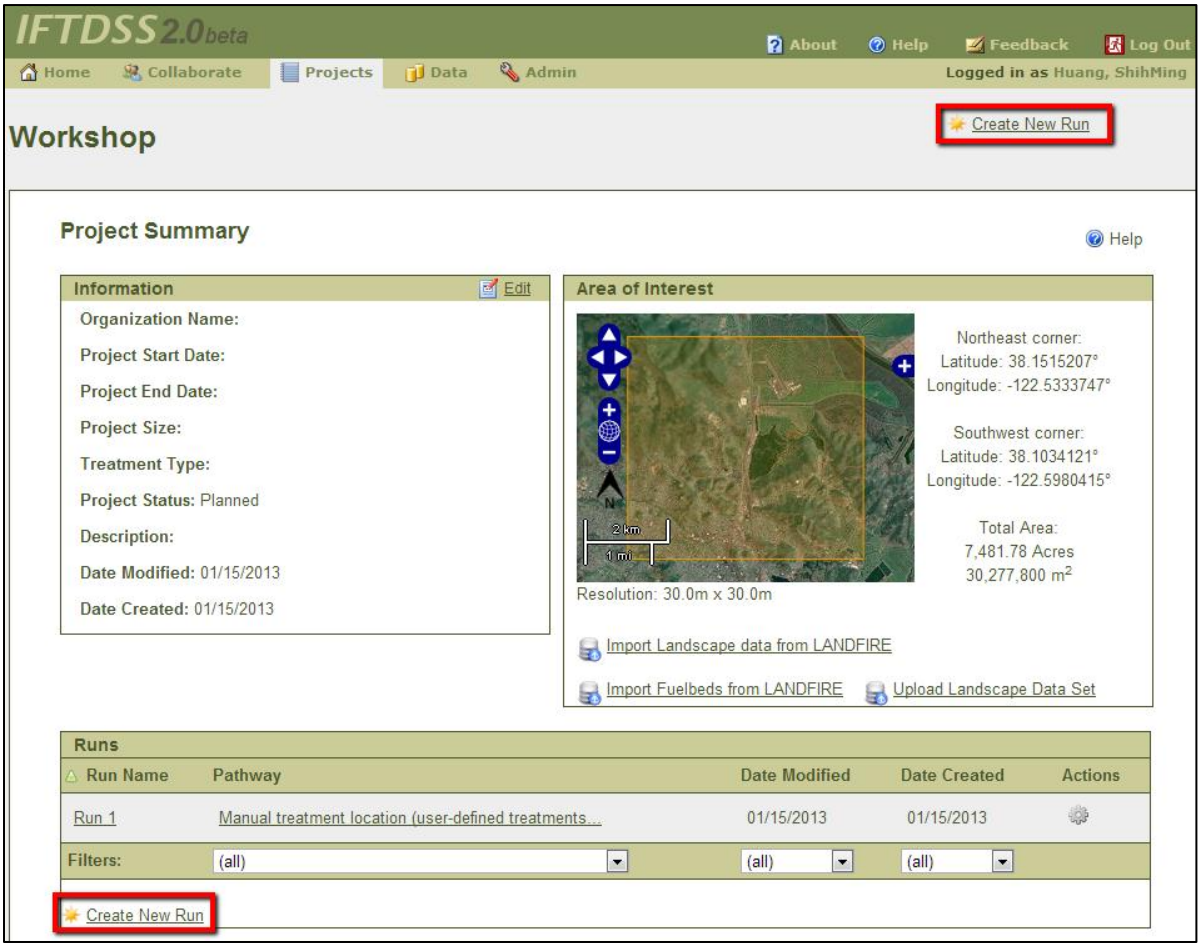
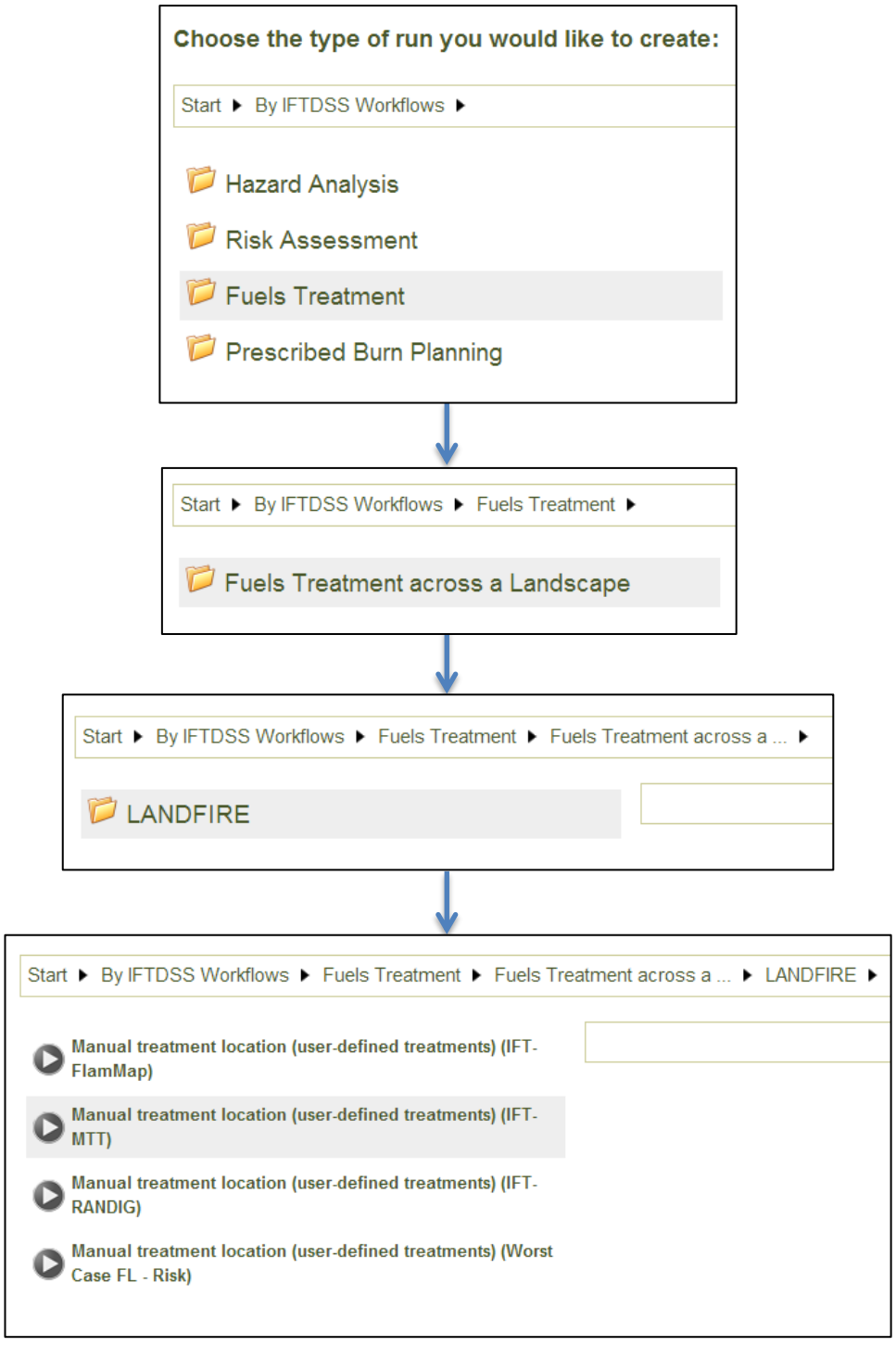
IFTDSS Workshop

