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Dashboard Functionality

Created for NCC as part of the Fleming College Collaborative Project
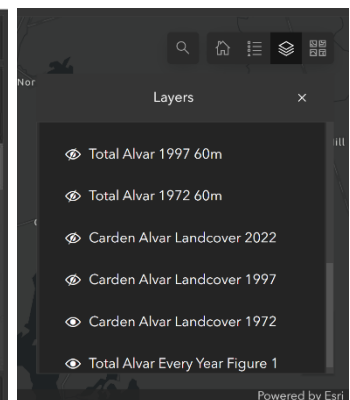
How to use the dashboard

Overview

The primary purpose of this dashboard is to display alvar changes over the past 50 years within the Carden Alvar Natural Area. The dashboard will be used by the Nature Conservancy of Canada to help with conservation and restoration initiatives within NCC properties located in the Carden Alvar Natural Area. Click here to learn more about our team and about the methodologies used for the analysis. **Please note, if viewing the dashboard on a mobile device some features and elements will not be available.** See the 'Mobile Version' section for more

Layer and Basemap Toggling
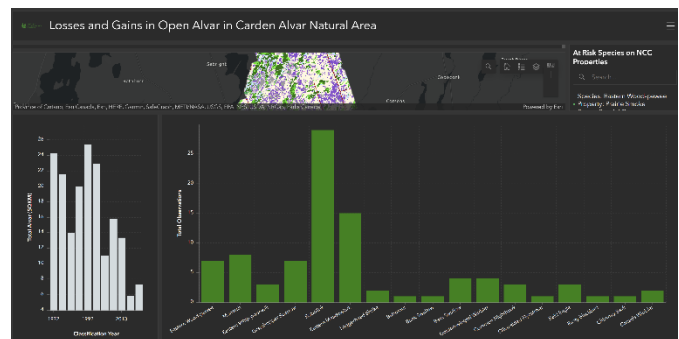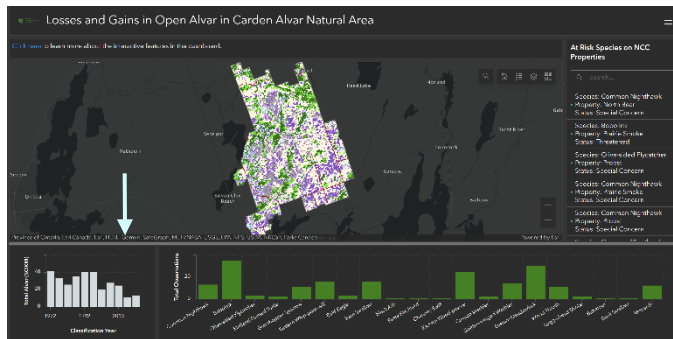
The dashboard has the following layers:

- Full Classifications for 1972, 1997 and 2022
- Total Alvar Cover for 1972, 1997 and 2022
- Alvar change for 1972 to 1997, 1997 to 2022 and 1972 to 2022
- At risk species
- Total Alvar Chart
- Carden Alvar Natural Area Boundary
- NCC Property Boundaries

Each layer can be toggled on and off by using the nav bar located in the top right portion of the map. The eye with a strike through it indicates the layer is not currently visible while the eye without a strike through it indicates the layer is visible. Multiple layers can be viewed simultaneously. Note, the last layer called "Total Alvar Every Year Figure 1" should always be toggled on as it interacts with the first figure. This layer will not be visible unless a bar within the alvar chart is clicked. See Alvar Chart for more information.
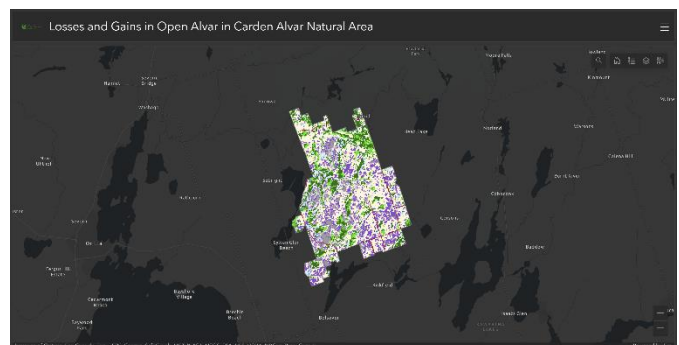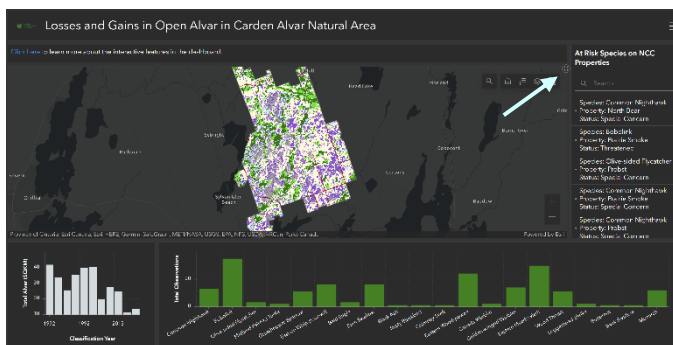
Resizing Windows

