



SageCon Landscape Planning Tool

Access a curated collection of geospatial data for Oregon's rangelands



INSTITUTE FOR
NATURAL RESOURCES



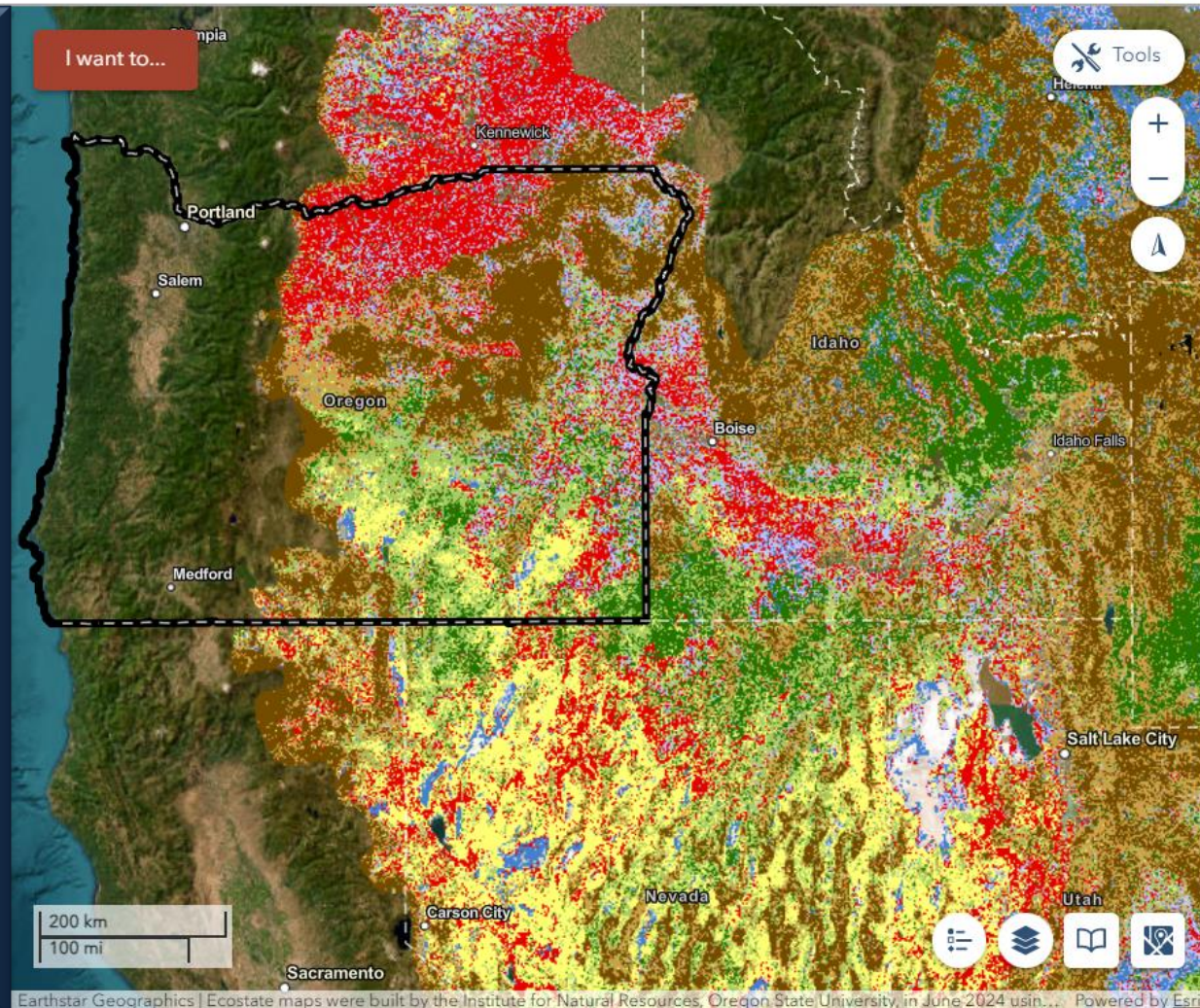
SageCon Landscape Planning Tool

Search for ...



Use the SageCon Landscape Planning Tool for:

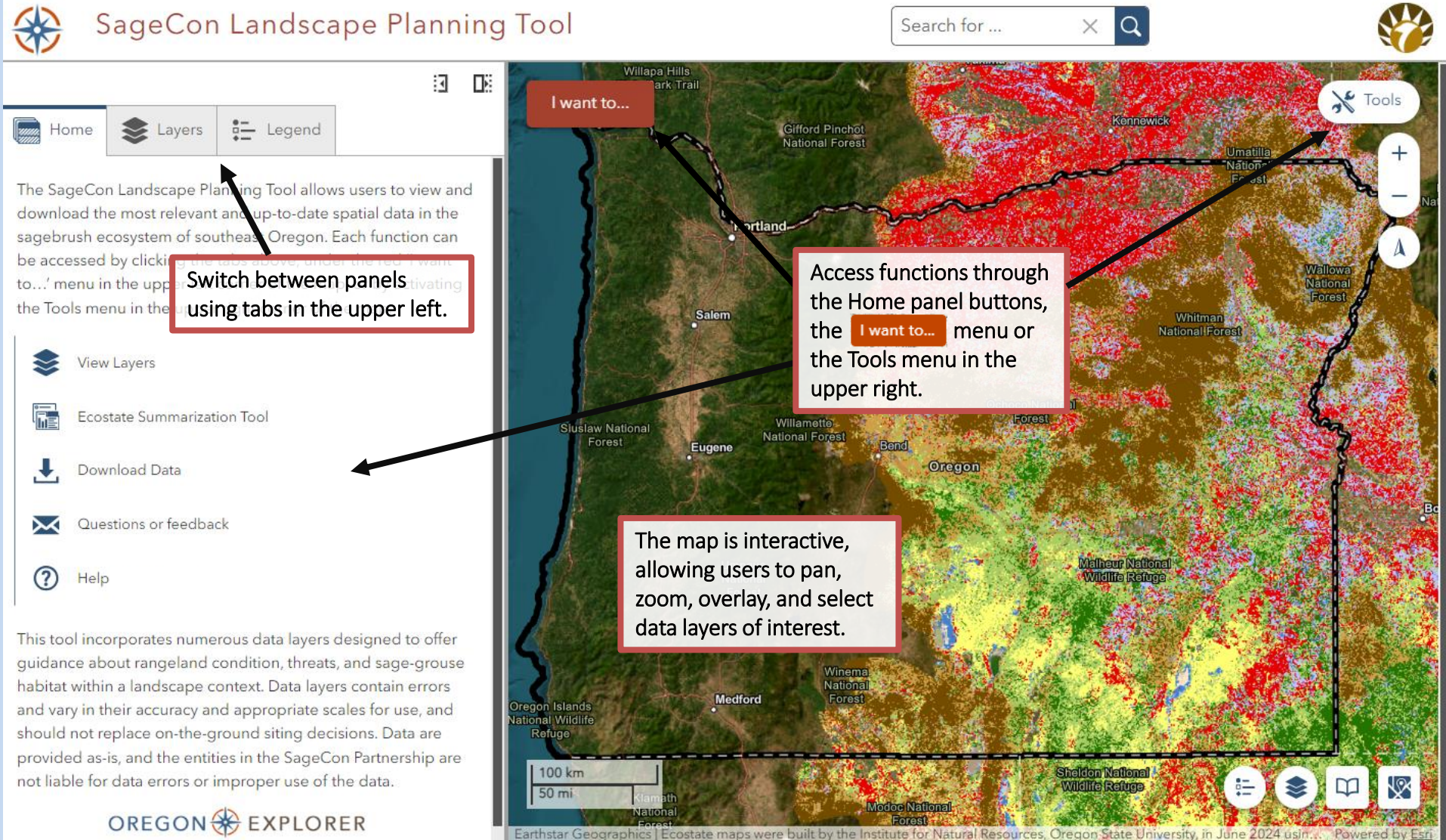
- ❖ Exploring rangeland geospatial data in Oregon through an interactive web map.
- ❖ Creating **graphs and charts** of rangeland condition using the Ecostate Summarization Tool, now available across the sagebrush biome.
- ❖ **Downloading** data for GIS desktop analysis.
- ❖ Printing a customized map, uploading data, annotating on the map, and more.



