Montana Lidar Inventory

Help Document

Through the Montana Lidar Inventory, users can view, download, and request lidar data throughout Montana.

Use the Viewer to:

- Find (filter) lidar projects based on:
  - Downloadable Data v. Request Only v. Not at the Montana State Library
  - Project Status (completed, in-progress, planned), Recent Collections (<5 years), and Quality Level
  - Availability of contours and building footprints
- View lidar-derived products, including bare-earth DEM, surface DEM, intensity, hillshade, slope, aspect
- Download and request lidar data
- Search by Address, Save and print maps, Identify elevations, and Measure distances and areas
- Compare various GIS layers using a Swipe Tool.

Submit a GeoInfo Support Ticket here: https://msl.mt.gov/Geosupport

This application was developed by the GIS programmers at the Montana State Library with support from the USDA- MT Natural Resources Conservation Service

MONTANA STATE LIBRARY LIDAR

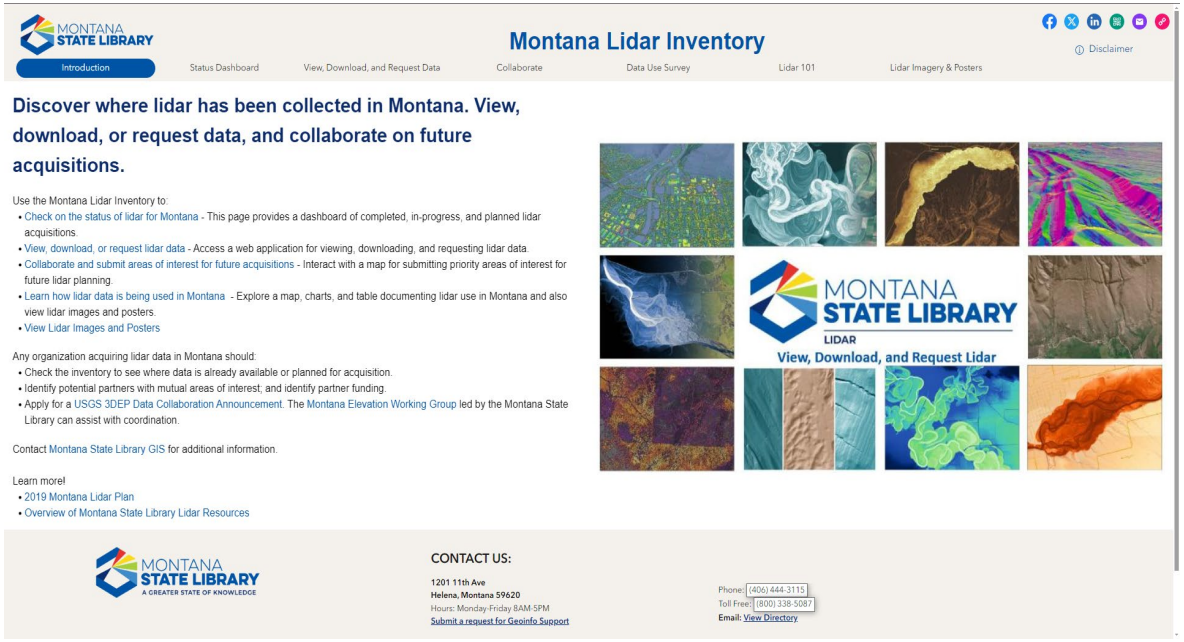
http://msl.mt.gov

Introduction to the Montana Lidar Inventory: View, Download, Request

This application was built using Esri's Experience Builder in ArcGIS Online. ArcGIS Online is a cloud-based environment for storing and managing geographic content. It enables users to create and share maps and explore data through a web browser.

Once you have navigated to the Montana Lidar Inventory through a web browser and opened the "View, Download, and Request" page, the application opens to a map of Montana with Lidar Project Area boundaries in the foreground. The currently available lidar is also displayed as a hillshade generated from the 1-meter, bare-earth digital elevation model. As you navigate to projects with lidar data available for download and zoom in, the Quads with Downloadable Lidar layer displays. Lidar-derived raster products may be downloaded for an entire project area or by Quad.

