

# PCIT User Manual

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## Version History

<b><u>Version</u></b>	<b><u>Date</u></b>	<b><u>Description</u></b>
0.0	June 20, 2017	Draft Document
1.0	October 6, 2017	Document finalized
1.1	December 4, 2017	Screen shots updated to match PCIT Release 6.1
1.2	March 16, 2018	Document updated to include PCIT Release 6.2: input from maps, and Crash History Report made available to public users.
1.3	September 26, 2018	Document updated to reflect Summer Intern 2018 enhancements.
2.0	November 5, 2021	Document updated to reflect PCIT release 11.0 (ESEC), 11.2 and 11.3.

## **Introduction**

Welcome to the Pennsylvania Crash Information Tool (PCIT). This tool is the public gateway to learn about traffic crashes, fatalities and major injuries statewide and in specific counties or municipalities in the Commonwealth of Pennsylvania.

Crash data presented on PCIT is gathered through PennDOT's partnerships with law enforcement and other safety partners. This effort allows PennDOT to utilize enforcement, engineering and education to make Pennsylvania highways safer.

The PCIT website includes a variety of reports that display the Commonwealth's statistics for traffic crashes, fatalities, and injuries statewide and in specific counties or municipalities. Search capabilities allow the public user to request and view customized crash data reports.

This document serves as a guide for using PCIT to learn about traffic crashes in Pennsylvania. Terms used in this guide are defined in the Glossary. Instructions for interacting with the reports and data are provided, using one report or data set as an example. The instructions present general concepts that apply to all reports or data sets.

## **Glossary**

<b><u>Term</u></b>	<b><u>Definition</u></b>
BAC	Blood Alcohol Content. Determining factor of assessing legal impairment.
Bar Chart	A visual representation of data using bars of different heights to present an image of various values.
CSV	Comma-separated values. A file format used to store tabular data, such as a spreadsheet or database. CSV files may be imported to and exported from programs that store data in tables, such as Microsoft Excel.
Distracted Driving	Any activity that diverts driver attention from the fundamental tasks of operating a vehicle in motion. Examples: texting/cell phone use, eating, grooming, talking to passengers, or any other attention distracting action.
Driver	The automobile operator who is in physical control of a vehicle in motion. For an out-of-control vehicle crash, the driver is the occupant who was in control before control was lost.
Fatal Crash	A crash in which one or more of the involved persons died within 30 days of the crash and died as a result of injuries sustained in the crash.
Fatality (Fatal Injury)	A person dies as a result of injuries sustained in a crash. The death must occur within 30 days of the crash.
Heavy Trucks	Any truck that has a gross vehicle weight rating (GVWR) of more than 10,000 pounds or a gross combination weight rating (GCWR) of more than 10,000 pounds used on public highways.
Icon	A graphic symbol on a computer display screen that represents an application, object or function
Injury Crash	A crash in which no involved persons were fatally injured, but at least one was injured.
JPEG	Joint Photographic Experts Group. The most common format for storing and transmitting images on the Internet.
Light Trucks	A single vehicle designed for transporting property on or in the vehicle. Includes: pickup truck, jeep, etc.
Line Chart	A visual representation of data that changes continuously over time.

<b>Term</b>	<b>Definition</b>
Non-Motorized Fatalities and Suspected Serious Injuries	Fatalities and suspected serious injuries of all pedestrians, bicyclists, horse riders, and horse and buggy occupants in reportable crashes.
Occupant	Any person who is in or upon a vehicle, including the driver, passenger, and person riding on the outside of the vehicle.
Passenger	Any occupant of a vehicle in transit who is not the driver, or any occupant of a parked vehicle.
PCIT	Pennsylvania Crash Information Tool. The public gateway to the Commonwealth's crash statistics.
PDF	Portable Document Format. A file format that captured a printed document as an electronic image. The user is able to view, navigate, print, or forward the document to someone else, but cannot edit the document.
PDO	Property Damage Only. A reportable crash where no fatalities or injuries occur, but damage to an automobile was severe enough to require towing.
Pedestrian	Any person not in or upon a motor vehicle or bicycle in motion.
PennDOT	Pennsylvania Department of Transportation
Pie Chart	A visual representation of data within a circle. Data is divided into sections, each representing a portion of the whole.
Planning Partner	Federally mandated and funded transportation policy-making organization comprised of representatives from local government and governmental transportation authorities. One example is the Metropolitan Planning Organization (MPO).
PNG	Portable Network Graphics. Created as a replacement for GIF (Graphics Interchange Format), PNG protects the quality and transparency of an image.
Possible Injury	Injuries reported by the person or are indicated by his/her behavior, but no wounds or injuries are readily evident.
Reportable Crash	A crash that occurs on a public roadway in which a motor vehicle in transport is involved and damage severity results in injury, fatality, or vehicle damage inevitably requiring towing services. Any crash caused by an intentional act would not

<b><u>Term</u></b>	<b><u>Definition</u></b>
	be reportable unless someone outside of the intended act is injured.
Suspected Minor Injury	Suspected Minor Injuries include lump on the head, abrasions, bruises, minor lacerations (cuts on the skin surface with minimal bleeding and no exposure of deeper tissue/muscle).
Suspected Serious Injury	Suspected Serious Injuries include severe lacerations, significant blood loss, broken or distorted extremity, crush injuries, suspected skull/chest/abdominal injury, significant burns, unconsciousness, or paralysis.
SUV	Sport Utility Vehicle
SVG	Scalable Vector Graphics. An image format for two-dimensional graphics.
Unknown Severity Injury	A person is injured in a crash, but the severity of the injury is not known.

## **Reporting Tools**

PCIT offers two distinct reporting types: Featured Reports and the Custom Query Tool. Featured Reports displays crash data for commonly requested highway safety categories, while allowing users to apply basic filters, and request data in a variety of table and chart formats. Additionally, users may download or save tables and charts.

The Custom Query Tool allows users to retrieve data based on criteria they specify. Data can also be filtered and displayed using various formats.

### ***Featured Reports***

The following reports are available in PCIT. Each report may be filtered by year and various other fields. Additional information on filtering Featured Reports is available in the following section, "Interacting with Feature Reports".

<b><u>Report</u></b>	<b><u>Description</u></b>
Backseat Passengers in Crashes by Restraint Usage	Data includes: injury and fatality totals for Back Seat Motor Vehicle Occupants. Determines whether a restraint was used, not used, or usage was unknown.  Vehicle types included: Autos, light trucks, vans and SUVs.
Crashes Involving Both Motorcycles and Heavy Trucks	Data includes: crash, injury and fatality totals for crashes involving heavy trucks and motorcycles.  Injuries and fatalities include any person involved in the crash.
Crashes Involving Drinking Pedestrians	Data includes: crashes involving pedestrians who have tested for a BAC of .01 or higher or have been suspected of drinking by the investigating officer and have an unknown BAC.  If a crash involves the collision of a vehicle with more than one drinking pedestrian, such a crash would only be represented once.
Crashes Involving Drivers Using Hand-held or Hands-free Phones	Data includes: crashes involving drivers using hand-held or hands-free phones.  Please note that this information is gathered only when an officer determines that such usage has contributed to why the crash occurred.
Crashes Involving Motorcycles and Motorcyclist Fatalities	Data includes: crashes involving one or more motorcycles.

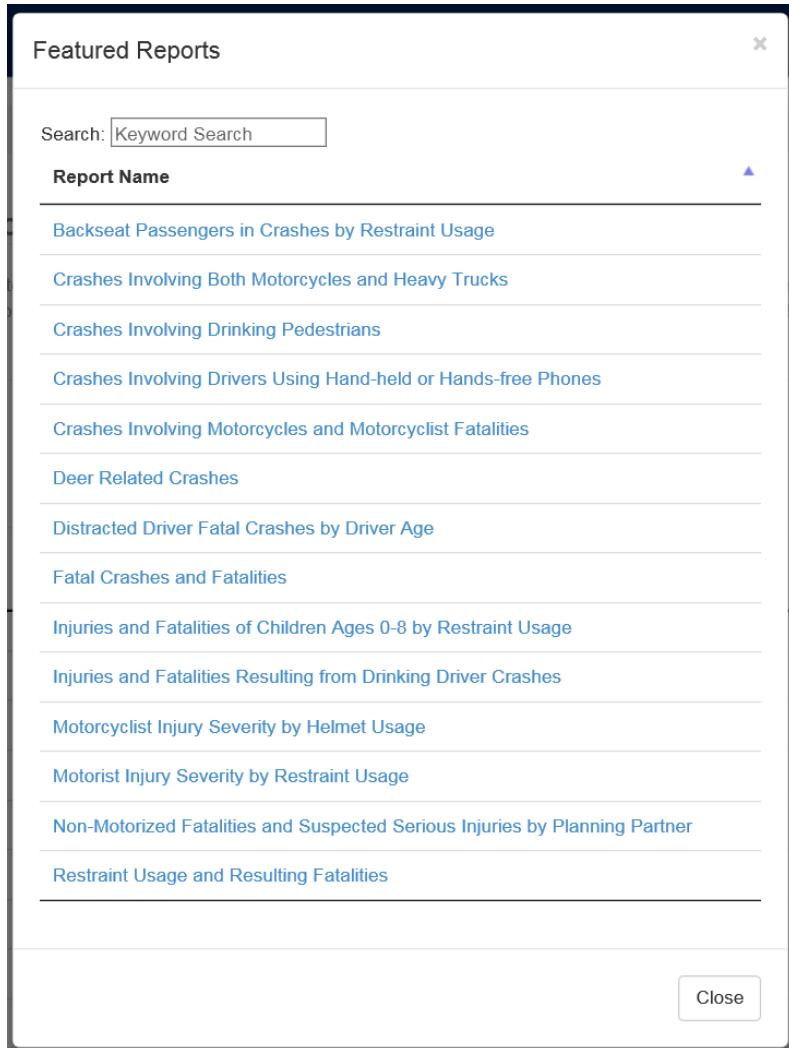
<u>Report</u>	<u>Description</u>
	Motorcyclist Fatalities include only those occurring to the motorcycle occupants, which includes both drivers and passengers.
Deer Related Crashes	Data includes: deer-related crashes that occur when a deer is struck by a vehicle, or a driver takes evasive action due to a deer appearing in the roadway.  The deer may or may not have been hit. Additionally, data includes injuries and fatalities to people resulting from deer-related crashes.
Distracted Driver Fatal Crashes by Driver Age	Data includes: fatal crashes classified by the age of driver with contributing factors of cell phone use or other unrelated attention diverting elements.  Crashes with more than one driver in an age group are counted as one fatal crash only.
Fatal Crashes and Fatalities	Data includes: fatal crashes and fatalities for all crash types.
Injuries and Fatalities Resulting from Drinking Driver Crashes	Data includes: injuries and fatalities for all people involved in drinking driver crashes.
Injuries and Fatalities of Children Ages 0-8 by Restraint Usage	Data includes: injury and fatality totals for children ages 0-8 who are occupants in cars, light trucks, vans, and SUVs.  Restraint usage refers to the type of restraint device used by the child.
Motorcycles Injury Severity by Helmet Usage	Data includes injury severity to motorcycle occupants.  Data includes both drivers and passengers, by helmet usage.
Motorist Injury Severity by Restraint Usage	Data includes: injury and fatality totals for motorists in crashes based on restraint usage.  Restraint usage refers to the type of restraint device used by all the vehicle occupants.
Non-Motorized Fatalities and Suspected Serious	Data includes: fatality and suspected serious injury totals of all pedestrians, bicyclists, horse riders, and horse and buggy occupants in reportable crashes.

<u>Report</u>	<u>Description</u>
Injuries by Planning Partner	
Restraint Usage and Resulting Fatalities	<p>Data includes fatalities for occupants in cars, light trucks, vans, and SUVs.</p> <p>Restraint usage refers to the type of restraint device used by the occupant.</p>

## **Interacting with Featured Reports**

Access the Featured Reports by clicking the  **Featured Reports** icon or by selecting it from the drop-down menu at the top of the screen.

From the report list that displays, select a report.

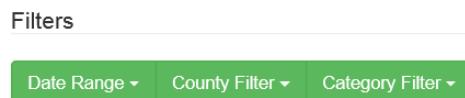


To view a different report, click **More Reports...** in the upper right corner to display the list of available reports.

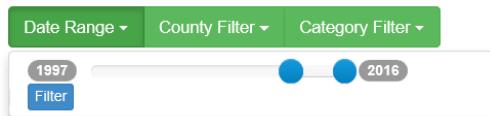
[More Reports...](#)

Several options are available for interacting with the reports.

**Filters** allow the user to select a Date Range, specific County(ies) or statewide, and/or Categories specific to each report.



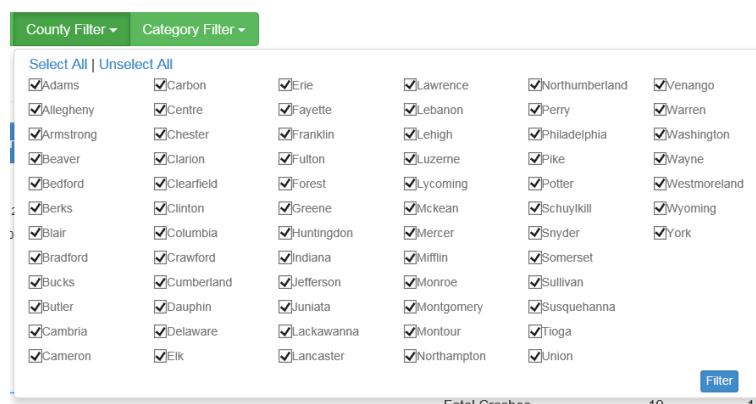
Click **Date Range** to select a specific date range. Use the blue dots to change the dates. Dates begin on January 1 and end on December 31 of the selected years.



Hover over the blue dots to view the selected date range.



Click **County Filter** to select a specific County(ies). By default, all counties will be selected.



Click **Unselect All** to unselect all counties. Clicking **Select All** will select all counties.

