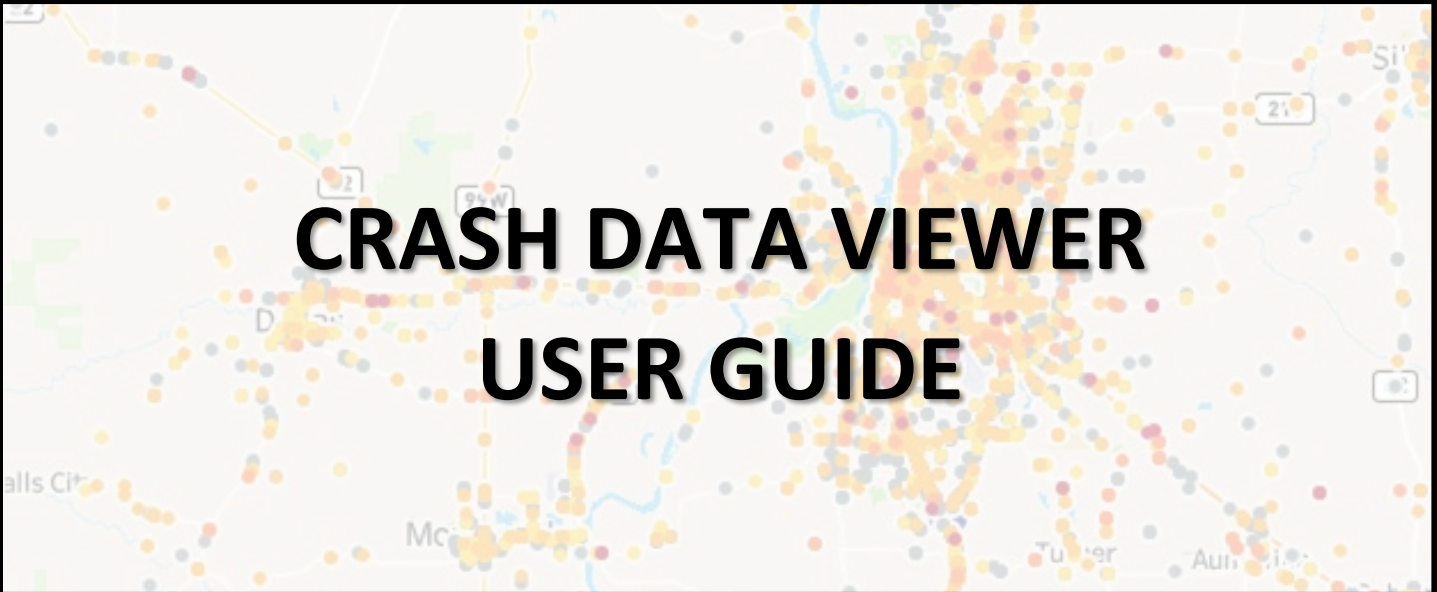


A map of the state of Oregon with numerous small, colored dots (yellow, orange, red, blue, green) scattered across it, representing crash data points. The dots are more densely clustered in the central and eastern parts of the state.

CRASH DATA VIEWER USER GUIDE

This user's guide is intended to help users get started with some of the basic functionality of the Oregon Department of Transportation, Crash Analysis and Reporting Unit's [Crash Data Viewer \(CDV\)](#). The tool is designed to provide insights into the complex data that the Crash Analysis and Reporting Unit (CAR) collects.

The CDV is under development and may be down for updates from time to time or might not be available in this form in the future depending on the results of our testing. Also note that this CDV is pulling from over an estimated 500,000 crashes in 10 years with over 26 million different attributes. Speed and responsiveness may be affected by your filter selections.

It is strongly recommended that users familiarize themselves with the [CAR Code Manual](#) to better understand the data that is collected and how it is input into the crash data system.

The crash data collection and coding requirements changes from time to time so understanding the [Crash Data Disclaimers](#) is also very important.

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SELECTING DATA PARAMETERS

Defining the Geographical Area

The Crash Data Viewer (CDV) offers the last 10 years of published crash data. By default, it will load the latest year of published data. Start by selecting any of the geographic parameters.