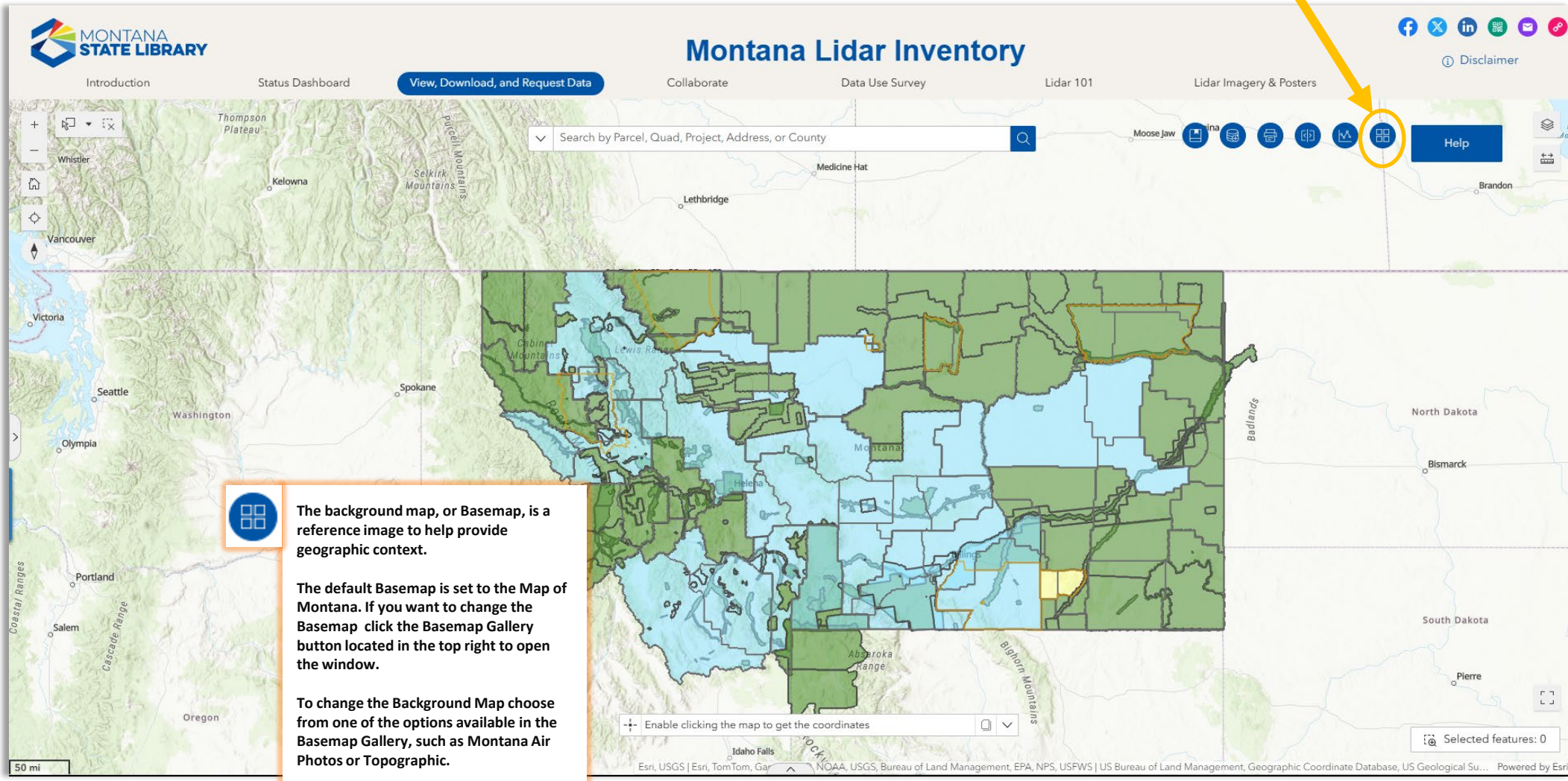
Help Document Outline



Step 1 – Selecting a Basemap

Click on this icon to open the Basemap Gallery

Back to Outline



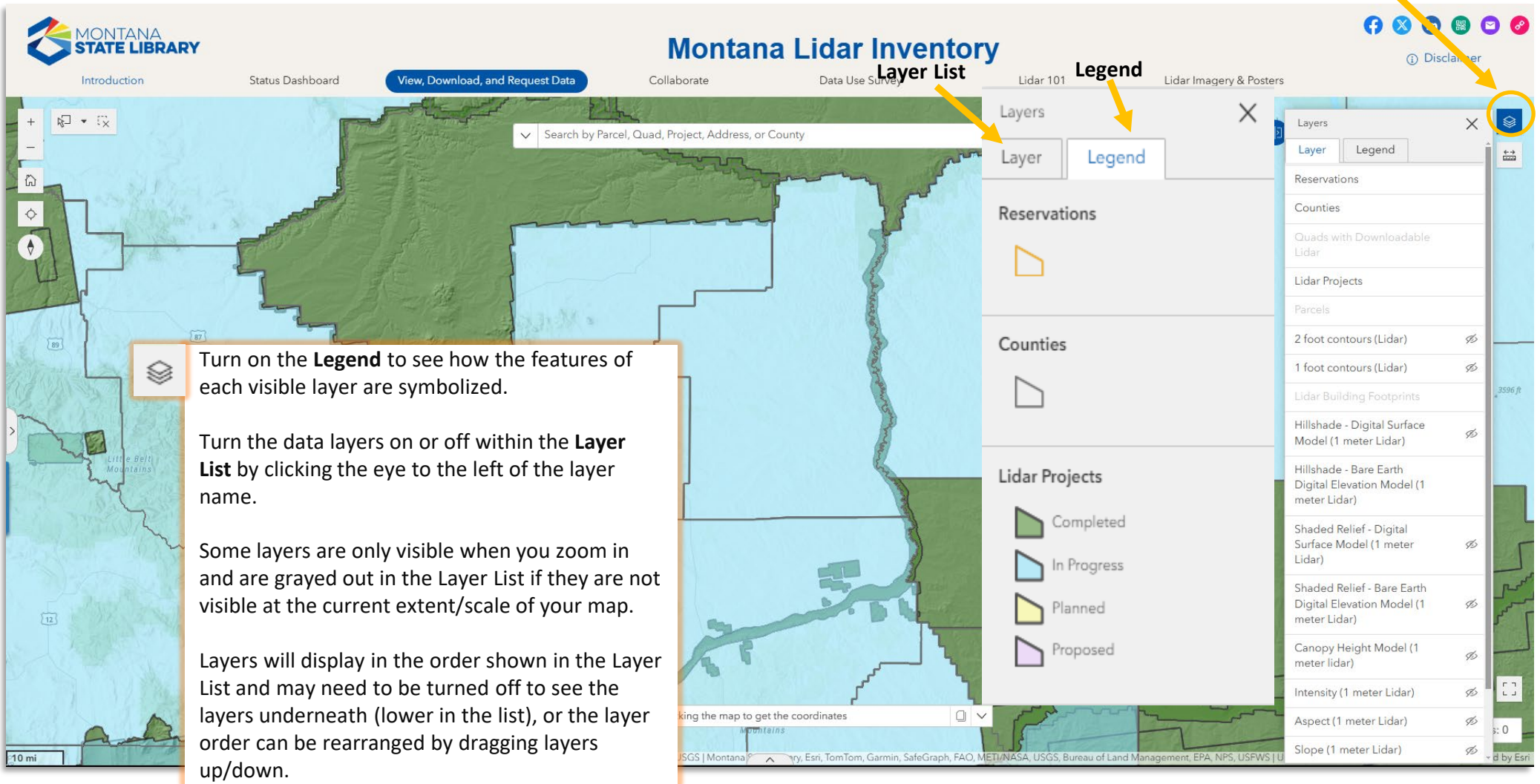
The background map, or Basemap, is a reference image to help provide geographic context.

The default Basemap is set to the Map of Montana. If you want to change the Basemap click the Basemap Gallery button located in the top right to open the window.

To change the Background Map choose from one of the options available in the Basemap Gallery, such as Montana Air Photos or Topographic.

