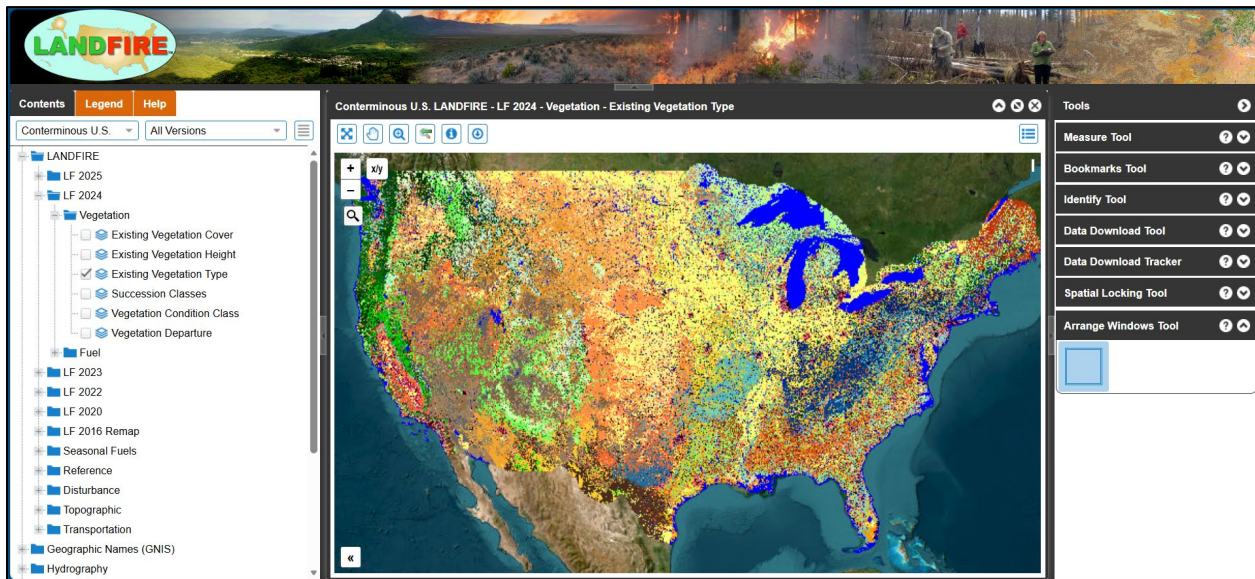








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



LANDFIRE Map Viewer User Guide

These instructions provide a brief overview of how to interact with the LANDFIRE Map Viewer. The menu bar pictured below has several tools to help you utilize LANDFIRE (LF) products. LF users can also find help with the viewer by visiting the [Map Viewer Tutorials](#).

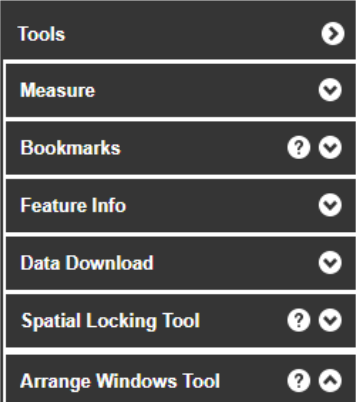
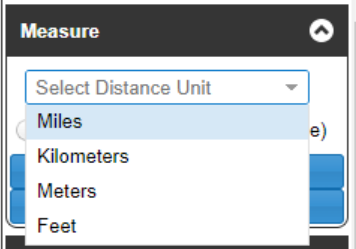
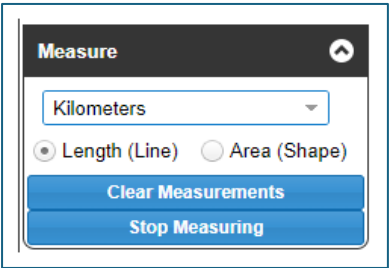


Icon	Description
	<p>Zoom to Extent - allows users to zoom out to the full extent of the selected extent in the viewer.</p>
	<p>Pan Tool - allows users to pan the map.</p>
	<p>Drag Zoom Tool - allows users to draw a box and zoom to that area of interest.</p>
	<p>Zoom to Previous Extent - allows user to zoom out to the previous extent the user was viewing in the window.</p>

