

IFTDSS Workshop

Handout 7: Fuels Treatment – IFT-FlamMap

1. From the Project Summary page, select **Create New Run**.

HomeCollaborateProjectsData

Logged in as Banwell, Erin

IFTDSS Portland Workshop

Create New Run

Project Summary

Help

Information

Edit

Organization Name:

Project Start Date:

Project End Date:

Project Size:

Treatment Type:


Project Status: Planned

Description:

Date Modified: 12/02/2012

Date Created: 12/02/2012

Area of Interest



Northeast corner:
Latitude: 38.2283047°
Longitude: -122.6637947°

Southwest corner:
Latitude: 38.1891157°
Longitude: -122.7151747°

Total Area:
4,837.07 Acres
19,575,000 m²

Resolution: 30.0m x 30.0m

Import Landscape data from LANDFIRE

Import Fuelbeds from LANDFIRE

Upload Landscape Data Set

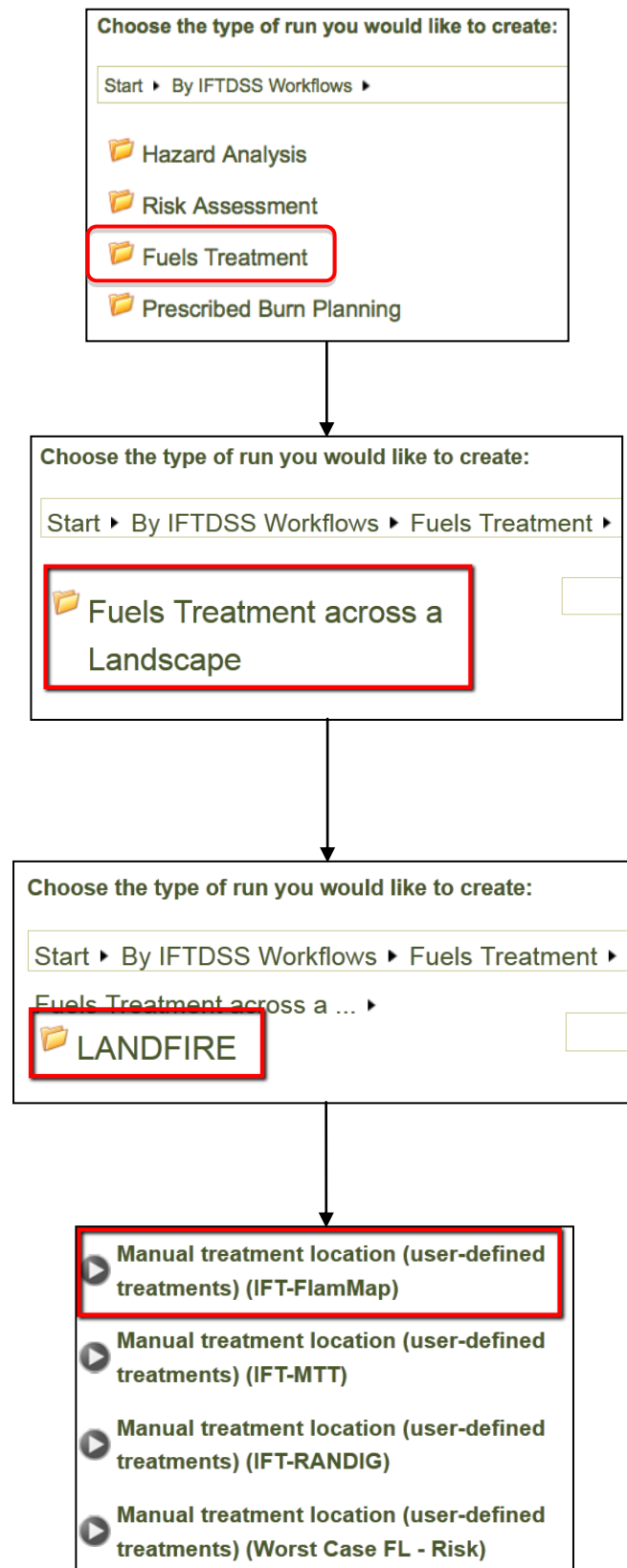
Runs

Run Name	Pathway	Date Modified	Date Created	Actions
No data available in table				

Filters: (all) (all) (all)

Create New Run

2. Select **Fuels Treatment**, then **Fuels Treatment across a Landscape**, then **LANDFIRE**, and finally, select **Manual treatment location (user-defined treatments) (IFT-FlamMap)**.