Handout 8: Fuels Treatment – Minimum Travel Time

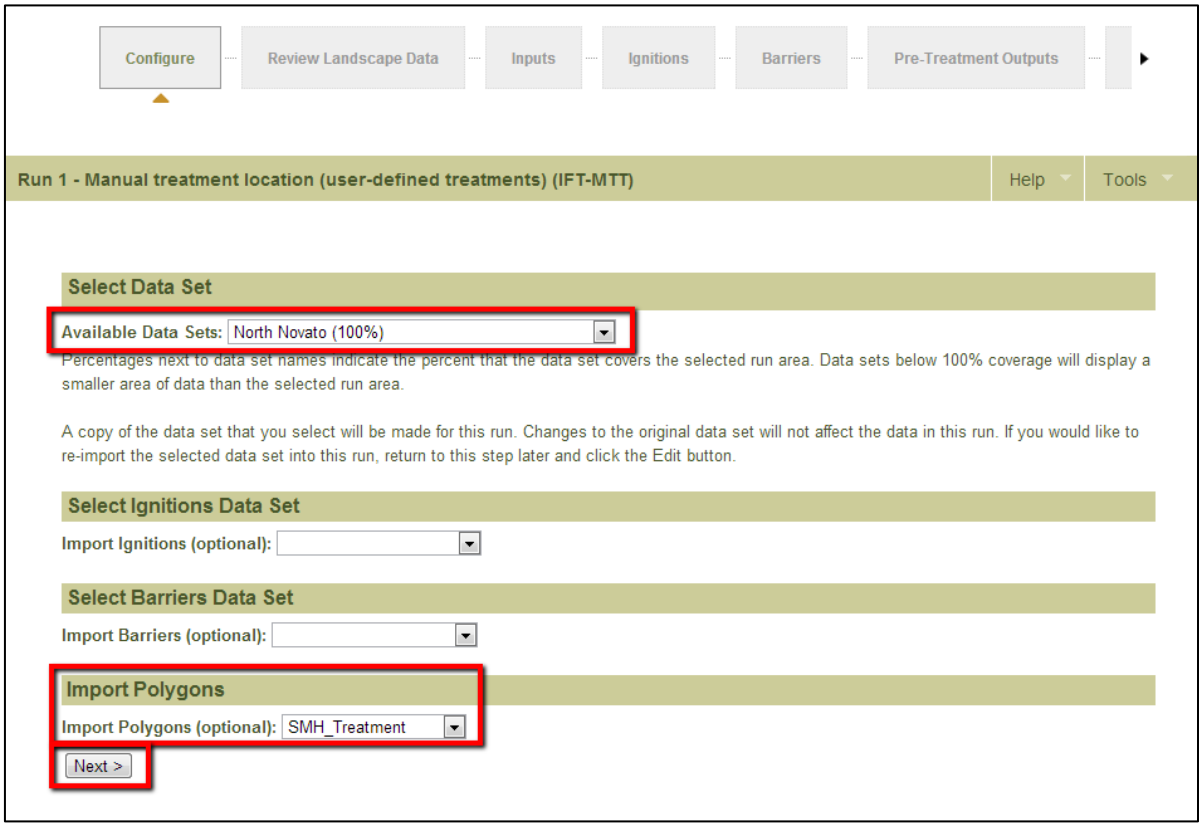
1. From the Project Summary page, click on **Create New Run**.



