User Guide to

New York State Traffic Safety Statistical Repository (TSSR)

The NYS Traffic Safety Statistical Repository (TSSR) was developed by the University at Albany's Institute for Traffic Safety Management and Research (ITSMR) with funding from the NYS Governor's Traffic Safety Committee, to provide broader access to New York's traffic safety data. The TSSR currently contains motor vehicle crash data obtained from the NYS Department of Motor Vehicles (DMV) Accident Information System (AIS) from 2009 forward, including preliminary data for the current year.

Traffic safety ticket data from 2009 forward are also included in the TSSR. The ticket data are captured by two systems maintained by the NYS DMV: Traffic Safety Law Enforcement and Disposition (TSLED) and Administrative Adjudication (AA). Data for impaired driving tickets issued in NYC are captured by a separate system maintained by the NYPD and included in the TSSR.

This guide provides instructions for navigating the TSSR system and interacting with the tables and graphs to view, understand and work with the data.

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Access the TSSR

To access the TSSR, go to www.itsmr.org/TSSR. The main page, or TSSR Report Links, provides links to two main categories of reports. Click **Crash Reports** or **Ticket Reports** to go to a separate page containing a list of links to the available reports.

New York State Traffic Safety Statistical Repository (TSSR)

Click a link to open reports: **Crash Reports** **Ticket Reports**

The Accident Information System (AIS) maintained by the NYS Department of Motor Vehicles is the state's primary crash information system. The AIS captures a wide variety of data from the crash reports submitted by police agencies and motorists. Since the public does not have direct access to the AIS, the GTSC funded ITSMR to design and develop a traffic safety data repository that is publicly accessible via the Internet. As a result, ITSMR built a system known as the Traffic Safety Statistical Repository (TSSR) that captures crash and ticket data. ITSMR has also developed standardized reports and query tools to facilitate access to the data.

DATA SOURCES:
Crash Data: NYS Department of Motor Vehicles Accident Information System (AIS) data snapshot as of **11/15/2019**. Includes the finalized crash data for 2009-2018 and the preliminary data for 2019. The preliminary data are subject to updates as new or additional information is reported to the DMV following the snapshot date.
Ticket Data: NYS Department of Motor Vehicles Traffic Safety Law Enforcement and Disposition (TSLED) and Administrative Adjudication (AA) systems, and the NYPD ticket system. The data for each system are extracted annually.
Vehicle Miles Traveled: NYS Department of Transportation
Population: U.S. Census Bureau
Licensed Drivers: NYS DMV Driver License File
Motorcycle Registrations: NYS DMV Registration File

< Data Sources | New Reports >

The user is responsible for the accuracy of all reports, views and opinions based on the use and analysis of the traffic safety data obtained from the TSSR. Authors must represent their work as their own and not that of the NYS Department of Motor Vehicles or the Institute for Traffic Safety Management and Research.

New York State Motor Vehicle Crash Data

User Guide
FAQ
Glossary
TSSR Directory

Statewide Motor Vehicle Crash Summary Reports
Statewide Crashes
Motorcycle Crashes
Pedestrian Crashes
Bicycle Crashes
Large Truck Crashes
Alcohol-Related Crashes (Police-Reported only)
Drug-Related Crashes (Police-Reported only)
Impaired Crashes (Police-Reported only)
Speed-Related Crashes (Police-Reported only)
Young Driver Crashes
Older Driver Crashes

County Motor Vehicle Crash Summary Reports
County Crashes
Motorcycle Crashes
Pedestrian Crashes
Bicycle Crashes
Large Truck Crashes
Alcohol-Related Crashes (Police-Reported only)
Drug-Related Crashes (Police-Reported only)
Impaired Crashes (Police-Reported only)
Speed-Related Crashes (Police-Reported only)
Young Driver Crashes
Older Driver Crashes
New York City Crashes

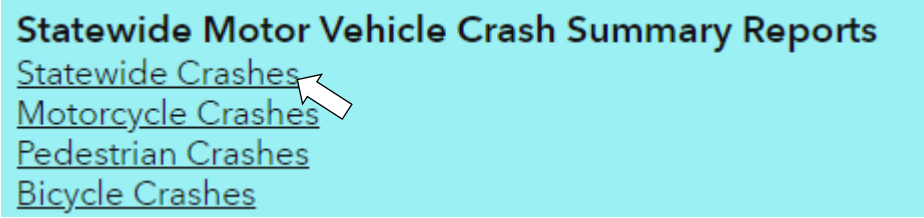
Other Reports
Crash Data by Region Crash Data by County Crash Data by County and Municipality

The statewide and county crash data provided through the TSSR reflect the crashes that have occurred on New York's roadways. Captured by the NYS Department of Motor Vehicles Accident Information System (AIS), the crash data are obtained from the crash reports submitted to the DMV by police agencies and motorists.

NOTE: Due to recent changes made to the Police Accident Report form with regard to the capture and reporting of property damage crashes, users will see a significant increase in the number of property damage crashes in 2018, compared to previous years.

Select a Report

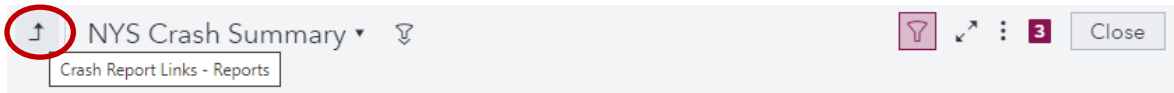
Crash and ticket reports are organized into two main categories – statewide and individual county crash and ticket summary reports. Click a link to open the report.