As the dashboard may be viewed on multiple devices with varying screen sizes each window has been configured to allow resizing. To resize the windows, hover over the edge of the element until it turns light grey and the cursor changes. Click and drag to highlighted border to resize the element. Note, this resizing method does not work on all mobile devices.
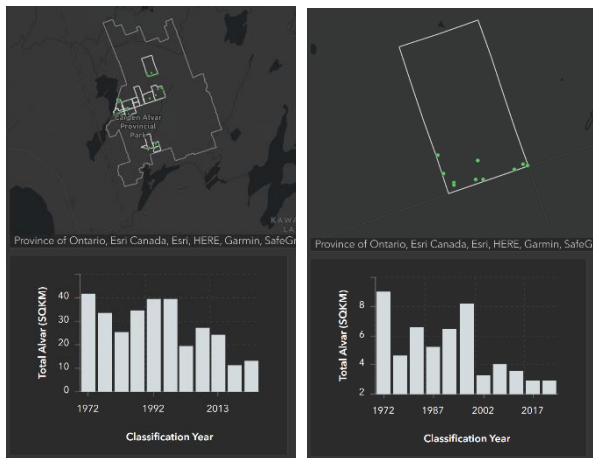

Alternatively, the entire element can be resized to full screen by hovering over the right corner of the element and clicking the popup expand button. This resizing method works on all mobile devices.
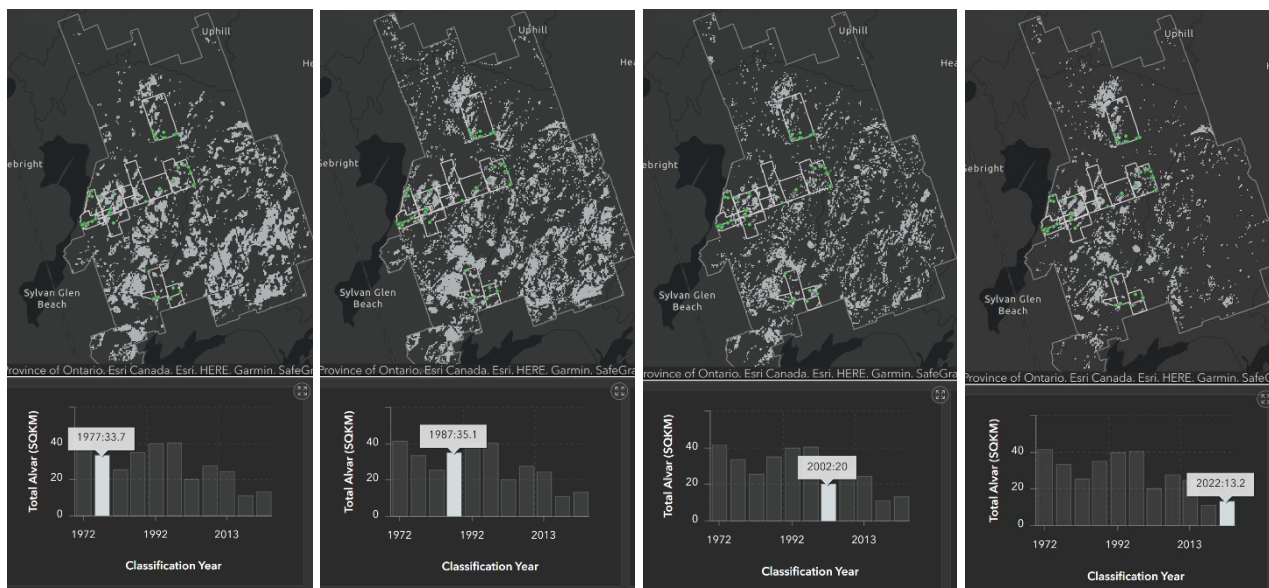
Alvar Chart

