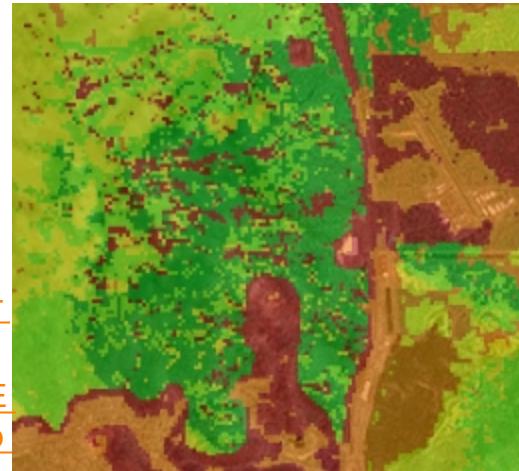


# Tutorial F: LANDFIRE Data Management in IFTDSS

IFTDSS allows you to upload LANDFIRE data from your machine, select LANDFIRE data from within IFTDSS, and edit data. This landscape-based tutorial covers the following:

- How to upload or acquire LANDFIRE data.
  - [Upload a landscape \(.lcp\) file and corresponding projection \(.prj\) file from your local machine.](#)
  - [Acquire landscape data from LANDFIRE for a specified area of interest using map tools in IFTDSS.](#)
- [Editing LANDFIRE data in Data Studio.](#)
  - [Point edit - editing one pixel at a time.](#)
  - [Advanced edit - editing multiple pixels at once.](#)
  - [Polygon advanced edit - editing pixels within a user-drawn polygon.](#)



# Uploading an LCP File

To upload an lcp file from your local machine to your IFTDSS account, navigate to the **Data tab**

The screenshot shows the IFTDSS application interface. At the top, there is a navigation bar with links for Home, Collaborate, Projects, and Data. The 'Data' link is circled in red. On the right side of the top bar, it says 'Logged in as Help, IFTDSS'. Below the navigation bar, there are two main sections. On the left, under 'Actions', there are links: Create a New Project, Manage My Projects, Manage My Data Sets, View Published Projects, Find Other Users, Instructions, Tutorials, & Videos, and What's New. On the right, there is a 'My Profile' section with a placeholder image and an 'Edit' button.

## Note

The file upload size is limited to 24 MB.

From the Saved Data Sets page, choose the LANDFIRE/LCP Tab and select **Upload Landscape (LCP) File** option circled below.

The screenshot shows the 'Saved Data Sets' page. At the top, there is a navigation bar with tabs: All Data, LANDFIRE/LCP Data (which is selected and highlighted in blue), Fuelbed Data, and Shapefile Data. Below the navigation bar, there is a search bar with the placeholder 'Search:'. Underneath the search bar, there is a table with columns: Data Set Name, Project Name, Data Type, Date Created, Date Modified, Status, Actions, and Export Status. The table contains several rows of data. At the top of the table, there is a button labeled 'Upload Landscape (LCP) File' with a circular arrow icon, which is circled in red. There is also a link 'Acquire Landscape Data from LANDFIRE'.

Data Set Name	Project Name	Data Type	Date Created	Date Modified	Status	Actions	Export Status
River Bend Fuels		IFT-LANDFIRE LCP	03/24/2015	03/24/2015	Ready		Not Started
River Bend Fuels...	River Bend	IFT-LANDFIRE LCP	03/24/2015	03/24/2015	Ready		Not Started
Jan2015	test_01_05_15	IFT-LANDFIRE LCP	01/05/2015	01/05/2015	Ready		Not Started
snotest		IFT-LANDFIRE LCP	09/29/2014	09/29/2014	Ready		Not Started

This opens the **Upload New Data Set** page.

**Upload New Data Set**

<p><b>To upload your data:</b></p> <ol style="list-style-type: none"> <li>1) Give the data set a name.</li> <li>2) Choose a file from your computer that you would like to upload.</li> <li>3) Click <b>Add File</b>.</li> <li>4) Repeat for any additional files.</li> <li>5) Click <b>Finish</b>.</li> </ol>	<p>To upload a .lcp file, you will also need to upload the associated projection file (.prj). An uploaded set of .lcp and .prj files becomes a saved data set.</p>
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**Data Set**

(Required) Enter a name for this new data set.

**1**

**2** **Add File**

No file chosen

**3**

1. Enter a name for your data set. This name will later be displayed on the **Saved Data Sets** page.
2. Add a file by choosing **Choose File** and browsing on your local computer for the file (in .lcp format; each .lcp file also needs a corresponding .prj file).
3. Once you have found the desired file, choose **Add File**.
4. If you want to add more files, repeat steps 2 through 5 for each additional file.
5. Once you have selected all the files you want to upload, choose **Finish** to upload the files.

After you have uploaded your file(s), your new data set will be listed on the **Saved Data Sets** page under the **LANDFIRE/LCP Data** tab and the **All Data** tab. All uploaded .lcp data sets will be tagged with the data type “Uploaded LCP.”

**Note**

Because you created the data set directly and not as part of a project, there is no project associated with the data set.

# Acquiring Landscape Data from LANDFIRE Within IFTDSS

To acquire LANDFIRE landscape data from within IFTDSS you will need to be on the **Acquire Data from LANDFIRE** page. If you have not yet created a Project, you can get to this page via the data tab, followed by the **Acquire Landscape Data from LANDFIRE** selection (Figure A). If you have already created a project, visit the project summary page, and select the **Acquire Landscape Data from LANDFIRE** option from the **Area of Interest** section to the right of the page (Figure B).