Earthstar Geographics | Ecostate maps were built by the Institute for Natural Resources, Oregon State University, in June 2024 using... Powered by Esri

Welcome to the SageCon Landscape Planning Tool!

From the home screen, choose functions.



The screenshot displays the SageCon Landscape Planning Tool interface. The top navigation bar includes a search bar and a logo. The left sidebar contains a 'Home' tab and a 'Layers' tab, with a red box highlighting the 'Layers' tab and an arrow pointing to it. Below the tabs, a list of functions is provided: 'View Layers', 'Ecstate Summarization Tool', 'Download Data', 'Questions or feedback', and 'Help'. A red box highlights the 'Download Data' function with an arrow pointing to it. The main map area shows a detailed landscape of southeastern Oregon, with various geographical features and data layers overlaid. A red box highlights the 'I want to...' menu in the top left of the map area, with an arrow pointing to it. Another red box highlights the 'Tools' menu in the top right of the map area, with an arrow pointing to it. A third red box highlights the 'Home' panel buttons, with an arrow pointing to it. A fourth red box highlights the 'Tools' menu in the top right of the map area, with an arrow pointing to it. A fifth red box highlights the 'I want to...' menu in the top left of the map area, with an arrow pointing to it. A sixth red box highlights the 'Tools' menu in the top right of the map area, with an arrow pointing to it. A seventh red box highlights the 'Home' panel buttons, with an arrow pointing to it. A eighth red box highlights the 'Tools' menu in the top right of the map area, with an arrow pointing to it. A ninth red box highlights the 'I want to...' menu in the top left of the map area, with an arrow pointing to it. A tenth red box highlights the 'Tools' menu in the top right of the map area, with an arrow pointing to it. A scale bar at the bottom left indicates 100 km and 50 mi. The bottom of the page features the 'OREGON EXPLORER' logo and a footer with contact information.

Switch between panels using tabs in the upper left.

Access functions through the Home panel buttons, the **I want to... menu or the Tools menu in the upper right.**

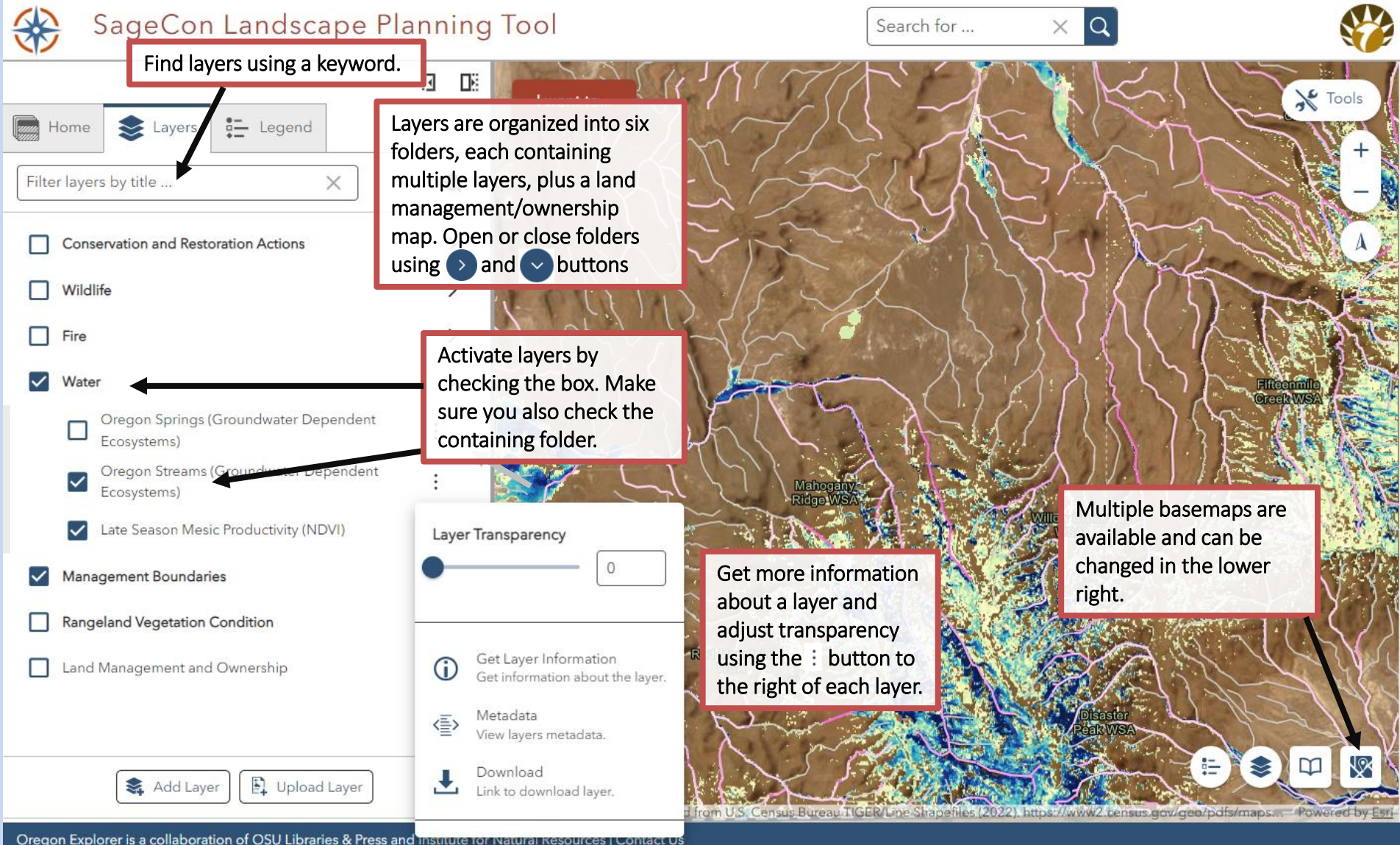
The map is interactive, allowing users to pan, zoom, overlay, and select data layers of interest.

OREGON EXPLORER

Earthstar Geographics | Ecstate maps were built by the Institute for Natural Resources, Oregon State University, in June 2024 using... Powered by Esri

View data layers through the interactive map

Choose layers to display and navigate across the landscape.



SageCon Landscape Planning Tool

Search for ...

Find layers using a keyword.

Home Layers Legend

Filter layers by title ...

- ☐ Conservation and Restoration Actions
- ☐ Wildlife
- ☐ Fire
- ☒ Water
 - ☐ Oregon Springs (Groundwater Dependent Ecosystems)
 - ☒ Oregon Streams (Groundwater Dependent Ecosystems)
 - ☒ Late Season Mesic Productivity (NDVI)
- ☒ Management Boundaries
- ☐ Rangeland Vegetation Condition
- ☐ Land Management and Ownership

Layer Transparency: 0

Get Layer Information: Get information about the layer.

Metadata: View layers metadata.

Download: Link to download layer.