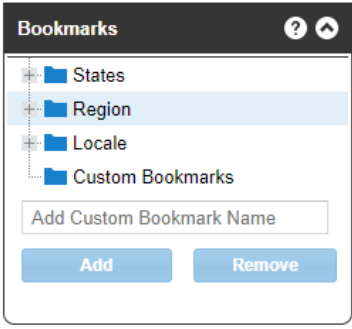
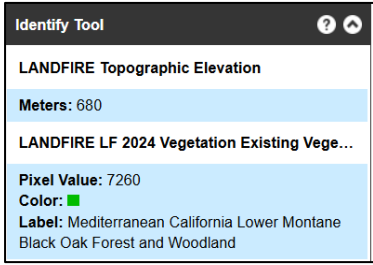



Icon	Description
	<p>Identify - allows the user to click anywhere on the map to display elevation, legend color, and description for a specific point based on the raster layers currently displayed, and imagery source information.</p>
	<p>Data Download Tool - activates the panel so the user can select one of four options to download an area of interest: draw a box or polygon, download area by template, or use a JSON file.</p>
	<p>Zoom In - used to enlarge a portion of the map. One can either click on this icon or use the mouse's wheel option to zoom into an area on the map. Once zoomed in, use the mouse to scroll the map to left or right to get the exact area desired.</p>
	<p>Zoom Out - used to minimize a portion of the map. One can either click on this icon or use the mouse's wheel option to zoom out of an area on the map. Once zoomed out, use the mouse to scroll the map to left or right to get the exact area desired.</p>
	<p>Search - allows the user to zoom to a specific location using an OpenStreetMap text search. Use various combinations of city names, county names, state names and/or "to and from" locations.</p>
	<p>Latitude/Longitude Search – allows the user to zoom to a specific location using latitude longitude. Use various options such as zoom to current location (DMS), or search with decimals. Users must click the item in the list that displays when coordinates are entered.</p>
	<p>Overview Map - displays a small map. The gray box represents the area on the main map that is currently visible. Clicking on the gray box and dragging it will move the viewable area on the main map.</p>
	<p>New Window/ Add WMS Layer: allows the user to open another map window or add a Web Map Service (WMS) layer.</p>
	<p>Legend - displays the legend for the current product layer being shown on the map.</p>




Icon	Description
	<p>Tools Panel - can be found on the right side of the viewer. Expand the carrot icon to display the menu of tools available. See descriptions for each tool below.</p>
	<p>Measure - has a selection of four options for distance unit. Two measuring tools are then activated by clicking on the map.</p> <p>Select Distance Unit - allows the user to select the type of unit to measure the distance.</p> <p>Length (Line) - allows the user to draw a line by clicking on a point on the map to anchor the starting point, then move the mouse and click on the map to the final point. Double-click the mouse to complete the line.</p> <p>Area (Shape) - allows the user to draw a polygon by clicking on a point on the map to anchor the polygon, then move the mouse and click on each corner point of the polygon. Double-click the mouse to complete the polygon.</p>
	<p>Clear Measurements - allows the user to clear all the measurements displayed on the map.</p> <p>Stop Measuring - allows the user to stop calculating measurements.</p>



Icon	Description
	<p>Bookmarks - predefined locations that can be selected to quickly view a particular area or region on the map. The four options within this panel are shown below.</p> <p>States Bookmarks - choose one of the links to the 50 states within the United States to zoom to that selected state.</p> <p>Region Bookmarks - choose one of the links to a region within the United States to zoom to that region.</p> <p>Locale Bookmarks - chose one of the links to a city within the United States to zoom to that city.</p> <p>Custom Bookmarks - add a bookmark for your area of interest to be able to return to the location again.</p> <p><i>NOTE: If you clear your cache in your browser, you will lose the custom bookmarks.</i></p>
	<p>Identity Tool - When selecting the Identify Tool  information retrieved from that tool appears in this panel.</p> <p>Elevation - If the Topographic Elevation dataset is selected, a point click on the map will return the elevation in meters to this panel.</p> <p>Product Name - The Identify Tool will return the name of the current product layer being viewed on the map to this panel.</p> <p>Pixel Value, Color and Label - The legend color and description for a specific point, based on the product layers currently displayed, will appear in this panel.</p>



