

Port of Seattle Equity Index

User Guide and FAQs

UPDATED: MAY 14, 2021



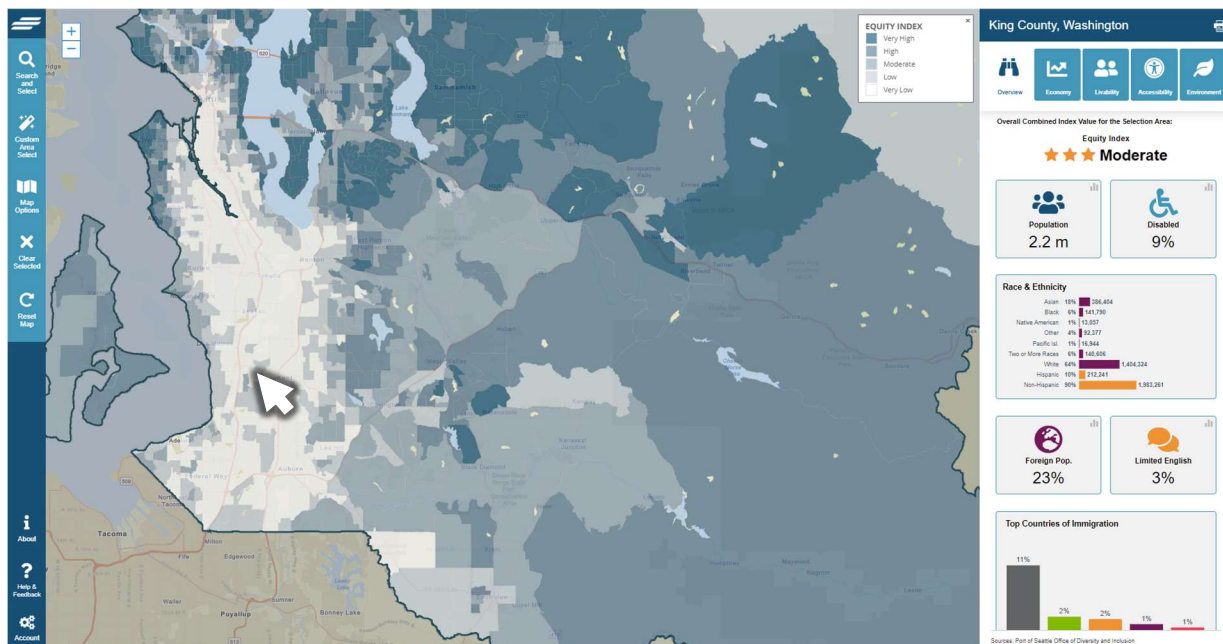
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User Guide

Overview

The Port of Seattle Equity Index, developed by Community Attributes Inc. and customized for the Port of Seattle Office of Equity, Diversity and Inclusion, is an interactive mapping platform that displays a set of community indicators within King County. A group of stakeholders and advisors collaborated to select and categorize the indicators. The index calculation methodology is derived from work by the Kirwan Institute on Race and Social Justice. This resource is free to the public and designed to share information about factors that contribute to equity and access to opportunity throughout the County. The information displayed in the Equity Index does not represent an exhaustive list of community characteristics associated with equity. Instead, the map is designed as one tool of many that can be utilized to inform decision making, strategic intervention, calls to action, and stakeholder engagement to promote greater equity and access to opportunity across the County.



The Equity Index allows you to specify a location within King County by selecting a city, searching by address, or drawing boundaries on the map using your mouse. Once an area is selected, the map zooms to the specified area and displays community indicator data for that given area. The community indicators include information on people, access to resources, facilities, jobs and opportunity within the selected area, you can also add color-shaded layers to highlight indices such as race, livability, accessibility, and education.

The following walkthrough highlights the different aspects and functionality of the Equity Index. Frequently Asked Questions (FAQs) can be found on the Port of Seattle website.

We hope you find the Port of Seattle Equity Index to be a useful resource for you and your community.