Tools: +, -, A

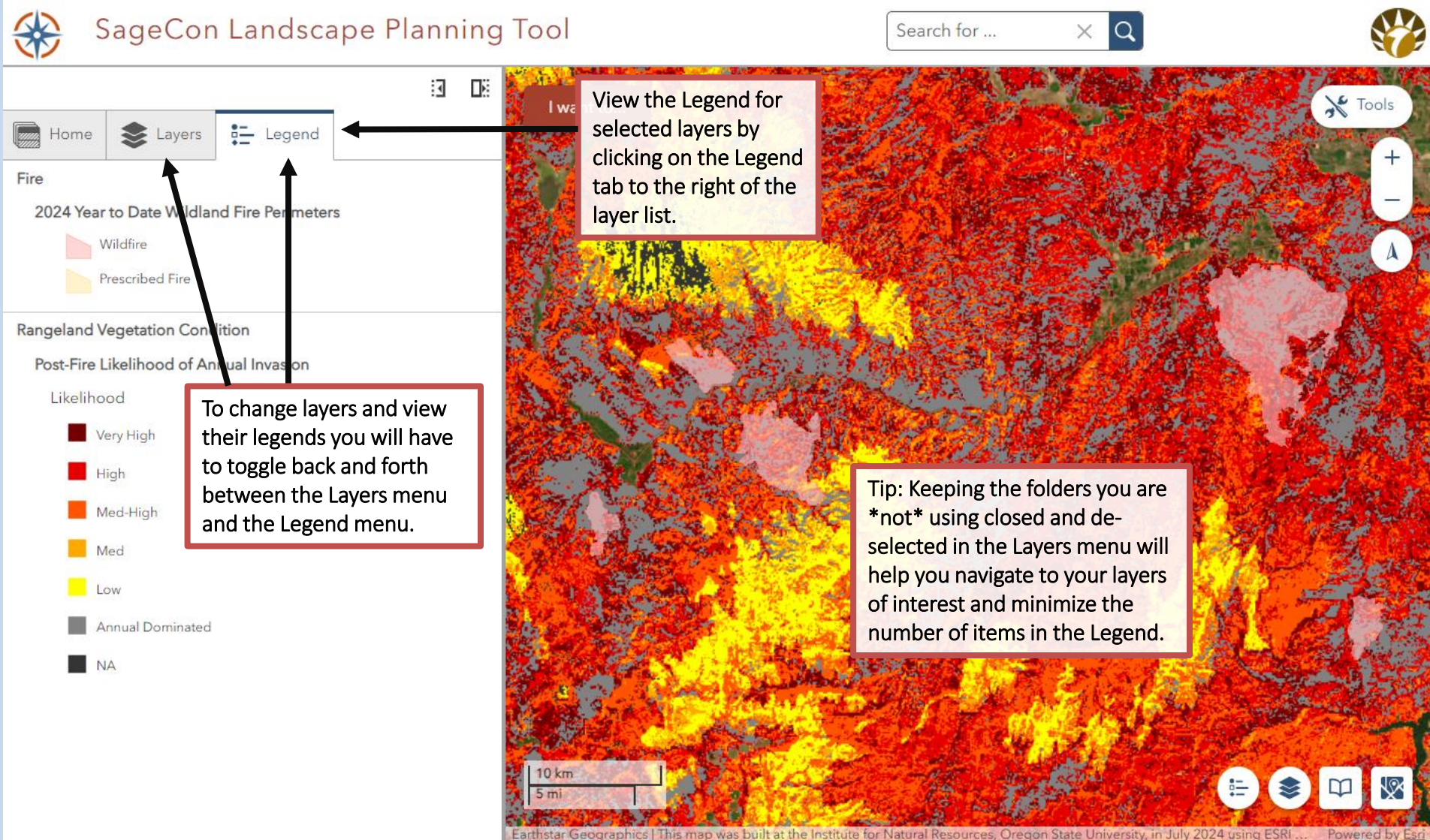
Multiple basemaps are available and can be changed in the lower right.

Get more information about a layer and adjust transparency using the ⓘ button to the right of each layer.

Annotations include arrows pointing from text boxes to the search bar, the 'Water' layer checkbox, the 'Oregon Streams' sub-layer checkbox, the 'Layer Transparency' slider, the 'Get Layer Information' button, and the basemap selection icon in the bottom right corner.

View data layers through the interactive map

Choose **layers** to display and navigate across the landscape.



The screenshot displays the SageCon Landscape Planning Tool interface. On the left, a sidebar contains a 'Layers' menu with three tabs: 'Home', 'Layers', and 'Legend'. The 'Layers' tab is active, showing a list of layers under the heading 'Fire'. The first layer is '2024 Year to Date Wildland Fire Perimeters', with a legend indicating 'Wildfire' (pink) and 'Prescribed Fire' (yellow). Below this, under 'Rangeland Vegetation Condition', is the 'Post-Fire Likelihood of Annual Invasion' layer, with a legend showing likelihood levels: Very High (dark red), High (red), Med-High (orange), Med (yellow), Low (light yellow), Annual Dominated (grey), and NA (black). A red box highlights the 'Layers' and 'Legend' tabs with the text: 'To change layers and view their legends you will have to toggle back and forth between the Layers menu and the Legend menu.' A red box points to the 'Legend' tab with the text: 'View the Legend for selected layers by clicking on the Legend tab to the right of the layer list.' A red box at the bottom right of the map area contains a tip: 'Tip: Keeping the folders you are *not* using closed and de-selected in the Layers menu will help you navigate to your layers of interest and minimize the number of items in the Legend.' The main map area shows a landscape with fire perimeters and vegetation conditions. A scale bar at the bottom left indicates 10 km and 5 mi. A search bar at the top right contains the text 'Search for ...'. A 'Tools' button is located at the top right of the map area. The bottom of the page features a footer with the text: 'Earthstar Geographics | This map was built at the Institute for Natural Resources, Oregon State University, in July 2024 using ESRI ... Powered by Esri'.

SageCon Landscape Planning Tool

Search for ...

Home Layers Legend

Fire

2024 Year to Date Wildland Fire Perimeters

Wildfire
Prescribed Fire

Rangeland Vegetation Condition

Post-Fire Likelihood of Annual Invasion

Likelihood

- Very High
- High
- Med-High
- Med
- Low
- Annual Dominated
- NA

View the Legend for selected layers by clicking on the Legend tab to the right of the layer list.

To change layers and view their legends you will have to toggle back and forth between the Layers menu and the Legend menu.

Tip: Keeping the folders you are *not* using closed and de-selected in the Layers menu will help you navigate to your layers of interest and minimize the number of items in the Legend.