The screenshot shows the IFTDSS application interface. At the top, there is a navigation bar with links for Home, Collaborate, Projects, and Data. The 'Data' link is circled in red. Below the navigation bar is a sidebar titled 'Actions' containing links for Create a New Project, Manage My Projects, Manage My Data Sets, View Published Projects, Find Other Users, Instructions, Tutorials, & Videos, and What's New. To the right of the sidebar is a main content area titled 'Saved Data Sets'. This area includes a header with tabs for All Data, LANDFIRE/LCP Data (which is selected and highlighted with a red circle), Fuelbed Data, and Shapefile Data. Below the header is a table showing four data sets. A red arrow points from the 'Acquire Landscape Data from LANDFIRE' link in the sidebar to the 'Acquire Landscape Data from LANDFIRE' button in the 'Saved Data Sets' table.

Data Set Name	Project Name	Data Type	Date Created
River Bend Fuels		IFT-LANDFIRE LCP	03/24/2015
River Bend Fuels...	River Bend	IFT-LANDFIRE LCP	03/24/2015
Jan2015	test_01_05_15	IFT-LANDFIRE LCP	01/05/2015
snotest		IFT-LANDFIRE LCP	09/29/2014

The screenshot shows the 'Area of Interest' section. It contains the text 'Define your project area of interest by:' followed by three options: 'Acquiring data from LANDFIRE' (which is circled in red), 'Manually defining the project area', and 'Uploading a LCP file'.

On the **Acquire Data from LANDFIRE** page, you will :

- Name your data set
- Choose a LANDFIRE data layer to acquire
- Select the fuel model type you will use (Scott and Burgan 40 or Anderson 13)

## Olompali Flame Length Risk Assessment

### Set Up Project Area of Interest

Data Set Name  
Olompali State Hist. Park

LANDFIRE Data Layer  
LANDFIRE 2010 (v 1.20)

Fuel Model  
Anderson 13

North: 38.16450587899  
West: -122.6280054270  
South: 38.11103935295  
East: -122.5456079661

Define the area of interest for your project by using the Draw Box tool to select an area on the map below or by using the latitude and longitude coordinate boxes to the left. Once you define the area of interest for a project, it cannot be changed without creating a new project.

Currently, acquisition of LANDFIRE data is limited to 400,000 acres.

Navigate Map  Draw Box

Selected area: 10,612.19 acres

Tip: Click on the plus sign in the upper right corner of the map to view different base layers, such as image, or topography.

30 meter resolution

[Back](#) [Next](#)

There are three options to set your area of interest:

- A. Enter the geographic coordinate extents of your area of interest using the coordinate entry boxes.
- B. Select the Navigate Map button above the map, then use the navigation tools located in the top left portion of the map. After navigating to your area of interest, select Draw Box to manually draw your area of interest on the map.
- C. Select the Navigate Map button above the map, then use the mouse. Click and drag to move; double-click to zoom in. After navigating to your area of interest, select Draw Box to manually draw your area of interest on the map.

## Olompali Flame Length Risk Assessment

### Set Up Project Area of Interest

#### Data Set Name

Olompali State Hist. Park

#### LANDFIRE Data Layer

LANDFIRE 2010 (v 1.20)

#### Fuel Model

Anderson 13

#### North

38.16450587899

#### West

-122.6280054270

#### East

-122.5456079661

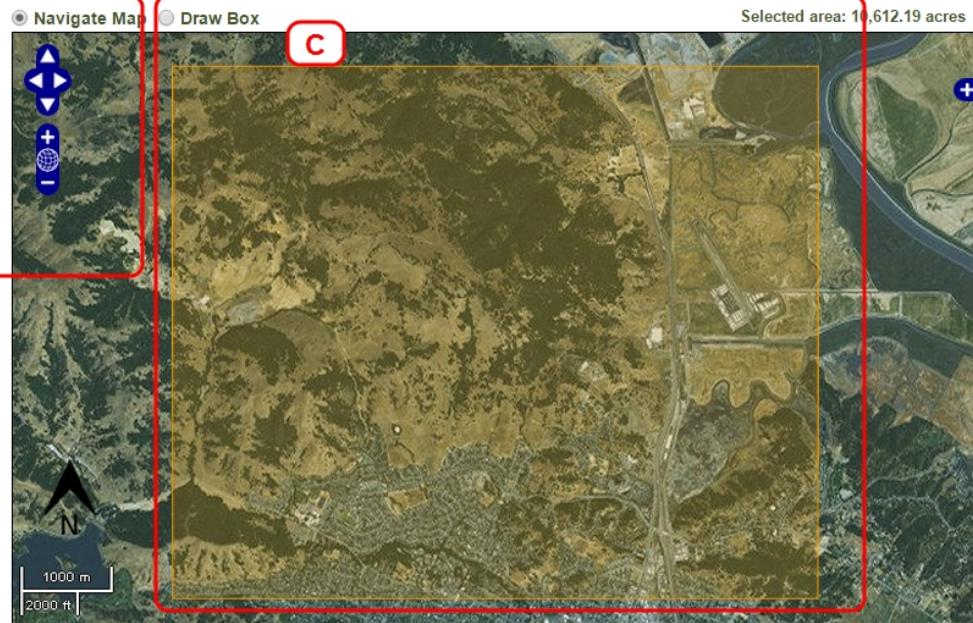
#### South

38.11103935295

A

Define the area of interest for your project by using the Draw Box tool to select an area on the map below or by using the latitude and longitude coordinate boxes to the left. Once you define the area of interest for a project, it cannot be changed without creating a new project.