For additional information or to provide feedback, please email beason.a@portseattle.org

Organization of this Guide.

This guide is designed as a tour of the online mapping tool, starting with the top left corner, and showing the features on the left-side tool panel, which allows you to navigate, select, and reset the map, followed by the right-side data panel, which helps you understand and interpret the information on the map.

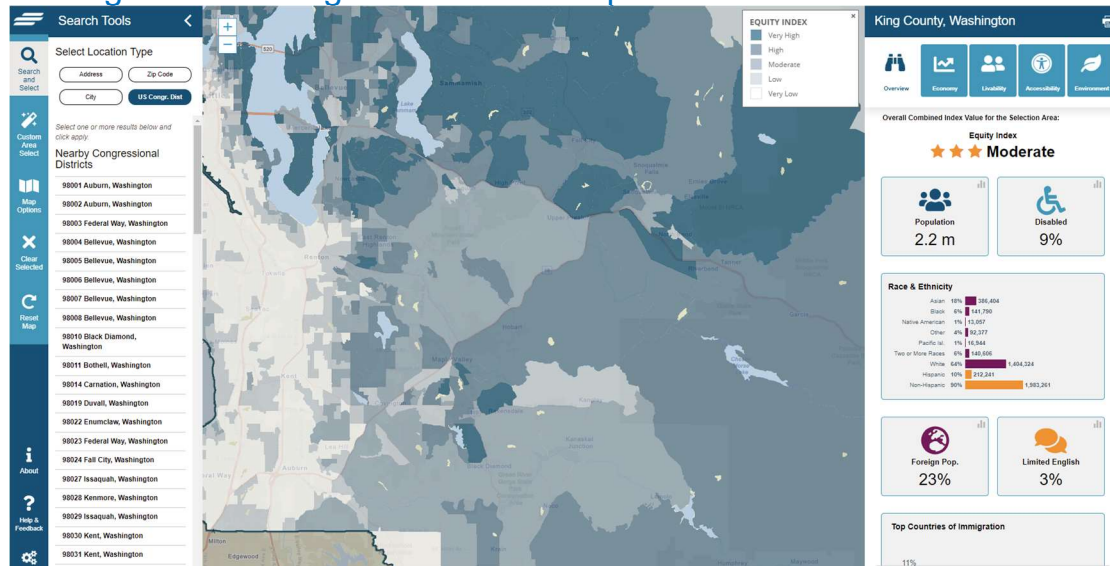
Map Basics: Zooming In/Out, Moving the Map Area, and Collapsing Menus

In order to zoom in and out of the map to see the entire boundary of the geography selected, to view the surrounding area, or to select a different area, you can either click the **+** or **-** buttons in the top left corner of the map area, or use the scroll wheel on your mouse while the pointer is hovering over a map area.

You can move the map area in view by hovering the pointer over any area on the map and clicking and holding the mouse button down while you drag the underlying map to a new area.

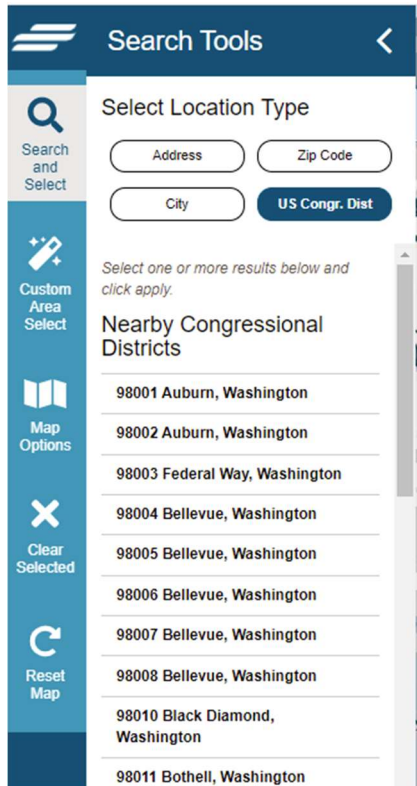
You can collapse the *Search Tools* menu by using your mouse to click on **<** in the upper right corner of the tool menu.