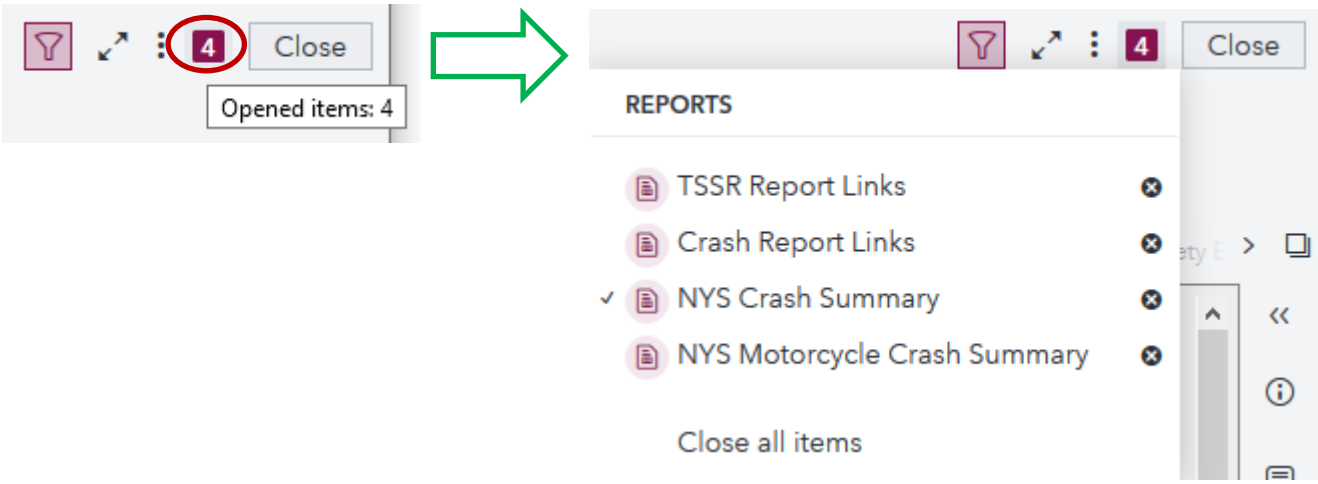
Reports currently available in the TSSR are listed in a separate document, ***TSSR Directory of Reports and Sections***.

Navigate to Reports

The Navigation Bar appears at the top of each Report page. Click the ***link icon*** to return to the previous report.



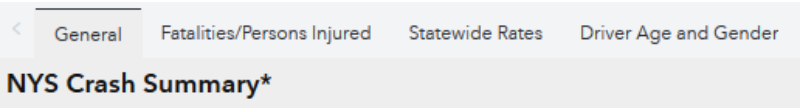
Click the ***Opened items icon*** on the top right to navigate quickly to reports currently open; click **Close,** the ***"x"*** or ***close icon,*** or **Close all items** to close reports.

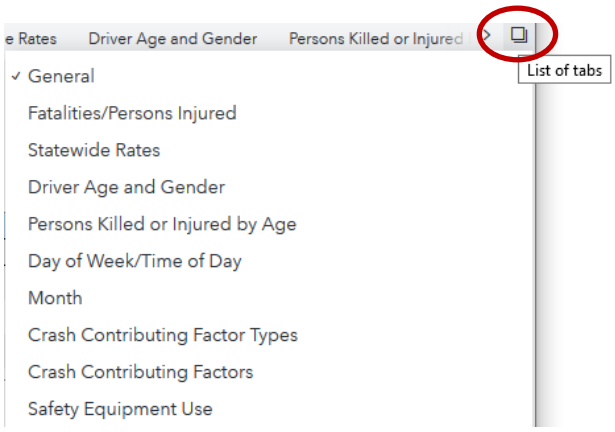


Tip: To save time once reports are opened, use the ***Opened items icon***; avoid using your browser's back button. Clicking the browser's back button and then returning to the TSSR requires extra time to re-load reports into memory.

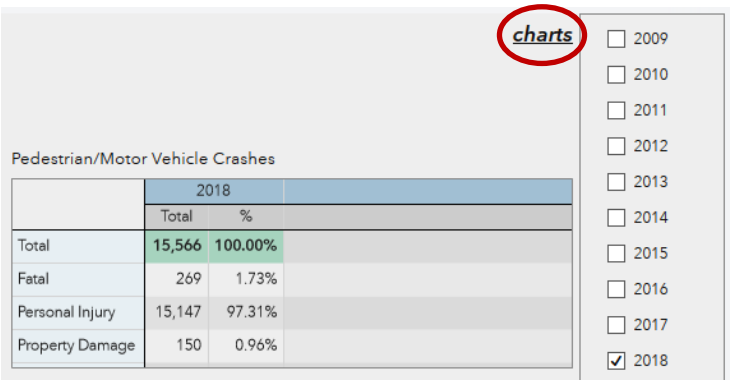
Navigate to Report Sections

Every crash report and ticket report has multiple sections, or tabs. Each report opens by default to a section with General data displayed in tables. Click a different tab, or click the ***List of tabs icon*** to choose from a list of available tabs.

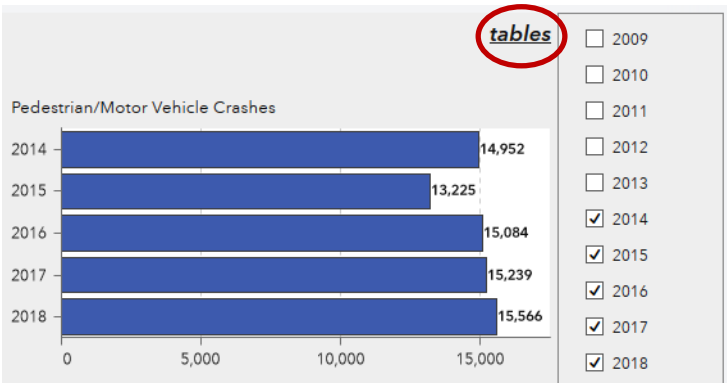




For the Statewide crash and ticket reports, click the ***charts*** link to go to a section containing corresponding charts. Note that tables are available for most report sections. Charts are available for selected report sections.