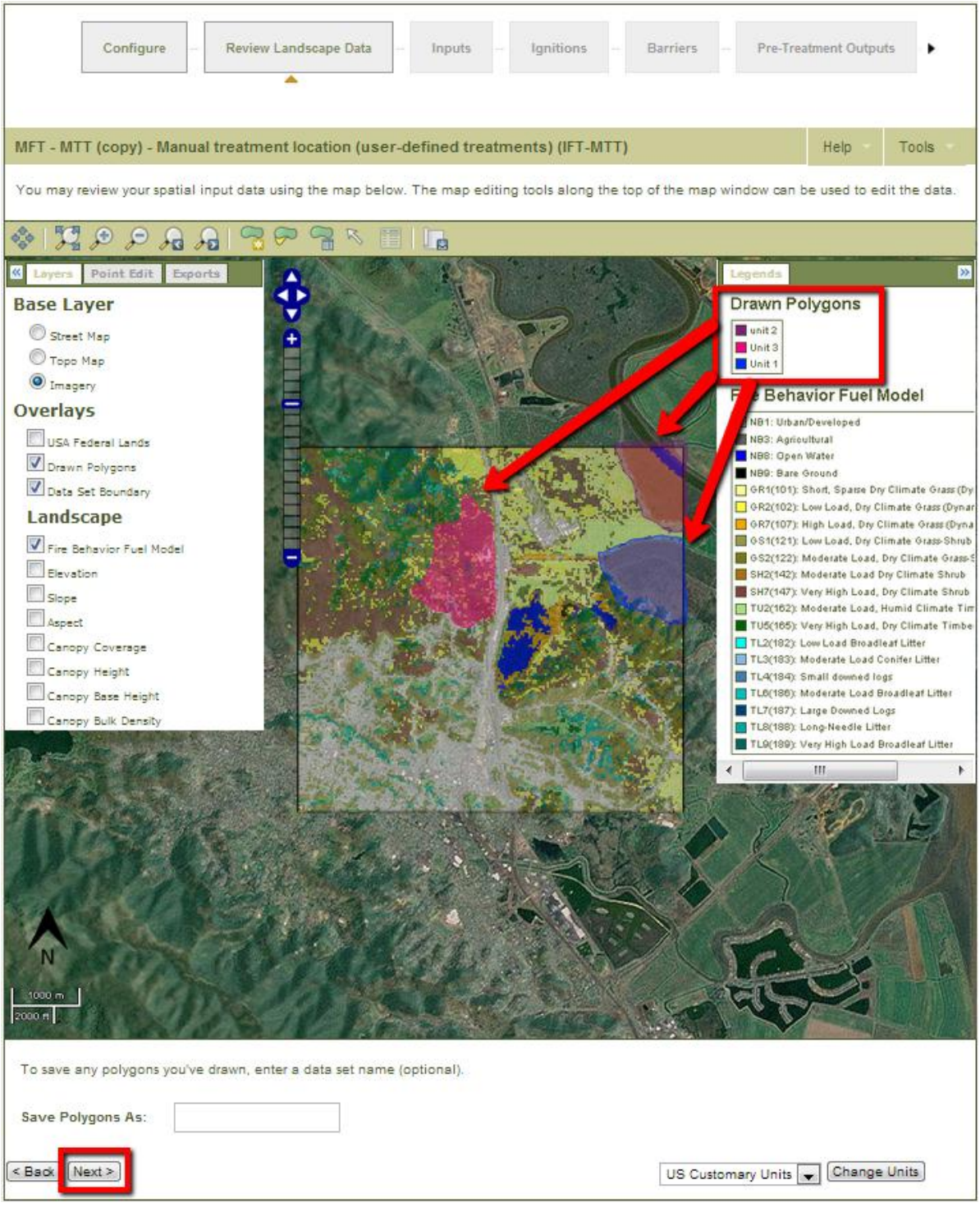
2. Select the **Fuels Treatment** workflow, then select **Fuels Treatment Across a Landscape**, select **LANDFIRE**, and finally select the **Manual treatment location (user-defined treatments) (IFT-MTT)** pathway.