Finding and Selecting Areas on the Map



You have several options for selecting an area to investigate. You can search by street address, a defined area (e.g., ZIP Code, City, or Congressional District), or you can draw your own boundaries. These options are described below:

Search for a Defined Area or Address



Click on the **search** icon in *Tool Panel* on the left side of the map to open the *Search Tools* menu.

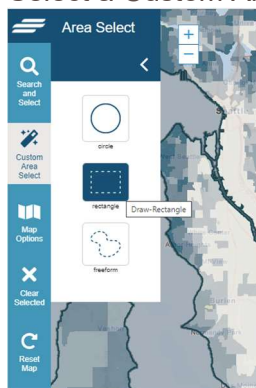
Search by Address: Type a King County address directly into the Search bar. As you begin to type, the search bar will generate a list of locations that match your search criteria. (Note: Generally, four or more letters must be typed into the search bar to narrow your search to a manageable list of locations.)

When the search function yields a list of locations, you can scroll through the options until you find the geographic area that you want. Once you click on a location from the options presented, the Map will zoom to that location, showing the enclosed or adjacent *census block group(s)*, and show community indicators for that area in the panel on the right. If the area you selected does not fully appear on your screen, try zooming out a little bit using the +/- buttons in the upper left of the map.

If you decide to look at a separate location, just re-click the **Search icon** and the search panel will reopen.

Search by defined area (ZIP Code, City or Congressional District): You can also select one of the 4 defined location areas listed. The sub-options for that area will appear below on the panel, and then when you click apply selected, the map will jump to that area and list the equity characteristics of that area on the right panel.

Select a Custom Area



To select a custom area, click the **Custom Area Select icon** on the tool panel, and choose circle, rectangle, or freeform shape around any area of the map, and the Equity Index will display community indicator estimates for the area you have selected or, if you have selected a geographic area that is smaller than a census block group, the map will redraw the boundaries of the area you selected within the nearest block group. Similarly, if you freeform draw an area on the map that crosses census boundaries, the Equity Index Tool will redraw your freeform boundaries to the nearest block group boundaries.

In order to draw a circle, rectangle or freeform shape using your mouse, click and hold the mouse button while you draw the desired boundaries. For a circle, where you first click will represent the *center* of the circular area you specify, with the diameter expanding or contracting as you move the mouse. For a rectangle, where you click the