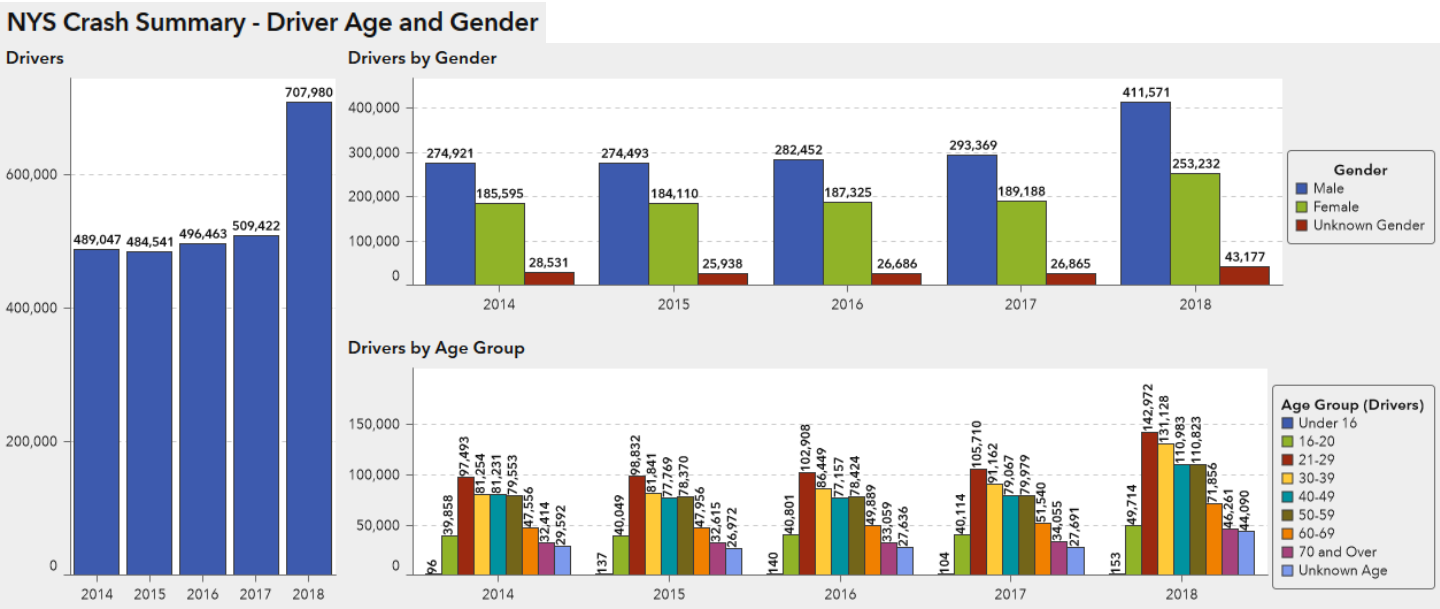
Click ***tables*** to return to the corresponding tabular section.



Some sections – for example, **Driver Age and Gender** – contain a single table and multiple corresponding charts.

NYS Crash Summary - Driver Age and Gender by Crash Type

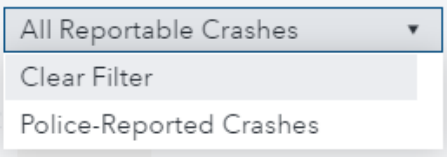
	2018		Fatal		Personal Injury		Property Damage	
	Total	%	Total	%	Total	%	Total	%
Total	**707,980**	**100.00%**	**1,286**	**100.00%**	**213,759**	**100.00%**	**492,935**	**100.00%**
Male	411,571	58.13%	964	74.96%	125,852	58.88%	284,755	57.77%
Under 16	114	0.02%	.	.	39	0.02%	75	0.02%
16-20	28,489	4.02%	55	4.28%	8,298	3.88%	20,136	4.08%
21-29	86,706	12.25%	222	17.26%	26,468	12.38%	60,016	12.18%
30-39	81,412	11.50%	166	12.91%	25,632	11.99%	55,614	11.28%
40-49	69,481	9.81%	153	11.90%	21,564	10.09%	47,764	9.69%
50-59	71,072	10.04%	173	13.45%	21,897	10.24%	49,002	9.94%
60-69	46,062	6.51%	104	8.09%	13,675	6.40%	32,283	6.55%
70 and Over	27,594	3.90%	90	7.00%	8,048	3.76%	19,456	3.95%
Unknown Age	641	0.09%	1	0.08%	231	0.11%	409	0.08%
Female	253,232	35.77%	298	23.17%	79,384	37.14%	173,550	35.21%
Under 16	39	0.01%	2	0.16%	12	0.01%	25	0.01%
16-20	21,225	3.00%	27	2.10%	6,340	2.97%	14,858	3.01%
21-29	56,266	7.95%	50	3.89%	17,712	8.29%	38,504	7.81%
30-39	49,716	7.02%	52	4.04%	16,391	7.67%	33,273	6.75%
40-49	41,502	5.86%	36	2.80%	13,441	6.29%	28,025	5.69%
50-59	39,751	5.61%	39	3.03%	12,647	5.92%	27,065	5.49%
60-69	25,794	3.64%	33	2.57%	7,492	3.50%	18,269	3.71%
70 and Over	18,667	2.64%	59	4.59%	5,278	2.47%	13,330	2.70%
Unknown Age	272	0.04%	.	.	71	0.03%	201	0.04%
Unknown Gender	43,177	6.10%	24	1.87%	8,523	3.99%	34,630	7.03%
Unknown Age	43,177	6.10%	24	1.87%	8,523	3.99%	34,630	7.03%



A complete list of current TSSR reports and associated sections can be found in the document entitled ***TSSR Directory of Reports and Sections***.

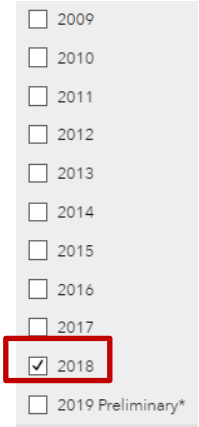
Filter Results for Tables and Graphs

Filter with the Report Type Dropdown



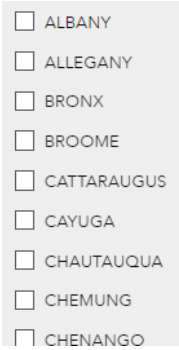
The **Report Type dropdown** list indicates the type of crash report from which the data in the tables or graphs is derived. The default setting for most TSSR crash reports, tables and charts is All Reportable Crashes, i.e., crash data received from both police crash reports and motorist crash reports. Select Police-Reported Crashes to limit the results to information received from police crash reports. Select Clear Filter to see results for all reportable crashes. Note that some tables and graphs in the TSSR are limited to data from police-reported crashes, e.g., Severity of Crash in the General section; these are labeled Police-Reported. Clearing the filter will not affect the results for these tables or graphs. The reports that include only police-reported crash data, e.g., Alcohol-Related Crash Summaries, do not have a Report Type dropdown list.

Filter with Checklists



Select one or multiple items in each checklist to filter the data in tables and graphs. Leaving every box unchecked in a checklist will return the same results as checking every box.