3. Name your run and select **Next**.

Create New Run: Manual treatment location (user-defined treatments) (IFT-FlamMap)

Run Name: Fuels Treatment

North: 38.1645186

West: -122.611109 East: -122.544694


South: 38.1196533

The extent of the box in the map window shows the project area that you have selected for this run. To change the area for this run, use the Draw Box tool to select a smaller area within the box shown in the map window.

Currently, the project and run areas are limited to 150,000 acres; however, this size limit will be increased to accommodate larger landscapes in future software releases.

Selected area: 7,242.26 acres

☒ Navigate Map ☐ Draw Box



Next

4. The LANDFIRE data set you acquired will be selected as your data set. Select **Next**.

Select Data Set

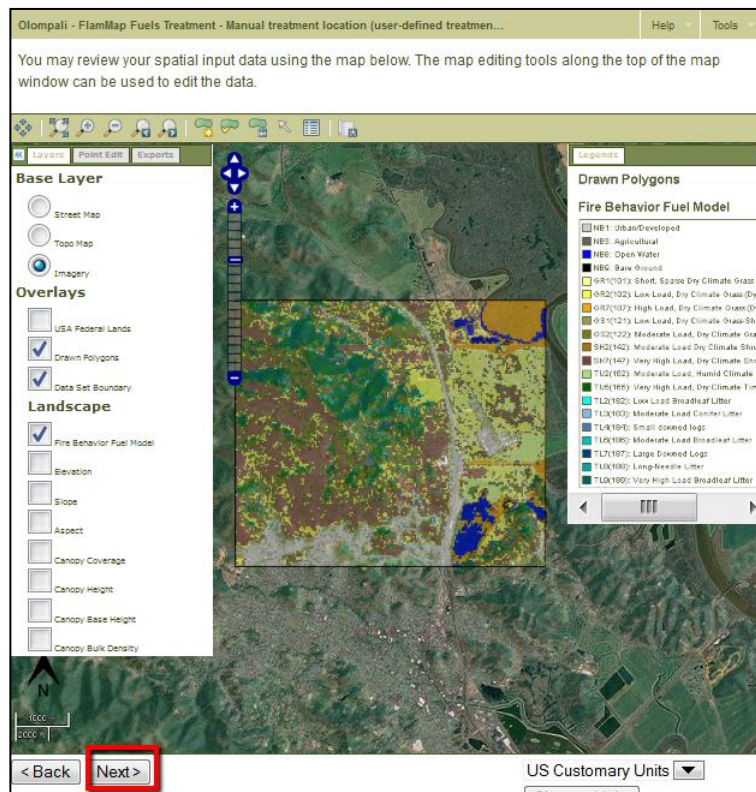
Available Data Sets: West Petaluma (100%)

Percentages next to data set names indicate the percent that the data set covers the selected run area. Data sets below 100% coverage will display a smaller area of data than the selected run area.

A copy of the data set that you select will be made for this run. Changes to the original data set will not affect the data in this run. If you would like to re-import the selected data set into this run, return to this step later and click the Edit button.

Next >

- Now, you can review your spatial landscape data using the Overlays panel on the left. After reviewing your data, select **Next**.



- Now, you are on the Inputs step. Customize the IFT-FlamMap inputs and select **Next**.

Olompli - FlamMap Fuels Treatment - Manual treatment location (user-defined treatment...)

Help Tools

Properties

Crown Fire Calculation Method: Scott & Reinhardt Method

Generate Gridded Winds: No

Fuel Moisture

Parameter	Unit	Simulation #1
1-hr Fuel Moisture	percent	7
10-hr Fuel Moisture	percent	9
100-hr Fuel Moisture	percent	12
Live Herbaceous Fuel Moisture	percent	60
Live Woody Fuel Moisture	percent	90

Weather

Parameter	Unit	Simulation #1
Wind Direction	deg	270
20-ft Wind Speed	mi/h	15.00

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US Customary Units

7. Now, you are on the Pre-Treatment Output step. In this step, you can review the spatial fire behavior overlays, as well as the landscape data. Find areas across your landscape that are at risk for high fire behavior (indicated in red). You can draw fuels treatments in these areas. Select the **Draw Polygon** tool on the toolbar.