Currently, acquisition of LANDFIRE data is limited to 400,000 acres.



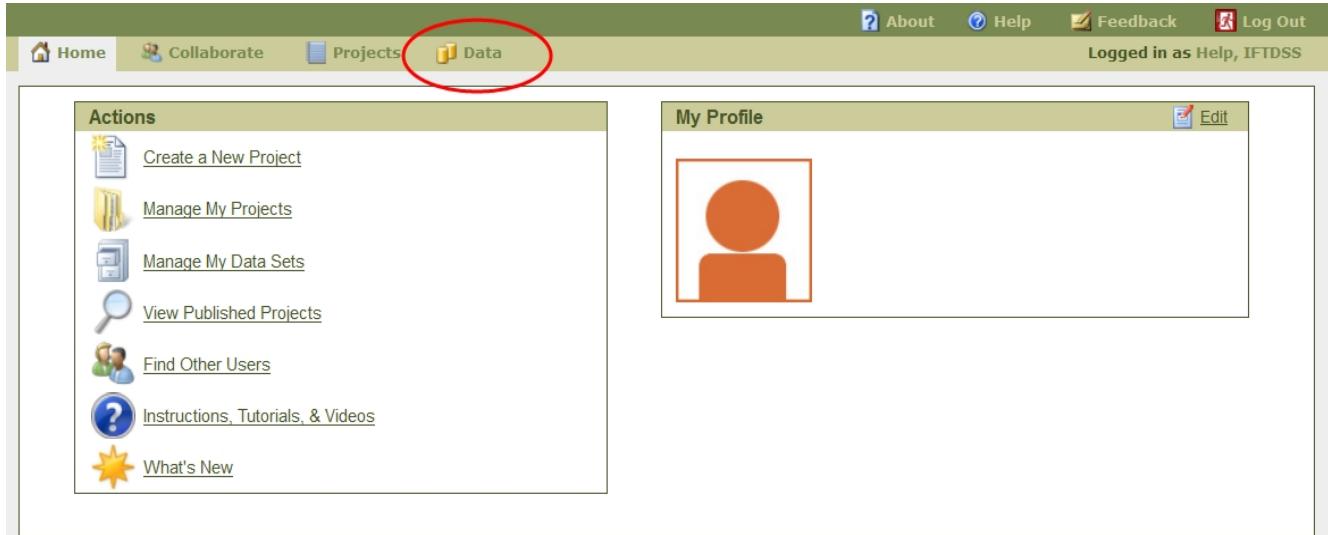
30 meter resolution

[Back](#) [Next](#)

Once your area is selected, click **Acquire** or **Next** at the bottom of the page.

# Editing Data Using Data Studio

To edit data using data studio, navigate to the Data tab.



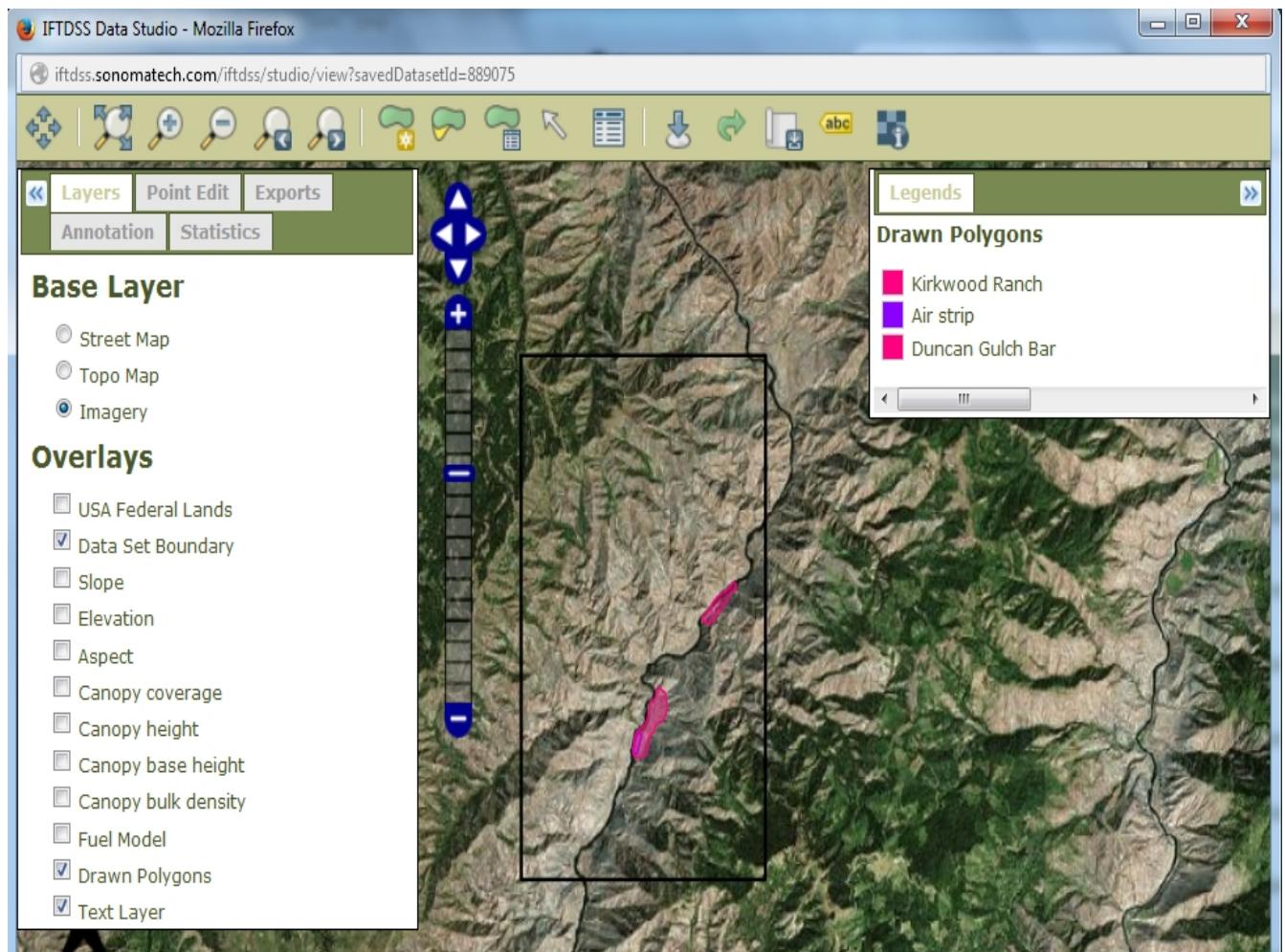
To open data for editing, click on the cog icon to the right of the dataset, and select **edit**