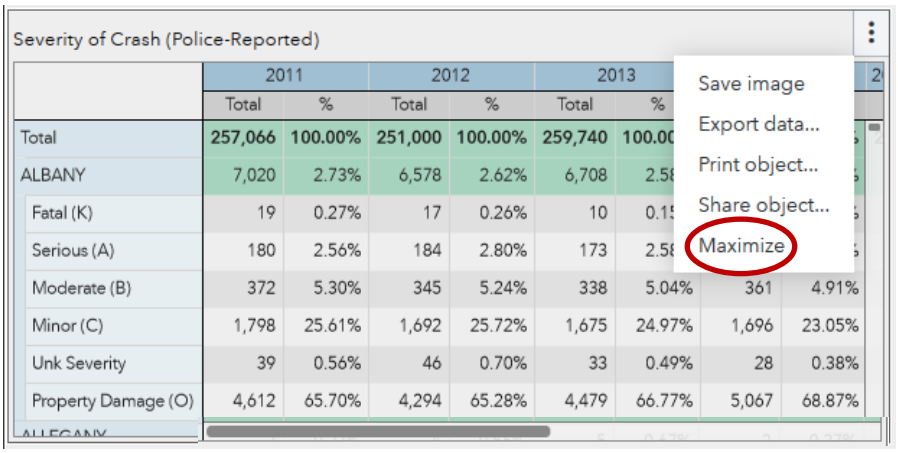
The default setting for the **Year checklist** in the tabular reports is the most recent final and complete year of data currently available. For the graphical reports, the default setting is the most recent five years of finalized data. Data for years that are not yet finalized are tagged "Preliminary" until the file is complete and the final clean-up has been conducted. Crash data are typically finalized by September of the following year. Exercise caution when using Preliminary data.



The County Crash and Ticket Summaries include a **County checklist** to show results for any or all of the counties in New York State. The default setting for the tabular reports is all 62 counties.

Work with Tables and Graphs

Maximize/Restore

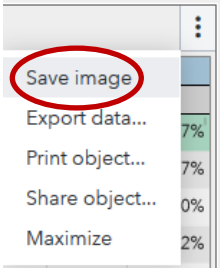


Click the 3 dots in the top right corner of a table or graph and select Maximize to Maximize view. Click Restore to Exit maximized view.

Use the scroll bar on the right of the table to scroll vertically. Use the scroll bar at the bottom of the table to scroll horizontally.

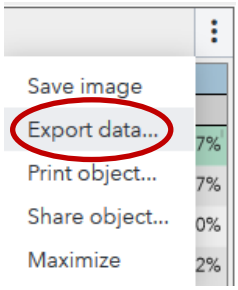
Save Image

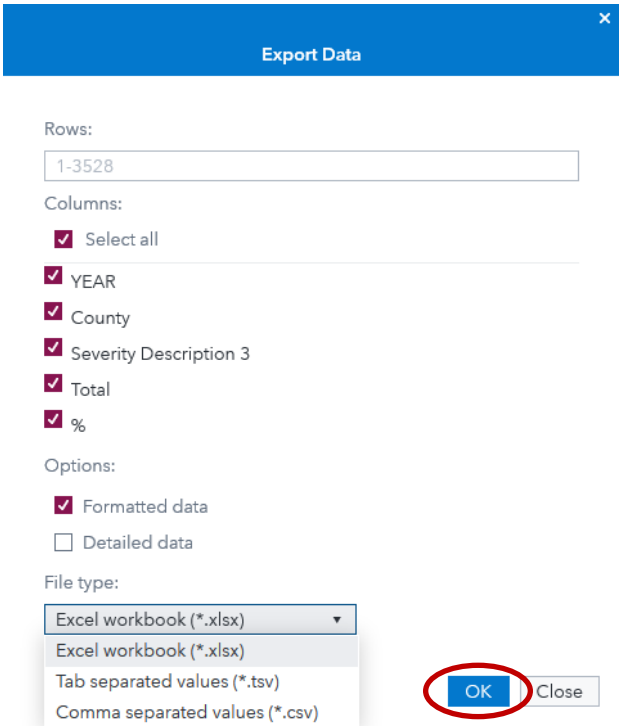
Click the 3 dots in the top right corner of a table or graph and select Save image to open or save a PNG image of the table or graph.



Export Data

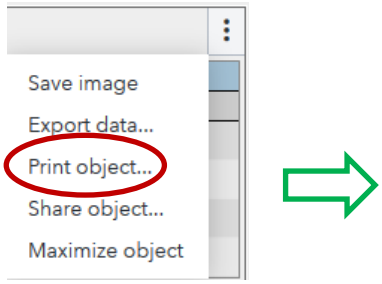
To export data, click the 3 dots in the top right corner of a table or graph and select Export data... Select desired options in the Export Data dialog box; then click ***OK.*** You can open or save the resulting file.





Print Object

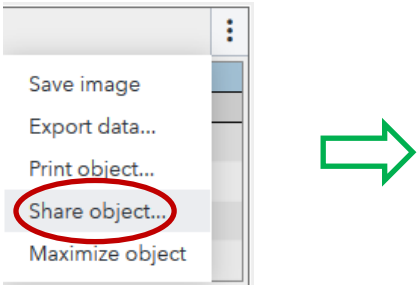
To print a report object to PDF, click the 3 dots in the top right corner of a table or graph and select Print object… Select desired options in the Print to PDF dialog box; then click ***Print.*** You can open or save the resulting file.

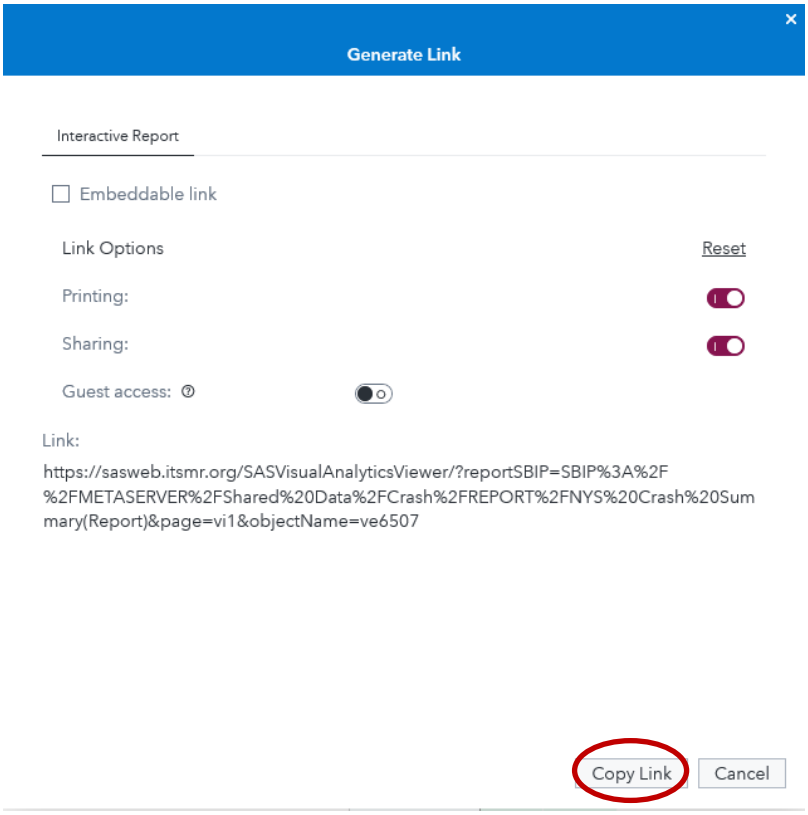


For more information, see the section **Save and Print Reports** on page 10.