Once you've made a basemap selection, click the x or the Basemap Gallery button to hide the window.

Step 2 – Viewing the Data Layers and Legend



Turn on the **Legend** to see how the features of each visible layer are symbolized.

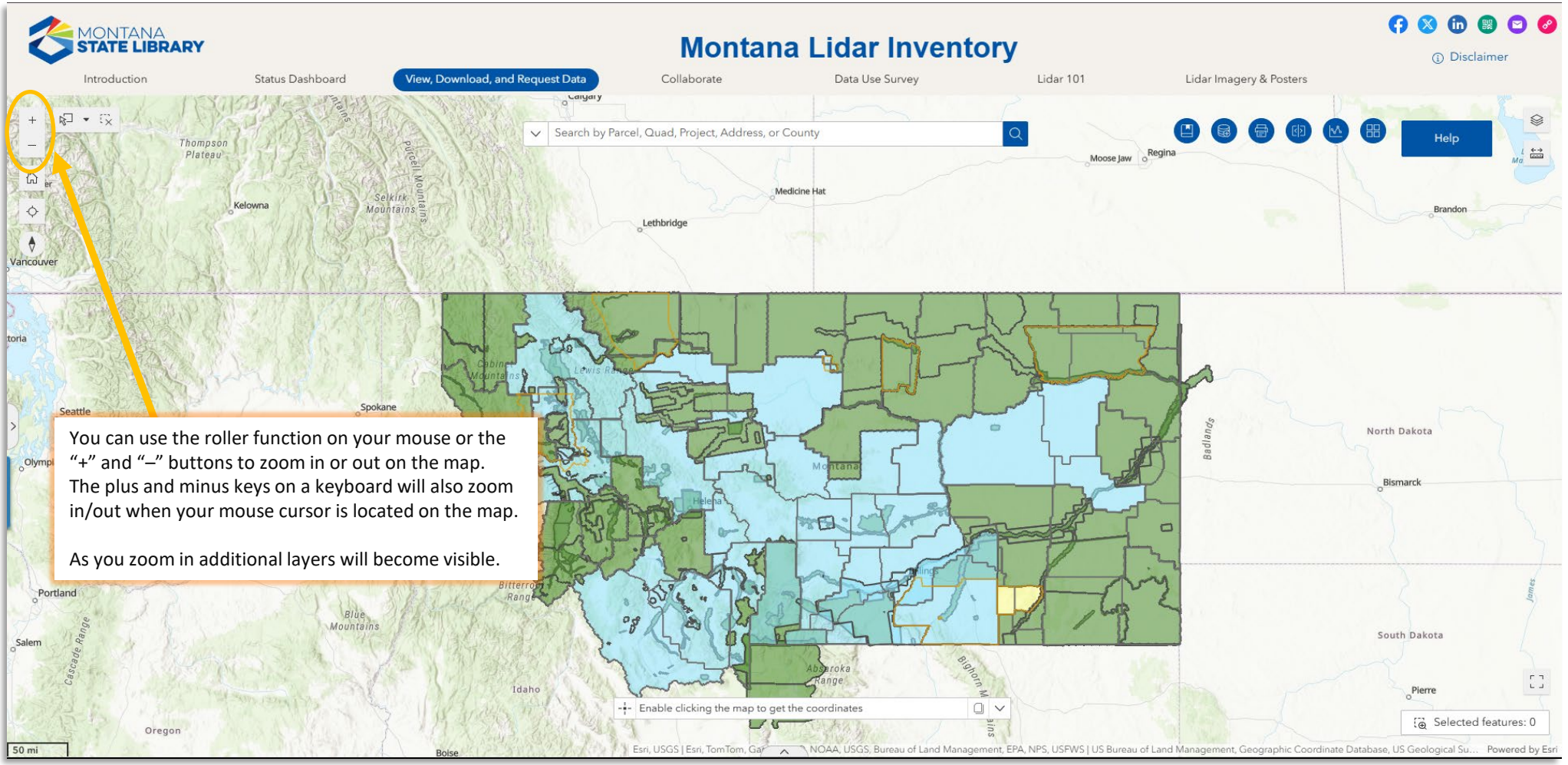
Turn the data layers on or off within the **Layer List** by clicking the eye to the left of the layer name.

Some layers are only visible when you zoom in and are grayed out in the Layer List if they are not visible at the current extent/scale of your map.