A screenshot of the 'Saved Data Sets' page in Data Studio. At the top, there are tabs for All Data, LANDFIRE/LCP Data, Fuelbed Data, and Shapefile Data. The 'All Data' tab is selected. Below the tabs, there is a message: 'Select one of the data tabs (located above) to upload, create, and edit data related to the specific tab.' There is a search bar and a dropdown menu to show 10 entries. A table lists data sets with columns for Data Set Name, Project Name, Data Type, Date Created, Date Modified, Status, Actions, and Export Status. The 'Actions' column contains icons for Edit, Copy, Rename, Delete, and Download. The 'Edit' icon for the second row ('Trail 102') is circled in red.

## Note

Because Data Studio opens in a new browser window, you'll need to disable pop-up blockers.

Once the **edit** option is selected, the data will appear in a new screen



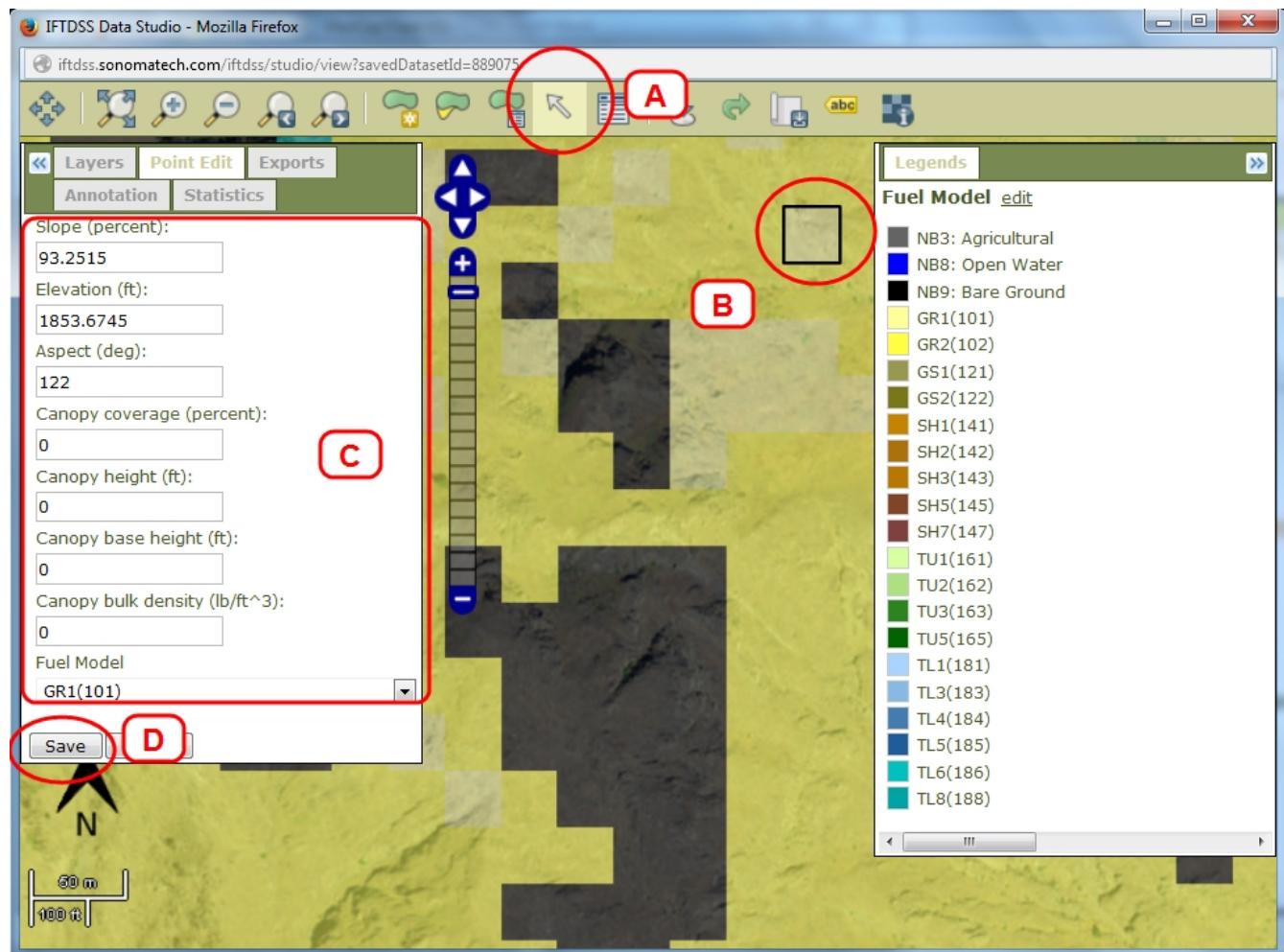
From this screen you may use the [mapping toolbar](#) to:

- [Point Edit: edit one pixel at a time](#)
- [Advanced Edit: edit pixels across the entire run area](#)
- [Polygon Advanced Edit: edit pixels within a user-drawn polygon](#)

# Point Editing

To Point edit, follow the steps below:

- A. Select the Point Edit tool
- B. Click on the pixel you would like to edit, and the Point Edit panel appears
- C. Edit the pixel data
- D. Click Save



Once you have made all the necessary edits, be sure to click the **Save All** button (circled in red below) to ensure all edits are saved:

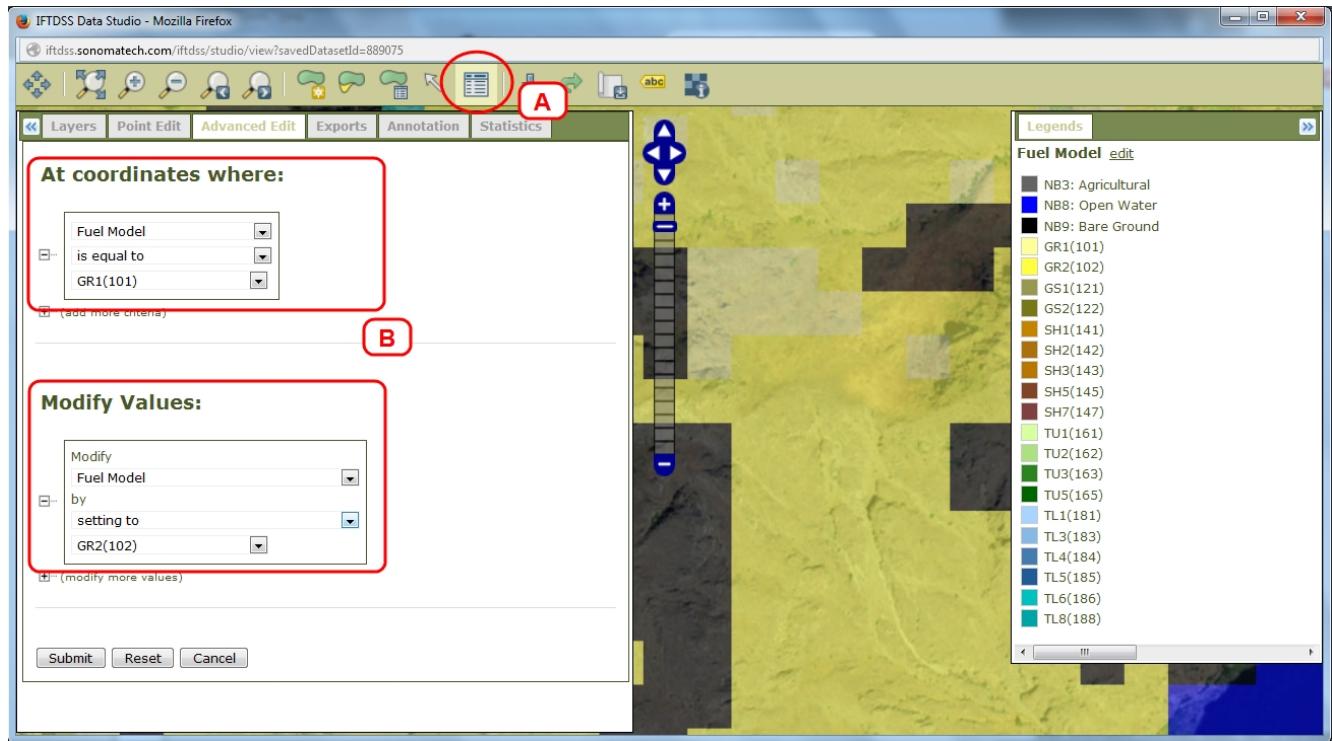


# Advanced Editing: Edit Pixels Across the Entire Run Area

To edit multiple pixels at a time, follow the steps below:

- A. Select the Advanced Editing tool
- B. A dialogue box will appear on the left that will allow you to specify the conditions under which pixels should be changed, and what changes should be made.

In the image below, we are locating all pixels where the fuel model is equal to Fuel Model GR1(101), and modifying them to make the Fuel Model GR2 (102).