Note: You are able to select as many parameters as you desire, which can lead to faster performance because less data is being pulled.

To select specific parameters, click the dropdown menu then unselect the “All” checkbox. This will allow you to customize the parameters. You can also type the specific parameter in the search bar. Click “Apply” when you have added all the parameters. If you do not click apply, the changes will not be saved.

Hint: Start from the broadest parameters (County or City) because the CDV will automatically filter the remaining parameters by only showing relevant values.

Note: “All” is the default selection for each parameter. To get specific data, you must narrow down the parameters.

Filtering Crashes

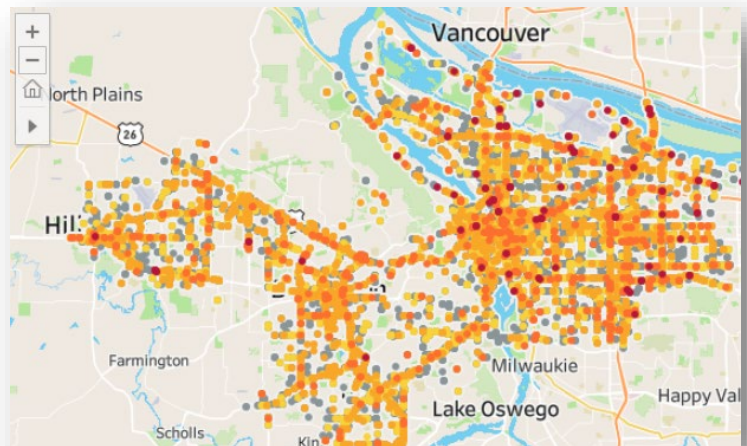
The right side of the viewer contains filters related to the different circumstances of the crash.

Note: Like the geographic parameters, you can select as many as you desire, which will enhance the performance of CDV because less data is being pulled.

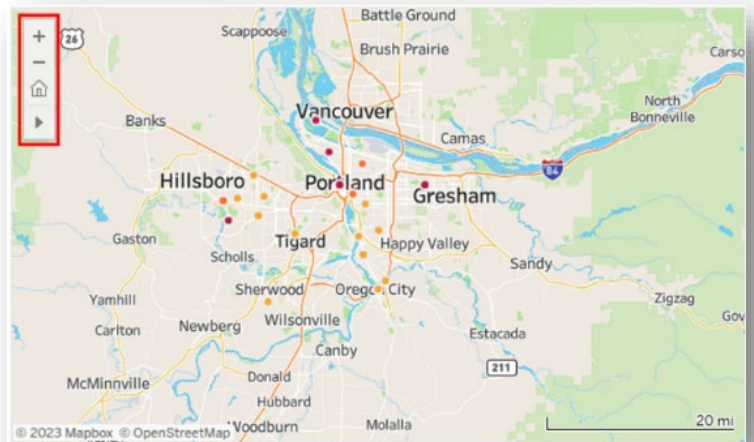
ANALYZING THE DATA

Using the Crash Map

Once you have selected the geographic parameters and corresponding circumstances, the CDV will map out all the crashes related to your specific search. It will also provide a summary of the data below the map.



You can zoom in and out using the toolbar on the top-left side of the map. You can also use your cursor to change the zoom by using two fingers on the trackpad or spinning the scroll wheel on a mouse.

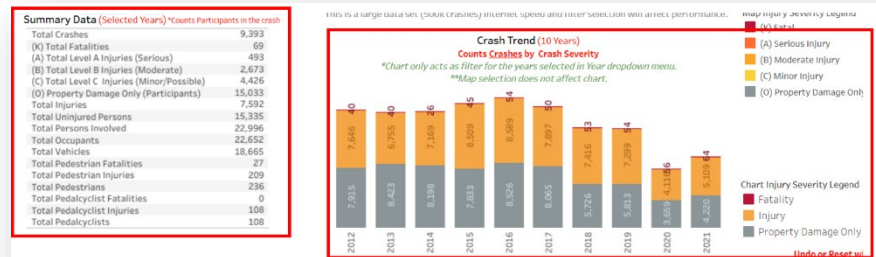


Pressing the “home” button will re-center the map on the selected data and refocus the map window on all the data points that were selected for the specific parameters.



