



Starting a Project and Creating Landscape

Using Folders and Landscapes in IFTDSS

Project Folders: There is no formal definition of the term “**Project**” in IFTDSS. Instead, the term “**Project**” refers to the collection of landscape files, model runs, and associated data for your specific area. Many tasks in IFTDSS relate back to these landscape files and other information, so it is recommended that you start by creating a **Folder** track of your files.

Tip: Stay organized by creating a **Folder** each time you begin a project for analysis. Logical naming conventions for **Folders** include the geographic area being analyzed.

Landscapes: In IFTDSS, a landscape file refers to the spatial file that contains vegetation and fuels data. The user defines the extent of the landscape which should be large enough to cover the entire analysis area. IFTDSS currently generates all landscape files at 30m resolution and can accommodate large landscapes if necessary. The maximum area for a landscape is 12,188,160 acres (138 miles x 138 miles) but if you try that now, your instructor will not be pleased. If you follow along with your own landscape, limit the size to under 100,000 acres to reduce the processing times.

If you do not specify a folder to store data in IFTDSS, files will be saved to the ‘Playground’ Folder by default. Currently, files cannot be moved from one folder to another.

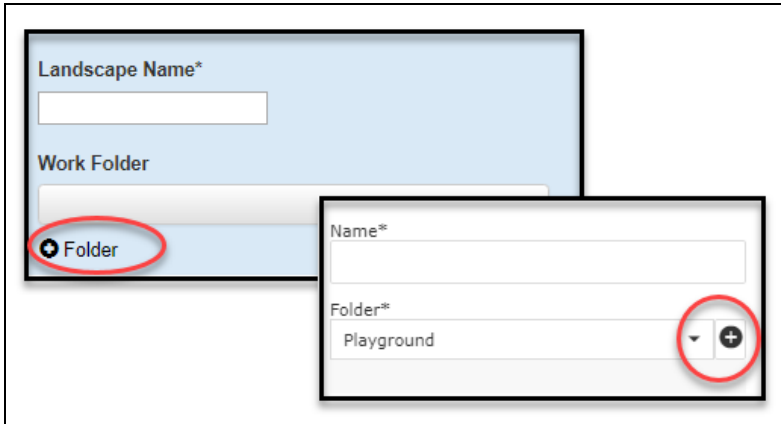
Tutorial Information: This tutorial is written so you may follow along with a landscape of your choosing. If you prefer to replicate our exact folder and landscape, here is the information we used: In the ‘Create a Folder’, we named our folder ‘Haypress Creek Project’
In the ‘Create a Landscape’ section, we used the following details to download-

- Location: Tahoe National Forest, location bounds in degrees:
 - West: -120.8856
 - East: -120.6044
 - South: 39.4463
 - North: 39.6149
- Landfire version: 2012
- Fuel Model: Fuel Model 40
- Landscape Name: HaypressCrkLf2012unedited
- Folder: Specify or create: Haypress Creek Project

Create a Folder

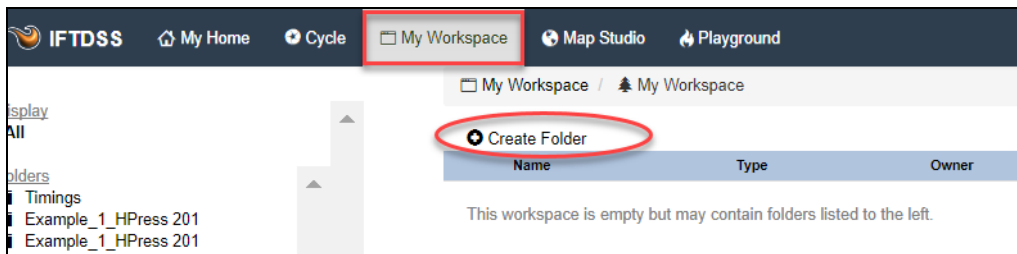
Folders can be created directly in the **My Workspace**. They can also be created while working in IFTDSS whenever you create a new landscape or shapefile, just look for the **Add New Folder** button

 whenever you are required to specify a folder.