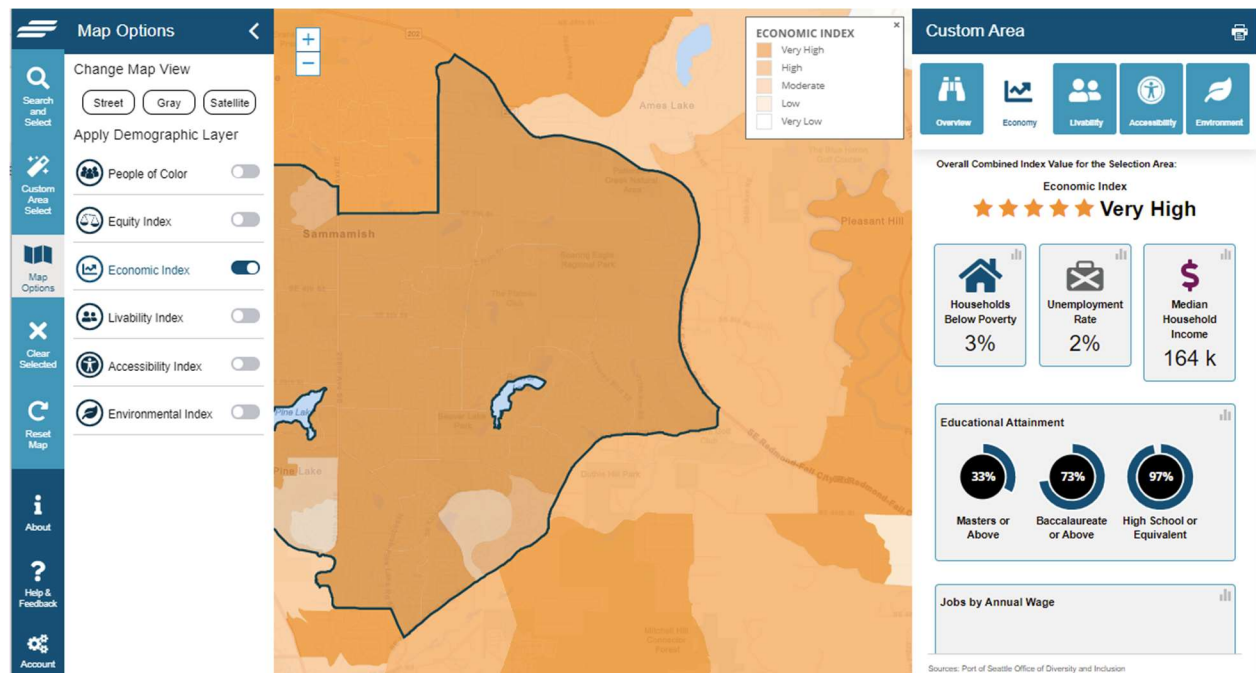
mouse will become one corner of the rectangular area you specify, with the shape of the rectangle changing depending on where you drag the mouse. Note that the corner of the rectangle created by your initial mouse click will differ depending on the direction in which you move the mouse. Lastly, to draw a freeform area, you can move the mouse in any direction while you hold down the mouse button; it is simplest to draw a freeform shape (from start to finish) around your desired geographic area, though it is possible to drag your mouse over a boundary you have already created. Again, the map will adjust to areas designated by the census block group for which measures of the community indicators can be estimated.

If you cannot locate an area using the search menu, or you aren't sure how a location name is spelled, you can navigate using your mouse and the zoom features to find your desired location.

Regardless of whether you have entered search criteria into the search bar, or if you have moved the map using your mouse and zooming in/out, you can also select nearby districts or ZIP codes. If the district you are searching for does not appear in the list generated by your map view, try zooming out or moving the map to a different area using your mouse so that the district is within the map window. Once you select the district or ZIP code of interest, the map will zoom to that area, and provide you with the community indicators and indices in the data panel.

Change the Map View

Click on the **Map Options** icon to change the base map views and select the base map layer indicator sets. Similar to the **Search Tools** menu, you can collapse the **Map Options** menu by clicking the < at right of the text "Change Map View".



Add an Indicator Layer and Switching Street/Satellite View

You can toggle on/off the indicator layers on the Equity Index. When the layers are turned on every census block group is color-shaded in proportion to the scale of the indicator selected. For example, when the layer *Livability Index* is turned on, every census block group in the map view is shaded at one of the five levels of “livability” shown on the legend, from “very high” to “very low”

You also can select the base map layer as a Street Map, a Satellite Map, or a Gray base map.

Clear Selection and Reset the Map

Directly beneath the Map Options icon, is the **Clear Selected button** that clears the current selection, and the reset map button which will bring you back to the opening screen, with the entire County selected.