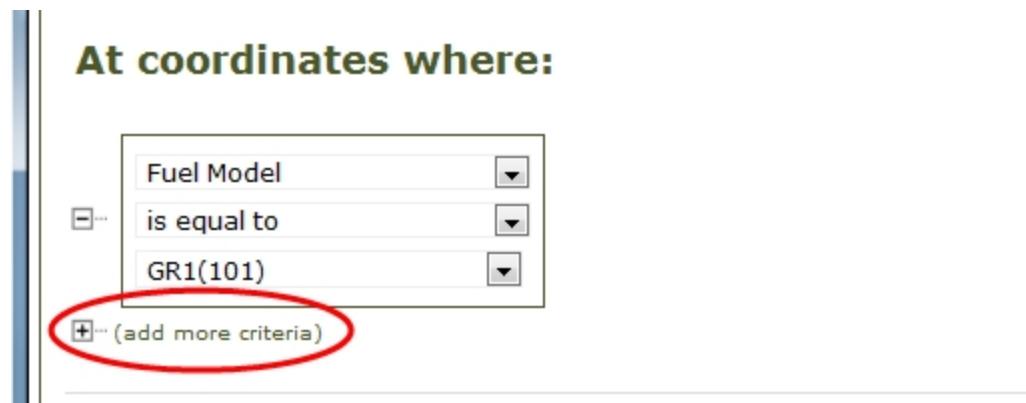
The criteria under which a pixel may be changed allow for flexibility. You may specify to select pixels that are:

- equal to
- less than
- greater than
- equal to or less than

- equal to or greater than
- has no assigned value

It is also possible to modify pixels based on multiple criteria by selecting the **add more criteria** option

**At coordinates where:**



Fuel Model

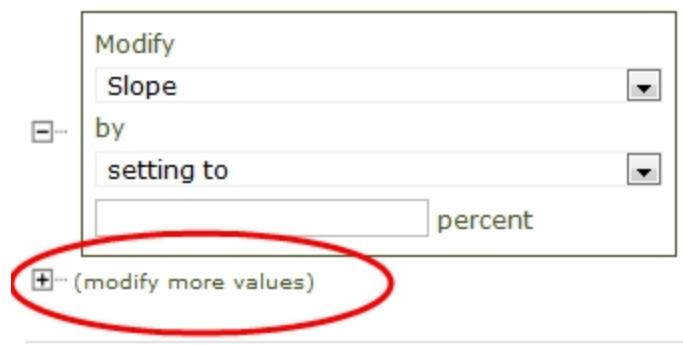
is equal to

GR1(101)

+... (add more criteria)

Multiple modifications can also be made to the pixels; to add modifications select the **modify more values** option.

### Modify Values:



Modify

Slope

by

setting to

percent

+... (modify more values)

For the example, in the image below, we have selected to change all Fuel Model GR1 (101) pixels on a slope greater than 60% to Fuel Model GR3(103).

IFTDSS Data Studio - Mozilla Firefox

iftdss.sonomatech.com/iftdss/studio/view?savedDatasetId=889075

Layers | Point Edit | Advanced Edit | Exports | Annotation | St | Legends

**At coordinates where:**

Slope  
is greater than  
60 percent

AND

Fuel Model  
is equal to  
GR1(101)

+ (add more criteria)