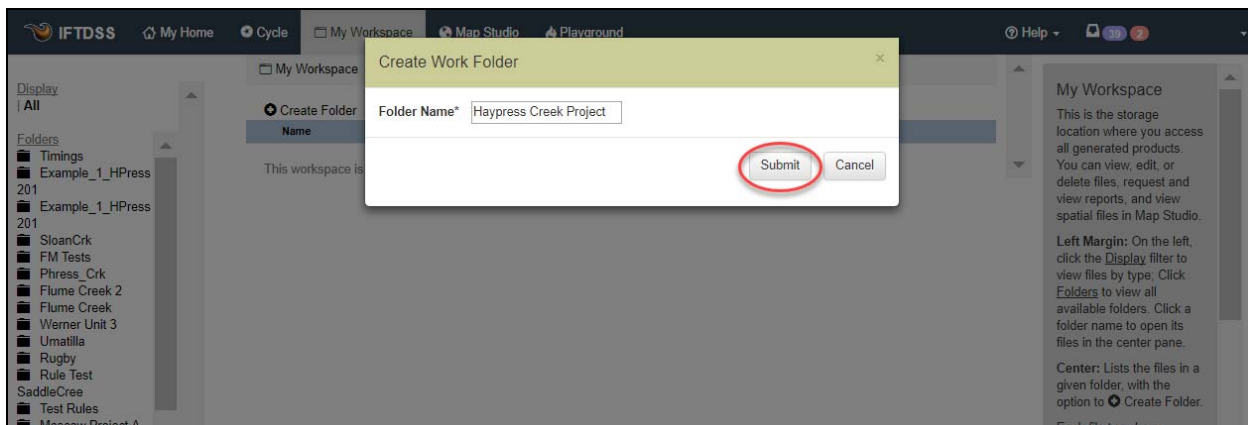


To create a new folder from **My Workspace**:

A. Access **My Workspace** from the top navigation menu of IFTDSS and create a folder by clicking the **Create Folder** option at the top of the **My Workspace** page.

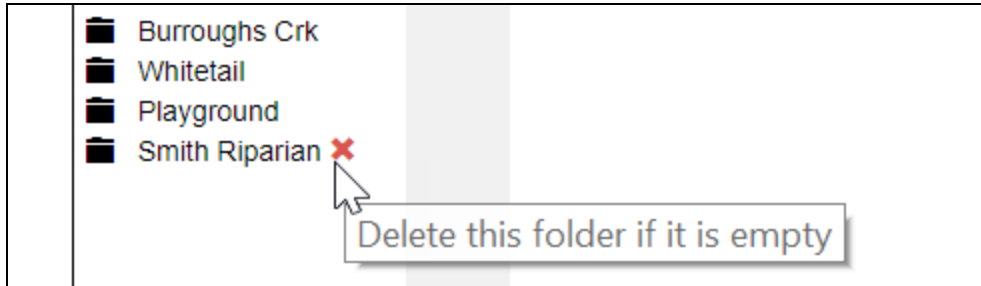


B. Give your folder a name and click **Submit**.

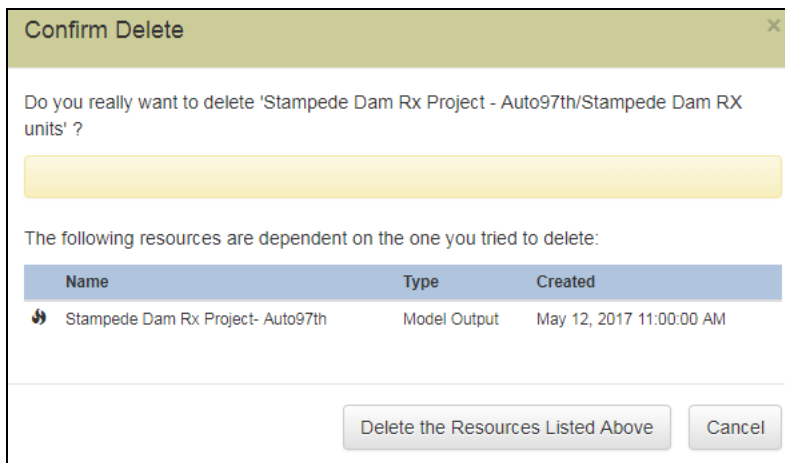


Deleting Folders: You can delete a folder in **My Workspace**, but you must make sure the folder is empty first.

