Ecological Site Reviewer

Help Document

The Ecological Site Reviewer (ESR) ArcGIS Online web-application was designed to provide access to viewing maps and attributes for basic environmental properties, ecological characteristics, and background reference information for sites throughout Montana.

Using the ESR the viewer can:

- Identify and review environmental characteristics of sites prior to conducting field work
- Locate representative sites for field data collection
- · Identify optimum navigation to selected sites
- Save and print maps, charts, and tables of selected sites and associated attributes.
- Provide input on data layers with the edit tool

The Ecological Site Reviewer was developed by the Montana NRCS and GIS programmers at the Montana State Library



https://nris.msl.mt.gov



https://msl.mt.gov





Natural Resources Conservation Service

https://www.nrcs.usda.gov/wps/portal/nrcs/mt/home

Introduction to the Ecological Site Reviewer

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This application was built using Esri's ArcGIS Online platform. 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. The Ecological Site Reviewer was built from a web map within the web-based ArcGIS Online application.

Click here to start using the <u>Ecological Site Reviewer</u>. Your web browser will open using ArcGIS Online to a map of Montana with a topographic map background and a display of the Montana Landcover in the foreground. Major highways and County boundaries will also be displayed for reference at the statewide scale. As you navigate to specific locations and zoom in, additional layers with greater detail will be displayed.

Help Document Outline

Step1 - Selecting a BasemapStep2 - Viewing the Data Layers and LegendStep3 - Changing the map extentStep4 - Navigating to an area of interest, searching, and bookmarksStep5 - Tools: MeasuringStep6 - Tools: SwipeStep7 - Tools: PrintingStep8 - Identifying FeaturesStep9 - Add a Marker, View Lat/Long, and get URL to share marker locationStep10 - Viewing Layer Attribute TablesStep11 - Viewing Related Table from PopupStep12 - Related Table ChartsExample UseProvide Input with the Edit ToolView Data Layers over time

https://msl.mt.gov/NRCS/SiteReviewer



Step 1 – Selecting a Basemap

Click on this icon to open the Basemap Gallery



Step 2 – Viewing the Data Layers and Legend



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

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



Step 5 – Tools: Measuring



Step 6 – Tools: Swipe



Step 7 – Tools: Printing



Step 8 – Identifying Features



Step 9 – Add a Marker, View Lat/Long, and get URL to share marker location



Step 10 – Viewing Layer Attribute Tables



Step 11 – Viewing Related Tables from Popup



Step 12 – Related Table Charts



Ecological Site Reviewer – Example Use

Scenario - I am headed to the field tomorrow in Township 2N Range 9E and need to know the characteristics of my study area, including slope, aspect, elevation, relative effective annual precipitation, soil type, and number of frost free days.

- Step 1 Open the Ecological Site Reviewer (ESR)
- Step 2 Click the Layer List button and turn on the layers of interest and turn off the layers not needed
- Step 3 Zoom and pan or search to find the study area. Type "2N 9E" in the Search Box and wait for the list of possible matches. Under PLSS Township, choose "2N 9E" and the map will zoom to that township.
- Step 4 Click on the map where you are interested in doing field work. The popup will return the values of the layers turned on in Step 2.





Provide Input with the Edit Tool

The Edit Tool allows users to markup where a revision to a layer may be needed. For example, a user may be doing field work in an area and determine that a soil map unit should be modified or that the ecological site or MLRA assignment should be changed. The user can draw a polygon and add a comment describing the modification needed. Others using the application will see the suggestion and agency partners can begin collaborating to make the change happen.



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View Layers Over Time

There are several layers in the Site Reviewer that are time-enabled. These Layers have a date range in their name, for example, USDA/NASS Cropland (2007 – 2020). Turn on the layer you are interested in looking at. Then, click on the Time Tool. A Time Slider will appear at the bottom of the map. You can move the Time Slider or advance it with the left and right arrows. You can see which year you viewing in the Time Slider. You can click on the map to bring up the popup for the layer for additional information.