The alvar chart displays the total alvar cover for each year imagery analysis was completed, approximately every 5 years between 1972 and 2022. As the map extents change, the chart will adjust to show the total alvar cover for the displayed area. The layer the chart is connected to is the "Total Alvar Every Year Figure 1" and does not display on the map unless a bar in the chart is clicked. The chart will still display the data regardless of if the data is visible on the map.
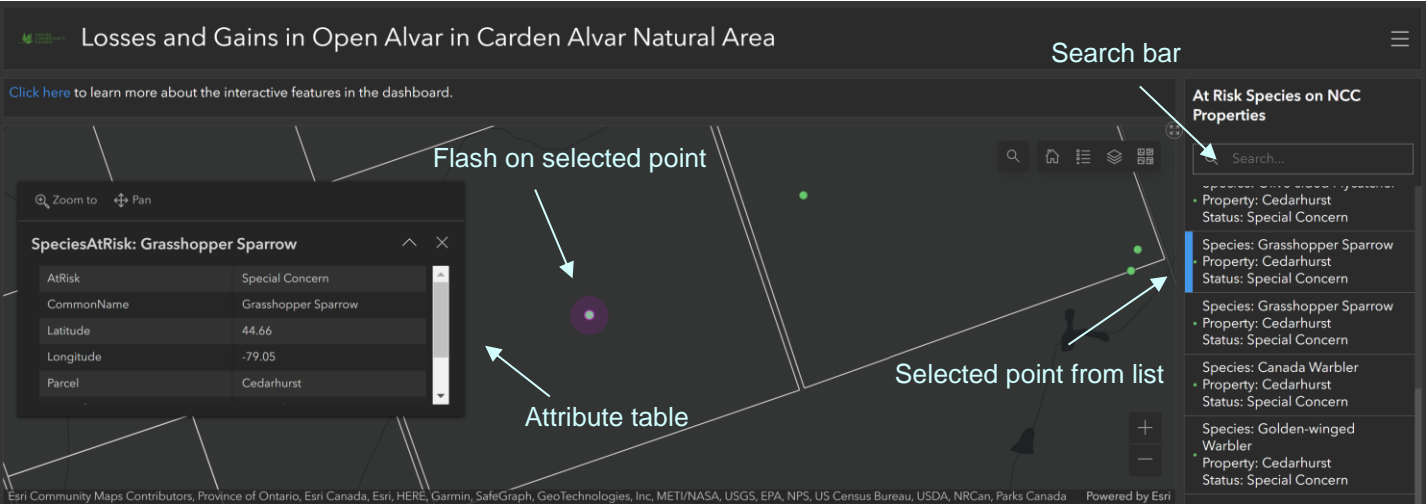

To view the map data corresponding to the bar in the chart, click the bar of interest. Each bar will display the total alvar extent for the given year when clicked. To stop viewing the data on the map for the selected bar, click the background of the chart.
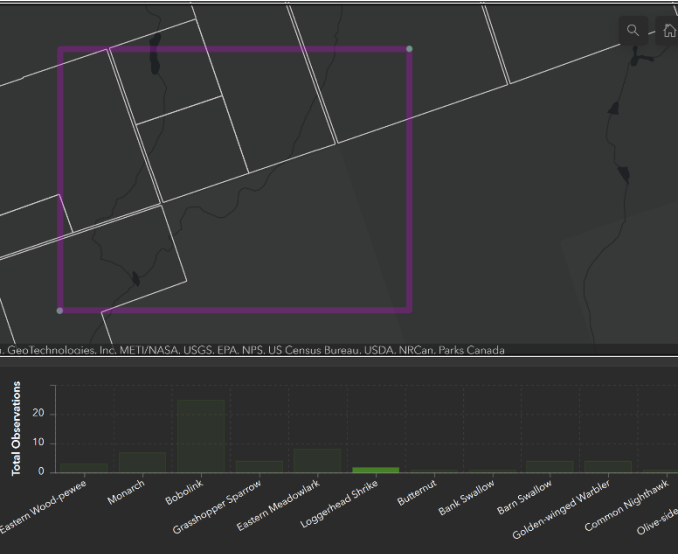
Interactive Species List