To delete a folder in **My Workspace**, hover over the folder name in the left panel, a red 'x' will appear to the right of the folder name.

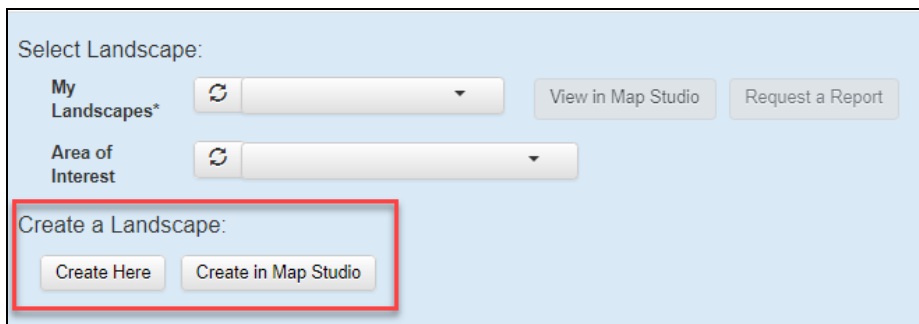


To delete a folder with files, you must first open the folder and delete the individual files and then delete the folder. File deletions will come with a warning about any dependencies and ask for verification before deletion.



Create a Landscape

Landscapes in IFTDSS can be created from multiple locations. In most interfaces it is common to see both a dropdown menu for existing landscapes and options to create landscapes within the interface or from Map Studio.



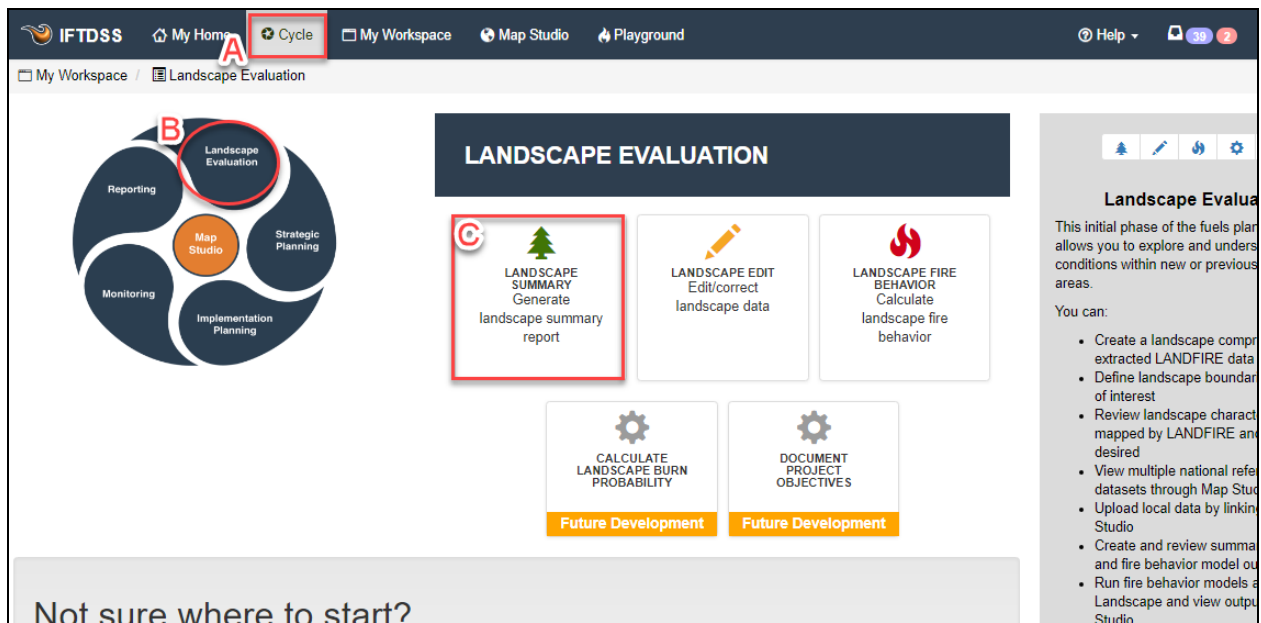


For this tutorial you'll create a landscape through the **Landscape Summary** task. This serves two purposes: to create a landscape, and to do so in the interface that allows you to easily create a downloadable summary report describing the characteristics of your landscape.