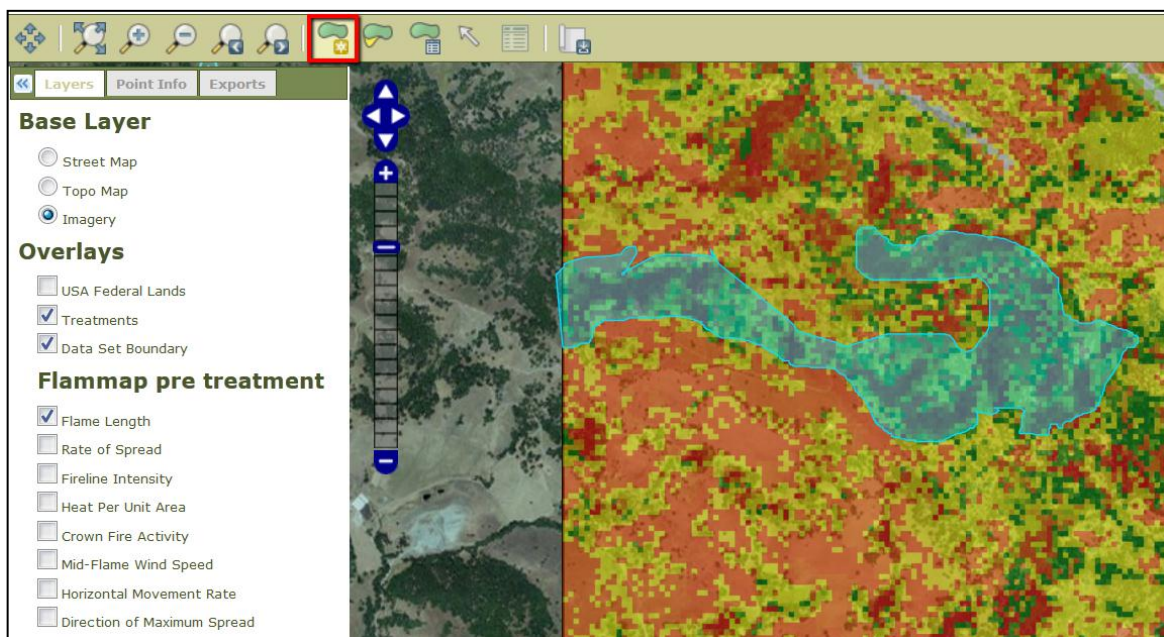
There are two methods for using the map tools to draw polygons: the freeform method and the point-and-click method.

a. The **freeform drawing method**

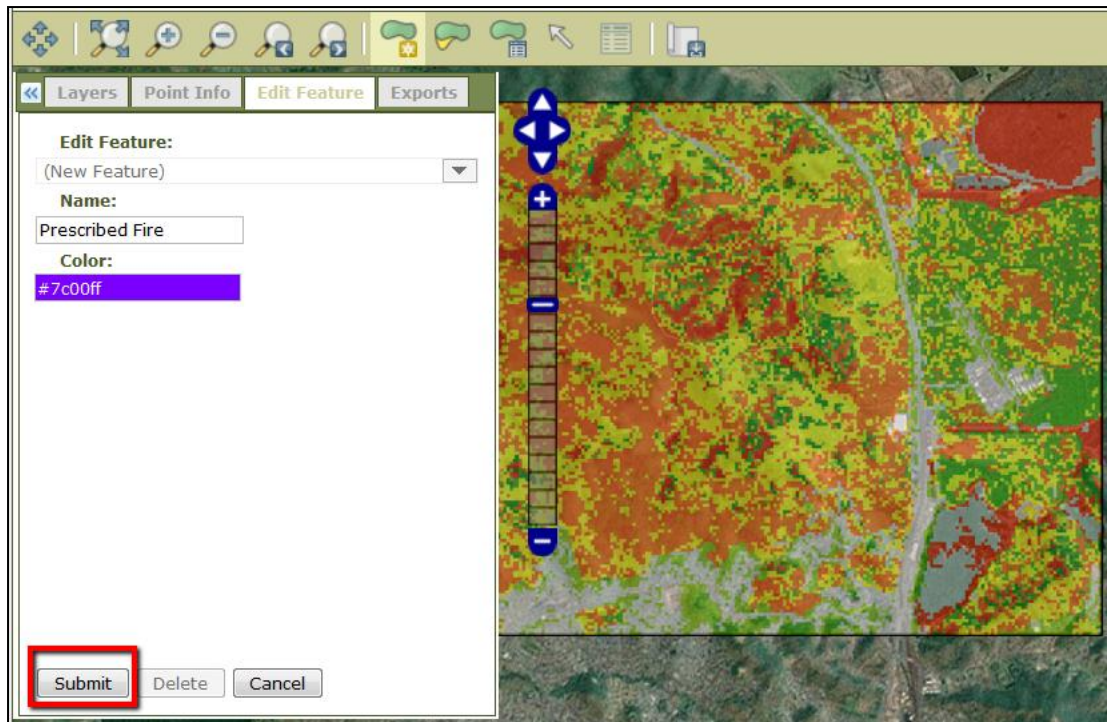
- While holding down the Shift key, click on the map, hold down the left mouse button, and start drawing your first polygon. While still holding down the Shift key and left mouse button, move the mouse as if it were a pencil to draw your polygon.
- Release the left mouse button when you are done drawing the polygon. This creates the polygon and opens the Edit Feature panel.