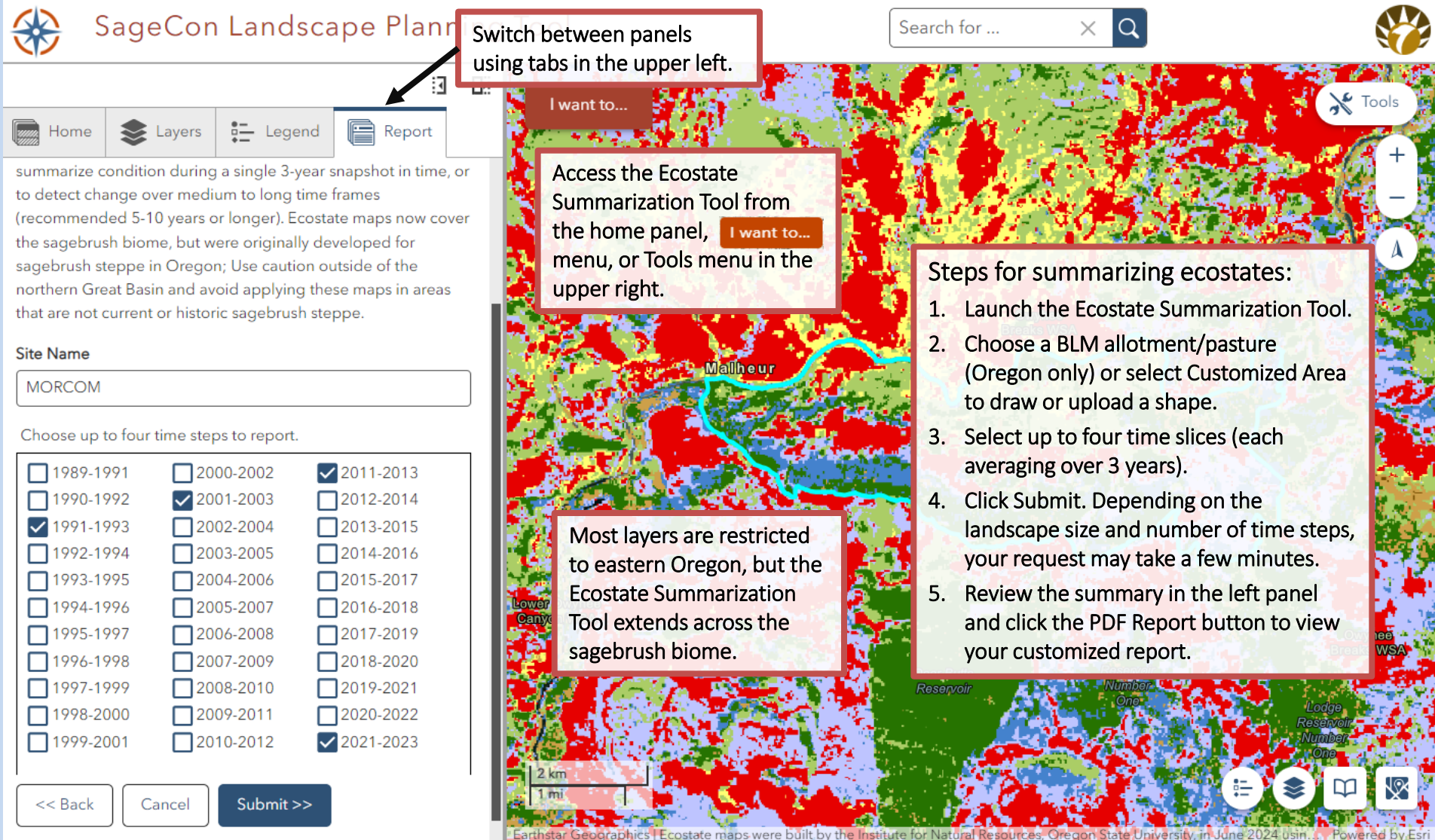
10 km
5 mi

Earthstar Geographics | This map was built at the Institute for Natural Resources, Oregon State University, in July 2024 using ESRI ... Powered by Esri

Run the Ecostate Summarization Tool

Summarize [ecostate maps](#) for a snapshot of rangeland condition over time.

Now available **biome wide!**



SageCon Landscape Planner

Search for ...

Switch between panels using tabs in the upper left.

Home Layers Legend Report

summarize condition during a single 3-year snapshot in time, or to detect change over medium to long time frames (recommended 5-10 years or longer). Ecostate maps now cover the sagebrush biome, but were originally developed for sagebrush steppe in Oregon; Use caution outside of the northern Great Basin and avoid applying these maps in areas that are not current or historic sagebrush steppe.

Site Name

MORCOM

Choose up to four time steps to report.

| | | |
|---|---|---|
| <input type="checkbox"/> 1989-1991 | <input type="checkbox"/> 2000-2002 | <input checked="" type="checkbox"/> 2011-2013 |
| <input type="checkbox"/> 1990-1992 | <input checked="" type="checkbox"/> 2001-2003 | <input type="checkbox"/> 2012-2014 |
| <input checked="" type="checkbox"/> 1991-1993 | <input type="checkbox"/> 2002-2004 | <input type="checkbox"/> 2013-2015 |
| <input type="checkbox"/> 1992-1994 | <input type="checkbox"/> 2003-2005 | <input type="checkbox"/> 2014-2016 |
| <input type="checkbox"/> 1993-1995 | <input type="checkbox"/> 2004-2006 | <input type="checkbox"/> 2015-2017 |
| <input type="checkbox"/> 1994-1996 | <input type="checkbox"/> 2005-2007 | <input type="checkbox"/> 2016-2018 |
| <input type="checkbox"/> 1995-1997 | <input type="checkbox"/> 2006-2008 | <input type="checkbox"/> 2017-2019 |
| <input type="checkbox"/> 1996-1998 | <input type="checkbox"/> 2007-2009 | <input type="checkbox"/> 2018-2020 |
| <input type="checkbox"/> 1997-1999 | <input type="checkbox"/> 2008-2010 | <input type="checkbox"/> 2019-2021 |
| <input type="checkbox"/> 1998-2000 | <input type="checkbox"/> 2009-2011 | <input type="checkbox"/> 2020-2022 |
| <input type="checkbox"/> 1999-2001 | <input type="checkbox"/> 2010-2012 | <input checked="" type="checkbox"/> 2021-2023 |

<< Back Cancel Submit >>

I want to...

Access the Ecostate Summarization Tool from the home panel, menu, or Tools menu in the upper right.

Most layers are restricted to eastern Oregon, but the Ecostate Summarization Tool extends across the sagebrush biome.

Steps for summarizing ecostates:


1. Launch the Ecostate Summarization Tool.
2. Choose a BLM allotment/pasture (Oregon only) or select Customized Area to draw or upload a shape.
3. Select up to four time slices (each averaging over 3 years).
4. Click Submit. Depending on the landscape size and number of time steps, your request may take a few minutes.
5. Review the summary in the left panel and click the PDF Report button to view your customized report.

Earthstar Geographics | Ecostate maps were built by the Institute for Natural Resources, Oregon State University, in June 2024 using... Powered by Esri

Run the Ecostate Summarization Tool

Summarize [ecostate maps](#) for a snapshot of rangeland condition over time.

Now available **biome wide!**

 SageCon Landscape Planning Tool

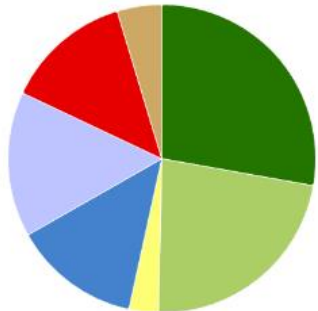
Home

Layers

Legend

Report

Threat Based Ecostates (2021 to 2023)



| Category | % area | Acres |
|---------------------------------------|--------|-------|
| A: Good condition shrubland | 28% | 1607 |
| A-C: Intermediate condition shrubland | 23% | 1303 |
| C: Poor condition shrubland | 3% | 178 |
| B: Good condition grassland | 13% | 771 |
| B-D: Intermediate condition grassland | 15% | 880 |
| D: Poor condition grassland | 13% | 769 |
| Tree: low-mid cover | 5% | 270 |
| Tree: high cover | | 0 |

Close

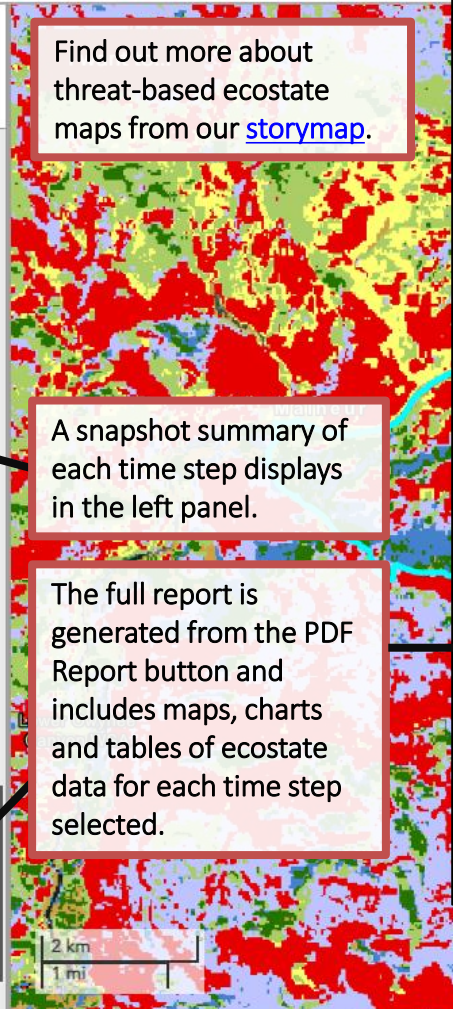
Run another report

PDF Report

Find out more about threat-based ecostate maps from our [storymap](#).

A snapshot summary of each time step displays in the left panel.


The full report is generated from the PDF Report button and includes maps, charts and tables of ecostate data for each time step selected.