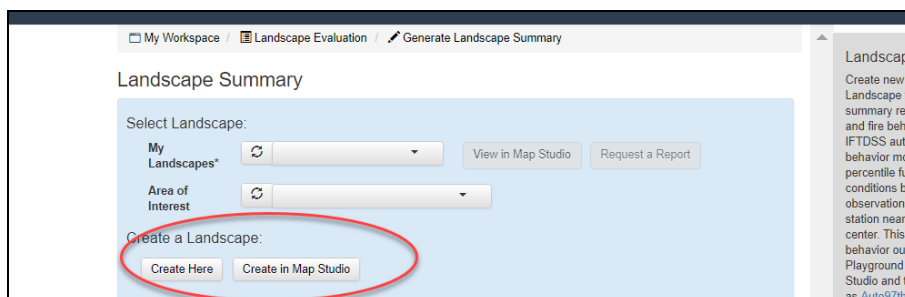
Tip: Landscapes created elsewhere in IFTDSS are available via the My Landscapes dropdown menu in the Landscape Summary task, so you can create summaries at any point in time.

Navigate to the **Landscape Summary** interface:

- Navigate to the Planning “**Cycle**” using the top navigation menu.
- Select the **Landscape Evaluation** stage of the Planning Cycle.
- Click the **Landscape Summary** task.



For the next steps, we will outline creating a landscape using the **Create Here** option. Briefly look at each option and follow along with the option of your choosing.



Method 1 - Creating a landscape from the Landscape Summary Interface

My Workspace / Landscape Evaluation / Generate Landscape Summary

Landscape Summary

Select Landscape:

My Landscapes*

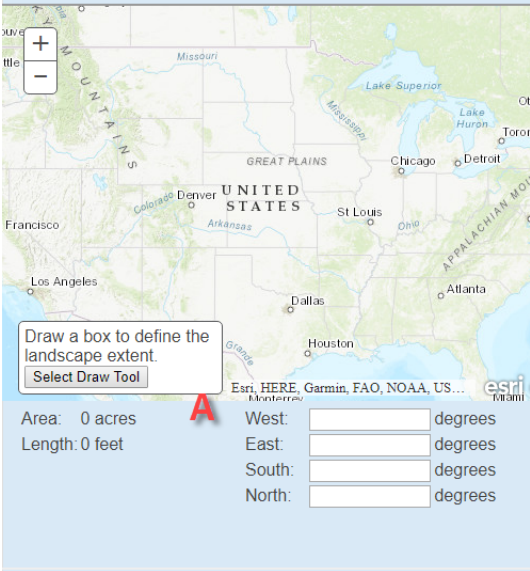
Area of Interest

Create a Landscape:

Create Here

Selecting **Create Here** opens a small map window to zoom within, or enter coordinates.

Creating Landscape:



Area: 0 acres
Length: 0 feet

West: degrees
East: degrees
South: degrees
North: degrees

Landfire Version*
LANDFIRE 2014

Fuel Model*
Fuel Model 40

Landscape Name*

Work Folder
Folder

- A. Use the bounding box fields and enter the coordinates, in degrees, for the west, east, south, and north bounds of your area, or select the **Draw Tool** and click on the map to draw a box around your area. The dimensions of your selected area will be displayed to the left, or under your landscape coordinates, depending on what part of IFTDSS you create your landscape in.

Draw a box to define the landscape extent.

Area: 418,124.69 acres
Length: 560,774.85 feet

West: -108.7743 degrees
East: -108.4227 degrees
South: 37.0754 degrees
North: 37.5847 degrees

North* 41.4272
West* -111.7749 East* -110.9400
South* 41.0968
Area: 634,389.37 acres
Length: 699,861.52 feet



- B. Choose the version of LANDFIRE data you would like to use from the dropdown list
- C. Choose the fire behavior fuel model (Fuel Model 40 or Fuel Model 13) to include in your landscape file from the dropdown list.
- D. Give your landscape a descriptive name, this will be helpful as you accumulate more landscape files in IFTDSS.
- E. Select the folder where you would like to store your landscape file, or click **+ Folder** to create and name a new folder to place your landscape file.
- F. Click **Create** to generate your landscape file.