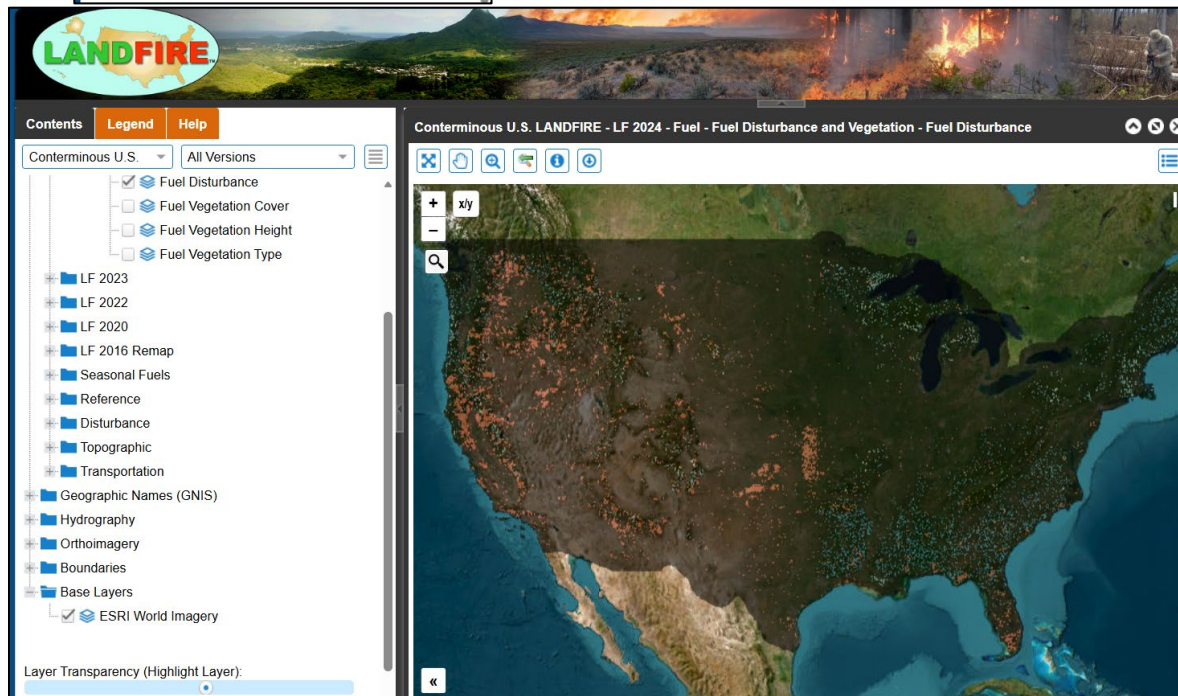
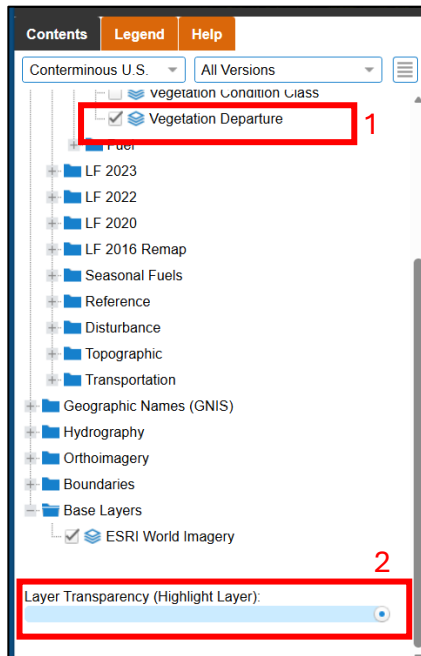
Icon	Description
<div data-bbox="214 457 584 1461" style="border: 1px solid black; padding: 5px;"> <p>Data Download Tool</p> <p>Method: <input type="text" value="Template"/></p> <p>Select Template <input type="text" value="County Boundaries"/></p> <p>Select Projection <input type="text" value="NAD 1983 Albers (Stan)"/></p> <p>Select Products: <input type="text" value="All Versions"/></p> <ul style="list-style-type: none"> <input type="checkbox"/> LF 2024 <input type="checkbox"/> LF 2023 <input type="checkbox"/> LF 2022 <input type="checkbox"/> LF 2020 <input type="checkbox"/> LF 2016 Remap <p>Latitudes (dd): Top Latitude: <input type="text" value="45.82422"/> Bottom Latitude: <input type="text" value="44.47442"/></p> <p>Longitudes (dd): Left Longitude: <input type="text" value="-96.36861"/> Right Longitude: <input type="text" value="-94.88678"/></p> <p>Email: <input type="text"/></p> <p><input type="button" value="Clear"/> <input type="button" value="Download"/></p> </div>	<p>Data Download - When a user uses the Data Download Tool  information retrieved from that map interaction appears in this panel.</p> <p>Method -</p> <ul style="list-style-type: none"> • Rectangle - User can draw a rectangle on the map for their area of interest to download. • Polygon - User can draw a polygon on the map for their area of interest to download. • GeoJSON - User can provide a GeoJSON, a format for encoding geographic data structures, for the area of interest to download. • Template - User can select a provided template to download product(s). <p>Select Projection - User to select from two projection options:</p> <ul style="list-style-type: none"> • NAD 1983 Albers (Standard Projection) • Best-Fit UTM (NAD83 Datum) <p>Select Products - Users can narrow down the product categories to view from this drop-down list. Once selected, a user can then choose from the product(s) from a list of LF data available to download.</p> <p>Latitudes - The values correspond to minX, maxX (Latitudes) and minY, maxY (Longitudes). Users can manually input these coordinates to define a specific bbox they would like to use. This only displays on the Rectangle draw style after an initial bbox has been drawn.</p> <p>Email - User provides an email where the zipped download is to be sent. Along with the zip download, a GeoJSON is included in all downloads to be able to repeat the same Area of Interest (AOI).</p>