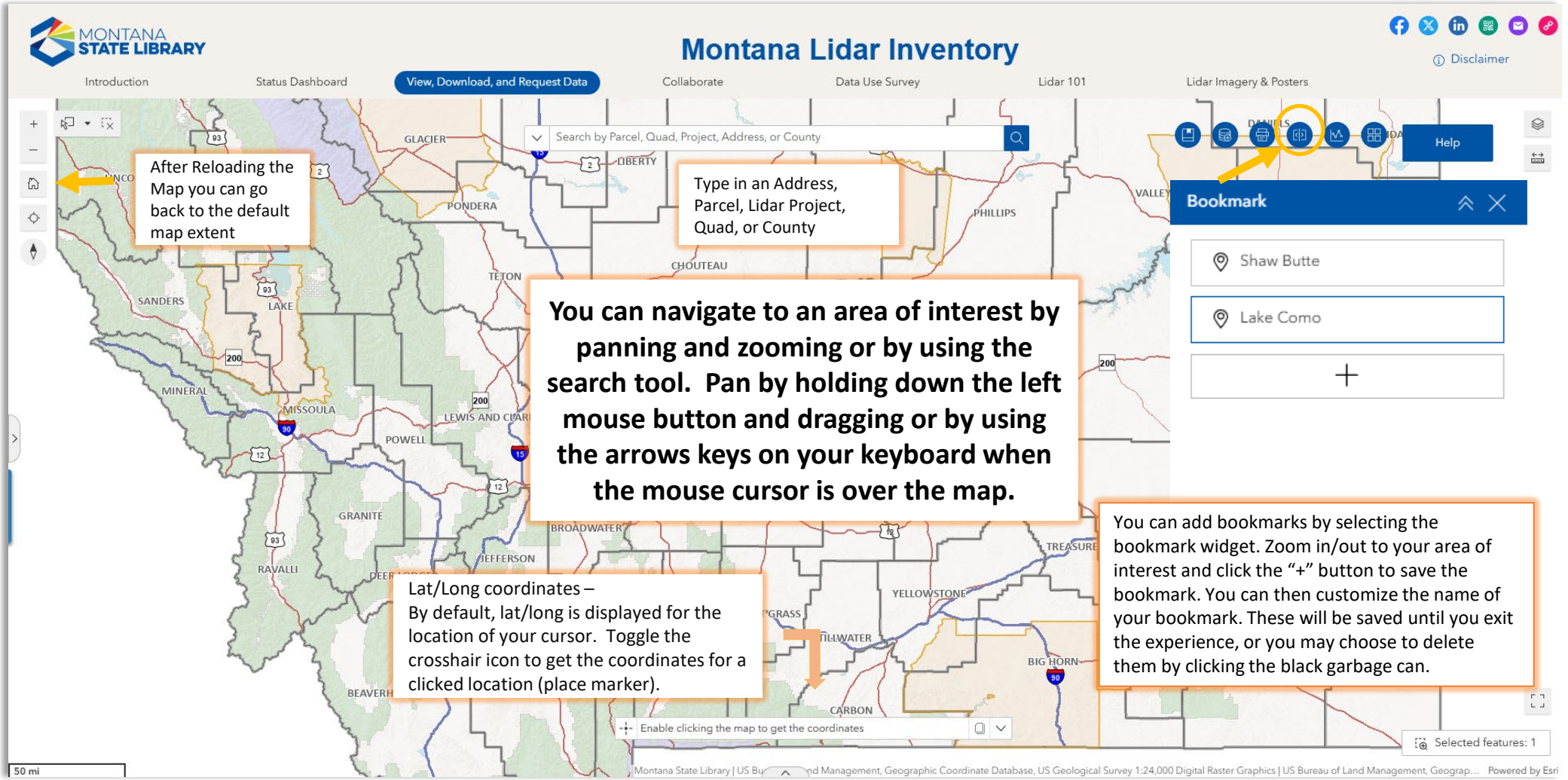
Layers will display in the order shown in the Layer List and may need to be turned off to see the layers underneath (lower in the list), or the layer order can be rearranged by dragging layers up/down.