Once you click **Create**, you will be returned to the Landscape Summary task, and the field next to **My Landscapes**, displays the name of your newly created landscape, with an hourglass ⌚ next to it, indicating it is being created. Once created, the hourglass is replaced by a green checkmark. Use the **Refresh** button ↻ next to the landscape name to see the green checkmark.

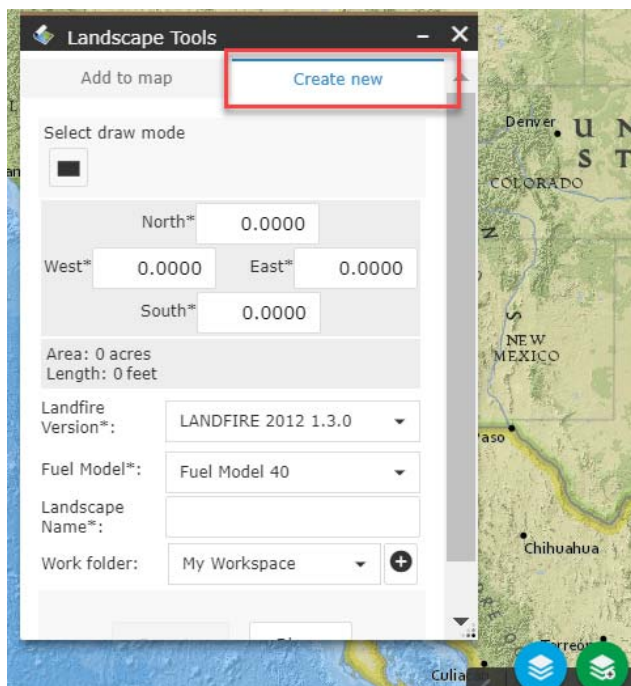
For the rest of your activities in IFTDSS this landscape will be available in the folder you specified in **My Workspace**, and accessible in Landscape dropdown menus throughout IFTDSS.

Create a Landscape in Map Studio

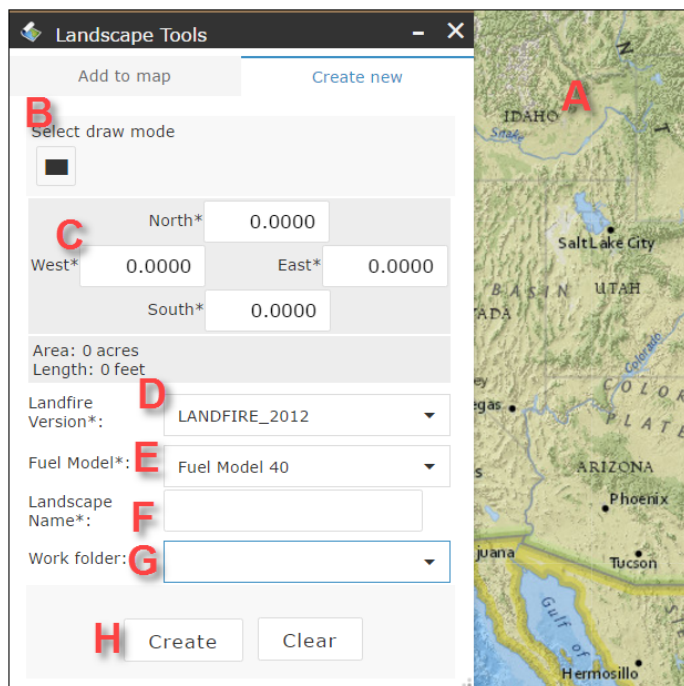
Selecting **Create in Map Studio** will move you away from the Landscape Summary page to Map Studio. After creating your landscape in Map Studio, you must navigate back to the Landscape Summary page and choose your newly created landscape from the dropdown menu.

To create a landscape in Map Studio, click the **Create in Map Studio** button

You will be taken to Map Studio, and the Landscape Tools button  will automatically be opened. This displays the Landscape Tools interface and the Create new tab.