Summary Data

At the bottom of the CDV there will be a list of “Summary Data” and a graph for “Crash Trends.” The chart and table will automatically update as you change your selections.

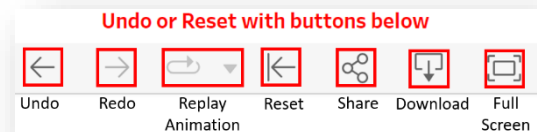


Note: The “Summary Data” only summarizes the selected year(s), while the “Crash Trend” focuses on all 10 years of data.

Also, be aware of the difference between the count of crash participants and the count of crashes, as there may be multiple participants in one crash.

Correcting Mistakes

To undo or reset the data, use the buttons at the bottom of the CDV.

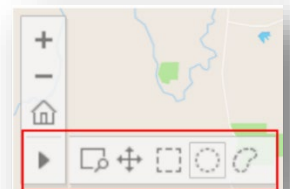


Note: There are also functions to redo, replay animations, share the CDV, download the CDV, and view it in full screen.

SELECTING THE DATA

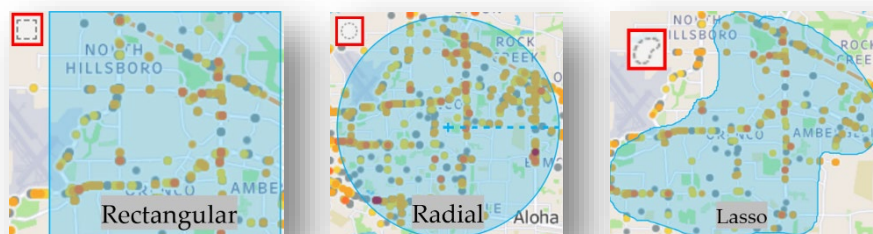
Using Data Selection Tools

The extended menu button (see tool bar on upper left side of the map) will open a picklist of navigation and selection tools. The magnifying glass will zoom in when you left click and grab a window. The crossed arrows allow you to pan the map.



3 Methods for Selecting Data in the CDV

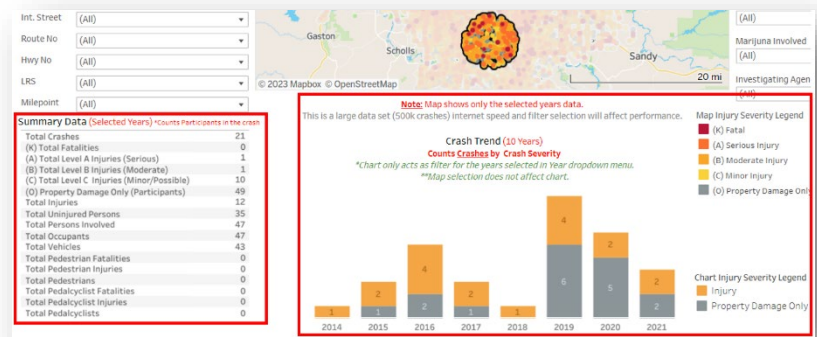
1. The rectangular method creates a rectangle border around data points.
2. The radial method creates a circular boarder around data points.
3. The lasso method is a freehand drawing tool to select data points.



Analyzing the Selected Data

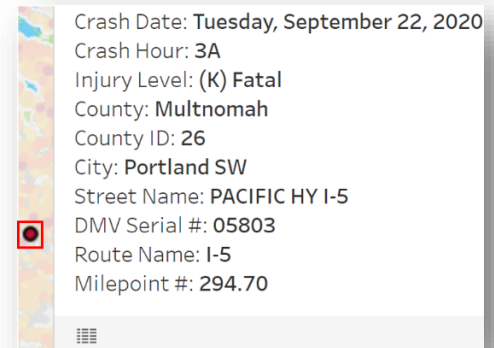
Once data points are selected the “Summary Data” and “Crash Trend” graph will update based on your selection and filter options.