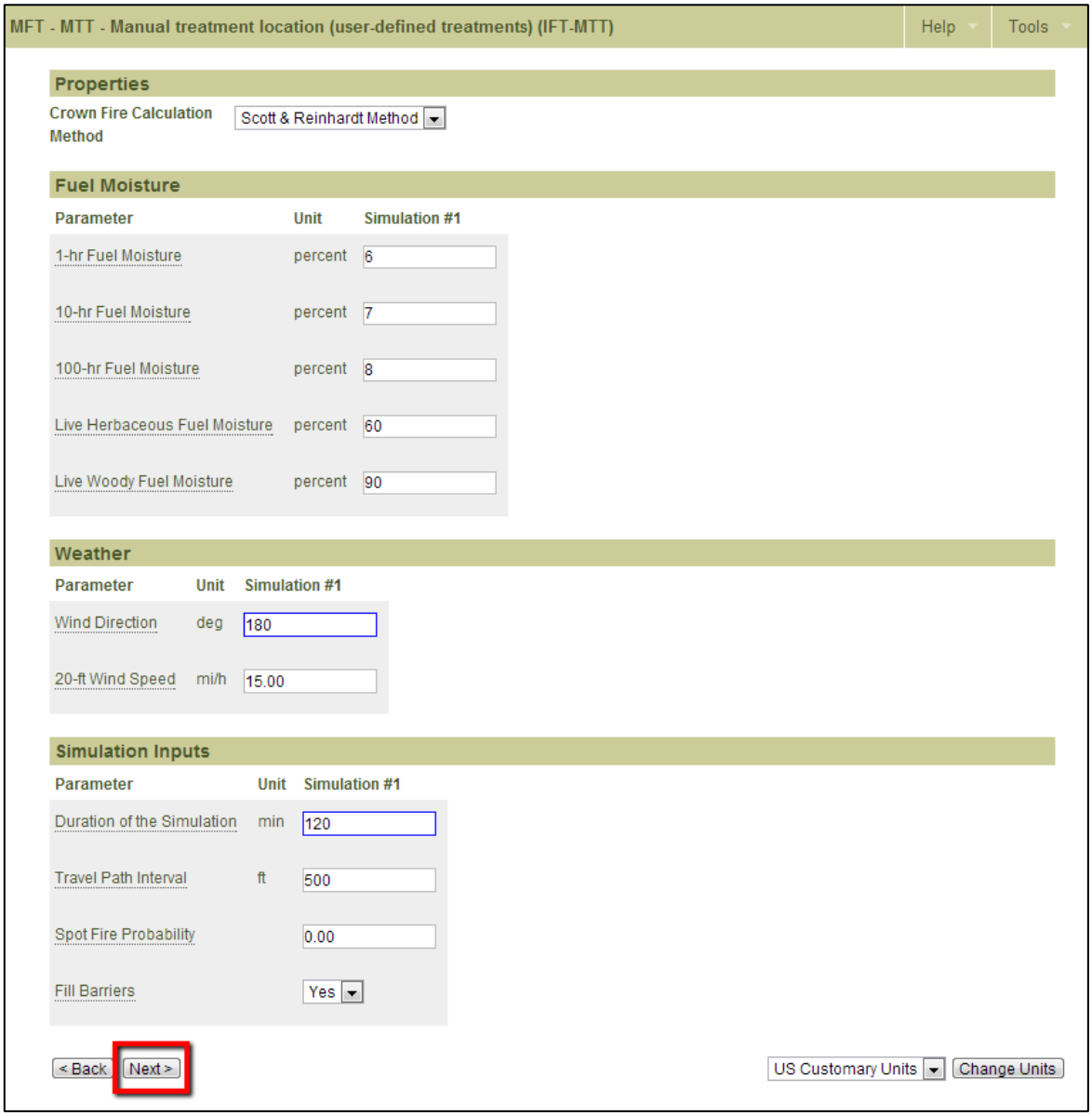
3. On the Configure screen, select the landscape data set that was used in the previous fuels treatment (IFT-FlamMap) exercise. Under the Import Polygons section, select the polygon that you saved during the previous fuels treatment (IFT-FlamMap) exercise. Click **Next**.