Step 3 – Changing the map extent – Zooming in or out

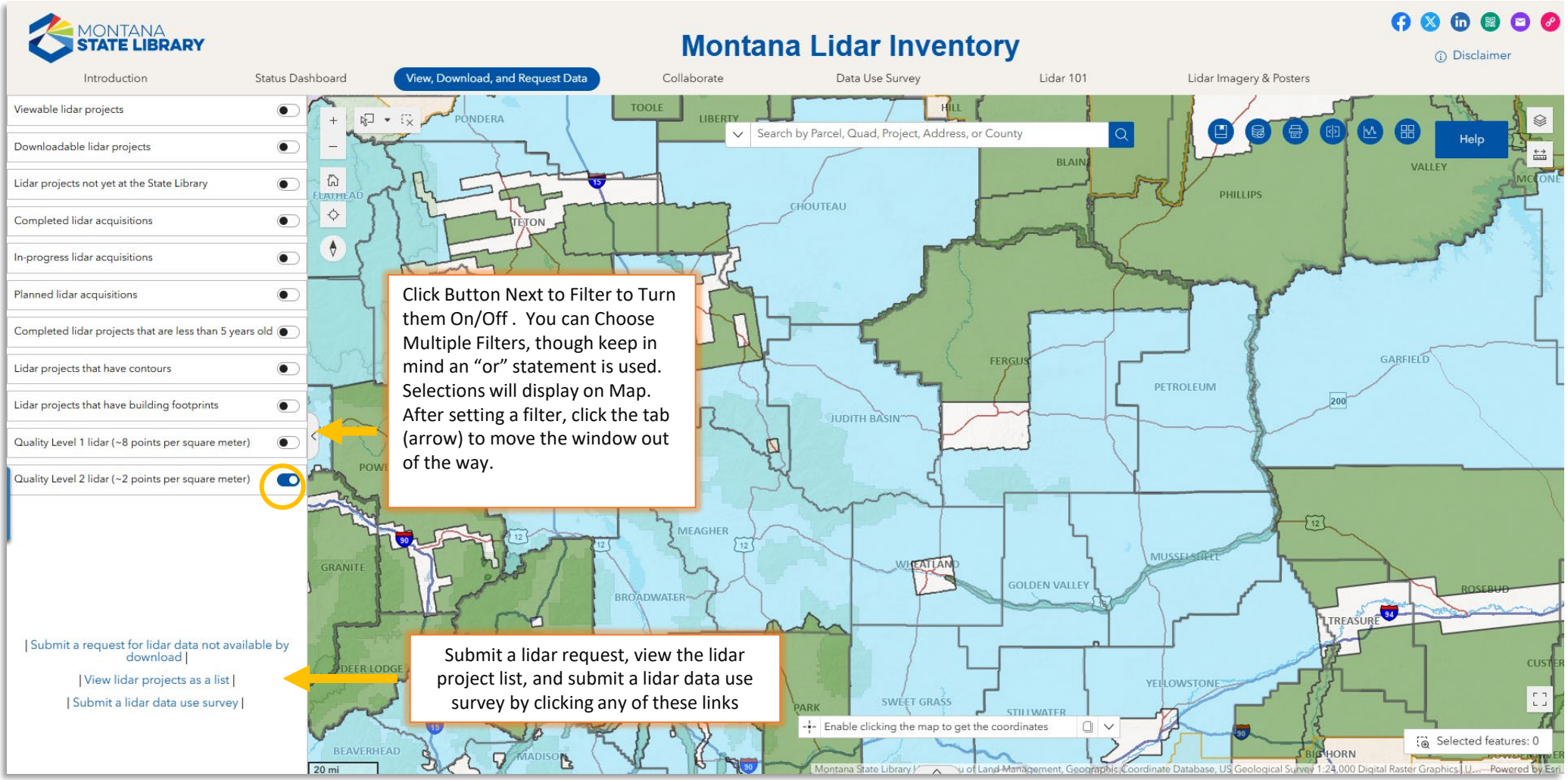
Back to Outline



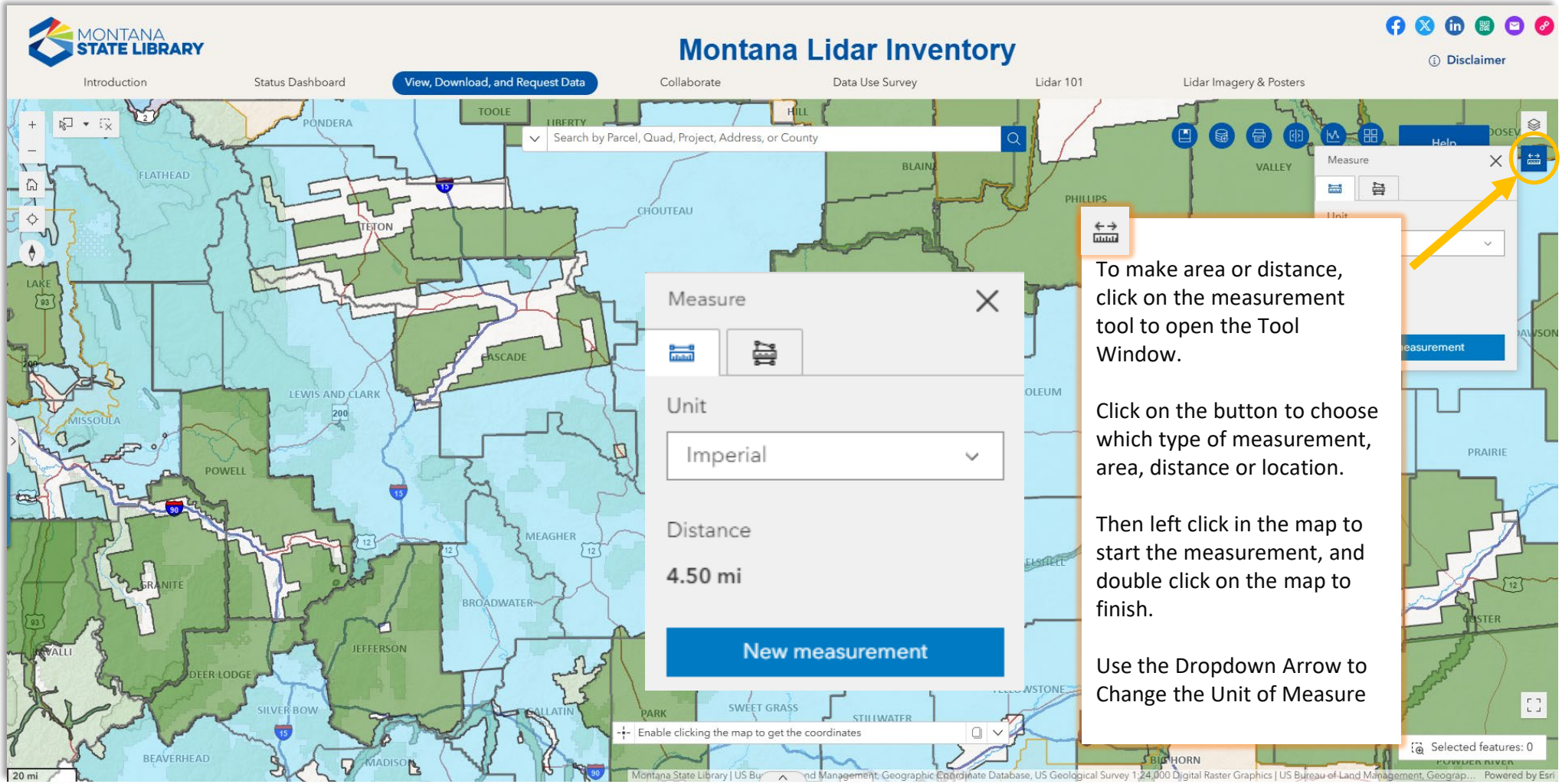
Step 4 – Navigating to an area of interest, searching, coordinates, and bookmarks