Share Object

To share a link to an object, click the 3 dots in the top right corner of a table or graph and select Share object… Select desired options in the Generate Link dialog box; then click ***Copy Link***.





Sort Data

To sort any Total or Percent column in ascending or descending order, click the column heading. For example, the ***up arrow icon*** indicates that the totals have been sorted in ascending order and the ***down arrow icon*** indicates that the totals have been sorted in descending order.

County Pedestrian Crash Summary

	2018	
	Total ▲	%
Total	15,566	100.00%
SCHUYLER	1	0.01%
Fatal	1	100.00%
ESSEX	4	0.03%
Personal Injury	4	100.00%
LEWIS	4	0.03%
Personal Injury	2	50.00%
Property Damage	2	50.00%
WYOMING	4	0.03%
Fatal	1	25.00%
Property Damage	1	25.00%
Personal Injury	2	50.00%

	2018	
	Total ▼	%
Total	15,566	100.00%
KINGS	3,600	23.13%
Personal Injury	3,553	98.69%
Fatal	34	0.94%
Property Damage	13	0.36%
QUEENS	2,702	17.36%
Personal Injury	2,654	98.22%
Fatal	40	1.48%
Property Damage	8	0.30%
NEW YORK	2,472	15.88%
Personal Injury	2,430	98.30%
Property Damage	24	0.97%

Empty or Missing Data

A warning symbol with a mouse-over message appears at the bottom right-hand corner of tables or graphs with no data.

Motorcycle Crashes

	Total	%
Total		

The filter resulted in an empty set of data.

County Pedestrian Crash Summary - Pedestrians Killed or Injured by Age

	2018		Killed		Injured	
	Total	%	Total	%	Total	%
Total	6	100.00%	1	100.00%	5	100.00%
ALLEGANY	6	100.00%	1	100.00%	5	100.00%
7-15	1	16.67%	.	.	1	20.00%
21-29	2	33.33%	.	.	2	40.00%
40-49	1	16.67%	1	100.00%	.	.
50-59	1	16.67%	.	.	1	20.00%
60-69	1	16.67%	.	.	1	20.00%

Rows with no data do not appear in the table or graph.

For example, no pedestrians under age 7 or ages 16-20, 30-39, and 70 and over were killed or injured in Allegany County in 2018.

Empty cells within a row are left blank.

Percentages

Column percentages are provided for selected report tables. *Note that for the traffic safety ticket data, percentages are rounded to the nearest tenth of one percent. Column percentages may not total precisely 100.00% due to rounding.*

Crash Data by Region ▾

< ge Truck | Alcohol-Related | Drug-Related | Impaired | Speed-Rela >

Persons Killed or Injured in Impaired Crashes (Police-Reported)

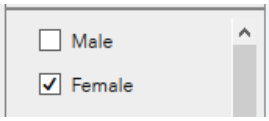
YEAR ▲	Subtotal: 2018		2018			
Severity Type ▲			Killed		Injured	
Region ▲	Total	%	Total	%	Total	%
Total	6,609	100.00%	476	100.00%	6,133	100.00%
Upstate	3,590	54.32%	270	56.72%	3,320	54.13%
Long Island	1,142	17.28%	128	26.89%	1,014	16.53%
NYC	1,877	28.40%	78	16.39%	1,799	29.33%

NYS Crash Summary - Driver Age and Gender by Crash Type

	2018	
	Total	%
Total	707,980	100.00%
Male	411,571	58.13%
Under 16	114	0.02%
16-20	28,489	4.02%
21-29	86,706	12.25%
30-39	81,412	11.50%
40-49	69,481	9.81%
50-59	71,072	10.04%
60-69	46,062	6.51%
70 and Over	27,594	3.90%
Unknown Age	641	0.09%
Female	253,232	35.77%
Under 16	39	0.01%
16-20	21,22	3.00%
21-29	56,266	7.95%
30-39	49,716	7.02%
40-49	41,502	5.86%
50-59	39,751	5.61%
60-69	25,794	3.64%
70 and Over	18,667	2.64%
Unknown Age	272	0.04%
Unknown Gender	43,177	6.10%
Unknown Age	43,177	6.10%

For the Statewide Driver Age and Gender table, the subtotal percentages add up to 100%, and the individual percentages within the subgroups together add up to 100%.

Note that percentages are calculated based on the filters you have selected. For example, 7.95% of the drivers involved in fatal, personal injury and property damage crashes in New York State in 2018 were females 21-29 years old. Click the Female checkbox and observe that 22.22% of the female drivers involved in crashes statewide in 2018 were 21-29 years old.