b. The **point-and-click method**

- To start drawing your first polygon, click on the map and release the mouse button.
- Move the mouse to a new point and click and release to add another point. Before moving on, make sure the point is established by moving the mouse away from the point.
- Continue this process until you are done drawing your polygon.
- When you are done drawing the polygon, double-click to create the polygon and to open the Edit Feature panel.



8. In the Edit Feature panel, name your polygon and choose a color. Click **Submit** to save your polygon.



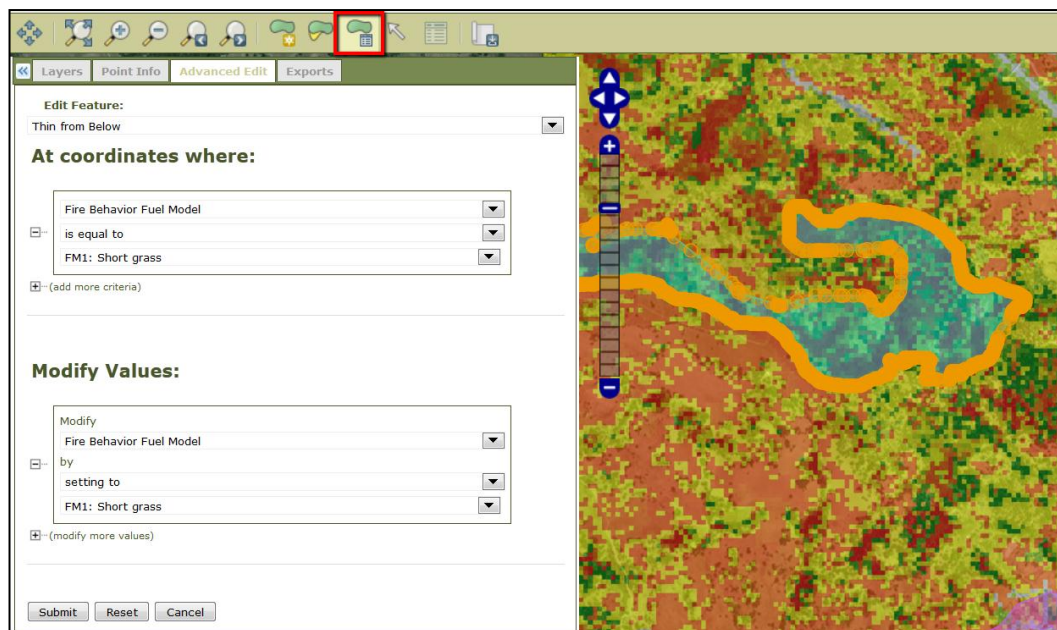
9. Repeat steps 7 and 8 to make more fuels treatment polygons if desired.