County Filter ▾ Category Filter ▾

Select All | Unselect All

<input checked="" type="checkbox"/> Adams	<input checked="" type="checkbox"/> Carbon	<input checked="" type="checkbox"/> Erie	<input checked="" type="checkbox"/> Lawrence	<input checked="" type="checkbox"/> Northumberland	<input checked="" type="checkbox"/> Venango
<input checked="" type="checkbox"/> Allegheny	<input checked="" type="checkbox"/> Centre	<input checked="" type="checkbox"/> Fayette	<input checked="" type="checkbox"/> Lebanon	<input checked="" type="checkbox"/> Perry	<input checked="" type="checkbox"/> Warren
<input checked="" type="checkbox"/> Armstrong	<input checked="" type="checkbox"/> Chester	<input checked="" type="checkbox"/> Franklin	<input checked="" type="checkbox"/> Lehigh	<input checked="" type="checkbox"/> Philadelphia	<input checked="" type="checkbox"/> Washington
<input checked="" type="checkbox"/> Beaver	<input checked="" type="checkbox"/> Clarion	<input checked="" type="checkbox"/> Fulton	<input checked="" type="checkbox"/> Luzerne	<input checked="" type="checkbox"/> Pike	<input checked="" type="checkbox"/> Wayne
<input checked="" type="checkbox"/> Bedford	<input checked="" type="checkbox"/> Clearfield	<input checked="" type="checkbox"/> Forest	<input checked="" type="checkbox"/> Lycoming	<input checked="" type="checkbox"/> Potter	<input checked="" type="checkbox"/> Westmoreland
<input checked="" type="checkbox"/> Berks	<input checked="" type="checkbox"/> Clinton	<input checked="" type="checkbox"/> Greene	<input checked="" type="checkbox"/> McKean	<input checked="" type="checkbox"/> Schuylkill	<input checked="" type="checkbox"/> Wyoming
<input checked="" type="checkbox"/> Blair	<input checked="" type="checkbox"/> Columbia	<input checked="" type="checkbox"/> Huntingdon	<input checked="" type="checkbox"/> Mercer	<input checked="" type="checkbox"/> Snyder	<input checked="" type="checkbox"/> York
<input checked="" type="checkbox"/> Bradford	<input checked="" type="checkbox"/> Crawford	<input checked="" type="checkbox"/> Indiana	<input checked="" type="checkbox"/> Mifflin	<input checked="" type="checkbox"/> Somerset	
<input checked="" type="checkbox"/> Bucks	<input checked="" type="checkbox"/> Cumberland	<input checked="" type="checkbox"/> Jefferson	<input checked="" type="checkbox"/> Monroe	<input checked="" type="checkbox"/> Sullivan	
<input checked="" type="checkbox"/> Butler	<input checked="" type="checkbox"/> Dauphin	<input checked="" type="checkbox"/> Juniata	<input checked="" type="checkbox"/> Montgomery	<input checked="" type="checkbox"/> Susquehanna	
<input checked="" type="checkbox"/> Cambria	<input checked="" type="checkbox"/> Delaware	<input checked="" type="checkbox"/> Lackawanna	<input checked="" type="checkbox"/> Montour	<input checked="" type="checkbox"/> Tioga	
<input checked="" type="checkbox"/> Cameron	<input checked="" type="checkbox"/> Elk	<input checked="" type="checkbox"/> Lancaster	<input checked="" type="checkbox"/> Northampton	<input checked="" type="checkbox"/> Union	

Fatal Crashes 10 11 Filter

Click on a specific county(ies) to select the county(ies). Click the Filter button to confirm your selection.

County Filter ▾ Category Filter ▾

Select All | Unselect All

<input type="checkbox"/> Adams	<input type="checkbox"/> Carbon	<input type="checkbox"/> Erie	<input type="checkbox"/> Lawrence	<input type="checkbox"/> Northumberland	<input type="checkbox"/> Venango
<input type="checkbox"/> Allegheny	<input type="checkbox"/> Centre	<input type="checkbox"/> Fayette	<input type="checkbox"/> Lebanon	<input type="checkbox"/> Perry	<input type="checkbox"/> Warren
<input type="checkbox"/> Armstrong	<input checked="" type="checkbox"/> Chester	<input type="checkbox"/> Franklin	<input type="checkbox"/> Lehigh	<input checked="" type="checkbox"/> Philadelphia	<input type="checkbox"/> Washington
<input type="checkbox"/> Beaver	<input type="checkbox"/> Clarion	<input type="checkbox"/> Fulton	<input type="checkbox"/> Luzerne	<input type="checkbox"/> Pike	<input type="checkbox"/> Wayne
<input type="checkbox"/> Bedford	<input type="checkbox"/> Clearfield	<input type="checkbox"/> Forest	<input checked="" type="checkbox"/> Lycoming	<input type="checkbox"/> Potter	<input type="checkbox"/> Westmoreland
<input type="checkbox"/> Berks	<input type="checkbox"/> Clinton	<input type="checkbox"/> Greene	<input type="checkbox"/> McKean	<input type="checkbox"/> Schuylkill	<input type="checkbox"/> Wyoming
<input type="checkbox"/> Blair	<input type="checkbox"/> Columbia	<input type="checkbox"/> Huntingdon	<input type="checkbox"/> Mercer	<input type="checkbox"/> Snyder	<input type="checkbox"/> York
<input type="checkbox"/> Bradford	<input type="checkbox"/> Crawford	<input type="checkbox"/> Indiana	<input type="checkbox"/> Mifflin	<input type="checkbox"/> Somerset	
<input checked="" type="checkbox"/> Bucks	<input type="checkbox"/> Cumberland	<input type="checkbox"/> Jefferson	<input type="checkbox"/> Monroe	<input type="checkbox"/> Sullivan	
<input type="checkbox"/> Butler	<input type="checkbox"/> Dauphin	<input type="checkbox"/> Juniata	<input checked="" type="checkbox"/> Montgomery	<input type="checkbox"/> Susquehanna	
<input type="checkbox"/> Cambria	<input checked="" type="checkbox"/> Delaware	<input type="checkbox"/> Lackawanna	<input type="checkbox"/> Montour	<input type="checkbox"/> Tioga	
<input type="checkbox"/> Cameron	<input type="checkbox"/> Elk	<input type="checkbox"/> Lancaster	<input type="checkbox"/> Northampton	<input type="checkbox"/> Union	

Filter

Click the **Category Filter** to select a specific category(ies). Because categories are specific to each report, they will vary from report to report. Click the specific category to remove/add it, then click the Filter button to confirm your selection.

Category Filter ▾

Crashes  
 Fatalities  
 Injuries

Filter

**Save My Data** allows the user to save the report in a variety of formats. Click Save My Data to view PDF, Excel and CSV formats to save data.



To select a format, click on the desired format. A band should display toward the bottom of your screen, prompting you to open or save the document.

Internet Explorer – click Open or Save to open or save the document. Click Cancel to cancel the request.



Chrome – click the arrow to open the document. Save the document after it opens. Click X to cancel the request.



The **Selected Options** box, located to the left of the report data, displays a summary of the chosen parameters for that specific report.



Bar Charts and Line Charts are located below the Report Data. These charts are visual representations of the report's data. Any changes made to the Date Range, County Filter or Category Filter will impact both the Report Data and the Bar/Line Charts.

**Bar Charts** will display by default. Click **Line Chart** to view line charts.



Bar Charts and Line Charts may be printed or downloaded. To view Print and Download options, click the menu icon in the upper right corner of a chart.



Click to select the desired format – print, download PNG, download JPEG, download PDF, download SVG. A pop-up message should display on your screen, allowing you to save or print the chart.

*Note:* each chart has a menu icon to print/download. When printing multiple charts, each chart must be printed separately.

## **Custom Query Tool**



Custom Query Tool

icon or by

Access the Custom Query Tool by clicking the icon or by selecting it from the drop-down menu at the top of the screen.



**Building a New Report** – The Data Selection Options page displays options for building your new report (query). Five (5) tabs are available for entering parameters:

- Analysis Type – The Analysis Type determines what will be counted. Do you want to count total crashes, or people or vehicles involved in the crashes?
- Date Range – Identify the date parameters for your report. Date ranges should not exceed ten (10) years.
- Filter Characteristics – Identify additional crash parameters for your report.
- Display Columns – Identify how the data will be grouped.
- Location – Identify the County(ies), Municipality(ies) or road(s) for which you would like to search.

### Data Selection Options

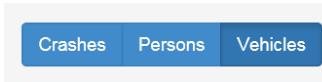
You can select one Analysis type at a time. The Analysis determines what will be counted. Do you want to count total crashes, or people or vehicles involved in the crashes? Viewing data as a Map is only available for Analysis Type of "Crashes".

Crashes   Persons   Vehicles

1. Analysis Type – This section allows the user to select what data will be counted. You can select one Analysis type at a time. Viewing data as a Map is only available for Analysis Type of "Crashes".

Analysis Type	
Crash	Counts the number of crashes that match the user's selected parameters.
Persons	Counts the number of people involved in the crashes that match the user's selected parameters.
Vehicles	Counts the number of vehicles involved in the crashes that match the user's selected parameters.

Click Crashes, Persons or Vehicles to select analysis type.



The Query Tool has additional detail options under the "Persons" Analysis type. Special consideration was made to query fatalities within the analysis type. Under "Persons", "Person", you will find "Fatal Count".

PCIT / Custom Query Tool

Data Selection Options

Analysis Type

You can select one Analysis type at a time. The Analysis determines what will be counted. Do you want to count total crashes, or people or vehicles involved in the crashes? Viewing data as a Map is only available for Analysis Type of "Crashes".

Date Range

Filter Characteristics

Display Columns

Location

**Fatal Count**

Crashes Persons Vehicles

Choose Sub type ▾

Drivers  
Non Motorist  
Occupants  
Person

Get My Report

All Person Count  
  
Fatal Count  
  
Suspected Serious Injury Count  
  
Total Injury Count

Persons involved in Crash

Get My Report

Disclaimer Notes:

- 1) The information contained in this document is drawn from raw data and should not be interpreted as representing an engineering judgment or determination made by the Department of Transportation as to the type and severity of accidents noted herein.
- 2) The data available in this application is dynamic. Data may be added or changed as additional information is made available to the Department

2. Date Range – This section allows the user to select the dates to be displayed on the report. Presently, data is available from January 1, 1999. Please be aware, data for a specific calendar year normally is not available until late spring of the following calendar year. Additionally, the selected date range should not exceed 10 years. Requesting longer time frames may impact the timeliness of displaying results.

Data Selection Options

The screenshot shows a user interface for 'Data Selection Options'. On the left, there's a vertical sidebar with tabs: 'Analysis Type' (selected), 'Date Range' (highlighted in blue), 'Filter Characteristics', 'Display Columns', and 'Location'. The main area has a heading 'Select the starting and ending month and year for which you would like to search. Date ranges may not exceed 10 years.' Below this are two sets of dropdown menus: 'Start Date' (set to January 2016) and 'End Date' (set to December 2016).

The report's date range is selected by choosing the appropriate year and month from the drop-down menus.

*Note:* The Start Date will be first day of the month selected, and the End Date will be the last day of the month selected.

### 3. Filter Characteristics

To further limit your report, filter by various crash characteristics. Crash Characteristics are elements of the crash that can be selected to further describe the types of crashes for which you are searching.

Crash Characteristics are grouped in six categories: Crash, Crash Event, Road, Driver/Person, Vehicle, and Severity. From the displayed characteristics, select a maximum of 5 characteristics to include on your report.

When multiple characteristics are selected, the "AND" operator is used. Only records meeting all selected characteristics will display in the report.

Some characteristics have a secondary dropdown menu allowing the user to select specific values of that characteristic. No matter how many values are selected, it will still be considered only one characteristic of the maximum of 5 characteristics allowed.

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Reporting Tools ▾ Crash Downloads ▾ Public Datasets ▾ Help ▾

POT / Custom Query Tool

### Data Selection Options

Analysis Type  
Date Range  
**Filter Characteristics**  
Display Columns  
Location

If you would like to limit your query further you may select various Crash Characteristics. Crash characteristics are elements that further describe the types of crashes for which you are searching. Displayed results will match ALL selected characteristics. A maximum of 5 characteristics can be selected.

Selected Filter Characteristics

Crash	Crash Event	Road	Driver/Person	Vehicle	Severity
<input type="text" value="Search Filter Characteristics"/>					
Column	Description				
Collision Type	Crash description or type of collision <input type="checkbox"/> Front contact <input type="checkbox"/> Angle <input type="checkbox"/> Rear-end <input type="checkbox"/> Sideswipe (same dir.) <input type="checkbox"/> Head-on <input type="checkbox"/> Sideswipe (opposite dir.) <input type="checkbox"/> Rear-to-rear (Backing) <input type="checkbox"/> Other or Unknown <input type="checkbox"/> Hit fixed object				
Crash Month	Month in which the crash occurred				
Day Of Week	Day of the week that the crash occurred				
Hour Of Day	Hour of day when the crash occurred				
Illumination	Lighting condition				
School Zone Indicator	Indicates that the crash took place within a school zone				

Crash Analysis Report [Get My Report ▾](#)

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Some characteristics are designed with a “yes” or “no” value. These flag indicators allow the user to determine if the crash exists or does not exist with this situation.

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Reporting Tools ▾ Crash Downloads ▾ Public Datasets ▾ Help ▾

Data Selection Options

Analysis Type  
Date Range  
**Filter Characteristics**  
Display Columns  
Location

If you would like to limit your query further you may select various Crash Characteristics. Crash characteristics are elements that further describe the types of crashes for which you are searching. Displayed results will match ALL selected characteristics. A maximum of 5 characteristics can be selected.

Selected Filter Characteristics

Crash	Crash Event	Road	Driver/Person	Vehicle	Severity
<input type="text" value="Search Filter Characteristics"/>					
Column	Description				
Collision Type	Crash description or type of collision				
Crash Month	Month in which the crash occurred				
Day Of Week	Day of the week that the crash occurred				
Hour Of Day	Hour of day when the crash occurred				
Illumination	Lighting condition				
School Zone Indicator	Indicates that the crash took place within a school zone				
Weather	Weather conditions				

Crash Analysis Report [Get My Report ▾](#)

**Disclaimer Notes:**  
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To search for characteristics, enter text into the “Search Display Columns” box and then press the ENTER key on your keyboard.