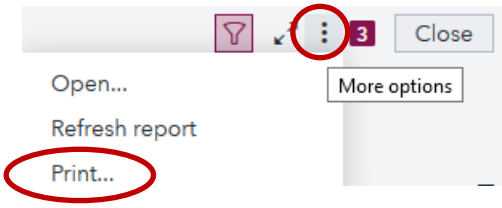


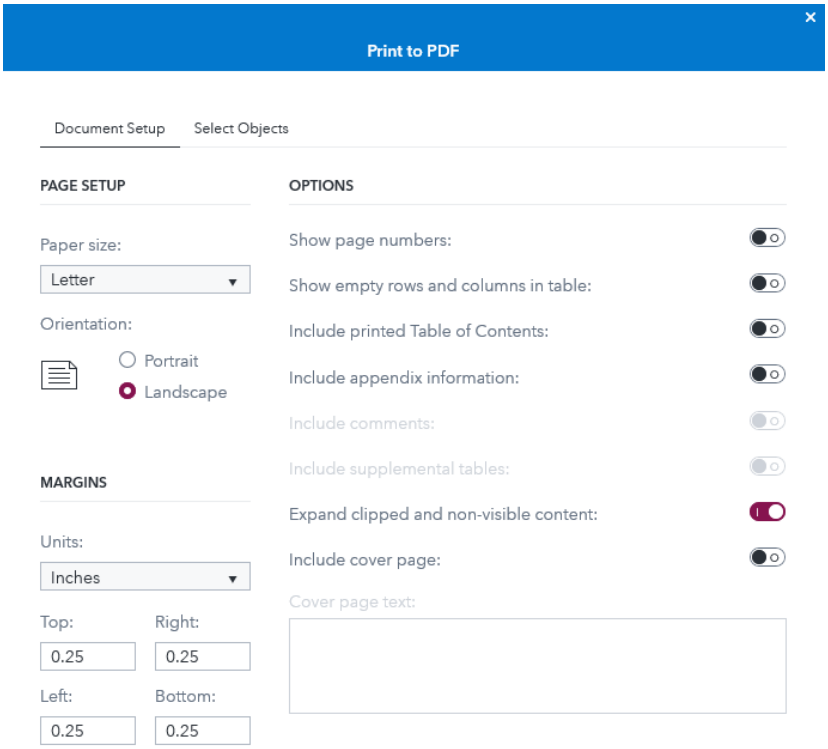
	2018	
	Total	%
Total	253,232	100.00%
Female	253,232	100.00%
Under 16	39	0.02%
16-20	21,2	8.38%
21-29	56,266	22.22%
30-39	49,716	19.63%
40-49	41,502	16.39%
50-59	39,751	15.70%
60-69	25,794	10.19%
70 and Over	18,667	7.37%
Unknown Age	272	0.11%

Save and Print Reports

Print to PDF

On the right side of the Navigation Bar, click the ***More Options icon*** and select Print... This will take you to the "Print to PDF" screen which includes various options related to the print process.





Make choices under the Document Setup tab.

Select Include appendix information if you wish to add filter info.

Select Expand clipped content to include the complete table in the document.

Under the Select Objects tab, select sections/items to print.

If you want to print the whole report, you can skip this step.

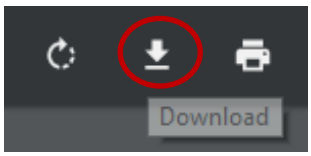
Click Print.

Clicking Print on the previous screen will take you to a page showing all items from the report in one pdf file. Please note, it may take a little time for the print routine to load. The format of the page displaying the pdf file will differ depending on the browser you are using. Instructions when using Chrome or Firefox are provided below.

Save PDF

Chrome Browser

If you are using the Chrome browser, look for the menu bar at the top of the page. If the bar is not visible, move your cursor to the top of the page to show the bar. Click the ***Download icon*** to save the pdf file to your computer.



Firefox Browser

In Firefox, at the top of the page, click the ***Download icon*** to save the pdf file to your computer.

Print a Paper Copy

Chrome Browser

If the option Expand Clipped Content was selected, both the Clipped and Expanded versions of the report objects are included in the pdf. Click the ***Expand icon*** to see the full-page view. Click the ***Restore icon*** to return to the clipped view.

Crash Contributing Factors

NYS Crash Summary - Crash Contributing Factors (Police-Reported)*

chart

Type of Factor	Contributing Factors	Subtotal: 2018 (YEAR / Severity Class of Crash) Total	2018 Fatal Total	2018 Personal Injury Total	2018 Property Damage Total
Crashes With Human Factors	Aggressive Driving/Road Rage	2,391	10	1,005	1,376
	Alcohol Involvement	8,947	105	3,577	5,265
	Backing Unsafely	21,666	5	2,132	19,529
	Cell Phone (hand held)	810	3	356	451
	Cell Phone (hands-free)	114	.	48	66
	Driver Inattention/Distraction	87,728	110	29,498	58,120
	Driver Inexperience	9,577	23	3,030	6,524
	Drugs (Illegal)	1,074	13	481	580
	Eating or Drinking	181	.	68	113
	Failure to Keep Right	5,621	88	1,877	3,656
	Failure to Yield Right-of-Way	58,458	149	23,862	34,447
	Fatigued/Drowsy	1,633	4	660	969
	Fell Asleep	4,075	10	1,628	2,437
	Following Too Closely	71,887	17	24,051	47,819
	Illness	1,357	19	908	430

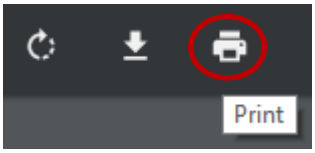
* **Alcohol Involvement** and **Unsafe Speed** numbers represent the total number of crashes in which the police checked those as apparent contributing factors on the police accident report form. Hence, they do not represent the total number of alcohol-related or speed-related crashes that occurred in the state. For data on the total number of alcohol-related crashes in New York State, see the separate report titled "Summary of Alcohol-Related Motor Vehicle Crashes." For data on the total number of speed-related crashes in New York State, see the separate report titled " Summary of Speed-Related Motor Vehicle Crashes."

Type of Factor	Contributing Factors	Subtotal: 2018 Total	2018 Fatal Total	2018 Personal Injury Total	2018 Property Damage Total
Crashes With Human Factors	Texting	62	2	23	37
	Traffic Control Device Disregarded	15,007	55	7,597	7,355
	Turning Improperly	18,101	19	4,354	13,728
	Unsafe Speed	35,097	217	11,607	23,273
	Using On Board Navigation Device	135	1	44	90
	Vehicle Vandalism	4	.	1	3
	Other Human	82	.	28	54
Crashes With Vehicular Factors	Accelerator Defective	333	.	133	200
	Brakes Defective	2,327	3	920	1,404
	Driverless/Runaway Vehicle	383	2	109	272
	Headlights Defective	96	.	43	53
	Other Lighting Defects	159	1	78	80
	Oversized Vehicle	1,973	1	220	1,752
	Steering Failure	1,033	1	302	730
	Tinted Windows	47	.	20	27
	Tire Failure/Inadequate	2,031	5	500	1,526
	Tow Hitch Defective	101	.	13	88
	Windshield Inadequate	45	.	13	32
	Other Vehicular	8,398	14	2,576	5,808

Type of Factor	Contributing Factors	Subtotal: 2018 Total	2018 Fatal Total	2018 Personal Injury Total	2018 Property Damage Total
Crashes With Environmental Factors	Shoulders Defective/Improper	92	.	27	65
	Traffic Control Device Improper/Non-Working	331	.	138	193
	View Obstructed/Limited	7,559	25	2,327	5,207
	Other Environmental	37	.	11	26

While each report typically has nine or more sections, the total number of pages in the pdf file may be greater because of the expanded views of some items in the file.