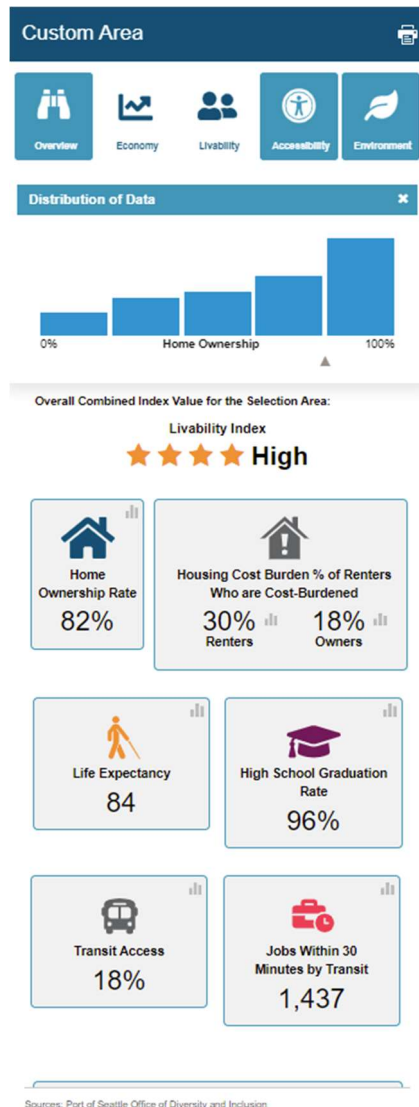
Access the Map Info and FAQ

The **About** button (the i with a circle around it) will bring up the latest version of the User Guide and Data Dictionary),

Provide Feedback on the Equity Map

Directly beneath the **About** button, is the **Contact** button with an envelope icon. Clicking this link will open a new message in your email program to beason.a@portseattle.org. Your feedback on the map is invaluable to both the Port of Seattle and the creators of this map. Whether it's helping to make the map easier to use, identifying issues with the data, or you find that the indicators simply don't reflect your neighborhood, we welcome your insights.

Reading the Community Indicators Dashboard

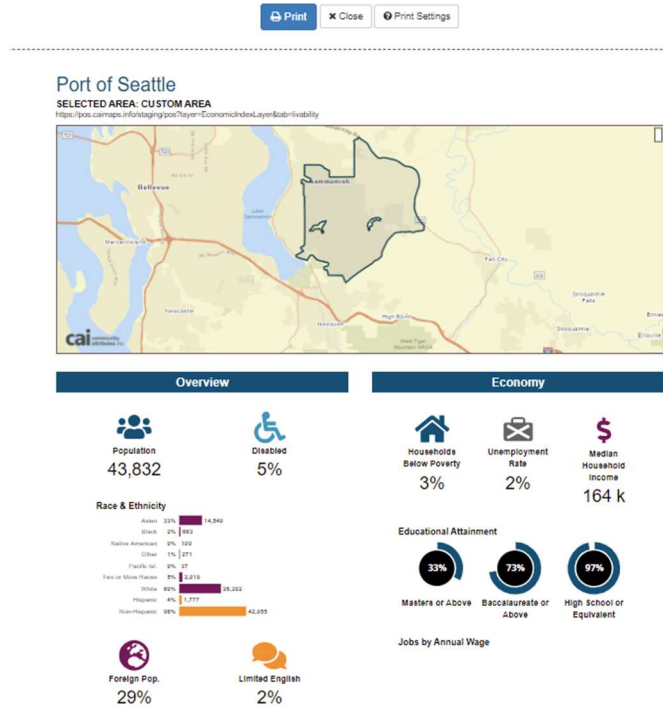


The right side of the Equity Index displays a dashboard with the community indicators that make up the Equity Index. At the top of the dashboard, you will see the name of the area (City, "custom area," etc.), which the data and statistics in the dashboard reflect. Within the dashboard, community indicators are organized by subdomain: Overview, Economy, Livability, Accessibility, and Environment. To learn more about the community indicators and demographic measures, including how and why the indicators were selected, please contact the Port of Seattle Office of Diversity, Equity and Inclusion at beason.a@portseattle.org

Each indicator on the dashboard has several features. An icon and the name of the indicator are shown to inform you what each estimate represents. *Note:* Not every indicator is measured the same way (e.g., percentages, counts, ratios). Take heed of what each indicator measures, how it is measured, what the data means in context, and how supplementary data could inform the estimates displayed on the dashboard.

Display the distribution of data throughout the area of study (King County) by clicking on the small gray bar chart icon next to the indicator. This will open up a histogram of the data showing the distribution of the indicator values within the overall study area, and the position of the selected block groups along that range. This shows the absolute range and relative distribution of the indicators as well as how a given area compares within that range.