The screenshot shows the 'Data Selection Options' interface. On the left, there are several filter categories: Analysis Type, Date Range, Filter Characteristics, Display Columns, and Location. The 'Display Columns' category is highlighted with a blue bar at the bottom. On the right, a detailed view of the 'Display Columns' section is shown. It includes a note about selecting crash characteristics, a 'Selected Filter Characteristics' table with columns for Crash Events, Road, Driver/Person, Vehicle, and Severity, and a 'Search Filter Characteristics' input field. Below this is a table with 'Column' and 'Description' headers, showing 'Aggressive Driving' as an example.

#### 4. Display Columns

To group data on your report, select columns to group data. A maximum of 3 columns can be selected. This feature can only be used when viewing the output report as a table.

This screenshot shows the same 'Data Selection Options' interface as above, but with a specific item selected. The 'Aggressive Driving' entry in the 'Display Columns' table has a green checkmark icon next to it, indicating it is selected. The rest of the interface remains the same, including the filter categories on the left and the detailed view on the right.

#### 5. Location – This section allows the user to select the county(ies), municipality(ies) or road(s) to be displayed on the report. If no county(ies) or road(s) are selected, the report will display statewide totals for all 67 counties in Pennsylvania.

When Analysis Type = “Crashes” is selected, users may select the desired location from a list of counties or by drawing on a map.

When Analysis Type = “Persons” or “Vehicles”, users may select the desired location only from a list of counties.

This screenshot shows the 'Data Selection Options' interface with the 'Location' category highlighted. On the left, there are filter categories: Analysis Type, Date Range, Filter Characteristics, Display Columns, and Location. The 'Location' category is highlighted with a blue bar at the bottom. On the right, a 'Select input type for your query:' dialog box is open, showing two options: 'Location By List' and 'Location By Map', both of which are highlighted with red boxes.

## **Location by List**

**Note:** Only locations with non-zero values will display. If a County or Municipality is selected for a report but has no records that meet the user's selected criteria for the report, the County or Municipality will not display on the report.

A summary of selecting locations for the query is located at the end of this location section.

Begin the selection process by clicking LOCATION BY LIST.

### Data Selection Options

Analysis Type

Date Range

Filter Characteristics

Display Columns

Location

Select input type for your query:

**Location By List**      Location By Map

To select a county(ies), click the NO COUNTIES SELECTED button.

### Data Selection Options

Analysis Type

Date Range

Filter Characteristics

Display Columns

Location

Select input type for your query:

**Location By List**      Location By Map

Select the County(ies) for which you would like to search. You may select multiple counties at a time. All counties will be included if no selection is made.

After a county is selected, you may select one or more municipality within the county. All municipalities within a county will be included if no selection is made.

Selected Counties

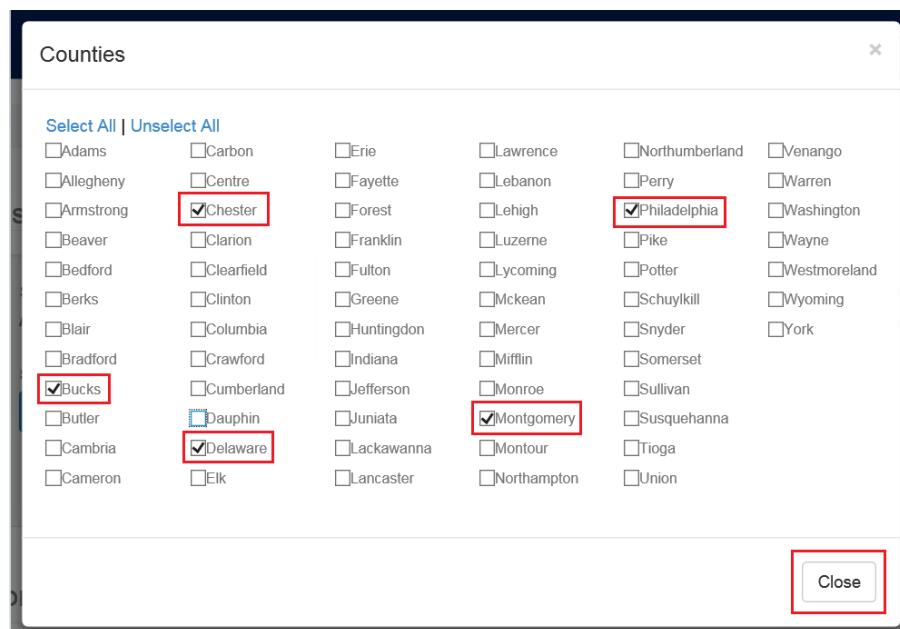
**No Counties Selected**

The counties are listed in alphabetic order. By default, no counties will be selected.



Clicking Select All will select all counties. Click Unselect All to unselect all counties.

Click on a specific county(ies) to select the county(ies). Click the Close button to confirm and save your selection.



The selected counties will display, providing the opportunity to select municipalities within each county.

#### Data Selection Options

The screenshot shows a user interface for data selection. On the left, there is a vertical sidebar with the following options: Analysis Type, Date Range, Filter Characteristics, Display Columns, and Location. The Location option is highlighted with a blue background and white text. To the right of the sidebar is a main content area with a light gray background. At the top of this area, it says "Select input type for your query:" followed by two buttons: "Location By List" and "Location By Map". Below these buttons, there is a section titled "Selected Counties" which contains a button labeled "5 Counties Selected". To the right of this, there are three columns of dropdown menus for different counties: Bucks, Chester, Delaware, Montgomery, Philadelphia, and another unnamed county. Each column has a dropdown menu with the option "No Municipalities Selected" repeated multiple times.

To select municipalities within a county, click the drop-down arrow below a county. An alphabetic list of all municipalities within that county displays. Click SELECT ALL to include all municipalities in respective county. To select only specific municipalities, click the specific municipality(ies).

If multiple counties are selected, and no municipalities are selected, data for each county selected should display. In the screen shot above, data for Bucks, Chester, Delaware, Montgomery and Philadelphia Counties should display because no municipalities were selected.

If multiple counties are selected, but municipalities are selected in only one or two counties, data for each municipality selected should display. Data will not display for counties with no selected municipalities. In the screen shot below, data for the municipalities of Abington Twp, Bridgeport Boro and Collegeville Boro (all in Montgomery County) should display. No data for Bucks, Chester, Delaware and Philadelphia Counties will display because no municipalities were selected from those counties.

### Data Selection Options

The screenshot shows a user interface for selecting data analysis options. On the left, there is a sidebar with buttons for Analysis Type, Date Range, Filter Characteristics, Display Columns, and Location. The Location button is highlighted with a blue arrow pointing towards the main content area. The main content area has a title "Select input type for your query:" and two tabs: "Location By List" (selected) and "Location By Map". Below this, instructions say: "Select the County(ies) for which you would like to search. You may select multiple counties at a time. All counties will be included if no selection is made." and "After a county is selected, you may select one or more municipality within the county. All municipalities within a county will be included if no selection is made." There are three main sections for county selection: "Selected Counties" (5 Counties Selected), "Bucks" (No Municipalities Selected), "Delaware" (No Municipalities Selected), "Philadelphia" (No Municipalities Selected), and "Chester" (No Municipalities Selected). A dropdown menu for "Montgomery" shows a list of municipalities: "Select all" (unchecked), "Abington (TWP)" (checked), "Ambler (BORO)" (unchecked), "Bridgeport (BORO)" (checked), "Bryn Athyn (BORO)" (unchecked), "Cheltenham (TWP)" (unchecked), "Collegeville (BORO)" (checked), and "Conshohocken (BORO)" (unchecked). The "Montgomery" dropdown has a red border around it.

**Analysis Type**

**Date Range**

**Filter Characteristics**

**Display Columns**

**Location**

Select input type for your query:

**Location By List** **Location By Map**

Select the County(ies) for which you would like to search. You may select multiple counties at a time. All counties will be included if no selection is made.

After a county is selected, you may select one or more municipality within the county. All municipalities within a county will be included if no selection is made.

**Selected Counties**

**Bucks**

No Municipalities Selected ▾

**Delaware**

No Municipalities Selected ▾

**Philadelphia**

No Municipalities Selected ▾

**Chester**

No Municipalities Selected ▾

**Montgomery**

3 Municipalities Selected ▾

Select all

Abington (TWP)

Ambler (BORO)

Bridgeport (BORO)

Bryn Athyn (BORO)

Cheltenham (TWP)

Collegeville (BORO)

Conshohocken (BORO)

**Crash Analysis Report** **Get My Report ▾**

## A Summary of Selecting Locations

Selection	Display																								
Selected Counties / No Counties Selected	Statewide Totals																								
<p>Selected Counties</p> <p>No Counties Selected</p>																									
Selected Counties / 4 Counties Selected	Countywide Totals for the 4 Selected Counties – Bucks, Chester, Delaware, Montgomery																								
<p>Selected Counties</p> <p>Bucks      Chester      Delaware</p> <p>4 Counties Selected      No Municipalities Selected      No Municipalities Selected      No Municipalities Selected</p> <p>Montgomery      No Municipalities Selected</p>																									
Selected Counties / 4 Counties Selected / All [Municipalities] Selected	Municipality wide Totals for all Selected Municipalities in the 4 Selected Counties – Bucks, Chester, Delaware, Montgomery																								
<p>Selected Counties</p> <p>Bucks      Chester      Delaware</p> <p>4 Counties Selected      All selected (54)      All selected (73)      All selected (49)</p> <p>Montgomery      All selected (62)</p>																									
Selected Counties / 4 Counties Selected / Municipalities Selected in only 2 Counties	Municipality wide Totals for the Selected Municipalities only (Avondale Boro and Charlestown Twp in Chester County; Collegeville Boro and Conshohocken Boro in Montgomery County). No data will display for Bucks or Delaware Counties, as no municipalities were selected.																								
<p>Selected Counties</p> <p>Bucks      Chester      Delaware</p> <p>4 Counties Selected      No Municipalities Selected      2 Municipalities Selected      No Municipalities Selected</p> <p>Montgomery      2 Municipalities Selected</p> <p>Report      Get My Report</p> <table border="1"> <thead> <tr> <th>COUNTY</th> <th>MUNICIPALITY</th> <th>2016</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td>CHESTER</td> <td>AVONDALE (BORO)</td> <td>17</td> <td>17</td> </tr> <tr> <td>CHESTER</td> <td>CHARLESTOWN (TWP)</td> <td>83</td> <td>83</td> </tr> <tr> <td>MONTGOMERY</td> <td>COLLEGEVILLE (BORO)</td> <td>29</td> <td>29</td> </tr> <tr> <td>MONTGOMERY</td> <td>CONSHOHOCKEN (BORO)</td> <td>34</td> <td>34</td> </tr> <tr> <td></td> <td></td> <td>163</td> <td>163</td> </tr> </tbody> </table>	COUNTY	MUNICIPALITY	2016	TOTAL	CHESTER	AVONDALE (BORO)	17	17	CHESTER	CHARLESTOWN (TWP)	83	83	MONTGOMERY	COLLEGEVILLE (BORO)	29	29	MONTGOMERY	CONSHOHOCKEN (BORO)	34	34			163	163	
COUNTY	MUNICIPALITY	2016	TOTAL																						
CHESTER	AVONDALE (BORO)	17	17																						
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MONTGOMERY	COLLEGEVILLE (BORO)	29	29																						
MONTGOMERY	CONSHOHOCKEN (BORO)	34	34																						
		163	163																						

## Location by Map

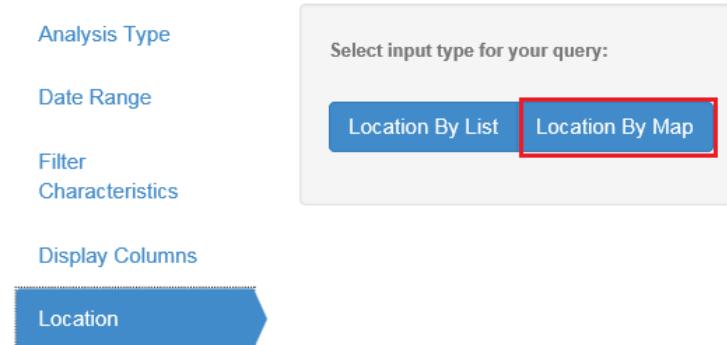
Location by Map is only available when Analysis Type = "Crashes". When Analysis Type = "Persons" or "Vehicles", Location by List should be used.

Location by map allows users to select a location by drawing with a point, line, circle or polygon, or by selecting regions of the Commonwealth. Users should zoom in to the requested geographic area before using the point, line, circle or polygon tools.

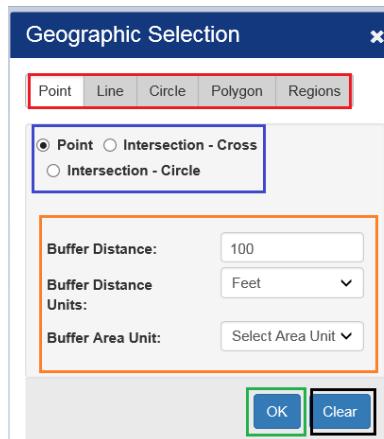
Please be aware, data selected by geospatial crash location represents approximate crash results.

Begin the selection process by clicking LOCATION BY MAP.

### Data Selection Options



**GEOGRAPHIC SELECTION WINDOW** – The following are general concepts and apply to each of the Geographic Selection tools.



**Tabs** (red square) – geographic tools are grouped on five tabs - Point, Line, Circle, Polygon and Regions. Each tab contains different tools.

**Tools** (blue square) - this area lists tools specific to the selected tab. Click the radio button to select a tool.

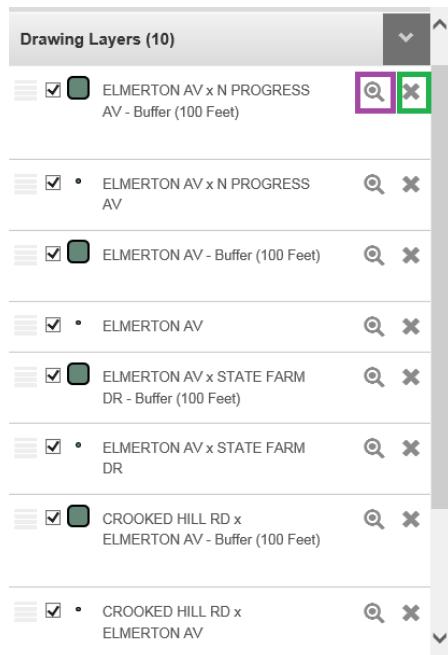
**Buffer characteristics** (orange square) – the buffer identifies how much area around the selected location will be included in the results. Buffer characteristics can be changed, either by entering a new value or selecting from a drop-down list.