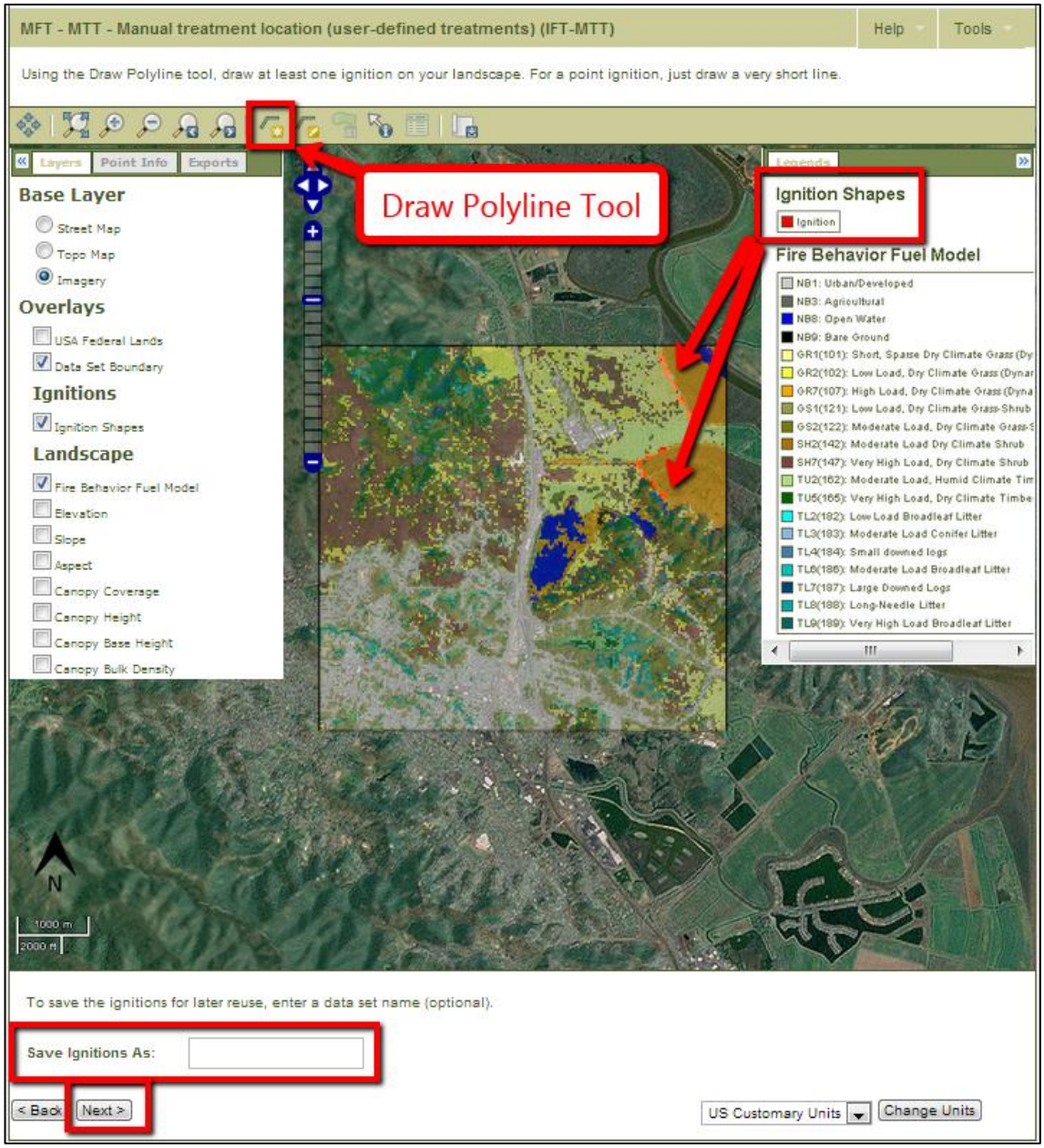
4. Review your spatial landscape data using the Overlays panel on the left. You should see the polygons that you imported in step 3 on the map displayed as drawn polygons. After reviewing your data, select **Next**.