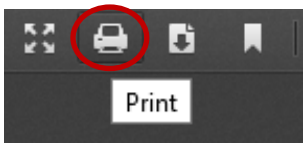
Click the ***Print icon*** at the top of the page and select the pages you want to print.

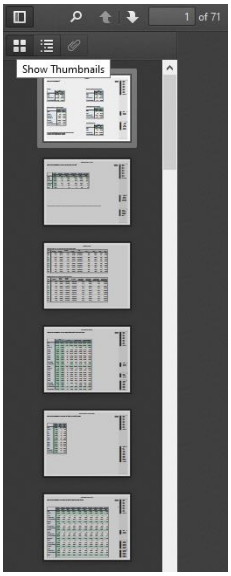


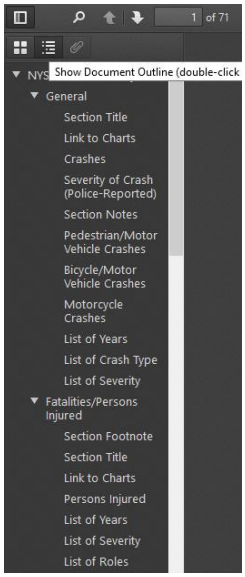
Firefox Browser

Review the thumbnails and/or the Document Outline on the left side of the screen. If the option Expand Clipped Content was selected, as with Chrome, the Clipped and Expanded versions of the report objects are included in the pdf.

Click the ***Print icon*** at the top of the page and select the pages you want to print.







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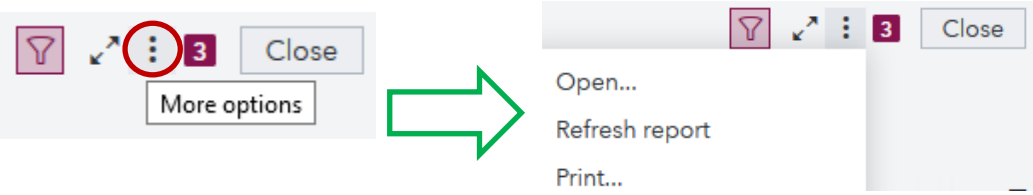
Appendix A – Additional Options

Report Options

On the right side of the navigation bar, click the ***More Options icon*** to select from a menu of report options.

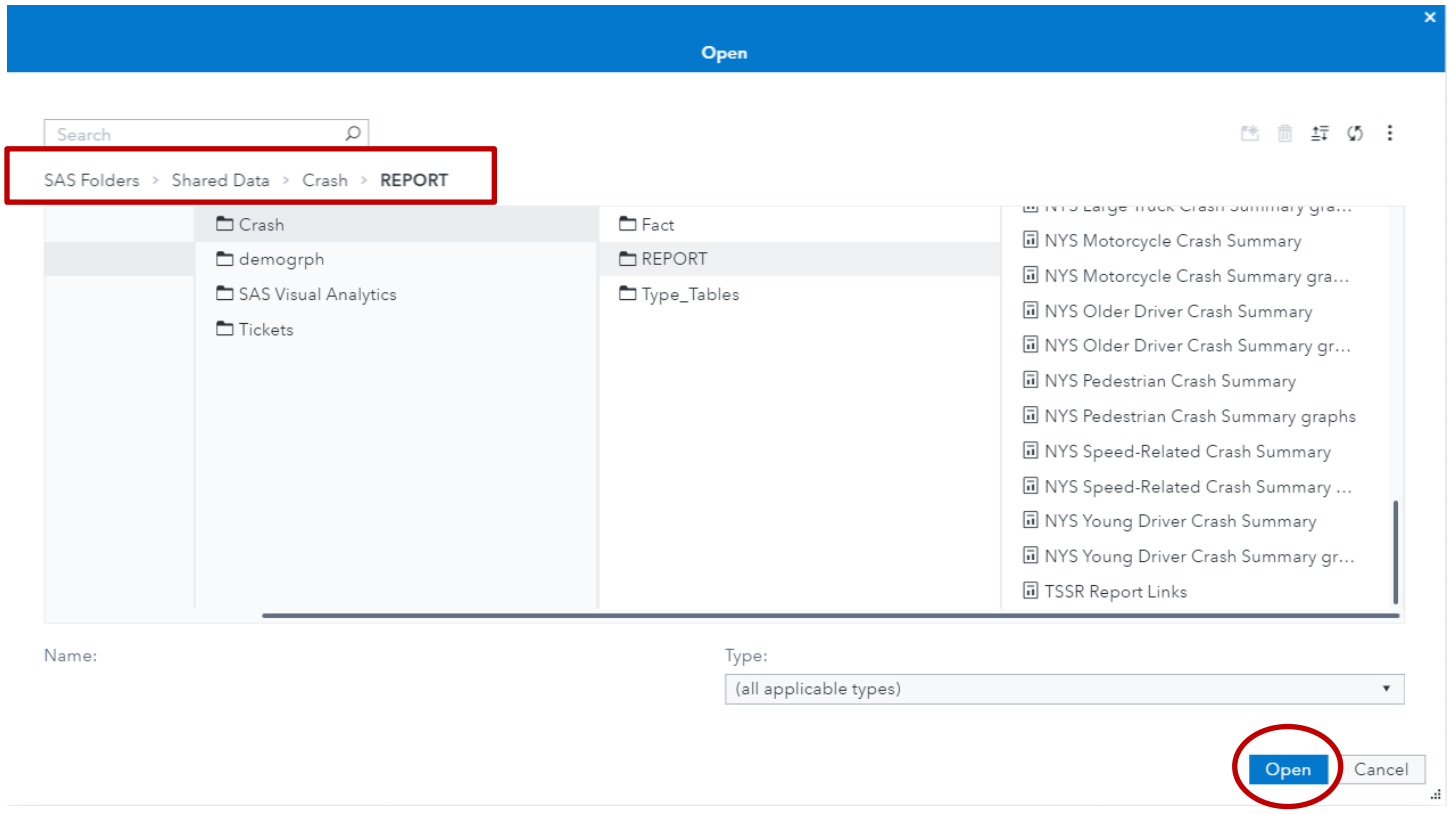


See below.