**OK button** (green square) - accepts the location(s) placed on the map by the user. Refrain from clicking OK until *after* the crash location has been placed on the map.

**Clear button** (black square) – removes selected location(s) from the map. After location(s) are removed, the user may select new location(s) for the report.

**REMOVING LOCATIONS FROM THE MAP** - The following concepts apply to results from each of the Geographic Selection tools.

When results are displayed on the map, the list of selected locations will display in a window on the left side of the screen. From this window, the user may zoom into a location. Additionally, users may remove selected locations from the map.



To zoom into a location, click on the magnifying glass (purple square) next to the desired location.

To remove a location, click on the "x" (green square) next to the desired location.

## **POINT**

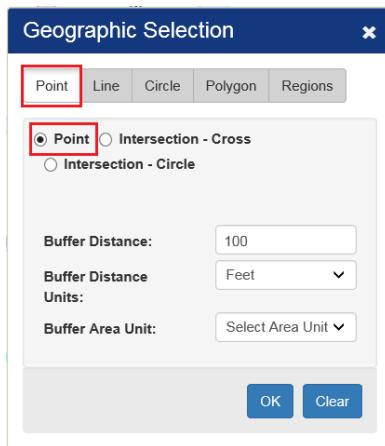
Selecting location by POINT is helpful when the exact location is known. The location may be an intersection, mid-block or elsewhere on a roadway.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



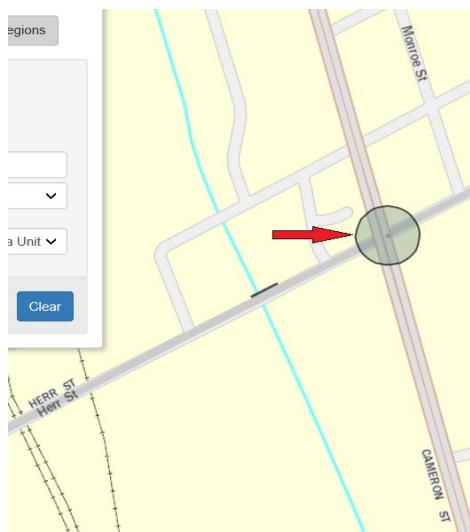
On the Geographic Selection window, select the POINT tab, then the POINT radio button.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

Default values display for the buffer, and may also be changed

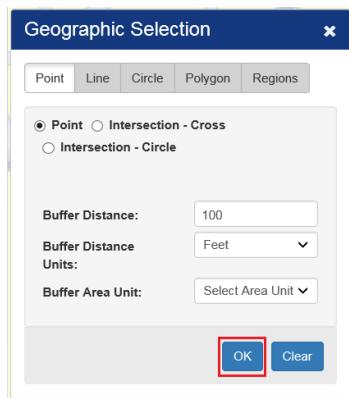
Click on the map to place a point at the desired location.



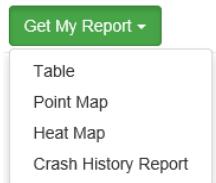
Clicking at other map locations will allow users to place multiple points on the map. Placing fewer (i.e., 1 or 2) points on the map will result in a more concise display of the crash data.

To clear the map and start with new points, click the CLEAR button. The map will refresh, and previously selected points will be removed from the map. Users may now start fresh with selecting points.

Click the OK button to accept the point(s) placed on the map.



Click the GET MY REPORT button to view crash results.



Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **INTERSECTION – CROSS**

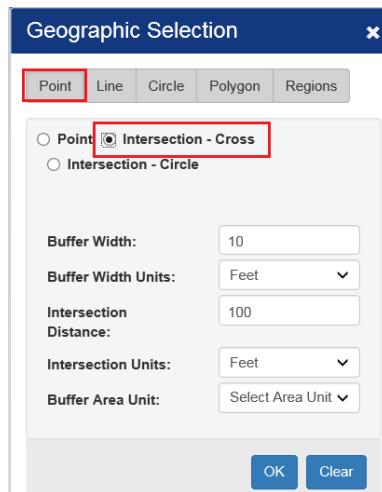
Selecting location by INTERSECTION - CROSS is helpful when the desired location is at an intersection.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



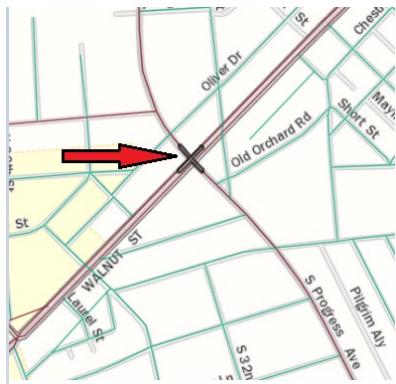
On the Geographic Selection window, select the POINT tab, and the INTERSECTION - CROSS radio button.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

Default values display for the buffer and intersection, and may also be changed.

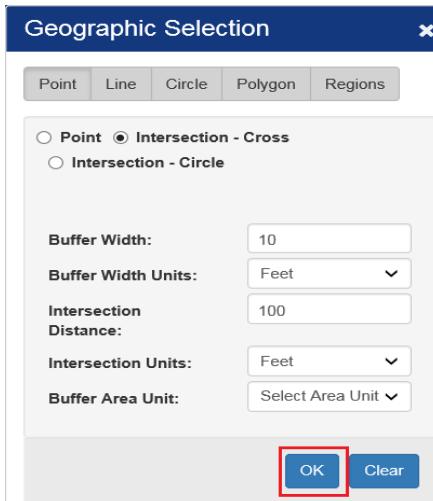
Click on the map to place a cross at the desired intersection.



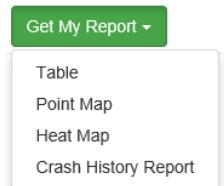
Clicking at other map locations will allow users to select multiple intersections on the map. Selecting fewer (i.e., 1 or 2) intersections on the map will result in a more concise display of the crash data.

To clear the map and start with new intersections, click the CLEAR button. The map will refresh, and previously selected intersections will be removed from the map. Users may now start fresh with selecting intersections.

Click the OK button to accept the intersection(s) placed on the map.



Click the GET MY REPORT button to view crash results.



Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **INTERSECTION – CIRCLE**

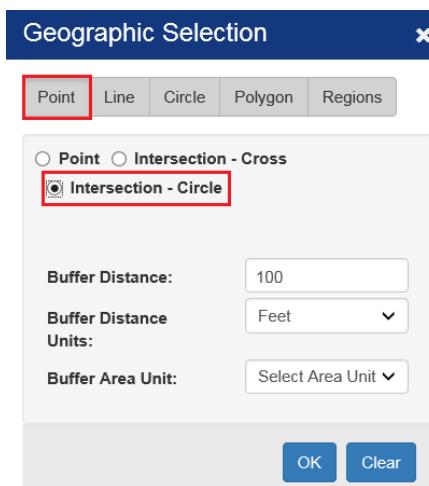
Selecting location by INTERSECTION – CIRCLE is helpful when the desired location is in the vicinity of an intersection.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



On the Geographic Selection window, select the POINT tab, and the INTERSECTION - CIRCLE radio button.



**TIP:** Refrain from clicking OK until *after* the crash location has been placed on the map.

Default values display for the buffer, and may also be changed.

Click on the map to place a circle at the desired intersection.



Clicking at other map locations will allow users to select multiple intersections on the map. Selecting fewer (i.e., 1 or 2) intersections on the map will result in a more concise display of the crash data.

Click the OK button to accept the intersection(s) placed on the map.

Geographic Selection x

Point  Intersection - Cross  
 Intersection - Circle

Buffer Distance:  Feet

Units:

Click the GET MY REPORT button to view crash results.

Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## LINE

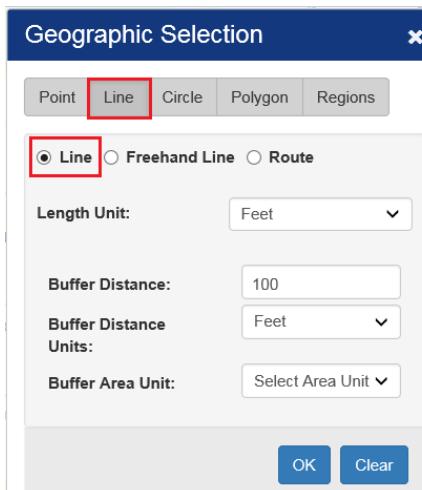
Selecting location by LINE is helpful when selecting an approximate roadway location. This LINE allows users to draw a straight line.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



On the Geographic Selection window, select the LINE tab, then the LINE radio button.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

Default values display for the buffer, and may also be changed

Click on the map to begin the line. Move the mouse to create your line. As the mouse is moved, a red line will display. Double-click to mark the end of the line. After the double-click, the line will turn black.



Clicking at other map locations will allow users to place multiple lines on the map. Placing fewer (i.e., 1 or 2) lines on the map will result in a more concise display of the crash data.

To clear the map and start with new lines, click the CLEAR button. The map will refresh, and previously selected lines will be removed from the map. Users may now start fresh with selecting lines.

Click the OK button to accept the line(s) placed on the map.

Geographic Selection ×

Point  Line  Circle  Polygon  Regions

Line  Freehand Line  Route

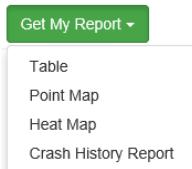
Length Unit: Feet

Buffer Distance: 100  
Buffer Distance Units: Feet

Buffer Area Unit: Select Area Unit

OK Clear

Click the GET MY REPORT button to view crash results.



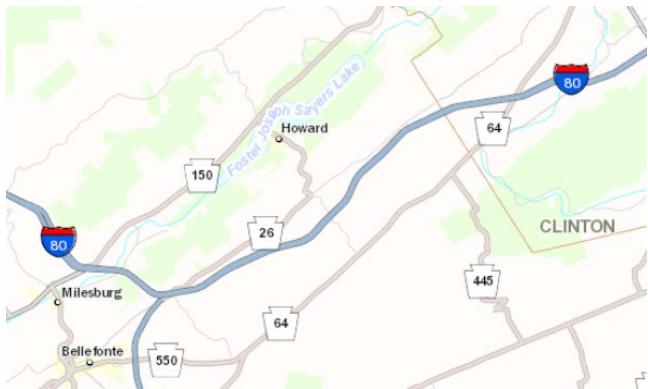
Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

### **FREEHAND LINE**

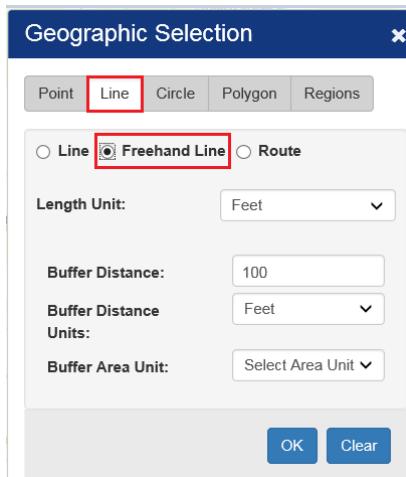
Selecting location by FREEHAND LINE is helpful when selecting an approximate roadway location. The FREEHAND LINE allows users to draw straight or curved lines.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



On the Geographic Selection window, select the LINE tab, then the FREEHAND LINE radio button.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

Default values display for the buffer, and may also be changed

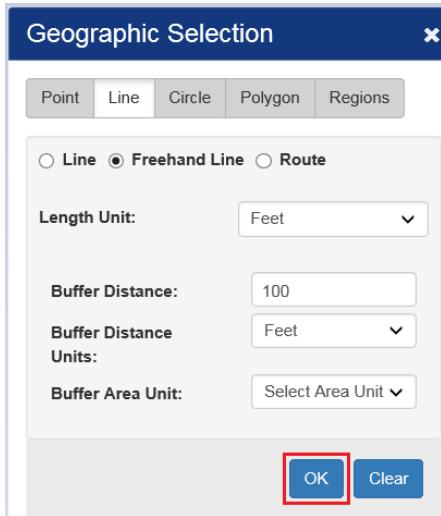
Click on the map to begin the line. Hold down the mouse button and move the mouse to create your line. As the mouse is moved, a red line will display. Release the mouse button to end the line. After the mouse is released, the line will turn black.



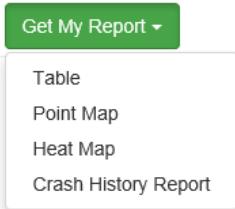
Clicking at other map locations will allow users to place multiple lines on the map. Placing fewer (i.e., 1 or 2) lines on the map will result in a more concise display of the crash data.

To clear the map and start with new lines, click the CLEAR button. The map will refresh, and previously selected lines will be removed from the map. Users may now start fresh with selecting lines.

Click the OK button to accept the line(s) placed on the map.



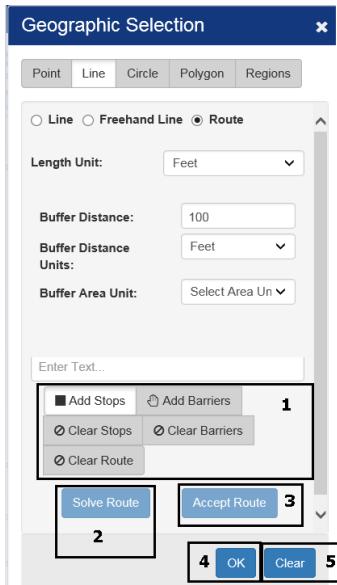
Click the GET MY REPORT button to view crash results.



Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **ROUTE**

When working with the ROUTE tool, selections should be made in the following order:

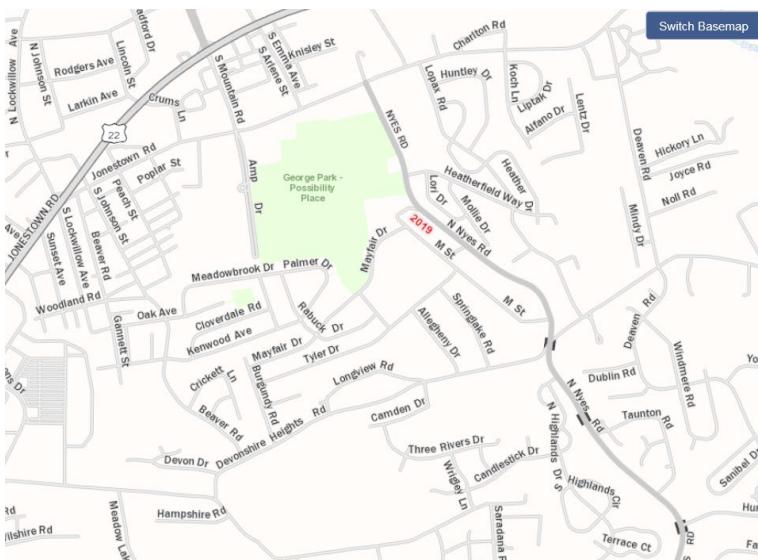


1. Select route, add/clear stops/barriers as necessary
2. Solve route
3. Accept route
4. Click OK for final acceptance of route
5. [OPTIONAL] Click CLEAR to remove route and start fresh

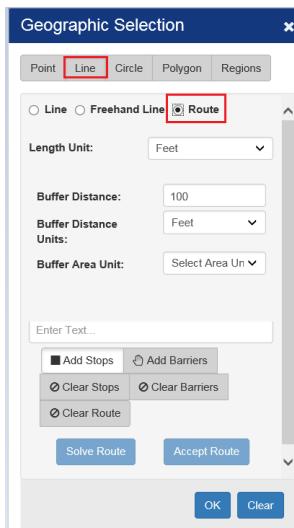
Selecting location by ROUTE is helpful when selecting a length of roadway.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



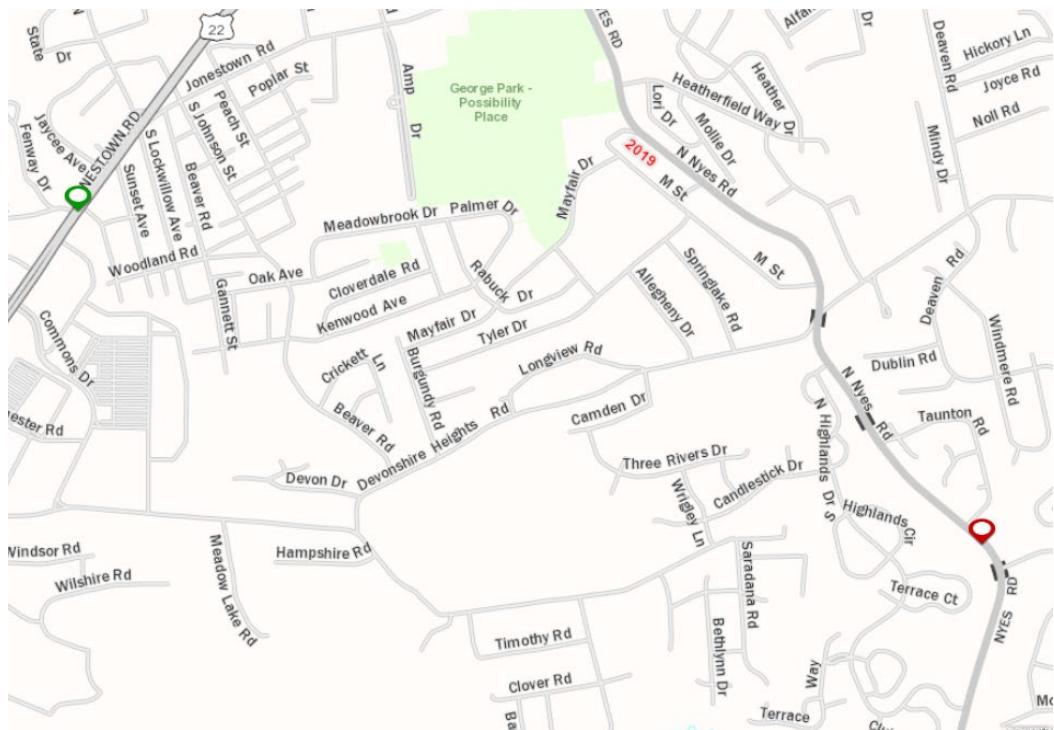
On the Geographic Selection window, select the LINE tab, then the ROUTE radio button.



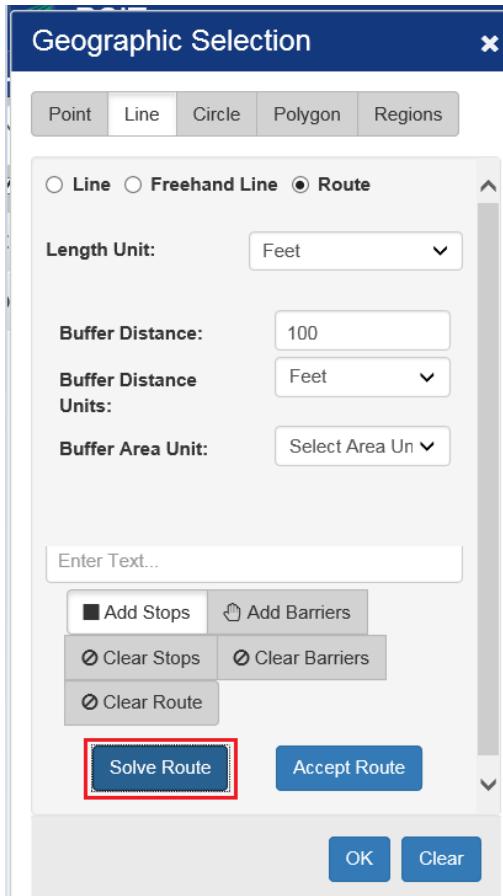
**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

Default values display for the buffer, and may also be changed

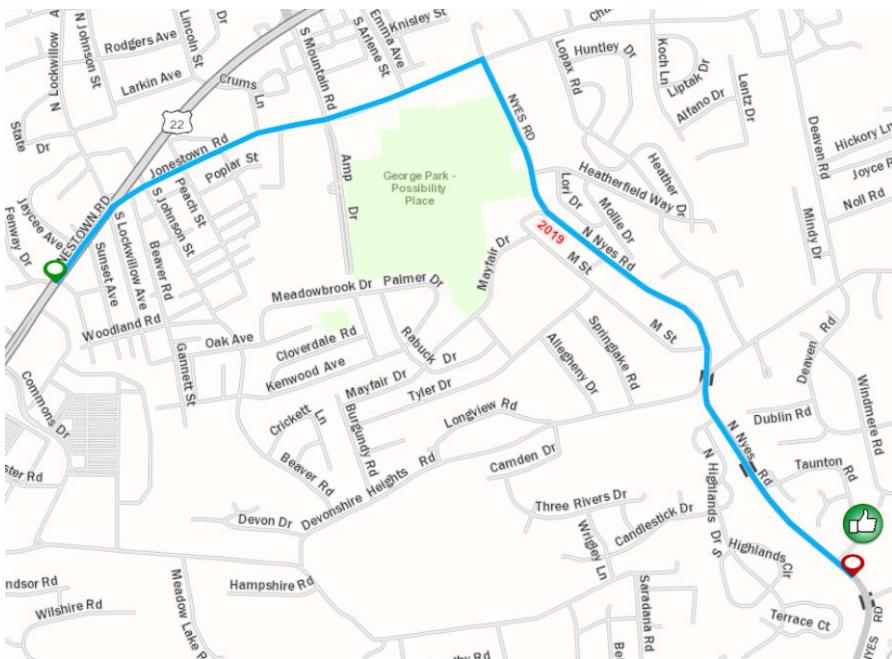
Click on the map to begin the line. A green circle (green dot) will display, indicating the start of the requested route. Click to end of the line. A red circle will display. (red dot)



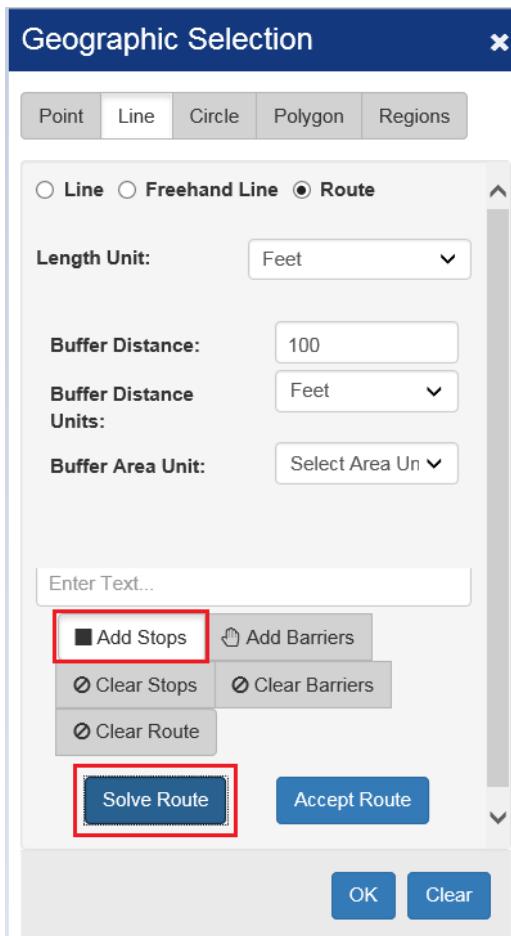
Click the SOLVE ROUTE button.



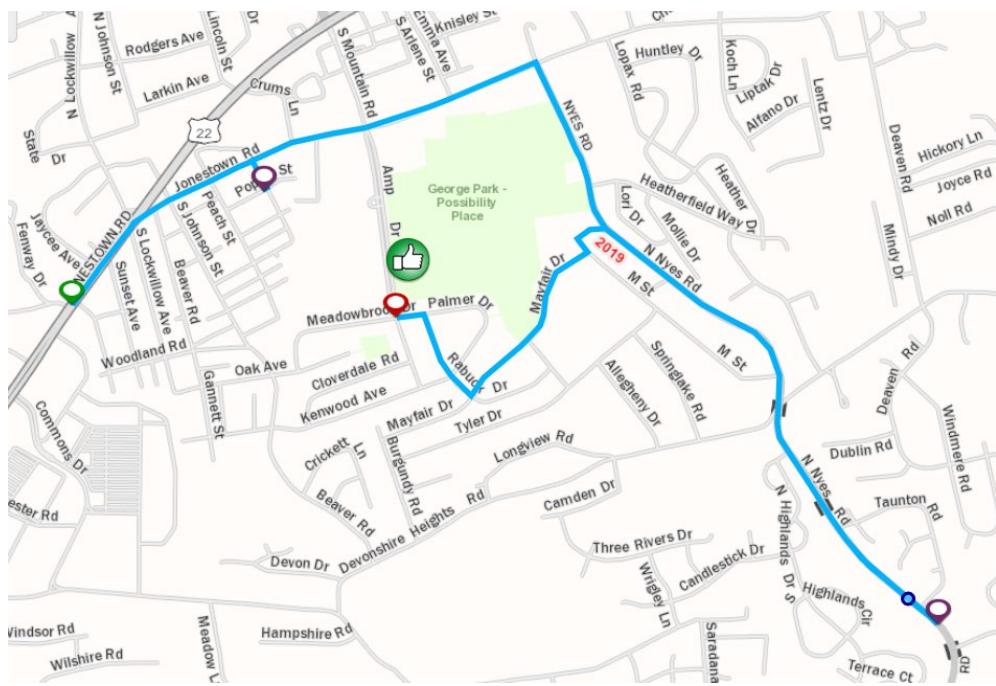
The selected route will highlight in blue.



To add stops to the selected route, click the ADD STOPS button.

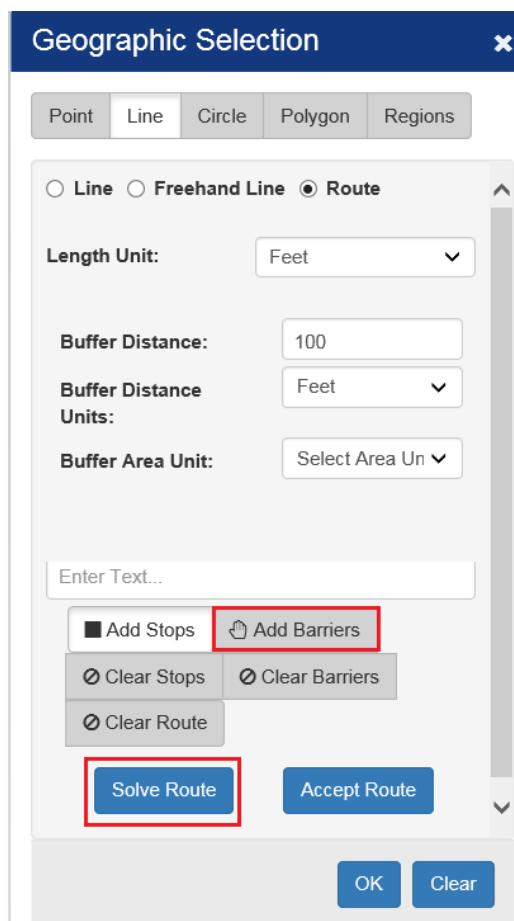


Click on the map to add stop(s), then click the SOLVE ROUTE button. The map will update to include added stop(s).