2 km

1 mi

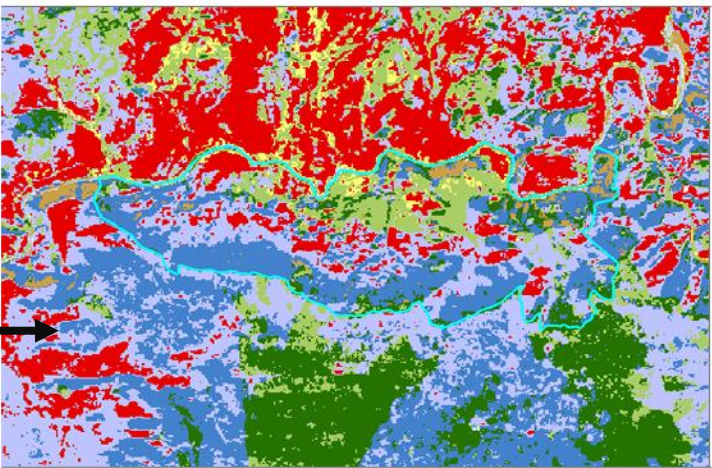
Earthstar Geographics | Ecostate maps were built by the Institute for Natural Resources, Oregon State University, in June 2024 using... Powered by Esri

 Ecostate Summarization Tool
Area of Interest: MORCOM

Threat Based Ecostates (2001 to 2003)



| Category | % area | Acres |
|---------------------------------------|--------|-------|
| A: Good condition shrubland | 9% | 524 |
| A-C: Intermediate condition shrubland | 15% | 870 |
| C: Poor condition shrubland | 2% | 101 |
| B: Good condition grassland | 31% | 1813 |
| B-D: Intermediate condition grassland | 27% | 1542 |
| D: Poor condition grassland | 13% | 732 |
| Tree: low-mid cover | 3% | 197 |
| Tree: high cover | | 0 |

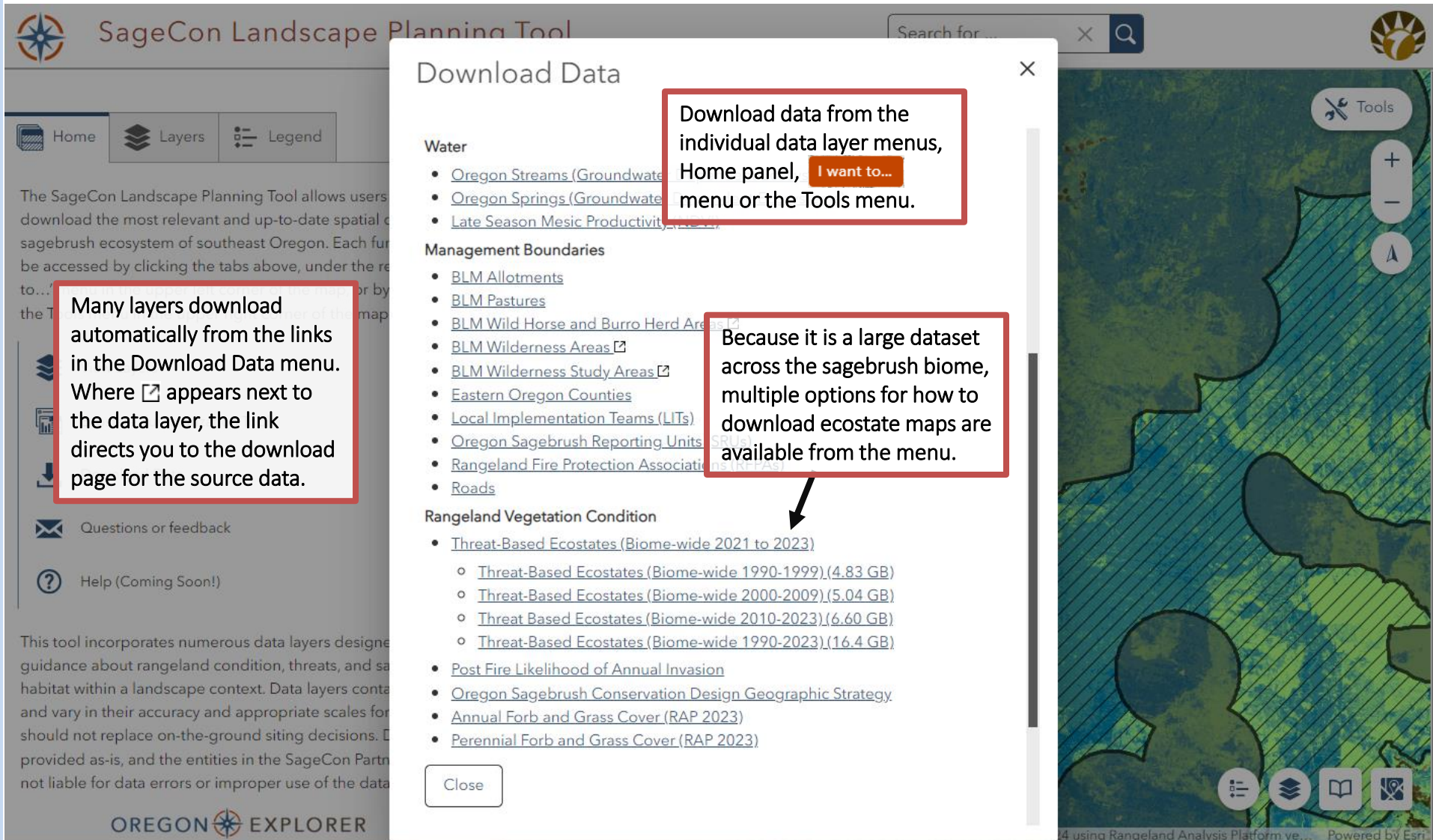


Report generated: September 17, 2024 05:30 PM

Oregon Explorer is a collaboration of [OSU Libraries & Press](#) and [Institute for Natural Resources](#) | [Contact Us](#)

Download data

Download one or more data layers for desktop GIS analysis.




SageCon Landscape Planning Tool

Search for...

Home Layers Legend

The SageCon Landscape Planning Tool allows users to download the most relevant and up-to-date spatial data for the sagebrush ecosystem of southeast Oregon. Each feature layer can be accessed by clicking the tabs above, under the relevant category, or by clicking the download icon in the map legend.

Many layers download automatically from the links in the Download Data menu. Where  appears next to the data layer, the link directs you to the download page for the source data.

Questions or feedback

Help (Coming Soon!)

This tool incorporates numerous data layers designed to provide guidance about rangeland condition, threats, and suitable habitat within a landscape context. Data layers contain information that varies in their accuracy and appropriate scales for use and should not replace on-the-ground siting decisions. Data is provided as-is, and the entities in the SageCon Partnership are not liable for data errors or improper use of the data.

Download Data

Water

- [Oregon Streams \(Groundwater\)](#)
- [Oregon Springs \(Groundwater\)](#)
- [Late Season Mesic Productivity \(2000-2010\)](#)

Management Boundaries

- [BLM Allotments](#)
- [BLM Pastures](#)
- [BLM Wild Horse and Burro Herd Areas](#)
- [BLM Wilderness Areas](#)
- [BLM Wilderness Study Areas](#)
- [Eastern Oregon Counties](#)
- [Local Implementation Teams \(LITs\)](#)
- [Oregon Sagebrush Reporting Units \(SRUs\)](#)
- [Rangeland Fire Protection Associations \(RFPAs\)](#)
- [Roads](#)

Rangeland Vegetation Condition

- [Threat-Based Ecostates \(Biome-wide 2021 to 2023\)](#)
 - [Threat-Based Ecostates \(Biome-wide 1990-1999\) \(4.83 GB\)](#)
 - [Threat-Based Ecostates \(Biome-wide 2000-2009\) \(5.04 GB\)](#)
 - [Threat Based Ecostates \(Biome-wide 2010-2023\) \(6.60 GB\)](#)
 - [Threat-Based Ecostates \(Biome-wide 1990-2023\) \(16.4 GB\)](#)
- [Post Fire Likelihood of Annual Invasion](#)
- [Oregon Sagebrush Conservation Design Geographic Strategy](#)
- [Annual Forb and Grass Cover \(RAP 2023\)](#)
- [Perennial Forb and Grass Cover \(RAP 2023\)](#)

Download data from the individual data layer menus, Home panel, **I want to...** menu or the Tools menu.

