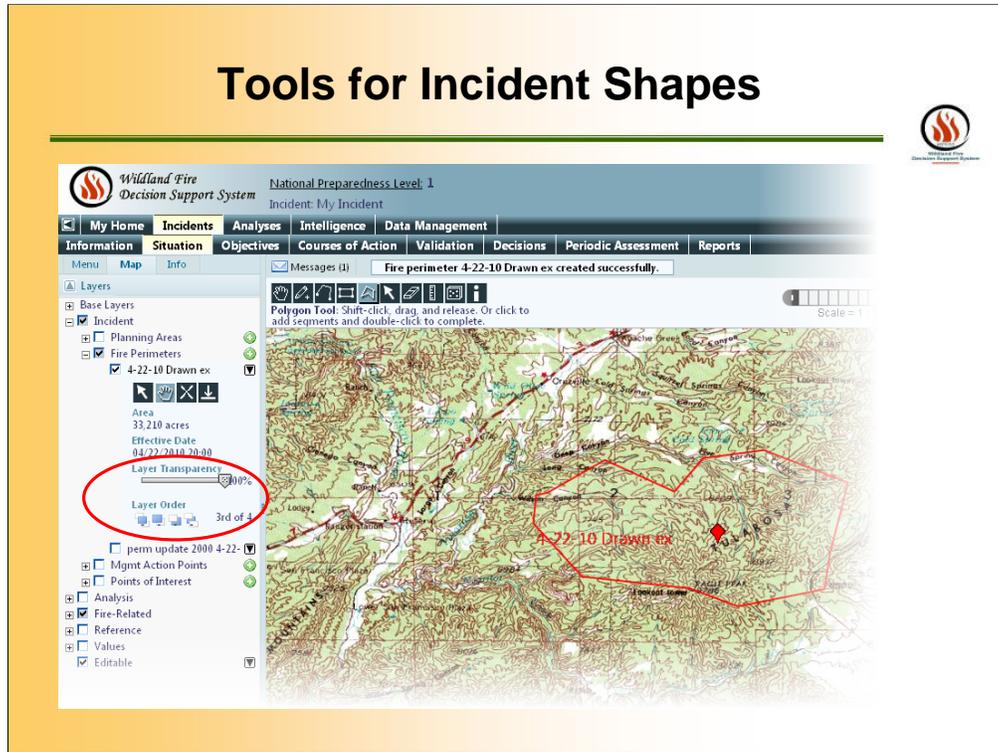
Users will be notified immediately that the shape has been successfully created.

Tools for Incident Shapes



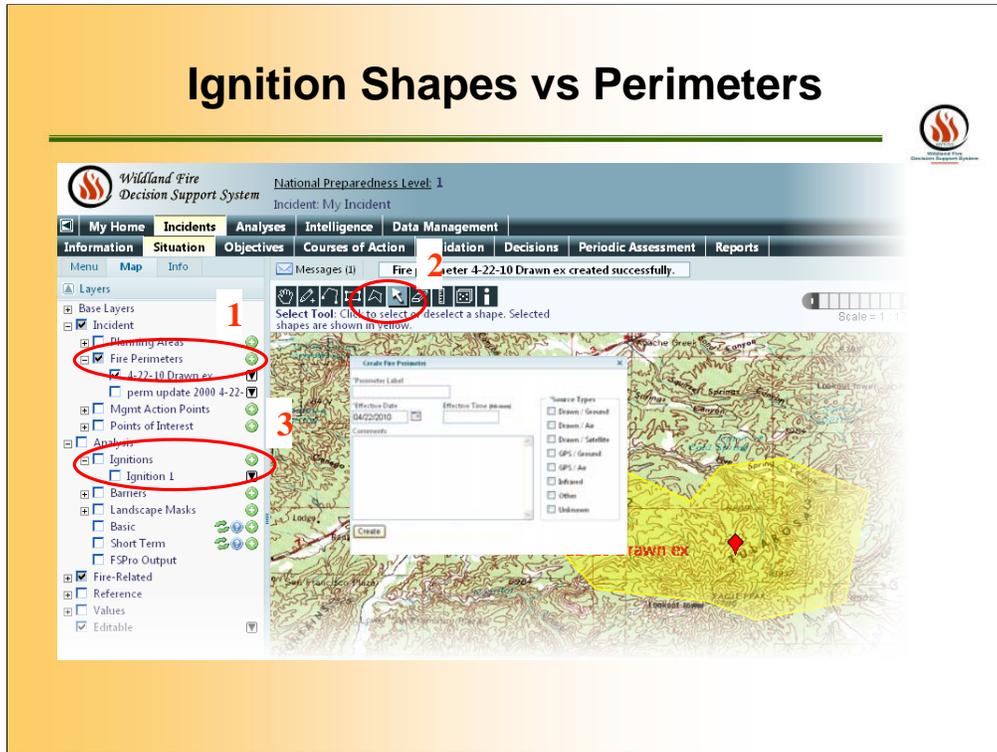
For every Incident shape, you have several tools with hover text. You can select and highlight a shape, zoom to a specific shape, delete a shape, or download a shape. Once a shape has been used in an analysis or a decision, it can no longer be deleted.

Tools for Incident Shapes



For every Incident shape, users will also have several tools to control the way in which the shape is displayed. You can control the order in which the shape is layered in the display as well as the transparency of the layer.

Ignition Shapes vs Perimeters



There is a distinct difference between ignition shapes and perimeter shapes. A perimeter can be loaded just for the purposes of use in your incident assessment. Ignition shapes are used for the purposes of analysis. However, ignitions can be turned into perimeters and vice versa. 1) Turn on the shape you would like to copy. 2) Select the arrow tool, then click the shape you want to copy. When the shape is selected, it turns yellow. 3) To save the shape, click the plus sign next to the shape type you would like to save. 4) Name it, fill out the appropriate information, and save.

REVIEW - How To Draw and Upload Shapes



Demonstrated the steps for:

- Uploading a Shape for an Incident
- Drawing a Shape for an Incident
- Uploading a Shape for Analyses
- Drawing a Shape for Analyses

We have demonstrated how to upload/draw a shape for an incident. We have also demonstrated how to upload/draw a shape for an analysis. The process is identical.