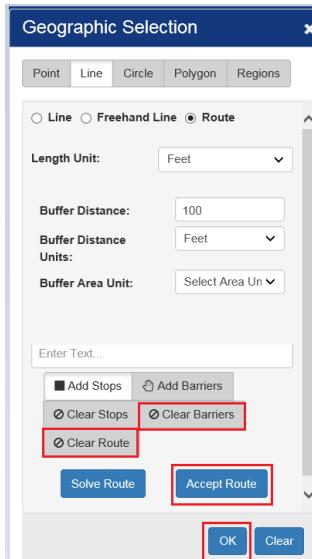
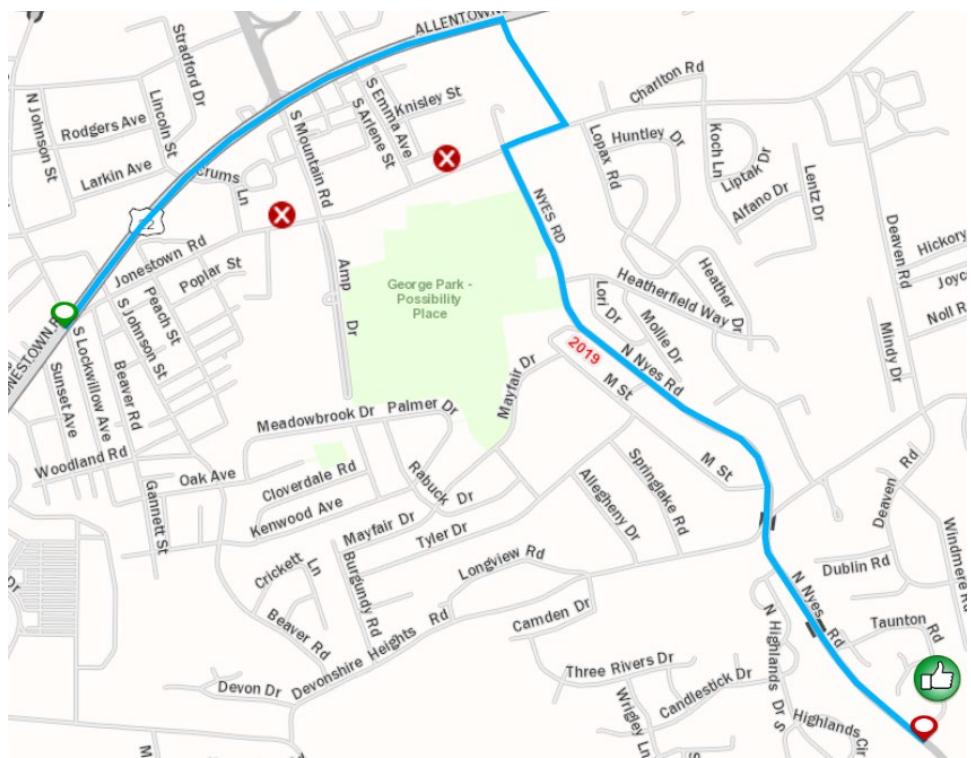


Click CLEAR STOPS button to remove added stops.

Click ADD BARRIERS to add potential road blocks to the desired route. Click on the map to place barriers, then click SOLVE ROUTE.



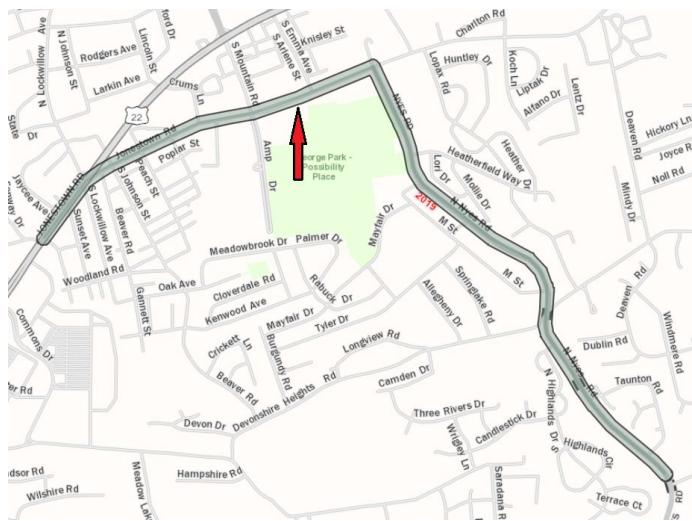
The route will readjust, avoiding roads with barriers.



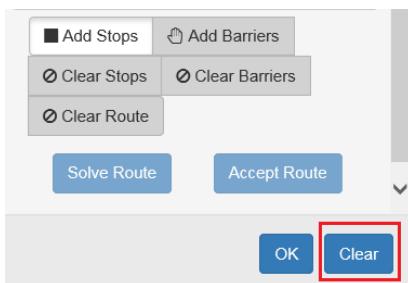
Click the CLEAR BARRIERS button to remove any barriers placed on the map.

Click the CLEAR ROUTE button to remove the route from the map.

When you are finished selecting your route on the map, click the ACCEPT ROUTE button to accept the desired route. The requested route will turn gray.

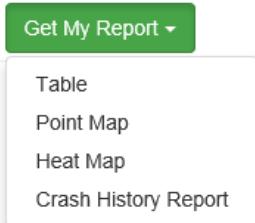


After the requested route has been accepted, the CLEAR button will remove the requested route from the map.



**TIP:** Avoid clearing the map before viewing your report.

Click the GET MY REPORT button to view crash results.



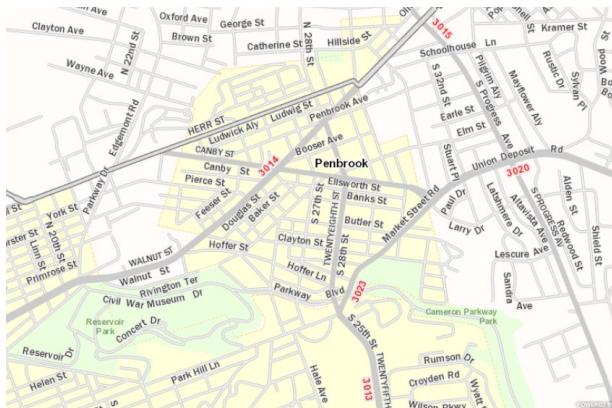
Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **CIRCLE**

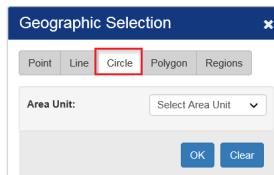
Selecting location by CIRCLE is helpful when selecting an approximate geographic location. The CIRCLE allows users to request crashes located within the geographic location.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



On the Geographic Selection window, select the CIRCLE tab.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

The Area Unit may also be changed

**TIP:** When drawing the circle, refrain from releasing the mouse until you have finished drawing the circle.

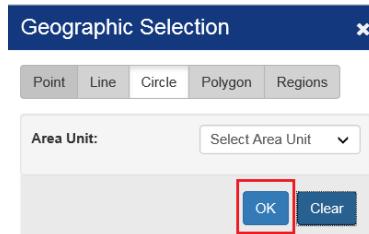
Click on the map to begin the circle. The location where you initially click will become the center of the circle. Drag the mouse across the map to draw the circle. When complete, release the mouse. A gray circle will display, indicating the selected area.



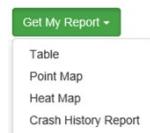
Clicking at other map locations will allow users to place multiple circles on the map. Placing fewer (i.e., 1 or 2) circles on the map will result in a more concise display of the crash data.

To clear the map and start with new circles, click the CLEAR button. The map will refresh, and previously selected circles will be removed from the map. Users may now start fresh with selecting circles.

Click the OK button to accept the circle(s) placed on the map.



Click the GET MY REPORT button to view crash results.



Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **POLYGON**

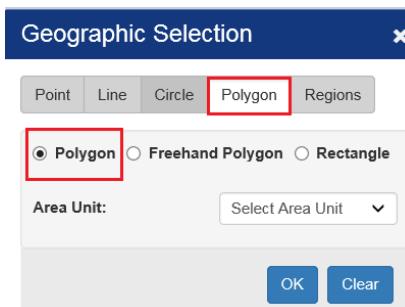
Selecting location by POLYGON is helpful when selecting an approximate geographic location.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



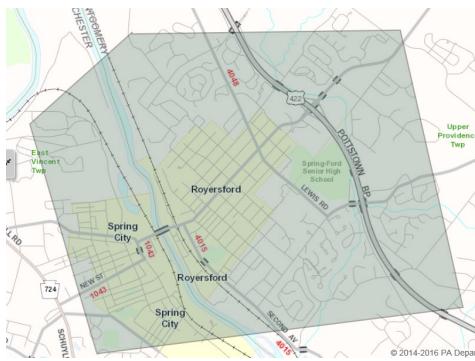
On the Geographic Selection window, select the POLYGON tab, then the POLYGON radio button.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

The Area Unit may also be changed

Click on the map to begin the polygon. Move the mouse to create the polygon. Click again on the map to indicate the end of one polygon side. Continue moving the mouse on the map to complete the polygon, click once to indicate the end of one polygon side. Click twice to indicate to complete the polygon. The polygon will be red while it is being drawn, and will turn black when complete.



Clicking at other map locations will allow users to place multiple polygons on the map. Placing fewer (i.e., 1 or 2) polygons on the map will result in a more concise display of the crash data.

To clear the map and start with new lines, click the CLEAR button. The map will refresh, and previously selected polygons will be removed from the map. Users may now start fresh with creating polygons.

Click the OK button to accept the polygon(s) placed on the map.

Geographic Selection ×

Polygon Freehand Polygon Rectangle

Area Unit:

Click the GET MY REPORT button to view crash results.

Table  
Point Map  
Heat Map  
Crash History Report

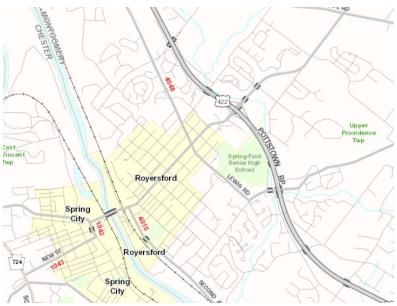
Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **FREEHAND POLYGON**

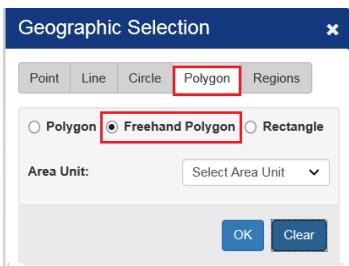
Selecting location by FREEHAND POLYGON is helpful when selecting an approximate geographic location.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



On the Geographic Selection window, select the POLYGON tab, then the FREEHAND POLYGON radio button.

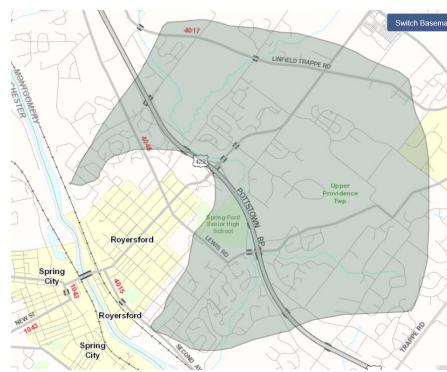


**TIP:** Refrain from clicking OK until *after* the crash location has been placed on the map.

The Area Unit may also be changed

**TIP:** When drawing the freehand polygon, refrain from releasing the mouse until you have finished drawing the freehand polygon.

Click on the map to begin the polygon. The location where you initially click will become the beginning of the polygon. Drag the mouse across the map to draw the freehand polygon. When complete, release the mouse. A gray polygon will display, indicating the selected area.



Clicking at other map locations will allow users to place multiple polygons on the map. Placing fewer (i.e., 1 or 2) polygons on the map will result in a more concise display of the crash data.

To clear the map and start with new freehand polygons, click the CLEAR button. The map will refresh, and previously selected polygons will be removed from the map. Users may now start fresh with selecting polygons.

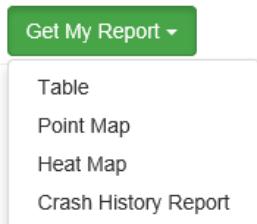
Click the OK button to accept the freehand polygon(s) placed on the map.

Geographic Selection ×

Polygon  Freehand Polygon  Rectangle

Area Unit:

Click the GET MY REPORT button to view crash results.



Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **RECTANGLE**

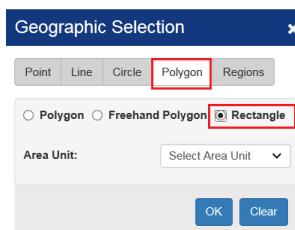
Selecting location by RECTANGLE is helpful when selecting roadway within a set location. The RECTANGLE allows users to draw a rectangular shaped box identifying the area.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the map, zoom to the desired location.



On the Geographic Selection window, select the POLYGON tab, then the RECTANGLE radio button.

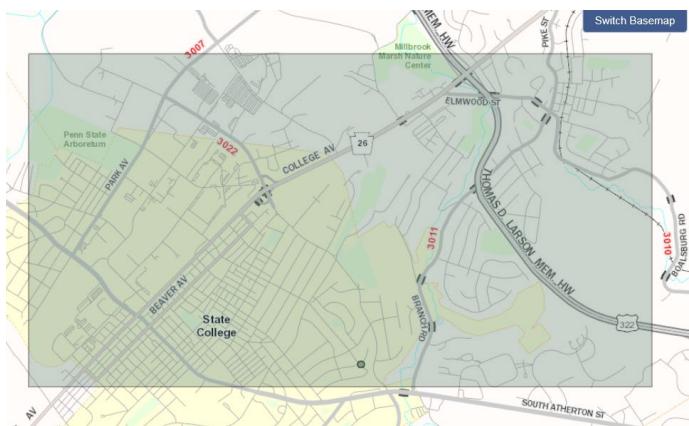


**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

The Area Unit may also be changed

**TIP:** When drawing the rectangle, refrain from releasing the mouse until you have finished drawing the rectangle.

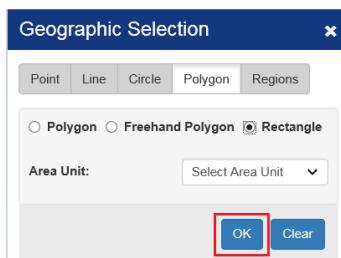
Click on the map to begin the rectangle. The location where you initially click will become the corner of the rectangle. Drag the mouse across the map to draw the rectangle. When complete, release the mouse. A gray rectangle will display, indicating the selected area.



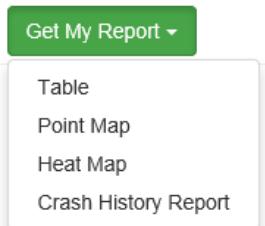
Clicking at other map locations will allow users to place multiple rectangles on the map. Placing fewer (i.e., 1 or 2) rectangles on the map will result in a more concise display of the crash data.