Note: To clear the selected data points click anywhere on the map with no data.



Hovering or clicking a point on the map will offer a tooltip with more insights for the specific crash.

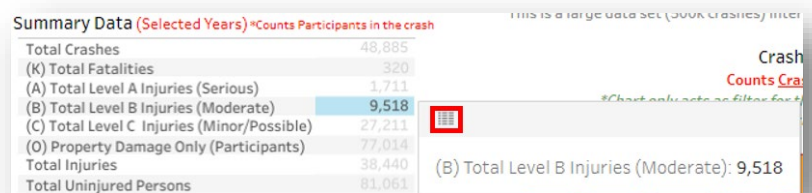
Note: Data points are stacked on top of each other so not all may be visible.



DOWNLOADING AND SHARING DATA

Downloading Data

To understand the data and how each value is calculated, click on an individual value. This can be done either in the “Summary Data” or by selecting a data point on the map. Once the data is selected, click the “View Data” option.

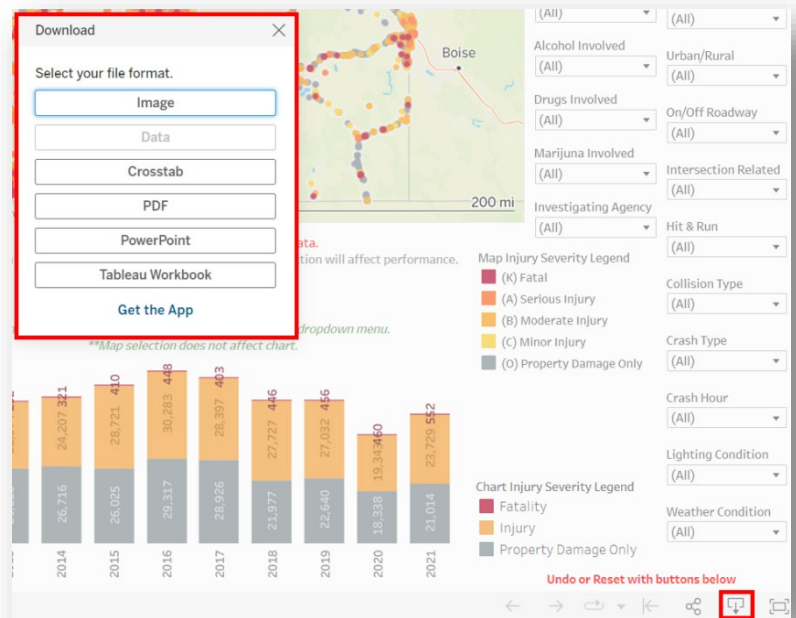


This will navigate you to a pop-up window. Click on “Full Data” to view all the related fields. Then click on “Show All Fields” to select which fields to view/download. Lastly, click on “Download” to save an Excel Spreadsheet of the data.

The screenshot shows the 'Full Data' table with 200 rows and 79 fields. The table has columns for 'Injury Severity', 'Crash Severity', and 'Action code'. A dropdown menu is open, showing a list of fields to select. The fields include 'Hit & Run', 'Hwy Compmt Short ...', 'Hwy Med Nm', 'Hwy No', 'Hwy Sfx No', 'Impact Loc Cd', 'Inj Svty Short Desc', and 'Injury Severity'. The 'Injury Severity' field is selected.