Because it is a large dataset across the sagebrush biome, multiple options for how to download ecostate maps are available from the menu.

Close

OREGON EXPLORER

4 using Rangeland Analysis Platform v... Powered by Esri

Annotate and share your map

Use tools to draw, annotate, add your own data layers, and **save or share** your project.



The screenshot shows the SageCon Landscape Planning Tool interface. On the left, there are layers for Wildlife (Sage-Grouse Habitat) and Rangeland Vegetation Condition (Shrub Cover (RAP 2023)). The main map area displays a landscape with various colored regions and a red-shaded polygon labeled "Potential project area". The top navigation bar includes tabs for Tools, Draw, Data, Reset, and Share. The Tools menu is open, showing options like Markup, Measure, Notes, Coords, Clear Markup, and Export to Shp. Annotations with arrows point to specific features: "Use the Draw menu to access tools to markup, measure, add notes, etc." points to the Draw tab; "Markup functions are accessed using the Tools menu in the upper right." points to the Tools menu; "Drawings can be exported to a shapefile" points to the Export to Shp button; "Tip: Navigate through the Tools menus using the tabs. Click on any button with an arrow in the bottom right corner to view the options, and use the x button to close the menu." points to the Markup button; and "This shape was added to the map and labeled using Markup – Polygon tool and Notes tool." points to the "Potential project area" polygon.

SageCon Landscape Planning Tool

Search for ...

Tools Draw Data Reset Share

Markup Measure Notes Coords Clear Markup Export to Shp

Home Layers

Wildlife

Sage-Grouse Habitat

Core/ Priority Areas for (PACs)

Low-Density

Rangeland Vegetation Condition

Shrub Cover (RAP 2023)

Percent Cover

- 0 - 5 %
- >5 - 10 %
- >10 - 15 %
- >15 - 25 %
- >25 %

I want to...

Tip: Navigate through the Tools menus using the tabs. Click on any button with an arrow in the bottom right corner to view the options, and use the x button to close the menu.

Drawings can be exported to a shapefile

Potential project area

This shape was added to the map and labeled using Markup – Polygon tool and Notes tool.

Markup functions are accessed using the Tools menu in the upper right.

Use the Draw menu to access tools to markup, measure, add notes, etc.

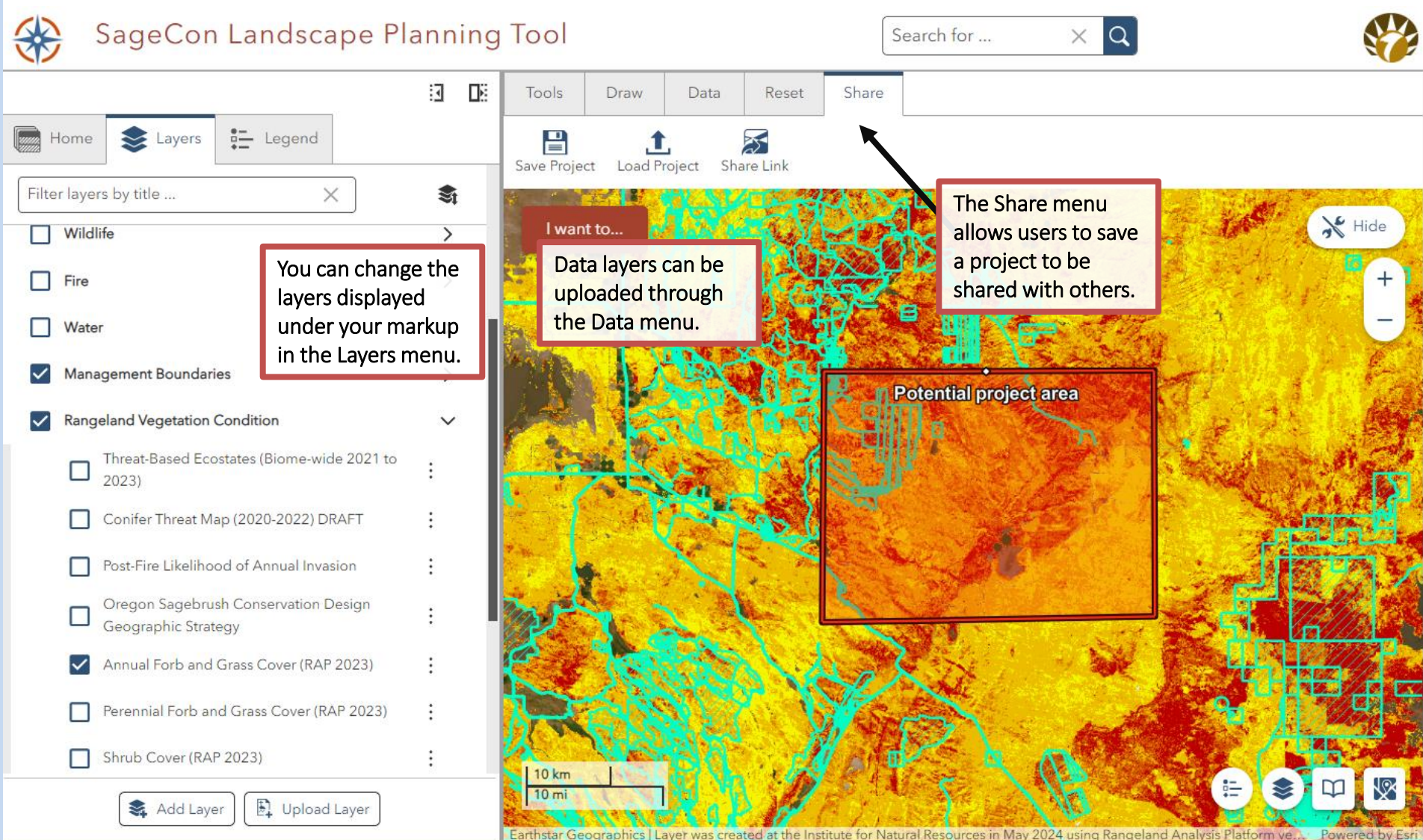
Hide

10 km 10 mi

Earthstar Geographics | Layer was created at the Institute for Natural Resources in May 2024 using Rangeland Analysis Platform ve... Powered by Esri

Annotate and share your map

Use tools to draw, annotate, add your own data layers, and **save or share** your project.



The screenshot displays the SageCon Landscape Planning Tool interface. On the left, a sidebar contains a 'Layers' menu with a search bar and a list of layers. A red box highlights the 'Layers' menu with the text: 'You can change the layers displayed under your markup in the Layers menu.' The main map area shows a landscape with various data layers. A red box on the map is labeled 'Potential project area'. A red box on the top right of the map area contains the text: 'The Share menu allows users to save a project to be shared with others.' An arrow points from this box to the 'Share' menu in the top navigation bar. The top navigation bar includes 'Tools', 'Draw', 'Data', 'Reset', and 'Share' menus. Below these are icons for 'Save Project', 'Load Project', and 'Share Link'. A red box on the 'Data' menu contains the text: 'Data layers can be uploaded through the Data menu.'

SageCon Landscape Planning Tool

Search for ...

Home Layers Legend

Filter layers by title ...

- ☐ Wildlife
- ☐ Fire
- ☐ Water
- ☒ Management Boundaries
- ☒ Rangeland Vegetation Condition
 - ☐ Threat-Based Ecostates (Biome-wide 2021 to 2023)
 - ☐ Conifer Threat Map (2020-2022) DRAFT
 - ☐ Post-Fire Likelihood of Annual Invasion
 - ☐ Oregon Sagebrush Conservation Design Geographic Strategy
 - ☒ Annual Forb and Grass Cover (RAP 2023)
 - ☐ Perennial Forb and Grass Cover (RAP 2023)
 - ☐ Shrub Cover (RAP 2023)

Add Layer Upload Layer

Tools Draw Data Reset Share

Save Project Load Project Share Link

I want to...

Data layers can be uploaded through the Data menu.