To clear the map and start with new rectangles, click the CLEAR button. The map will refresh, and previously selected rectangles will be removed from the map. Users may now start fresh with selecting rectangles.

Click the OK button to accept the rectangle(s) placed on the map.



Click the GET MY REPORT button to view crash results.

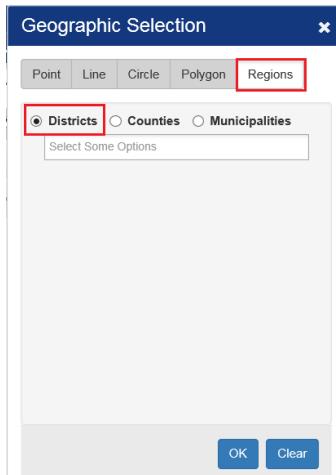


Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **DISTRICTS**

Selecting location by DISTRICT is helpful for selecting crashes within a PennDOT District.

On the Geographic Selection window, select the REGIONS tab, then the DISTRICT radio button.



**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

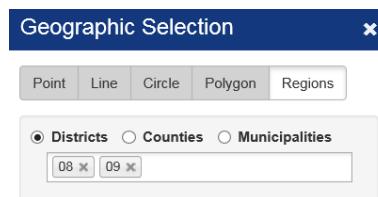
A map of Pennsylvania will display, with the PennDOT Districts outlined in red.



Click on the map to select the district. Selected districts will display as gray.



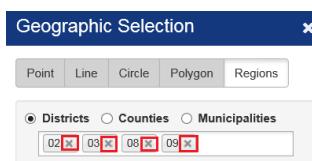
Selected Districts will also display on the Geographic Selection window, under the DISTRICTS radio button.



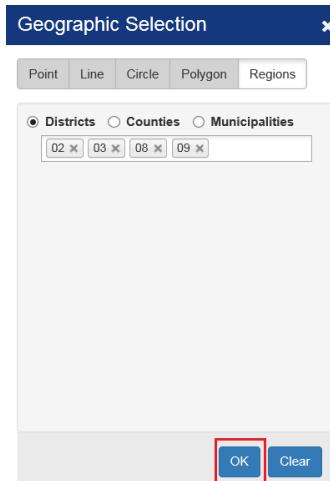
Clicking on other districts will allow users to select multiple districts on the map.



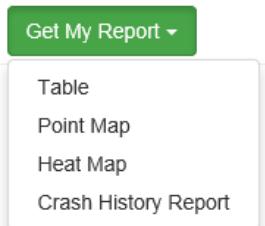
To remove districts from the map, click the "X" next to the desired district. The map will refresh, and selected districts will be removed from the map. Users may continue adding or removing districts.



Click the OK button to accept the district(s) placed on the map.



Click the GET MY REPORT button to view crash results.

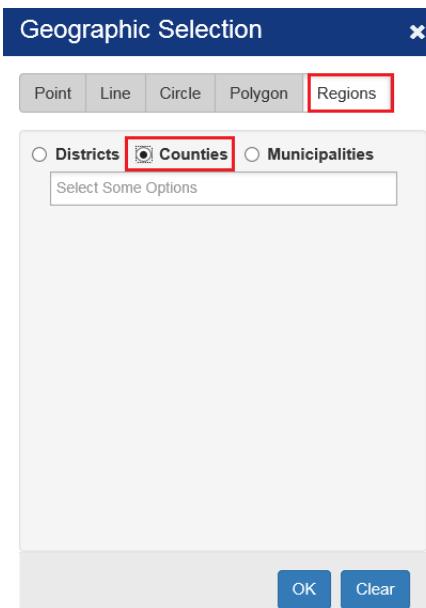


Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **COUNTIES**

Selecting location by COUNTIES is helpful for selecting crashes within a Pennsylvania county(ies).

On the Geographic Selection window, select the REGIONS tab, then the COUNTIES radio button.

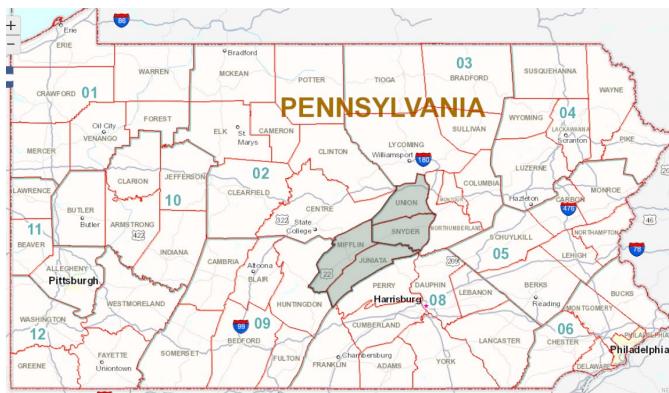


**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

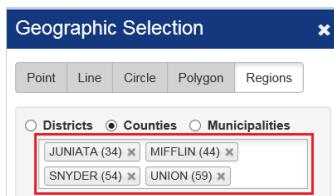
A map of Pennsylvania will display, with the Commonwealth counties outlined in red.



Click on the map to select the county. Selected counties will display as gray.



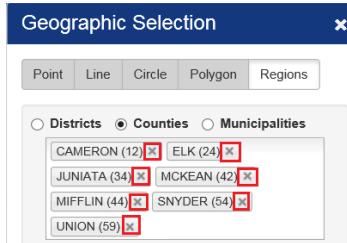
Selected Counties will also display on the Geographic Selection window, under the COUNTY radio button.



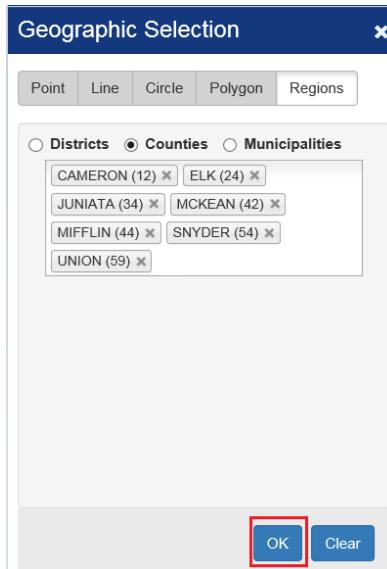
Clicking on another county(ies) will allow users to select multiple districts on the map.



To remove counties from the map, click the "X" next to the desired county. The map will refresh, and selected counties will be removed from the map. Users may continue adding or removing counties.



Click the OK button to accept the county(ies) placed on the map.

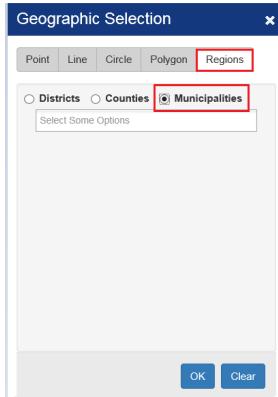


## **MUNICIPALITIES**

Selecting location by MUNICIPALITY is helpful for selecting crashes within a specific municipality.

**TIP:** Begin by zooming into the desired location on the map. After selecting a Tab and Drawing Tool, you may not be able to use the mouse to move the map.

On the Geographic Selection window, select the REGIONS tab, then the MUNICIPALITIES radio button.



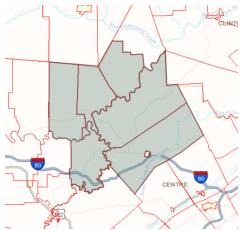
**TIP:** Refrain from clicking OK until after the crash location has been placed on the map.

A map of Pennsylvania will display, with the municipalities outlined in red.

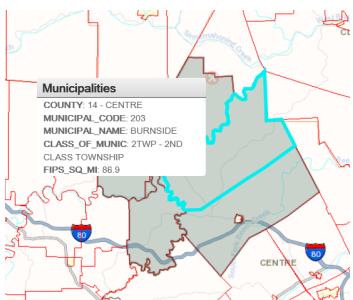


**TIP:** Zoom in on the map to more easily select municipalities.

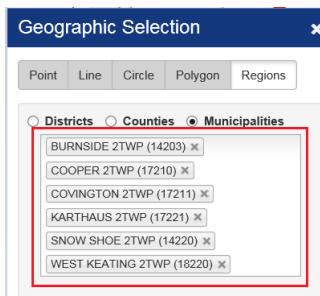
Click on the map to select the municipality. Selected municipalities will display as gray.



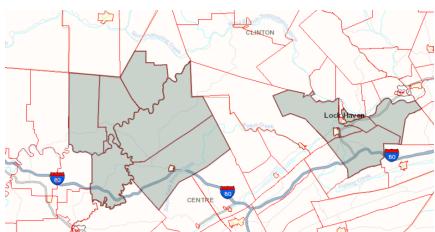
Hover over a municipality to see the municipality's specific information.



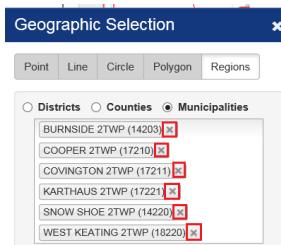
Selected Municipalities will also display on the Geographic Selection window, under the MUNICIPALITIES radio button.



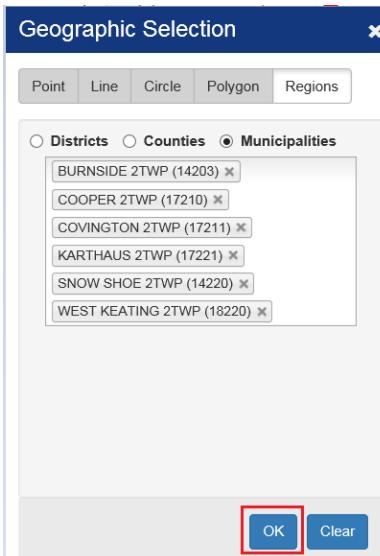
Clicking on other municipalities will allow users to select multiple municipalities on the map.



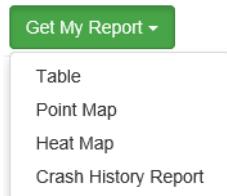
To remove municipalities from the map, click the "X" next to the desired municipality. The map will refresh, and selected municipalities will be removed from the map. Users may continue adding or removing municipalities.



Click the OK button to accept the municipality(ies) placed on the map.



Click the GET MY REPORT button to view crash results.



Click to select how the report should display – Table, Point Map, Heat Map or Crash History Report. Report types will be discussed in the next section of this manual.

## **Get My Report Messaging**

Pay special attention to the messaging as shown in a light yellow highlight which alerts the user on what to expect from the report output.

The screenshot shows the PCIT Custom Query Tool interface. At the top, there's a navigation bar with 'PCIT' and 'Custom Query Tool'. Below it, a section titled 'Data Selection Options' contains several filter categories: 'Analysis Type' (selected), 'Date Range', 'Filter Characteristics', 'Display Columns', and 'Location'. To the right of these, a detailed description box states: 'You can select one Analysis type at a time. The Analysis determines what will be counted.' It also asks if the user wants to count total crashes, people, or vehicles. Below this are three buttons: 'Crashes' (selected), 'Persons', and 'Vehicles'. A yellow message bar at the bottom states: 'This report counts the number of crashes.' with a close button (X) on the right.

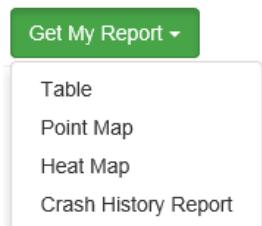
## **Viewing Report as Table**

To generate a report, click the **Get My Report** button.

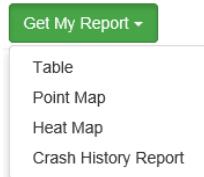
If you selected Analysis Type = Crashes, the report may be viewed as a Table, Map or Crash History Report.

If you selected Analysis Type = Persons or Vehicles, the report may only be viewed as a Table or Crash History Report.

If you selected Input by Map, the map containing your input criteria may also display.



From the drop-down options, select Table.



A feature of the table output is the provision of selecting columns and rows within the crosstab functionality. This allows the user to modify the table output function along with providing a cross tab output. The user can select which characteristic is placed in the X and Y axes. A maximum of 3 display rows and a maximum of 3 display columns are permitted for the query output.

Crash Analysis Report Get My Report ▾

Options	Row	Column
County	<input checked="" type="radio"/>	<input type="radio"/>
years	<input type="radio"/>	<input checked="" type="radio"/>
Crash Month	<input checked="" type="radio"/>	<input type="radio"/>
Day of Week	<input checked="" type="radio"/>	<input type="radio"/>
Illumination	<input checked="" type="radio"/>	<input type="radio"/>

Get Table

The below shows some additional options and features of the table output.

Vehicles involved in Crashes Analysis Report Get My Report ▾

2 Selected Report Options ◀

Analysis Type: VEHICLE

Date Range 1  
Start Date: 01/01/2016  
End Date: 12/31/2016

Location: Montgomery  
Abington (TWP)  
Bridgeport (BORO)  
Collegeville (BORO)

Filter Characteristics:  
None  
Display Columns  
None

COUNTRY	MUNICIPALITY	2016	TOTAL
	ABINGTON (TWP)	753	753
	MONTGOMERY	BRIDGEPORT (BORO) <span style="color: red;">3</span>	29
	COLLEGEVILLE (BORO)	54	54
		836	836

4 5

Chart My Data ▾
Save My Data ▾

Disclaimer Notes:  
1) The information contained in this document is drawn from raw data and should not be interpreted as representing an engineering judgment or determination made by the Department of Transportation as to the type and severity of accidents noted herein.  
2) The data available in this application is dynamic. Data may be added or changed as additional information is made available to the Department

1. Selected Report Options displays the report parameters
2. Click the arrow to collapse the report options. Click the arrow again to expand the report options.
3. Data for selected counties/municipalities displays in table format.
4. Chart My Data displays data as Bar Chart or Pie Chart.
5. Save My Data allows user to save data as PDF, Excel or CSV file.

66

To chart the report data, click CHART MY DATA then select Bar Chart or Pie Chart. These charts are visual representations of the report's data. Any changes made to the Date Range, County Filter or Category Filter will impact both the Report Data and the Bar/Line Charts.



Bar Charts and Line Charts may be printed or downloaded. To view Print and Download options, click the menu icon in the upper right corner of a chart.