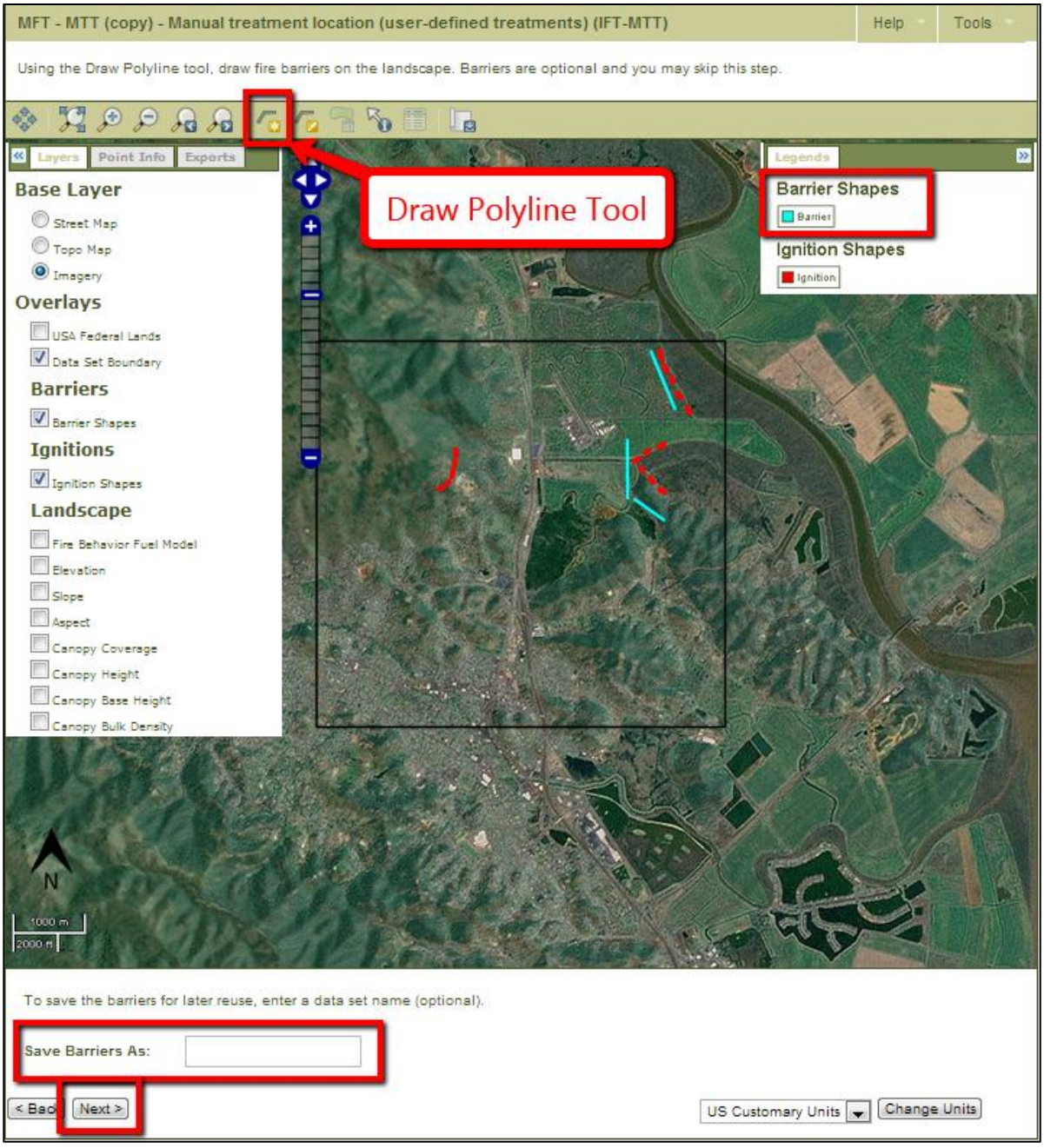
5. Now, you are on the Inputs step. Customize the IFT-MTT inputs and select **Next**.