Transparency Tool

Changing the transparency of each layer allows two or more layers to be simultaneously visible.

Select a data set, then select the **Layer Transparency (Highlight Layer)** to decrease or increase the opacity of the data set layer on the map.

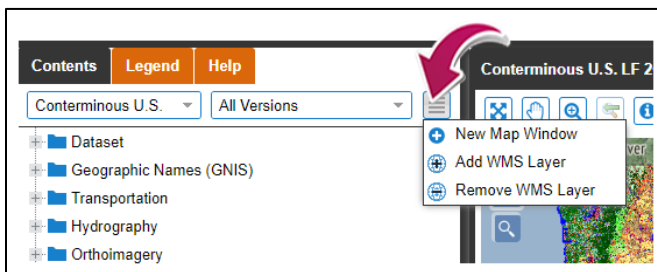




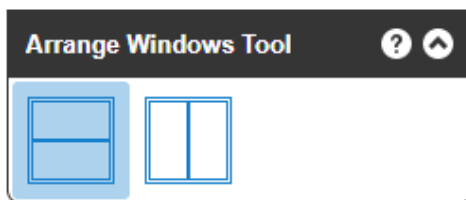
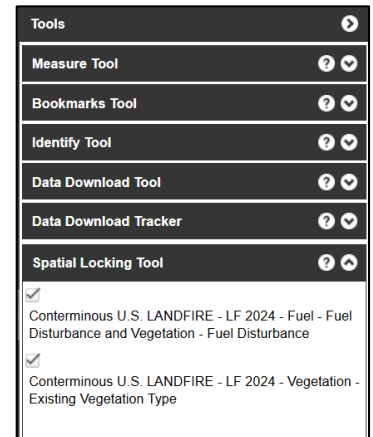
New Map Window, Spatial Locking Tool and Arrange Windows Tool

This tool allows the user to spatially lock multiple map windows. When two or more windows are visible, users can click the checkbox of each dataset window they want synced. Once checked, moving around spatially in one of the checked windows will automatically move all other checked windows in unison. To be able to use the Spatial Locking Tool:

- Select **'New Map Window'** from the drop-down menu in Table of Contents window
 - Then select a dataset to display inside this New Map Window. By default, it will populate the new window with the current layer selected in the Contents tab.



- Select layers in **Spatial Locking Tool** panel from the Tools sidebar to the right of the screen:
 - Select which datasets to compare from the checkboxes in the panel. The selected datasets will then be locked to the same coordinates.
- Select layout option in **The Arrange Windows Tool** panel. This will allow the user to align multiple windows and view simultaneously.





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The screenshot displays a web-based GIS application interface. It features two map panes on the left and a tools panel on the right. The top-left pane is titled "Conterminous U.S. LANDFIRE - LF 2024 - Fuel - ..." and shows a map of the United States with a dark, textured overlay representing fuel. The top-right pane is titled "Conterminous U.S. LANDFIRE - LF 2024 - Vegeta..." and shows the same map with a colorful, multi-layered overlay representing vegetation. Both panes include standard GIS navigation tools like zoom in (+), zoom out (-), and search (magnifying glass). The right-hand tools panel is titled "Tools" and contains several tool categories: "Measure Tool", "Bookmarks Tool", "Identify Tool", "Data Download Tool", "Data Download Tracker", and "Spatial Locking Tool". Under "Spatial Locking Tool", there are two checked items: "Conterminous U.S. LANDFIRE - LF 2024 - Fuel - Fuel Disturbance and Vegetation - Fuel Disturbance" and "Conterminous U.S. LANDFIRE - LF 2024 - Vegetation - Existing Vegetation Type". At the bottom of the tools panel is the "Arrange Windows Tool" with a window management icon.