Next you will use **Landscape Tools** to create your landscape:

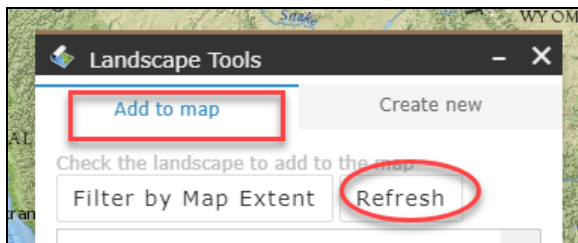


- A. Use the Map Studio tools such as zoom, basemap layers, etc. to locate your desired area.
- B. Click the **Select draw mode**, mouse to your location on the map, hold down the left mouse key, and draw a rectangle around your desired area, releasing the button when you are finished.



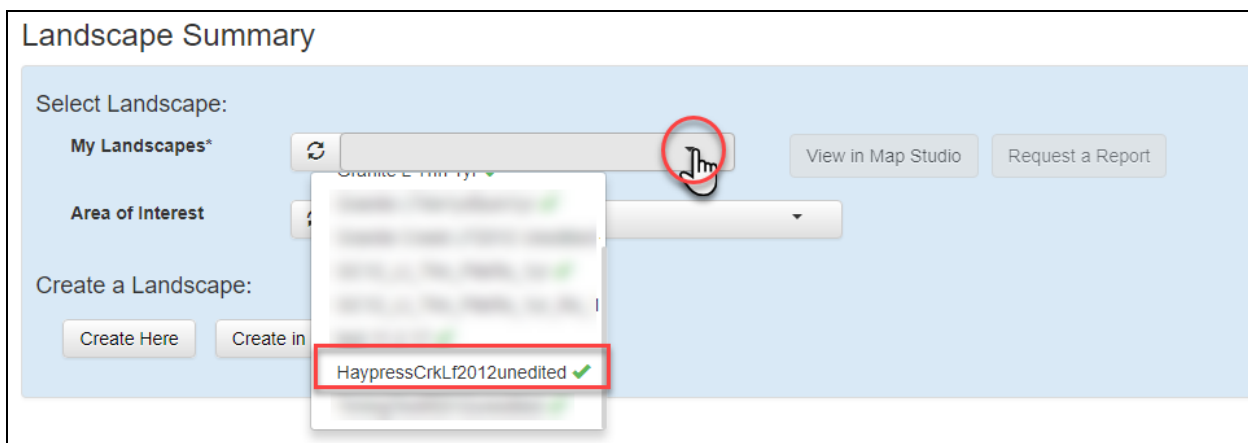
- C. (Optional) If you want to enter coordinates directly, instead of drawing, you may do so by entering the coordinates, in degrees, for the west, east, south, and north bounds of your desired area.
- D. Choose the version of LANDFIRE data you would like to use.
- E. Choose the fire behavior fuel model (Fuel Model 40 or Fuel Model 13) you would like included in your landscape file.
- F. Give your landscape a descriptive name, this will be helpful as you accumulate more landscape files in IFTDSS. It can be helpful to specify the Landfire Version in the name and to say unedited if you anticipate that you will need to update this file. Eg. name could be ***HaypressCrkLf2012unedited***.
- G. Select the folder in which you would like to store your landscape file.
- H. Click **Create** to generate your landscape file.

After selecting **Create**, it may take a few minutes to generate your landscape. You may check its status by toggling to the Add to Map tab in Landscape Tools and using the **Refresh** button, or navigating to your project folder in **My Workspace** and checking its status listed next to the landscape file.



My Workspace				
Map Studio				
Playground				
My Workspace / Haypress Creek Project / My Workspace				
Name	Type	Owner	Created	Status
HaypressCrk LF2012 Unedited	Landscape	josh hyde	Apr 18, 2017 6:00:08 PM	Completed
HaypressCrk LF2012 EC By Low Aurs - model/HayPress Treatment	Report	josh hyde	Sep 25, 2017 8:45:48 PM	Completed

When your landscape is completed, navigate back to the **Landscape Summary** task, and select your new landscape from the dropdown menu.





Next Steps

You have successfully created your landscape from within the Landscape Summary interface. Stay on this task and go to the next tutorial, where you will look at the different types of summaries and finish this Landscape Summary. Note that your landscape has been permanently created, and will now be available for use throughout IFTDSS.