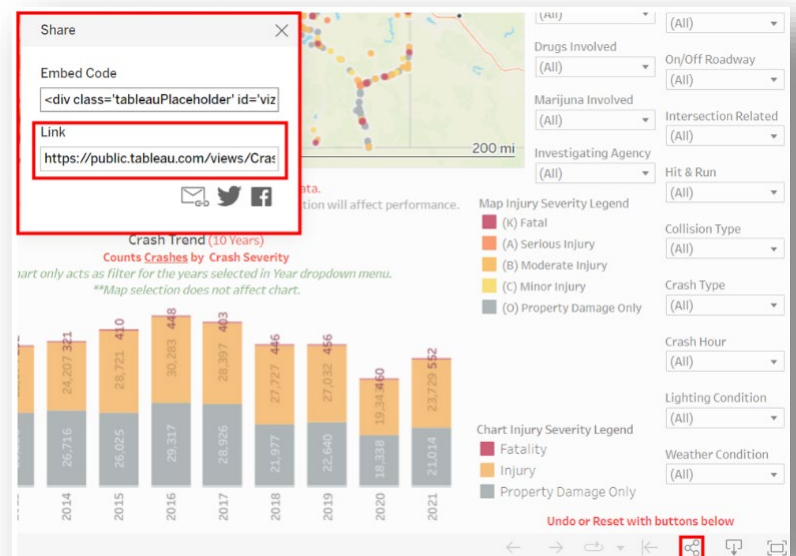
Full Data 200 rows 79 fields		
Summary	ABC	ABC
Full Data	ABC	ABC
Migrated Data	Migrated Data	Migrated Data
Injury Severity	Crash Severity	Action code
(O) Property Damage Only	Property Damage Only	No action or non-warranted
(O) Property Damage Only	Property Damage Only	No action or non-warranted
(O) Property Damage Only	Property Damage Only	No action or non-warranted
(O) Property Damage Only	Property Damage Only	No action or non-warranted

At the bottom of the CDV you are also able to download the data into different formats.
Note: Depending on how much Data is selected, the download speed may vary.



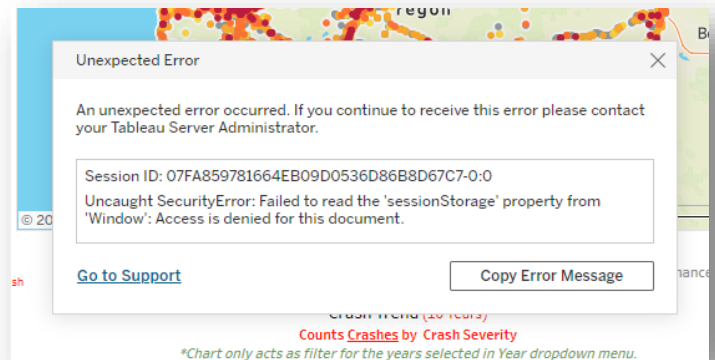
Sharing Data

Click the “Share” button at the bottom of the CDV. A prompt will appear displaying the link and a sharing methods. Copy the link to share the customized CDV.

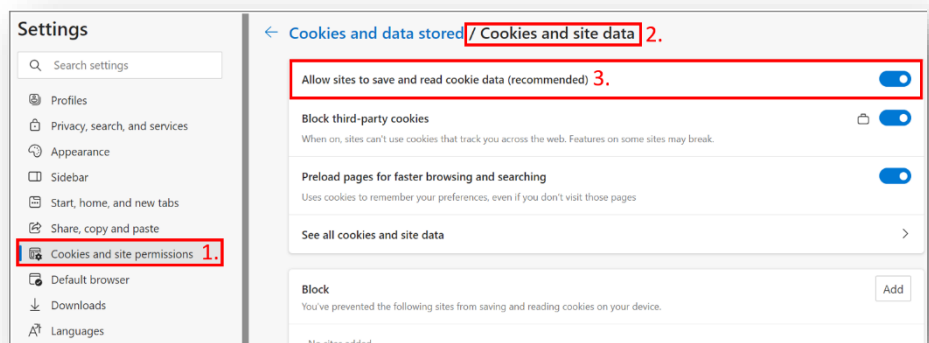


TROUBLESHOOTING ERRORS

Some users may find they are unable to access the CDV in Microsoft Edge. They may be prompted with an error message saying to “contact your Tableau Server Administrator.”



To solve this issue, go to the settings in Microsoft Edge. Select the “Cookies and site permissions” tab. Then choose “Manage and delete cookies and site data.” Lastly turn on “Allow sites to save and read cookie data.”



INFORMATION

If you have suggestions and/or questions, please contact Crash Analysis & Reporting Support at:

CrashAnalysis&ReportingSupport@odot.oregon.gov

Link to the CAR website:

www.oregon.gov/odot/Data/Pages/Crash.aspx