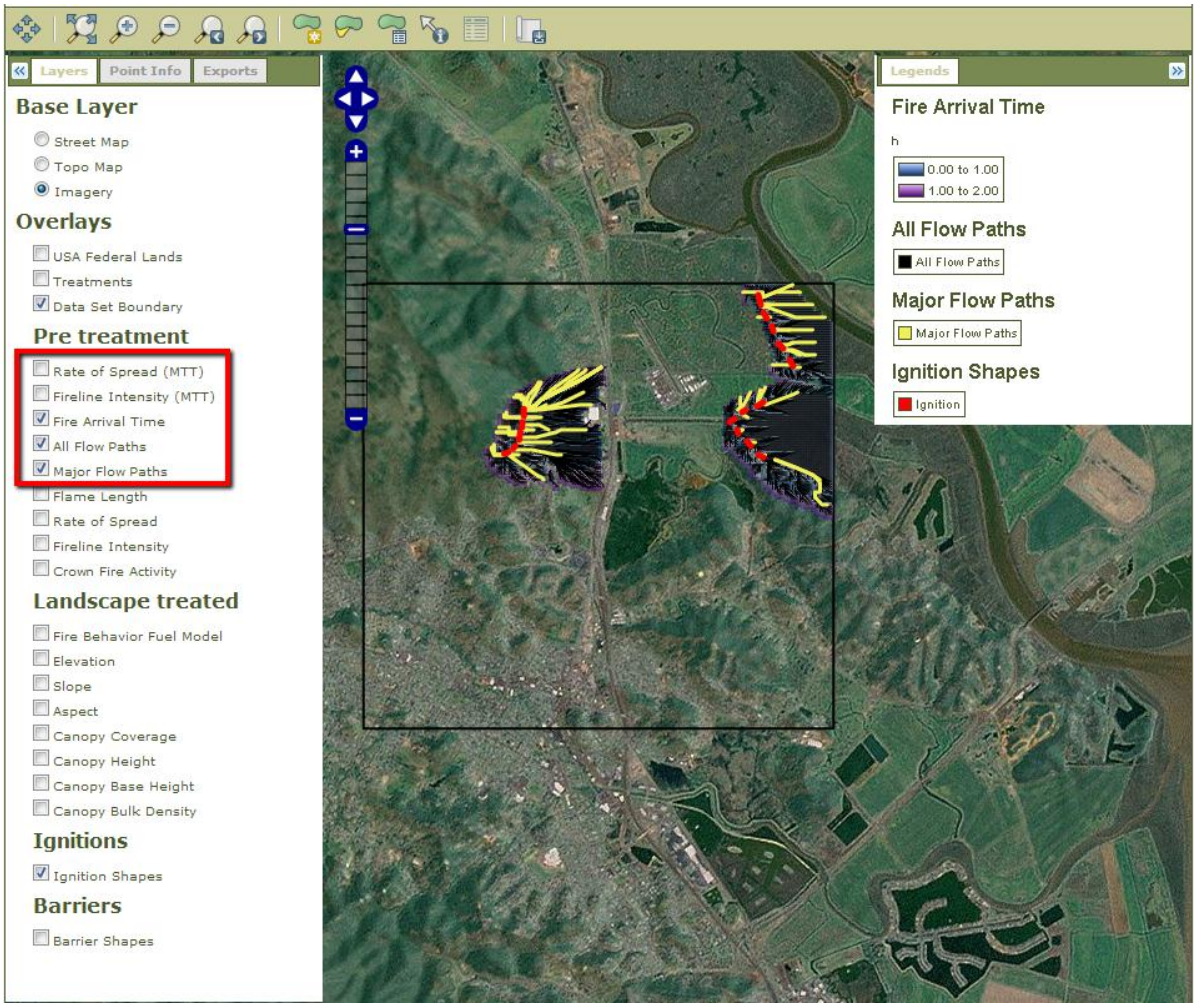
6. On the Ignitions step, draw at least one ignition on your landscape near the fuels treatment locations using the **Draw Polyline** tool.
    a. To draw a line, select the **Draw Polyline** tool, click on the map once, move to a different point, and click again. Continue clicking until you are done drawing the ignition. Double-click to finalize and create the polyline.
    b. You can draw multiple ignitions across the landscape. For a point ignition, just draw a very short line.
    c. When all ignitions are drawn, you can save the ignitions by assigning them a name in the **Save Ignitions As:** space below the map. After saving the ignitions, you can use them in different IFT-MTT runs. Select **Next** to save ignitions and continue.



7. Now, you are on the Barriers step. Use the same method as you did for drawing ignitions to draw barriers. Barriers are optional; you may skip this step. When all barriers are drawn, you can save the barriers by assigning them a name in the **Save Barriers As:** space below the map. After saving the barriers, you can use them in different IFT-MTT runs. Select **Next** to save barriers and continue.