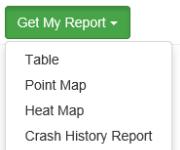
Click to select the desired format – print, download PNG image, download JPEG image, download PDF document, download SVG vector image. A pop-up message should display on your screen, allowing you to open or save the chart, or to cancel the request.

To change the report's parameters, locate the Data Selection Options then make any necessary changes – change the date range, add/remove counties and/or municipalities, add/remove filter characteristics, add/change display columns. When changes are complete, the GET MY REPORT button will change to UPDATE

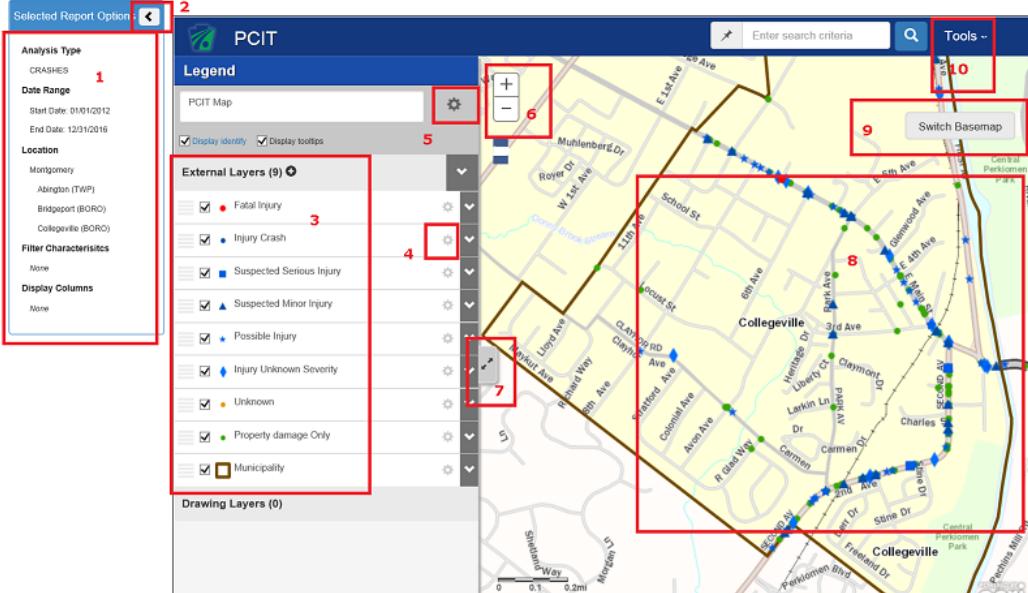
MY REPORT. Click the **Update My Report** button to update the report. The report should update to include changes.

### ***Viewing Report as Map***

To view the report as a Point Map or Heat Map, from the drop down options, select Point Map or Heat Map.



The map will display data you requested.

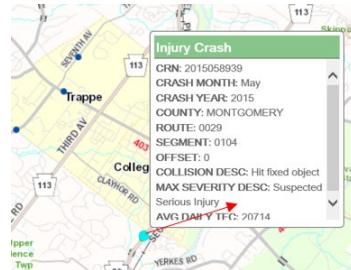


Several features are available to provide additional crash information.

1. Selected Report Options – displays the report's criteria
2. Collapse/Expand Arrow – click the arrow to collapse the report options. Click the arrow again to expand the report options.
3. External Layers – click to select which data will display on the map.
4. Filter Layer – click to select filters for the respective layer
5. Print Map – click to print the displayed map. The map will be converted to a PDF document and open in a new browser window. Please be aware, this process may take a few minutes to complete.
6. "+" and "-" – Click to zoom in and out.
7. Show/Hide – click to show or hide the Legend.
8. Crashes – various markers, as identified in the External Layers (#3), identify crashes on the requested roadway.
9. Switch Basemap – click to select a different Basemap.
10. Tools will be available in a later PCIT Release.

### Viewing Crash Data – Hover

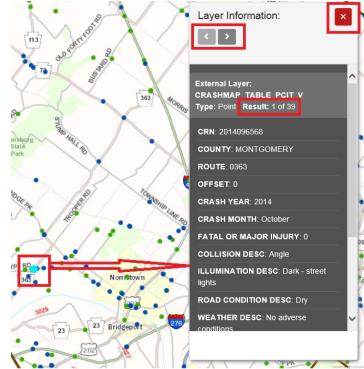
To view crash data about a specific crash, hover over the crash to display data about the specific crash.



## Viewing Crash Data – Click

When multiple crashes occur at one location, double click to view data about all crashes.

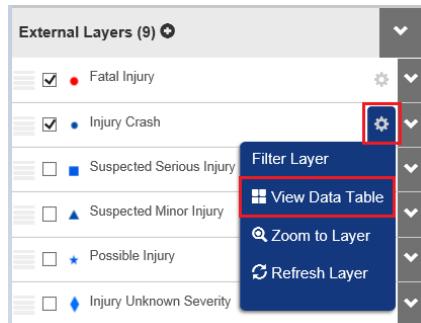
A “Layer Information” bar will display on the screen. Scroll to view crash data. Click arrows to advance to the next crash. Click red X to close the bar.



## Viewing and Exporting Data Table

When crashes are displayed on the map, users may view and export data for further analysis.

Click the gear to the right of the desired layer. Next, select VIEW DATA TABLE.



The data table will display at the bottom of the screen.

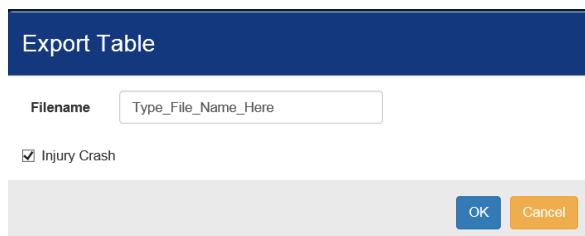
CRN	ADJRDWY SEQ	COUNTY	ROUTE	OFFSET	SEGMENT OFFSET	SIDE INDICATOR	CRASH YEAR	CRASH MONTH	POLICE AGENCY	STATE ROAD
20140...	3	MONTGOM...					2014	February		0
20140...	3	DELAWARE	2005	1749			2014	January		1
20140...	3	BUCKS	0132	1226			2014	January		1
20140...	3	DELAWARE	0452	812			2014	January		1

The following options are included on the data table.

1. Name of selected layer is displayed
2. Sort Type – click the drop-down to select if records will be displayed in Database or alphabetic order
3. Column Settings – click to select how data will display
4. Records to Fetch – click to select how many records will display
5. Fetched – indicates the number of records displayed
6. Show Only Selected – click to toggle if only selected records, or all records, display
7. Export to Excel – click to export displayed data to Excel
8. Selection boxes – click the box to the left of CRN to select all records. Click the selection box to the left of respective records to select (or de-select if already selected) a specific record. A scroll bar is located to the right of the records.
9. Scroll Bar – click the scroll bar or up/down arrows to scroll through records.

Click the Export to Excel  icon.

The Export Table pop-up will display. You may change the file name or accept the default.



Click OK to continue. The “open/save” message will display at the bottom of the screen.



Click OPEN or SAVE to complete the data export.

### ***Viewing Report as Crash History Report***

To view the report as a Crash History Report, from the drop down options, select Crash History Report.



The report will run, and the “open/save” message will display at the bottom of the screen.



Click OPEN to view the report on your screen or SAVE to store the report at another location.

The Crash History Report displays Crash Severity Levels, Crash Description Types and Person Injury Summary for the parameters requested by the users.

**Pennsylvania Crash Information Tool**

Date Range: 01/01/2013 to 12/31/2016\* 

<b>CRASH SEVERITY LEVEL BY YEAR</b>					
	2013 CRASHES	2014 CRASHES	2015 CRASHES	2016 CRASHES	ALL YEARS CRASHES
FATAL INJURY	2	0	0	1	3
SUSPECTED SERIOUS INJURY	1	4	0	0	5
SUSPECTED MINOR INJURY	16	7	5	18	46
POSSIBLE INJURY	28	19	19	11	77
UNKNOWN SEVERITY	16	15	17	20	68
UNKNOWN IF INJURED	0	4	3	3	10
PROPERTY DMG ONLY	54	57	57	83	251
TOTAL	117	106	101	136	460

<b>CRASH DESCRIPTION TYPES BY YEAR</b>					
	2013 CRASHES	2014 CRASHES	2015 CRASHES	2016 CRASHES	ALL YEARS CRASHES
ANGLE	46	32	40	46	164
BACKING	0	1	2	0	3
HEAD ON	1	1	4	1	7
HIT FIXED OBJECT	29	37	21	32	119
NON COLLISION	4	4	0	1	9
OPP DIRECTION SIDESWIPE	1	1	2	2	6
PEDESTRIAN	3	1	1	2	7
REAR END	28	21	26	35	110
SAME DIRECTION SIDESWIPE	5	7	4	10	26
UNKNOWN TYPE	0	1	1	7	9
TOTAL	117	106	101	136	460

<b>PERSON INJURY SUMMARY BY YEAR</b>					
	2013 PERSONS	2014 PERSONS	2015 PERSONS	2016 PERSONS	ALL YEARS PERSONS
FATALITIES	2	0	0	1	3
SUSPECTED SERIOUS INJURIES	1	4	0	0	5
SUSPECTED MINOR INJURIES	20	8	7	20	55
POSSIBLE INJURIES	49	27	24	20	120
UNKNOWN SEVERITY	19	23	20	27	89
UNKNOWN IF INJURED	0	5	7	5	17

\* PLEASE NOTE: Years which do not appear in the report contain zero crashes for this request.  
\* Crash information for 2017 and 2018 is incomplete at the time of this printing. As such, data for 2017 and 2018 are not included in this report.

IMPORTANT: The information contained in this document is drawn from raw data and should not be interpreted as representing an engineering judgement or determination made by the Department of Transportation as to the type and severity of accidents noted herein.

Print Date: 03/16/2018

PCIT - PUBLIC REQUEST / PRESS INQUIRY REPORT (01-07)

### Pennsylvania Crash Information Tool

Print Date: 03/16/2018

PCIT - PUBLIC REQUEST / PRESS INQUIRY REPORT (01-07)

**NOTES:**

- 1 Injury Severity Disclaimer  
Please note that beginning January 1, 2016, PennDOT adopted the Federal standard for collecting injury severity data. The field descriptions and definitions changed from the state standard that had been in use for decades. This resulted in a substantial shift in severity levels. Therefore, comparison of the "Suspected Serious Injury", "Suspected Minor Injury" and "Possible Injury" categories will not be consistent for crashes taking place before versus after the adoption of the new standard.
- 2 Complete data years  
Complete records of reportable crashes are available in PCIT for the following years: 1997 - 2016

**REPORT PARAMETERS:**

Date Range: 01/01/2013 to 12/31/2016

Selected Shapes: Freehand Polygon

Filter Characteristics:

## **Crash Downloads**

### **Facts Book**

The Facts Book is an annual statistical crash review compiled from reportable crash reports in Pennsylvania. It is broken out into various topics and contains the crash data that is most commonly requested at PennDOT. Data is available from 1985 through the most recent year with complete data.

To access the most recent Facts Book, click on the  Facts Book icon or select FACTS BOOK from the Crash Downloads link in the upper right corner. The document will open as a pdf.



#### **Reporting Tools**

##### **Featured Reports**

These reports display crash data for commonly requested highway safety categories. Reports may be filtered by year and various other fields. Data displays in table format. Bar and line charts are available. Users may also download or save tables and

#### **Crash Downloads**

##### **Facts Book**

This is an annual statistical crash review compiled from reportable crash reports in Pennsylvania. It is broken out into various topics and contains the crash data that is most commonly requested of PennDOT. You can see past years of Facts Books [here](#).

#### **Public Datasets**

##### **Public Crash Databases**

This set of raw crash data is made available to researchers and the general public who wish to analyze the details of each crash record. The following link sends you to the crash category



To access past years of the Facts Book, click the "here" hyperlink, below the  Facts Book icon. From the list of years that displays, click on the desired year to open that year's Facts Book as a pdf.

## **Reportable Crash Statistics**

This is a multi-year statistical review of reportable motor vehicle crashes in Pennsylvania. The report is in MS Excel format and contains statewide and county tabs. The row descriptions are commonly requested highway safety categories.

To access the Reportable Crash Statistics, click on the  icon or select REPORTABLE CRASH STATISTICS from the Crash Downloads link in the upper right corner.



## **Reportable Crash Fatality Statistics**

This is a multi-year statistical review of fatalities occurring in reportable motor vehicle crashes in Pennsylvania. This report is in MS Excel format and contains statewide and county tabs. The row descriptions are commonly requested highway and safety categories.

To access the Reportable Crash Fatality Statistics, click on the

 Reportable Crash Fatality Statistics icon or select REPORTABLE CRASH FATALITY STATISTICS from the Crash Downloads link in the upper right corner.



## ***Reportable Crash Suspected Serious Injury Statistics***

This is a multi-year statistical review of suspected serious injuries occurring in reportable motor vehicle crashes in Pennsylvania. The report is in MS Excel format and contains statewide and county tabs. The row descriptions are commonly requested highway safety categories.

To access the Reportable Crash Suspected Serious Injury Statistics, click on the



Reportable Crash Suspected Serious Injury Statistics

icon or select REPORTABLE CRASH SUSPECTED SERIOUS INJURY STATISTICS from the Crash Downloads link in the upper right corner.



## **Public Crash Datasets (Databases)**

This set of raw crash data is made available to researchers and the general public who wish to analyze the details of each crash record. This link will direct you to the crash category page of PennDOT's GIS Open Data Portal.

To access the Public Crash Datasets (Databases), click on the



Public Crash Databases

icon

or select PUBLIC CRASH DATABASES from the Public Datasets link in the upper right corner.



## **Site Feedback**

PennDOT welcomes customer feedback on the information on this website and how it can be improved. Please take a few moments to take our survey and provide feedback on your experience with PCIT.

To access the survey, click the  Site Feedback icon or click "survey" in the body of the paragraph.

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## **Contact Us**

For other PCIT questions or feedback, please email us at [pcithelp@pa.gov](mailto:pcithelp@pa.gov). Please allow up to three business days for a response.

## **Registered User Login**

This login is restricted to persons who have responsibility in the highway transportation system – Engineering Firms, Planning Partners, Police, Safety Behaviorists and PennDOT employees.