The species list is fully interactive and adjusts to the map extents. As you zoom into the map the list will adjust and only display species present within the displayed extent. The species data may be stacked where multiple species were observed within the same location. Therefore, even if only one point is visible on the map, there could be several species in the list as they were all observed from the same location. The species list can be searched for a species of interest using the search bar at the top of the list. If you click a species, the map will zoom into the location of the observation, flash around the point and bring up the attribute table for the observation.
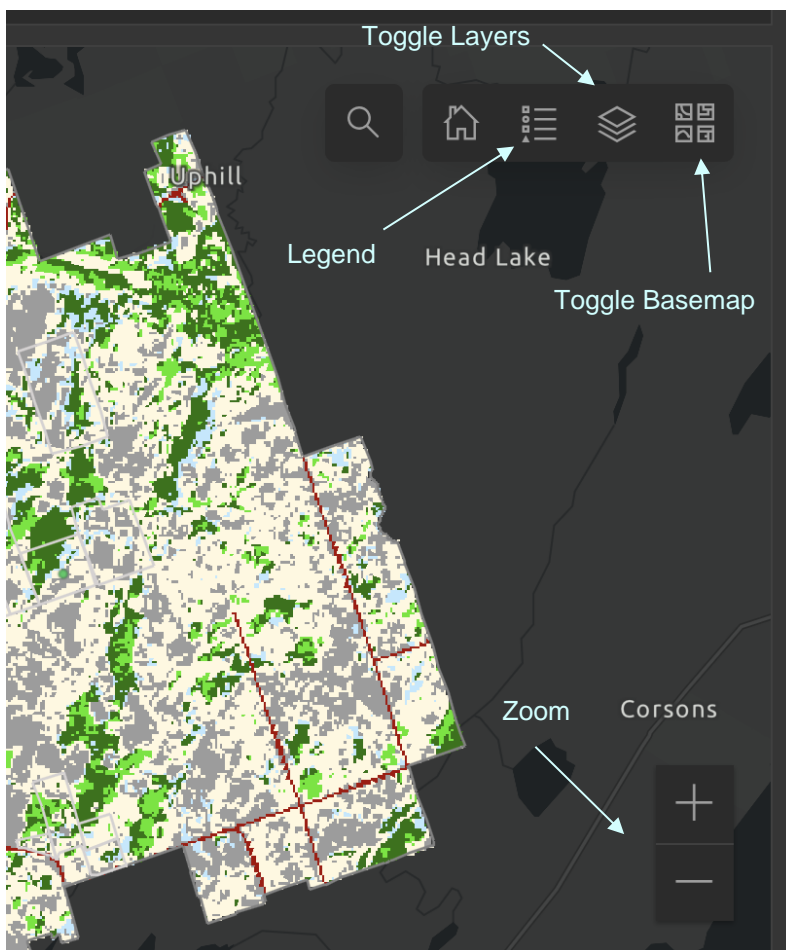

Species Chart

Like the alvar chart, the species chart adjusts to the map extent, displaying total species observation counts for the visible area. The bar can be clicked to filter the species points to the selected species. A purple box will flash around the extents of the filtered points and the map will zoom to the mid point between the selected points. To un-filter the species points click the background of the chart area.

Other Features

- Hover over the bar in either chart to display the exact value
- Species points can be clicked to view the attribute table without using the species list
- Click and drag the map to pan around the map area
- If the map is zoomed into an area outside of the Carden Alvar Natural Area the species list and both charts will display no data. Just zoom back into the Carden Alvar Natural Area to view the elements again
- Species data is only present for NCC properties. When zoomed into an area within the Carden Alvar Natural Area but outside of a property boundary, the species list and chart will display no data
- To zoom into the map you can press shift, click the map and draw a box around the area you wish to zoom to. You can also use the scroll wheel on the mouse.
- The legend can be displayed by clicking the button to the left of the layer toggling button
- The basemaps can be switched by clicking the button to the right of the layer toggling button

Mobile Version

The mobile version of the dashboard has less functionality and fewer elements than the desktop version. All layers are present in both versions, however, the interactive species list and graph are not present in the mobile view. Instead, there is a scrollable chart at the bottom of the dashboard that adjusts as the map extents change to reflect total at risk species observations in the viewable area. The total alvar graph does not have the same functionality as the desktop version. The bars cannot be clicked to view and filter the total alvar cover and the **"Total Alvar Every Year Figure 1" layer should be turned off for mobile view**. Elements in the mobile view cannot be resized by clicking and dragging the borders. They can only be viewed as is or full screen by using the expand button in the top right corner. Additionally, the title has been altered to fit on the screen and the nav bar is now on the right side of the map instead of the top of the map. When viewing attribute data, the name of the table appears. To view all the data in the attribute table, click the arrow in the right corner of the attribute table.