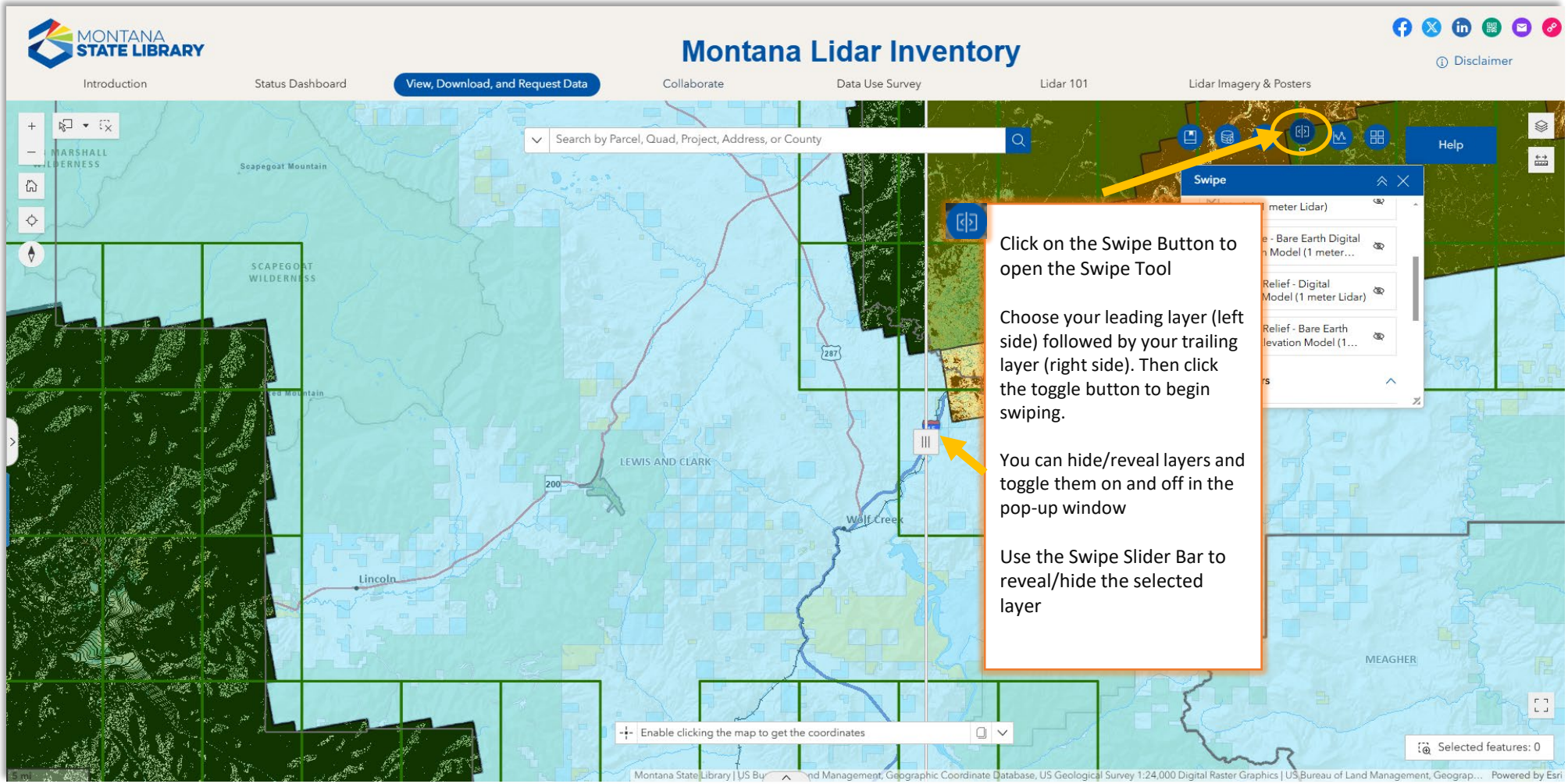
Step 5 – Filters



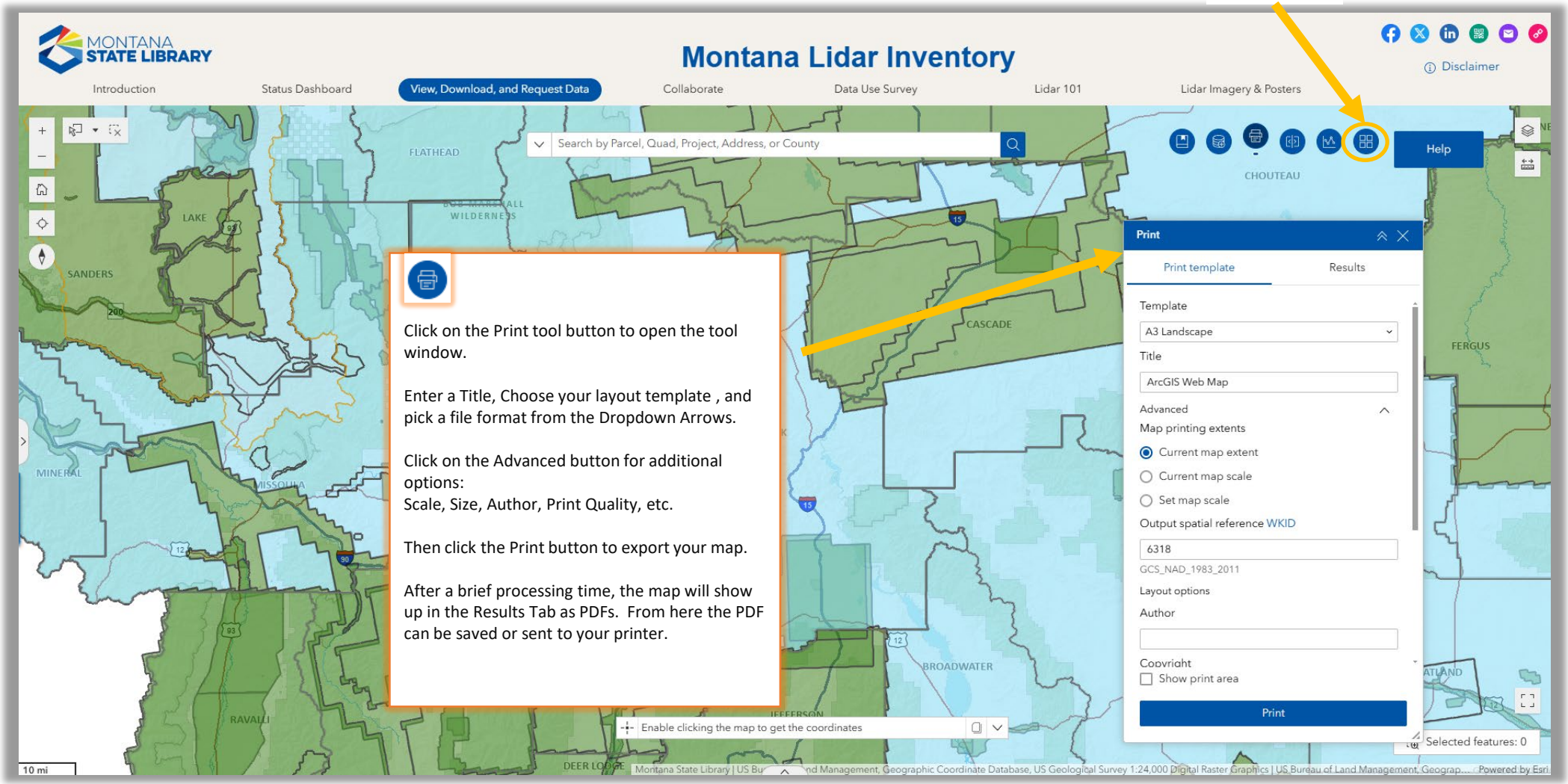
Step 6 – Tools: Measuring



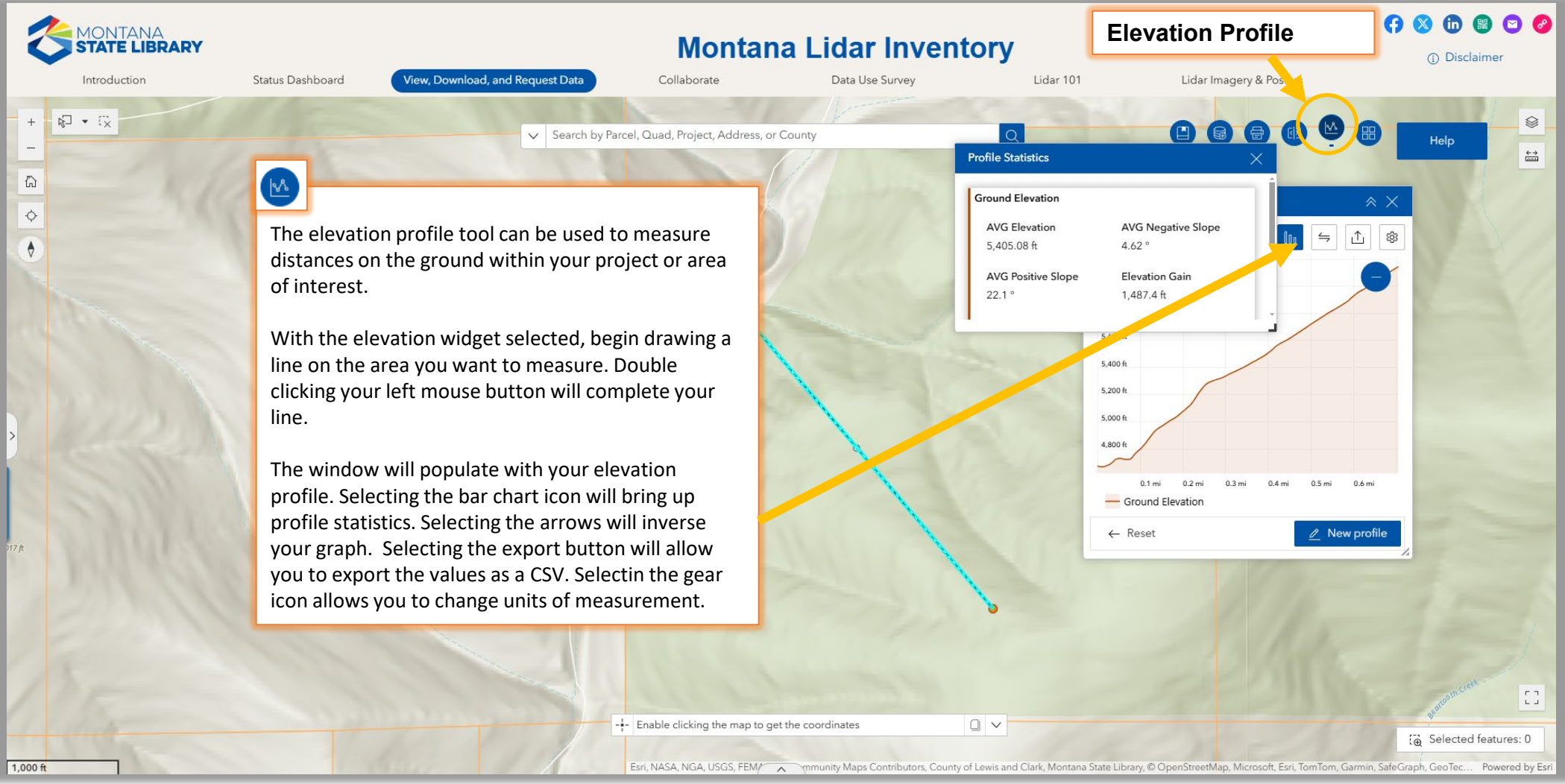
Step 7 – Tools: Swipe



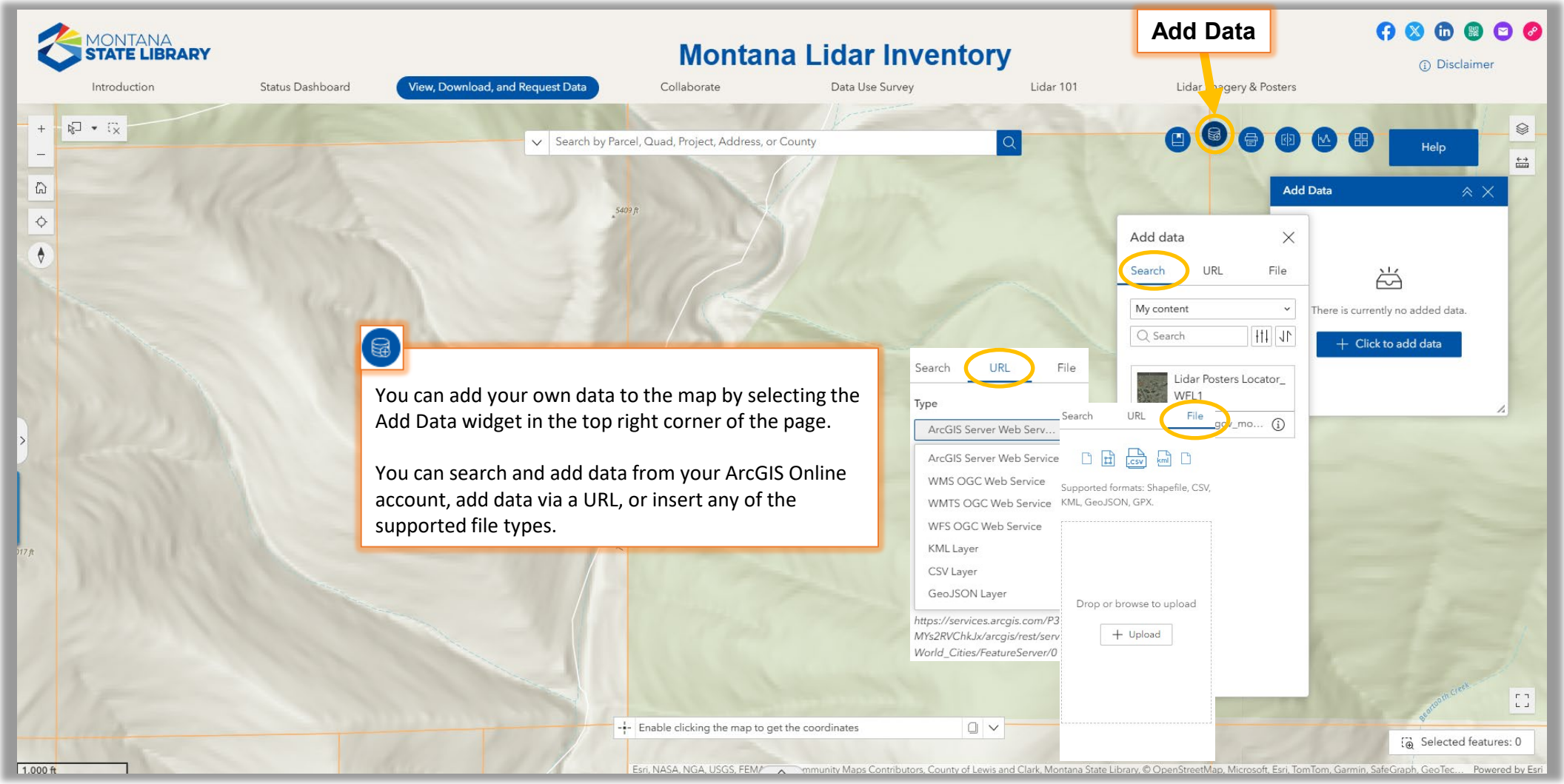
Step 8 – Tools: Printing



Step 9 – Tools: Elevation Profile

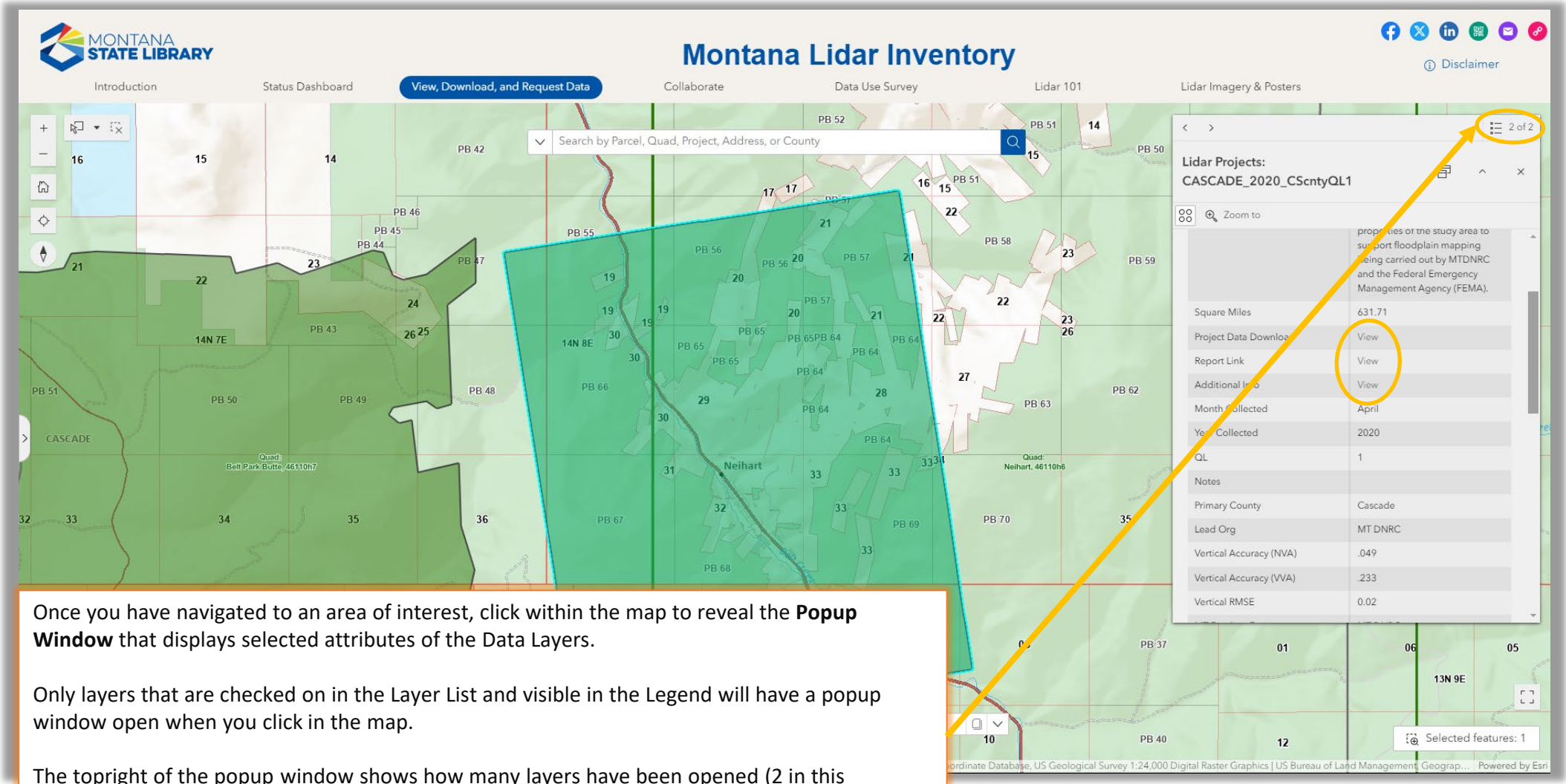


Step 10 – Tools: Add Data



Step 11 – Identifying Features and Downloading Data

Back to Outline



Once you have navigated to an area of interest, click within the map to reveal the **Popup Window** that displays selected attributes of the Data Layers.

Only layers that are checked on in the Layer List and visible in the Legend will have a popup window open when you click in the map.

The topright of the popup window shows how many layers have been opened (2 in this example). If there are several layers visible, then click through the left and right arrows on the popup window (top left) to view information about the other visible layers.
Click on Links (“View”) in the Popup to Download Data or View Reports

Step 12 – Viewing Layer Attribute Tables