Potential project area

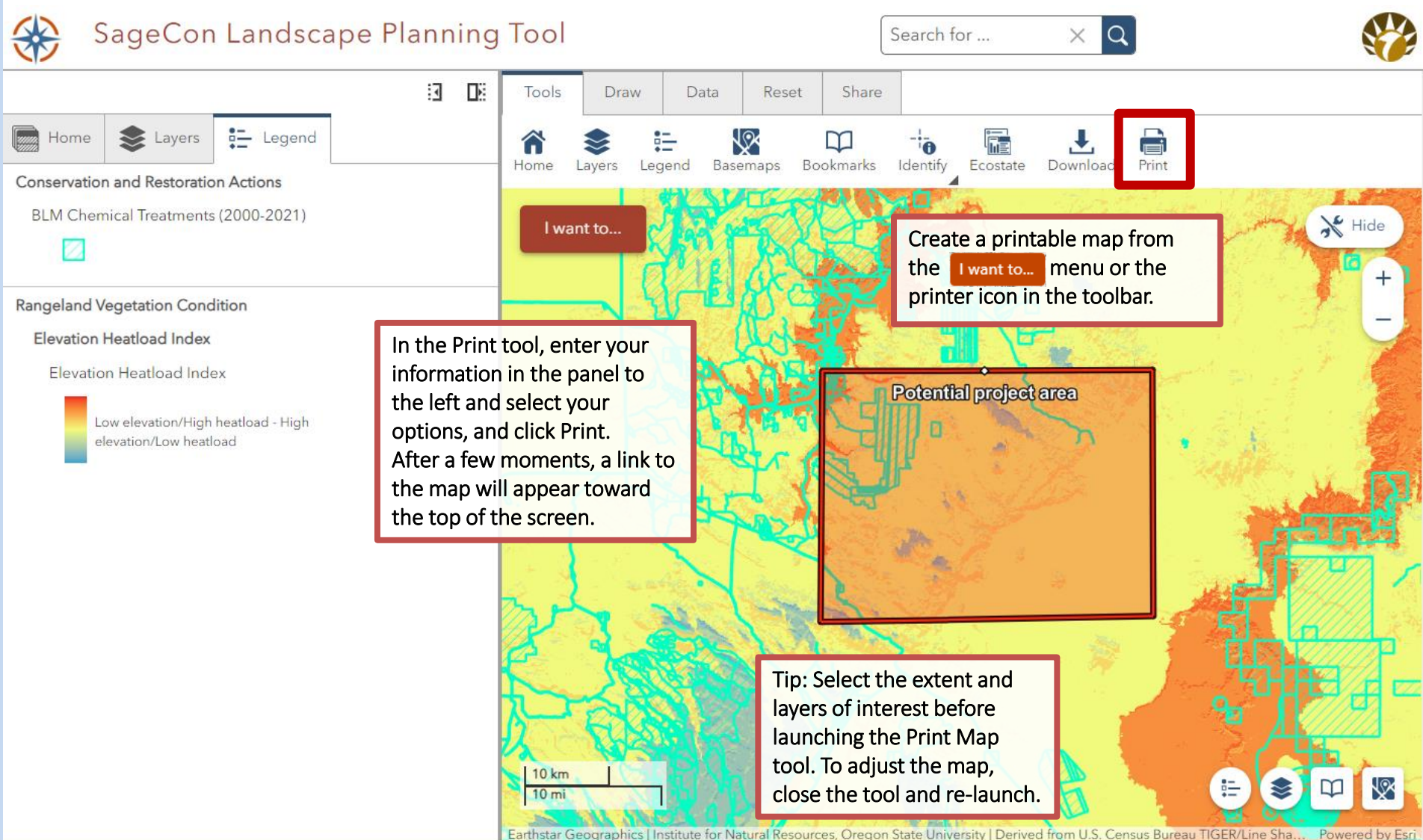
The Share menu allows users to save a project to be shared with others.

10 km 10 mi

Earthstar Geographics | Layer was created at the Institute for Natural Resources in May 2024 using Rangeland Analysis Platform ve... Powered by Esri

Create a printable map

Print a customized map of selected layers within the web tool.



The screenshot displays the SageCon Landscape Planning Tool interface. The top navigation bar includes a search bar and a logo. The main toolbar features icons for Home, Layers, Legend, Basemaps, Bookmarks, Identify, Ecstate, Download, and Print. The Print icon is highlighted with a red box. A callout box points to the Print icon, stating: "Create a printable map from the **I want to...** menu or the printer icon in the toolbar." Another callout box points to the **I want to...** menu, stating: "In the Print tool, enter your information in the panel to the left and select your options, and click Print. After a few moments, a link to the map will appear toward the top of the screen." A third callout box points to a map area, stating: "Tip: Select the extent and layers of interest before launching the Print Map tool. To adjust the map, close the tool and re-launch." The map area shows a "Potential project area" highlighted in orange. The left sidebar contains a legend for "Conservation and Restoration Actions" and "Rangeland Vegetation Condition". The bottom of the interface shows a scale bar (10 km, 10 mi) and a footer with contact information.

SageCon Landscape Planning Tool

Search for ...

Tools Draw Data Reset Share

Home Layers Legend

Conservation and Restoration Actions

BLM Chemical Treatments (2000-2021)

Rangeland Vegetation Condition

Elevation Heatload Index

Elevation Heatload Index

Low elevation/High heatload - High elevation/Low heatload

I want to...

Create a printable map from the **I want to...** menu or the printer icon in the toolbar.

Potential project area

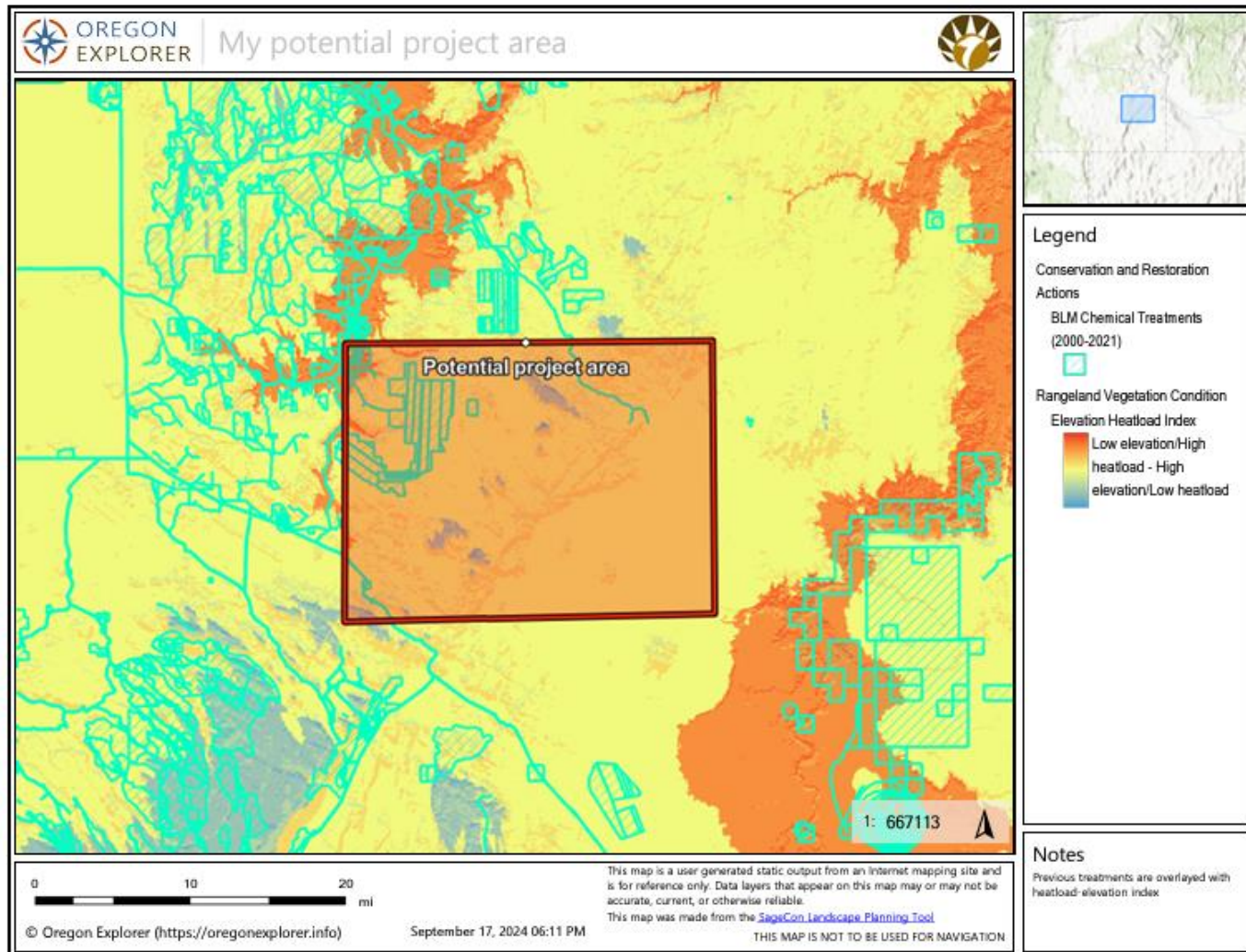
Tip: Select the extent and layers of interest before launching the Print Map tool. To adjust the map, close the tool and re-launch.