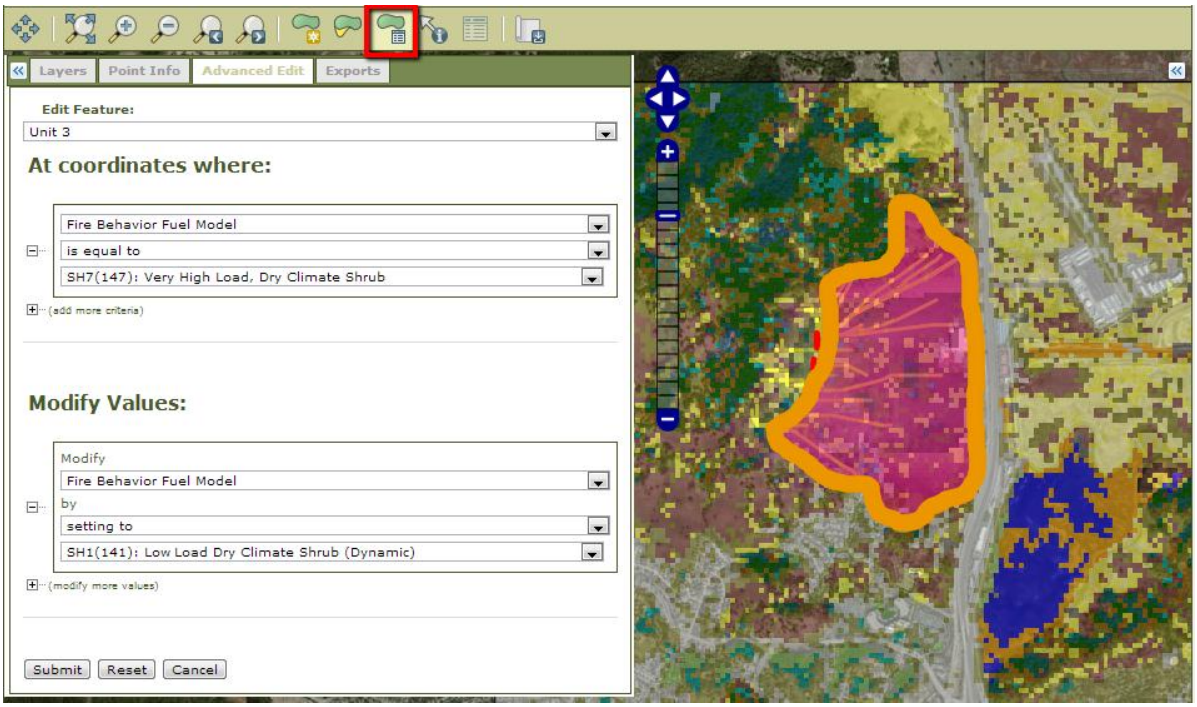


8. On the Pre-Treatment Outputs step, you can review MTT outputs, including fire arrival time, flow paths, rate of spread (MTT), and fireline intensity (MTT), as well as fire behavior outputs and landscape data.



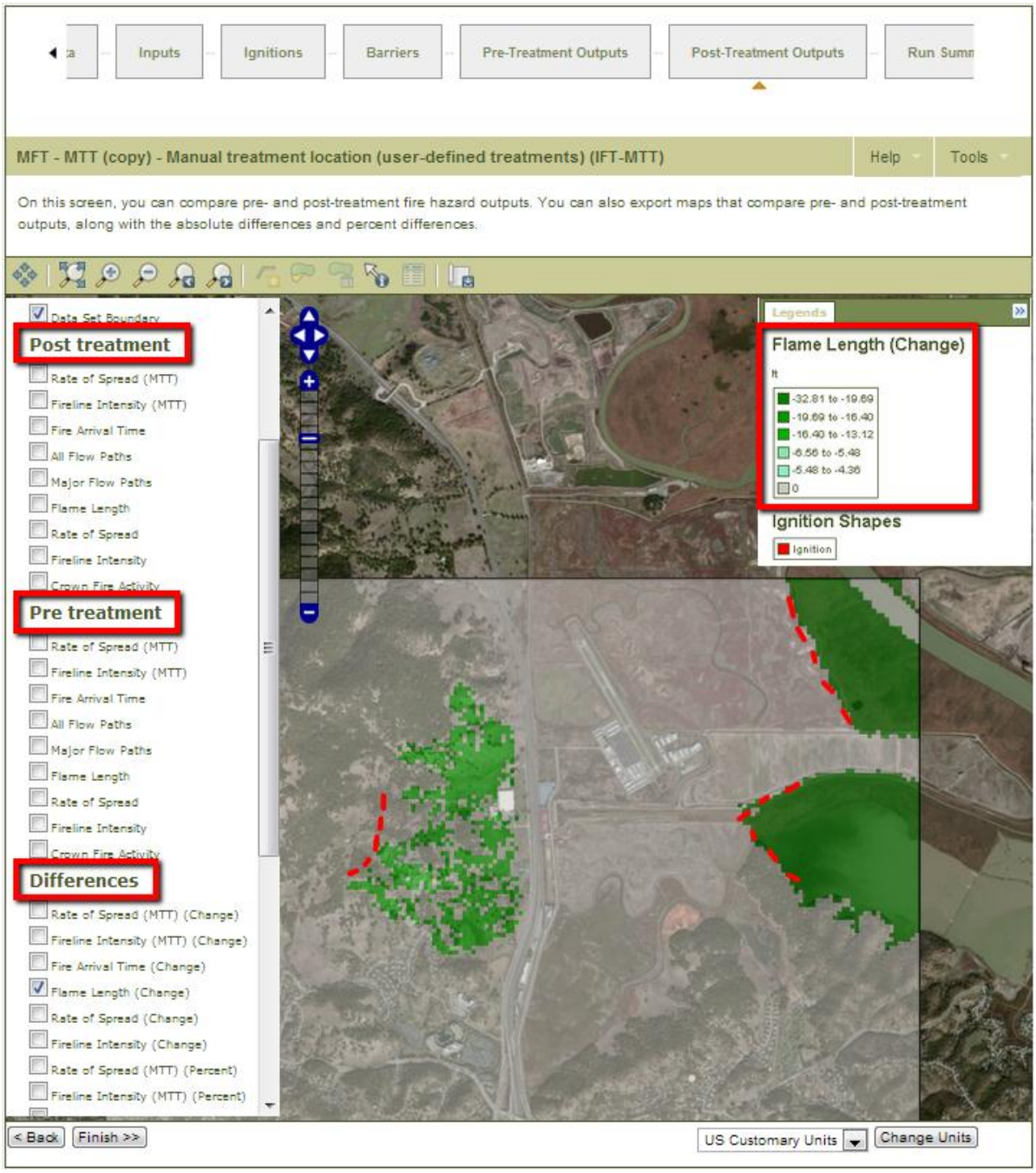
9. Next, turn on the Treatments layer, and select the **Polygon Advanced Edit** tool from the toolbar.

   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, and the Advanced Edit panel appears.
   - 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.



10. Repeat Step 9 until you are done editing your fuels treatment polygons. Select **Next** to continue.

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



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