Printing and Saving to PDF



Click the Printer Icon at the top of the Data Panel to format the map and data panel for printing and saving a scenario for use in reports or to compare selected areas.

If the map area does not print properly, click on the Print Setting button at the top of the window to optimize your printer settings.

To Print or Save as a PDF, click the Print Icon at the top of the screen and follow the instructions given by your browser.

Data Dictionary

Section	Name	Definition and Units	Source of data	Sign
Overview	Population	Count of persons living in area	2015-2019 ACS 5-Year Estimates	n/a
Overview	Disabled Households	Percentage of population categorized as disabled	2015-2019 ACS 5-Year Estimates	n/a
Overview	Race and Ethnicity Chart	Counts and percentage of each race and ethnic identity category	2015-2019 ACS 5-Year Estimates	n/a
Overview	Foreign-born population	Percentage of population that was born outside of United States	2015-2019 ACS 5-Year Estimates	n/a
Overview	Top countries of immigration	Top five countries by immigration by percentage of population	2015-2019 ACS 5-Year Estimates	n/a
Economy	Poverty Rate	Percentage of households below federal poverty limit	2015-2019 ACS 5-Year Estimates	-
Economy	Unemployment Rate	Percentage of labor force that is unemployed	2015-2019 ACS 5-Year Estimates	-
Economy	Median Household Income	Median household income per year	2015-2019 ACS 5-Year Estimates	+
Economy	Educational Attainment	Percentage population with Bachelor's degree or above.	2015-2019 ACS 5-Year Estimates	+
Economy	Job Density	Average number of Jobs/Acre	PSRC - 2019 Covered Employment Estimates	+
Livability	Housing cost burden	Percentage of households that spend more than 30% of their income on housing	2015-2019 ACS 5-Year Estimates	-
Livability	Home ownership rate	Percentage of households that live in homes they own	2015-2019 ACS 5-Year Estimates	+
Livability	Transit access	Percentage of area within .25 miles of transit stop	Sound Transit Open Transit Data Puget Sound GTFS file set	+

Livability	Access to Jobs by Transit	Average number of jobs within 30 minutes by walking and transit	Applied Geographic Solutions Crime Risk Index	+
Livability	Crime index	Esri Overall Crime Index showing the relative risk of crime in a certain location	ESRI Analytics FBI UCR	-
Livability	Life expectancy	Average life expectancy for the area	USA LEEP Study: https://www.cdc.gov/nchs/nvss/usaleep/usaleep.html	+
Livability	High school graduation rate	% of students who graduate high school in 4 years 4 YR ACGR. Need cohort size as well as cohort grads	Washington State Report Card	+
Accessibility	Proximity to Parks and Open Space	Parks Index, representing level of access to Urban Open Spaces	PSRC Urban Open Space Layer	+
Accessibility	Access to healthy food	Food Access Index, representing access to full-service grocery stores, limited services grocery stores, and farmers markets	ESRI Business Analytics + farmers Markets list	+
Accessibility	Pedestrian and Bike Facilities	Score representing percentage of arterial road length within block group with bike and ped facilities.	PSCRC	+
Accessibility	Internet access	Percentage of households that have broadband internet access	ESRI Broadband usage, per Kirwan	+
Accessibility	Voter Participation	Percentage of eligible voters that voted in 2020 Presidential Election	King County Board of Elections	+
Environmental Quality	Diesel emissions and NOx emissions	EPA Estimate of Tons/KM2/year emitted within the area	EPA EJ Screen 2020	-
Environmental Quality	Average Annual Particulate Matter Index (PM 2.5 Index)	PM 2.5 Particulate Matter Index	EPA EJ Screen 2021	-
Environmental Quality	Risk of Toxic releases from facilities Index	Relative risk of selected area	EPA EJ Screen 2022	-
Environmental Quality	Traffic density	Percent of population living close to high-traffic roadways	EPA EJ Screen 2023	-