10 km 10 mi

Earthstar Geographics | Institute for Natural Resources, Oregon State University | Derived from U.S. Census Bureau TIGER/Line Sha... Powered by Esri

Create a printable map

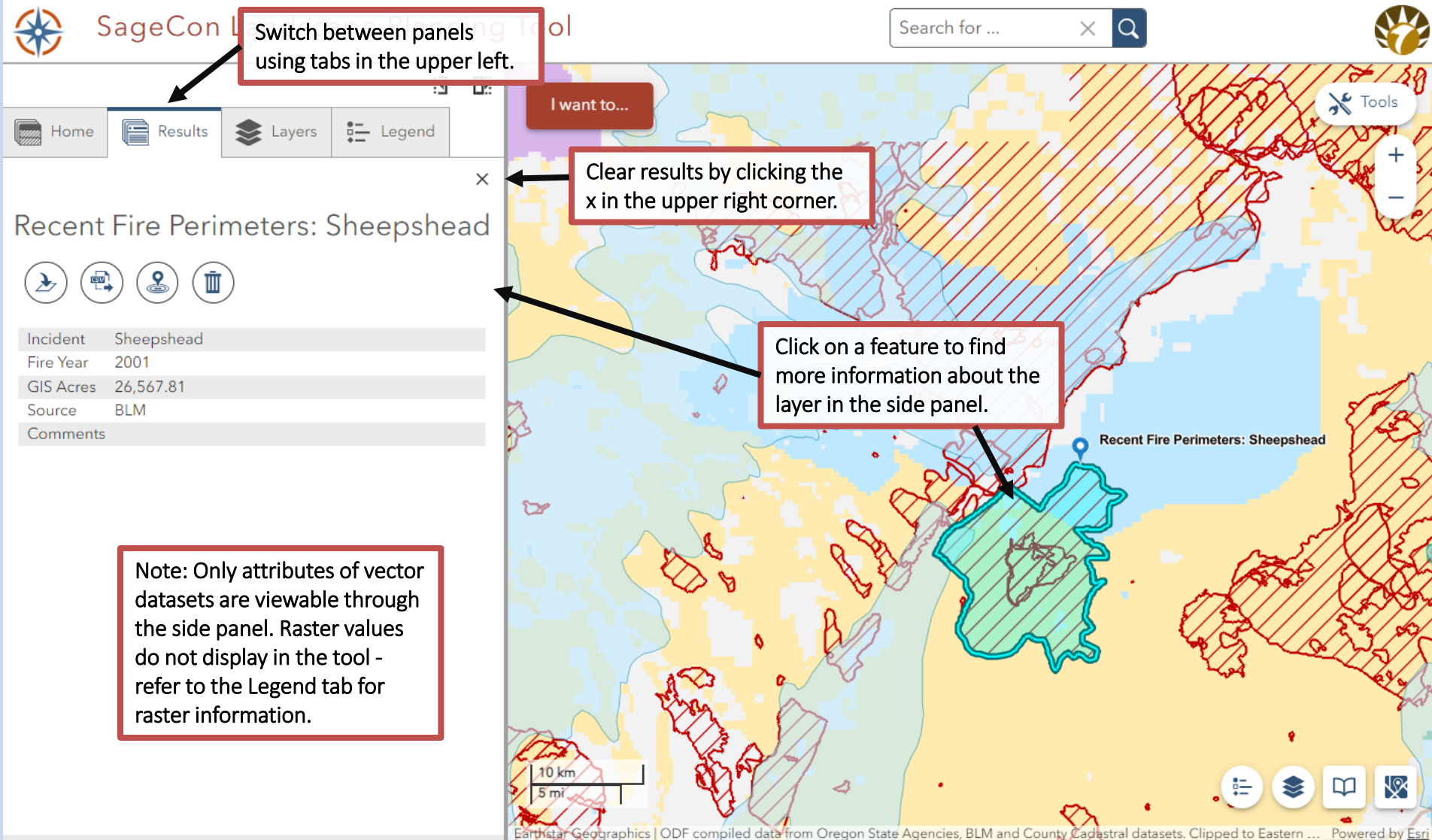
Print a customized map of selected layers within the web tool.



Your printable map will include a legend of the layers displayed and customizable title and notes. Re-launch the Print tool to adjust any aspect of the map and create a new map.

Other functions

Find out more about data layers.



The screenshot displays the SageCon Explorer web application. The interface includes a top navigation bar with the SageCon logo, a search bar, and a user profile icon. Below the navigation bar is a side panel with tabs for Home, Results, Layers, and Legend. The Results tab is active, showing a map of fire perimeters. A table on the left lists details for the 'Sheepshead' incident. The map itself shows various fire perimeters with different colors and patterns. Annotations with arrows point to specific UI elements: the top-left tabs, a close button (x) in the top-right of the side panel, a feature on the map, and a note about vector data attributes.

Switch between panels using tabs in the upper left.

Clear results by clicking the x in the upper right corner.

Click on a feature to find more information about the layer in the side panel.

Note: Only attributes of vector datasets are viewable through the side panel. Raster values do not display in the tool - refer to the Legend tab for raster information.

| Incident | Sheepshead |
|-----------|------------|
| Fire Year | 2001 |
| GIS Acres | 26,567.81 |
| Source | BLM |
| Comments | |

Recent Fire Perimeters: Sheepshead

10 km
5 mi

Earthstar Geographics | ODF compiled data from Oregon State Agencies, BLM and County Cadastral datasets. Clipped to Eastern ... Powered by Esri

More information about the SageCon Landscape Planning Tool

This document was last updated in September 2024

Access the SageCon Landscape Planning Tool here: https://tools.oregonexplorer.info/viewer/sagecon_landscape_planning_tool

This tool is intended to provide geospatial data to aid in coordinated, cross-ownership planning at landscape scales in the rangelands of eastern Oregon and beyond. Data can be viewed through the interactive map to facilitate landscape-scale planning and downloaded for desktop analyses through the Data Download tool. The Ecostate Summarization Tool allows users to access information on rangeland condition and trend for a customized area. Other functions including printing a map and uploading data from your desktop or other Oregon Explorer web tools, and annotating the map.

Troubleshooting:

If you encounter an error or problem with the tool, try these things in this order: 1) reload the tool, 2) clear your browser cache and reload the tool, 3) contact the Oregon Explorer help at virtualoregon.support@oregonstate.edu with the name of the tool, a description of the problem, and a screenshot of the issue or error.

Disclaimer:

The SageCon Landscape Planning Tool incorporates numerous data layers designed to offer guidance about sagebrush condition and threats within a landscape context. Data layers contain errors and vary in their accuracy and appropriate scales for use and should not replace on-the-ground siting decisions. Data are provided as-is, and the entities in the SageCon Partnership are not liable for data errors or improper use of the data.