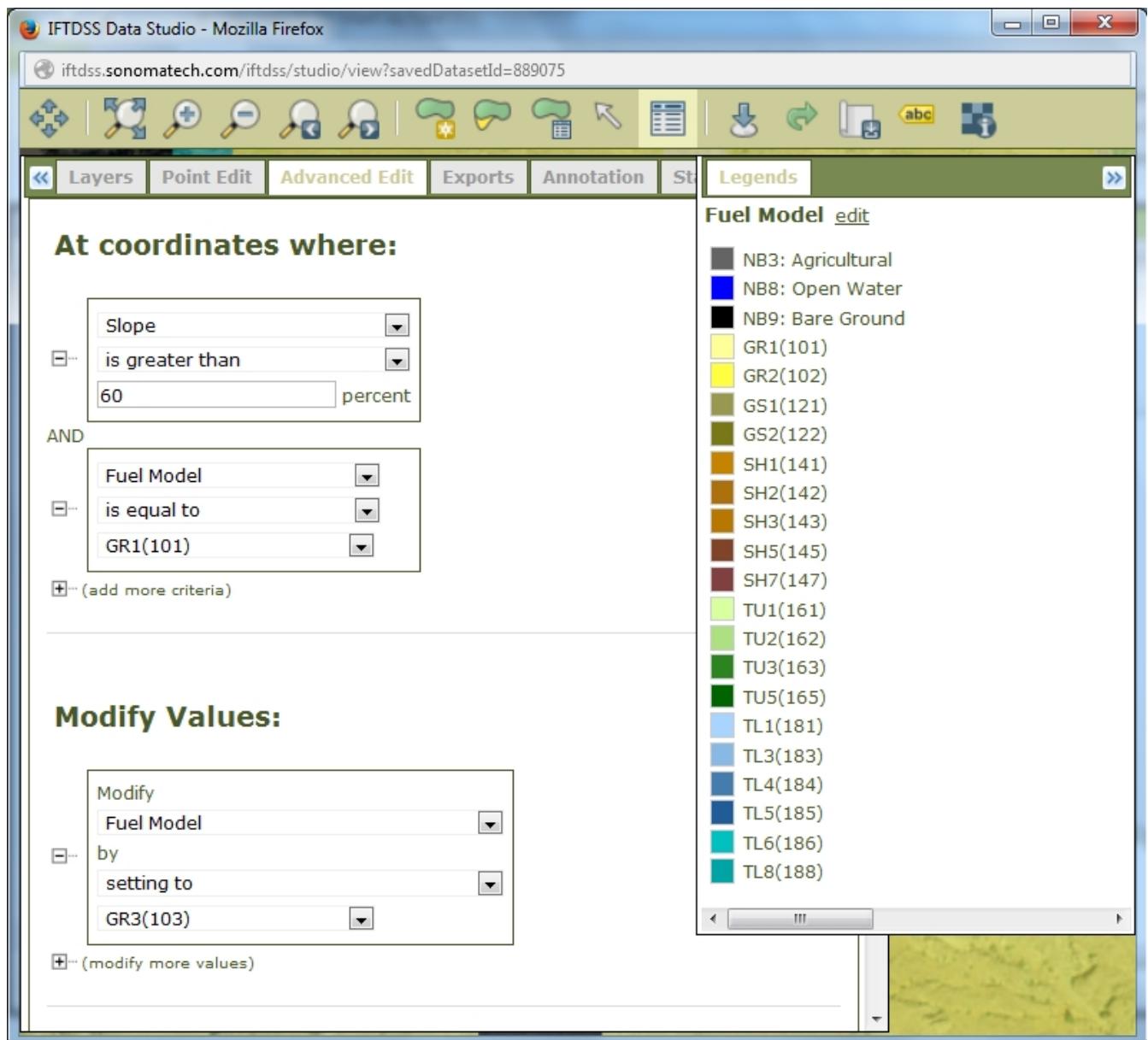
**Modify Values:**

Modify  
Fuel Model  
by  
setting to  
GR3(103)

+ (modify more values)

**Fuel Model** edit

- NB3: Agricultural
- NB8: Open Water
- NB9: Bare Ground
- GR1(101)
- GR2(102)
- GS1(121)
- GS2(122)
- SH1(141)
- SH2(142)
- SH3(143)
- SH5(145)
- SH7(147)
- TU1(161)
- TU2(162)
- TU3(163)
- TU5(165)
- TL1(181)
- TL3(183)
- TL4(184)
- TL5(185)
- TL6(186)
- TL8(188)



Once your changes are made, click **Submit** at the bottom of the dialogue box.



Once you have made all the necessary edits, be sure to click the **Save All** button (circled in red below) to ensure all edits are saved:

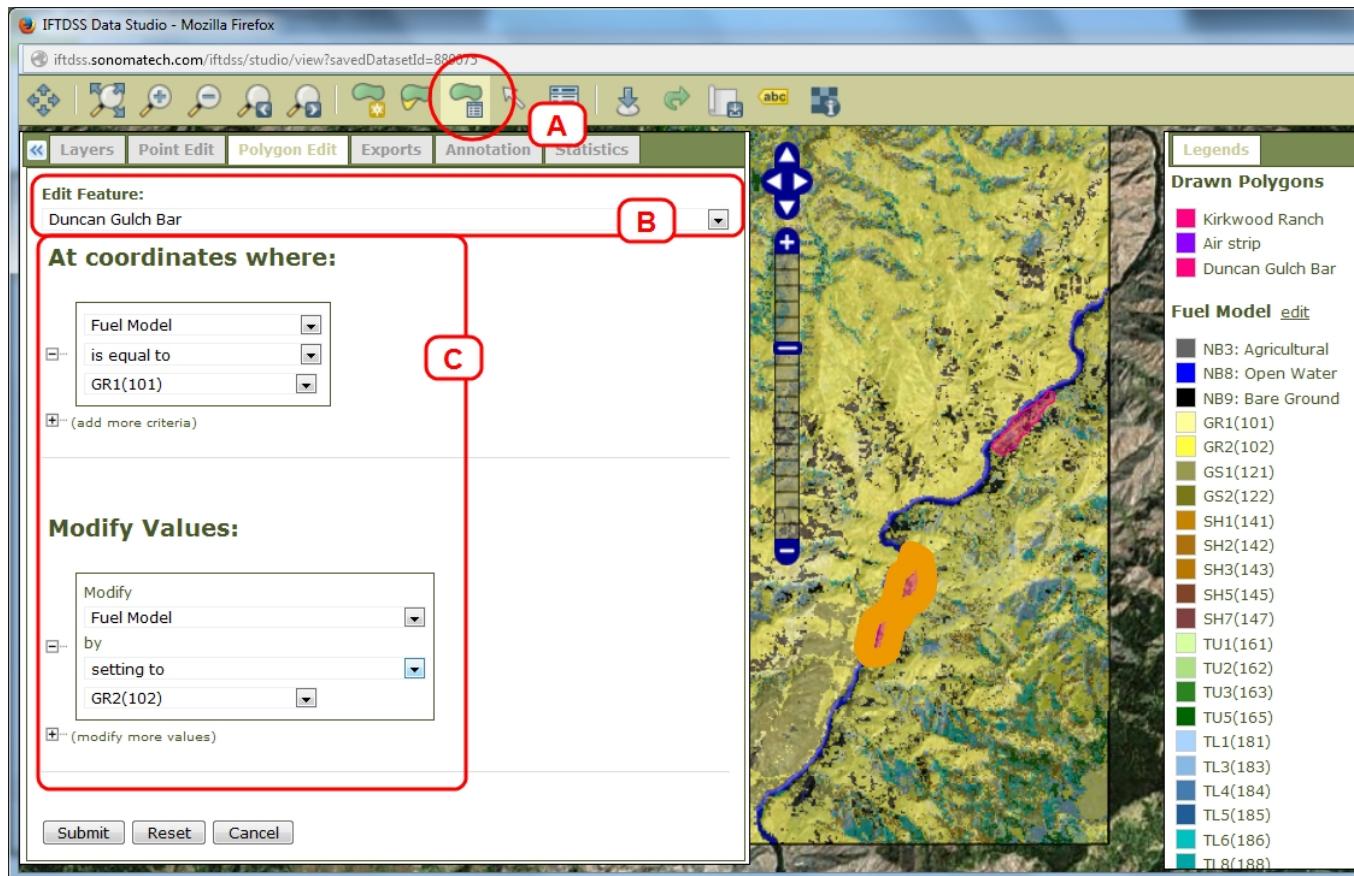


# Polygon Advanced Edit: edit pixels within a user-drawn polygon

To edit multiple pixels at once within a polygon, follow the steps below:

- A. Select the Polygon Advanced Editing tool
- B. A dialogue box will appear on the left, ensure you have the polygon/feature that you want to alter specified
- C. Specify the conditions under which pixels should be changed, and what changes should be made.

In the image below, we are locating all pixels where the fuel model is equal to Fuel Model GR1(101), and modifying them to make the Fuel Model GR2 (102).



The criteria under which a pixel may be changed allow for flexibility. You may specify to select pixels that are:

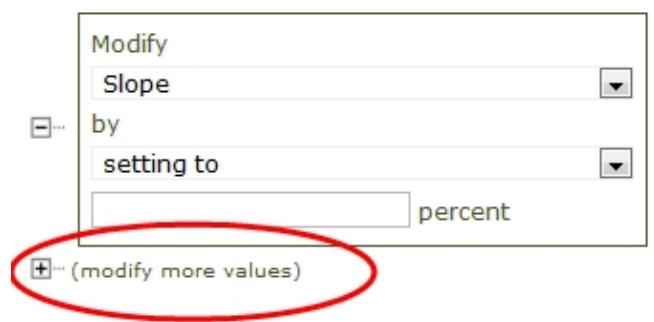
- equal to
- less than
- greater than
- equal to or less than
- equal to or greater than
- has no assigned value

It is also possible to modify pixels based on multiple criteria by selecting the **add more criteria** option



The same is true for the modification made to the pixels; to add modifications select the **modify more values** option

### Modify Values:



For the example, in the image below, we have selected to change all Fuel Model GR1 (101) pixels on a slope greater than 60% to Fuel Model GR3(103).

IFTDSS Data Studio - Mozilla Firefox

iftdss.sonomatech.com/iftdss/studio/view?savedDatasetId=889075

**Layers** **Point Edit** **Polygon Edit** **Exports** **Annotation** **Statistics**

**Edit Feature:**  
Duncan Gulch Bar

**At coordinates where:**

- Slope  
is greater than 60 percent
- AND
- Fuel Model  
is equal to GR1(101)

(+ add more criteria)

**Modify Values:**

Modify  
Fuel Model by setting to GR3(103)

(+ modify more values)

**Legend:**

- Kirk
- Air
- Dur

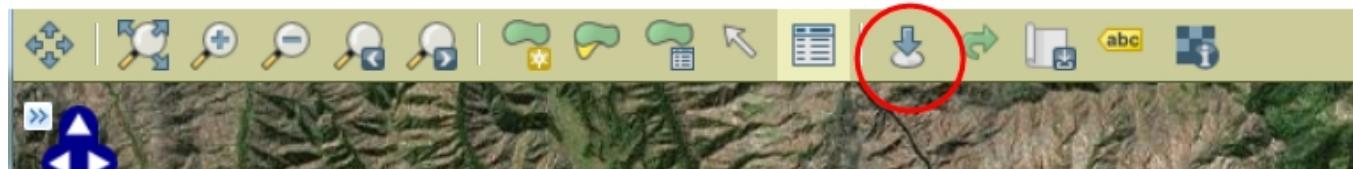
**Fuel M**

- NB3
- NB8
- NB9
- GR1
- GR2
- GS1
- GS2
- SH1
- SH2
- SH3
- SH5
- SH7
- TU1
- TU2
- TU3
- TU5
- TL1
- TL3
- TL4
- TL5
- TL6
- TL8

Once your changes are made, click **submit** at the bottom of the dialogue box.



Once you have made all the necessary edits, be sure to click the **Save All** button (circled in red below) to ensure all edits are saved:



# Review and wrap-up

In this tutorial we described:

- How to upload or acquire LANDFIRE data.
  - Upload a landscape (.lcp) file and corresponding projection (.prj) file from your local machine.
  - Acquire landscape data from LANDFIRE for a specified area of interest using map tools in IFTDSS.
- Editing LANDFIRE data in Data Studio.
  - Point edit - editing one pixel at a time.
  - Advanced edit - editing multiple pixels at once.
  - Polygon advanced edit - editing pixels within a user-drawn polygon.

## Additional Help

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To navigate to additional tutorials in the IFTDSS online help content,

1. Click the **Help** button.
2. Then select **Getting Started (Tutorials and Videos)** from the side menu.

On that page, you'll find links to tutorials and videos on such topics as hazard analysis, prescribed burn planning, fuels treatment, spatial analysis across a landscape, and many more.