10. Next, select the **Polygon Advanced Edit** tool from the toolbar.

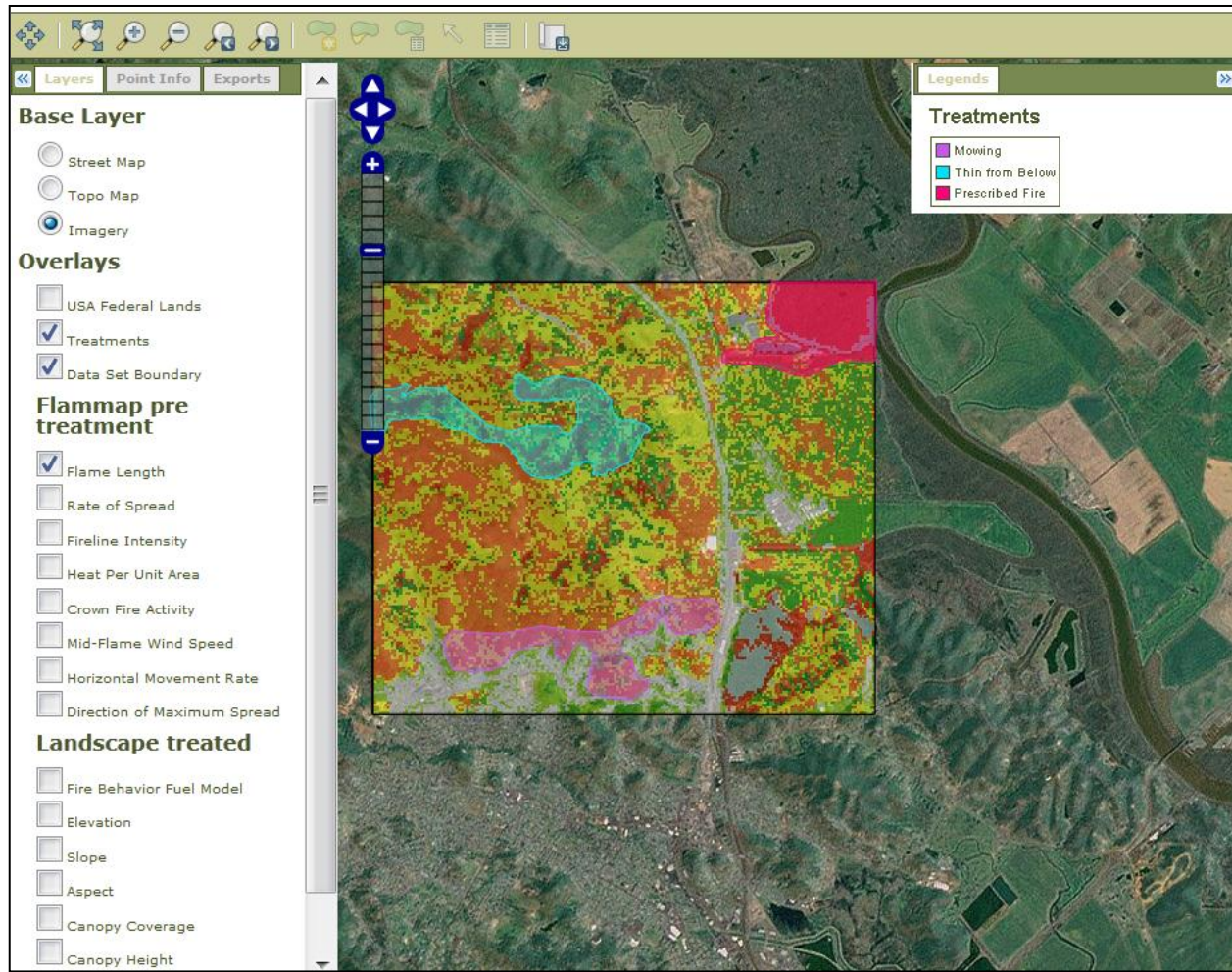


In this step, you will edit pixels within your polygon to simulate a fuels treatment (e.g., change the fire behavior fuel model from “SH2 (142): Moderate Load Dry Climate Shrub” to “SH1(141): Low Load Dry Climate Shrub”). Click on a polygon you have created. The Advanced Edit panel will appear.

- Under **At coordinates where:**, set the criteria for selecting pixels to be edited.
- Under **Modify Values:**, set the change to be made to the pixels selected.
- Click **Submit** to save changes.



11. After you are done creating and editing your fuels treatment polygons, you can save the polygons by assigning a name in the **Save Polygons As:** space below the map. Saving the polygons allows you to use them in different runs. Select **Next** to save the polygons and continue.



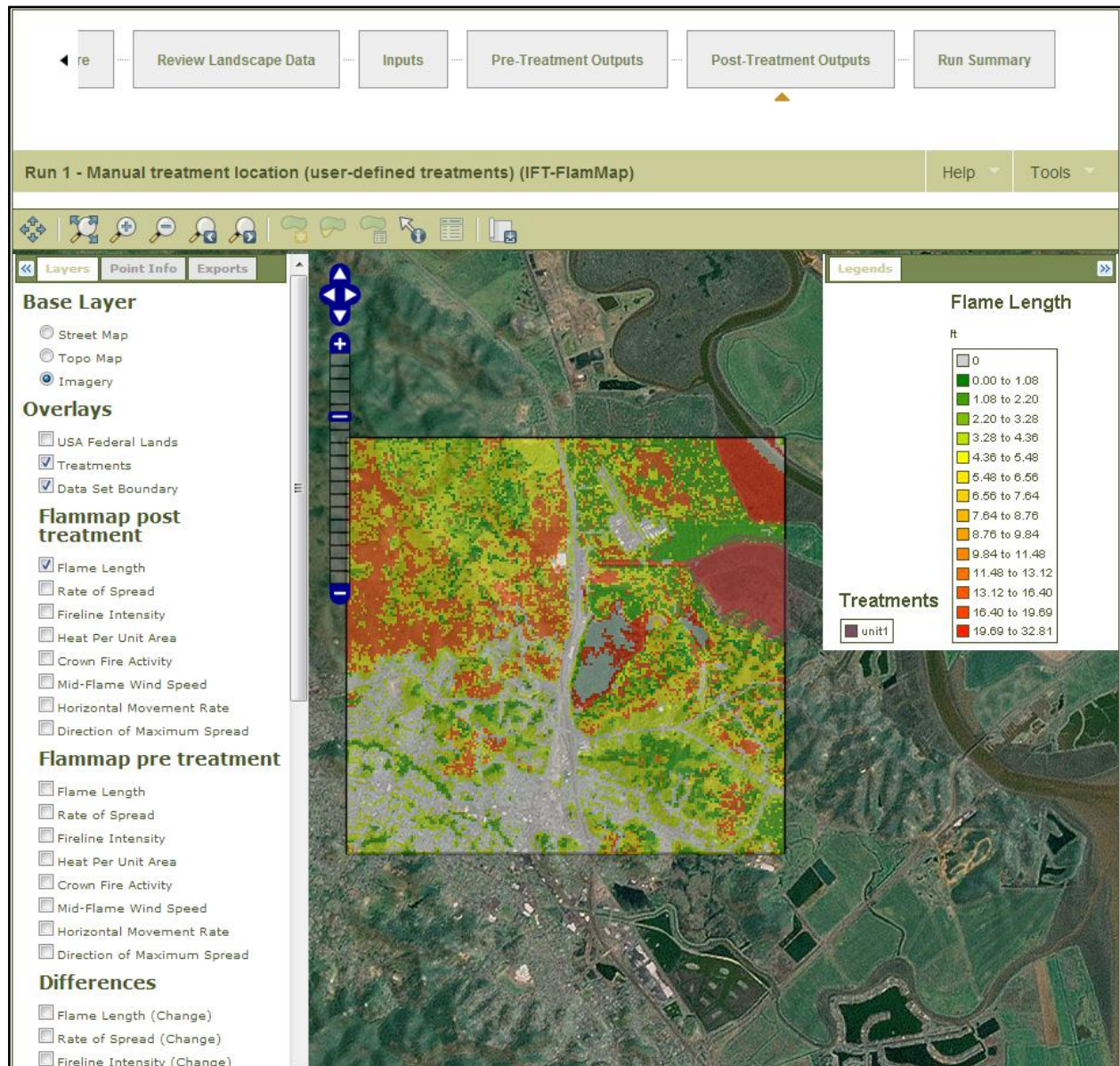
The screenshot shows the IFTDSS software interface. The main window displays a map with a large rectangular area highlighted in red, yellow, and green, representing different treatment zones. A legend in the top right corner identifies the colors: Mowing (red), Thin from Below (yellow), and Prescribed Fire (green). The left sidebar contains several sections: 'Base Layer' with radio buttons for Street Map, Topo Map, and Imagery; 'Overlays' with checkboxes for USA Federal Lands, Treatments, and Data Set Boundary; 'Flammap pre treatment' with checkboxes for Flame Length, Rate of Spread, Fireline Intensity, Heat Per Unit Area, Crown Fire Activity, Mid-Flame Wind Speed, Horizontal Movement Rate, and Direction of Maximum Spread; and 'Landscape treated' with checkboxes for Fire Behavior Fuel Model, Elevation, Slope, Aspect, Canopy Coverage, and Canopy Height. Below the map, there is a text box with the instruction: 'To save any polygons you've drawn, enter a data set name (optional).' Below this text box is a label 'Save Polygons As:' followed by an empty text input field. At the bottom left, there are two buttons: '< Back' and 'Next >'. The 'Next >' button is highlighted with a red box.

To save any polygons you've drawn, enter a data set name (optional).

Save Polygons As:

< Back Next >

12. Now you are on the Post-Treatment Outputs step. In this step, you can view post-treatment fire behavior layers, pre-treatment fire behavior layers, and “difference” layers between pre- and post-treatment fire behavior outputs.



13. Click **Finish** to end the run and go to the Run Summary page.