Click to **refresh** when necessary.

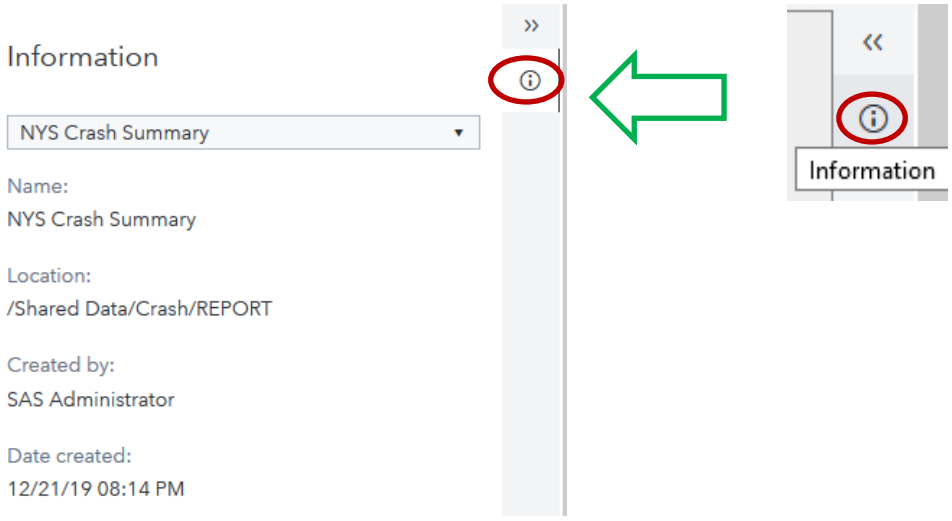
See the section **Save and Print Reports** on page 10.

To open a Crash report, click ***More Options > Open…***. In the **Open dialog box**, navigate to **SAS Folders > Shared Data > Crash > REPORT**, select a report from the list, and click the ***Open button***.

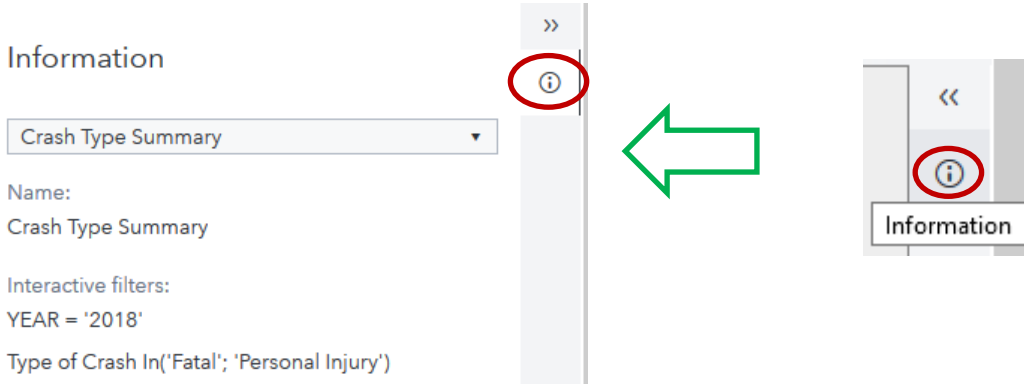


To open a Ticket report, navigate to **SAS Folders > Shared Data > Tickets**, select a report from the list, and click the ***Open button.***

In the menu bar on the right side of the report, click the ***Information icon*** to show or hide details about the report.



Click a table or graph, then click the ***Information icon*** to show or hide basic information about the table or graph selected.



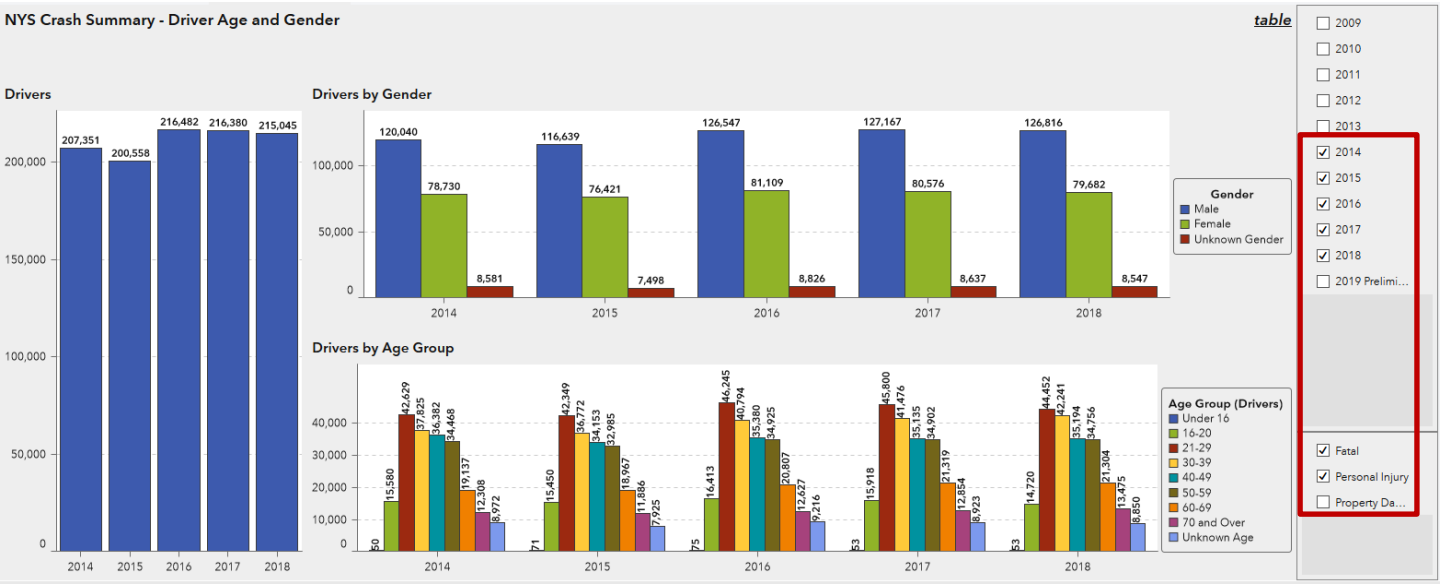
Click the ***Filters icon*** on the right side of the navigation bar to show or hide prompted filters, for example, the **Report Type dropdown**. The icon will be inactive on reports that do not have prompted filters.

Filter with Charts

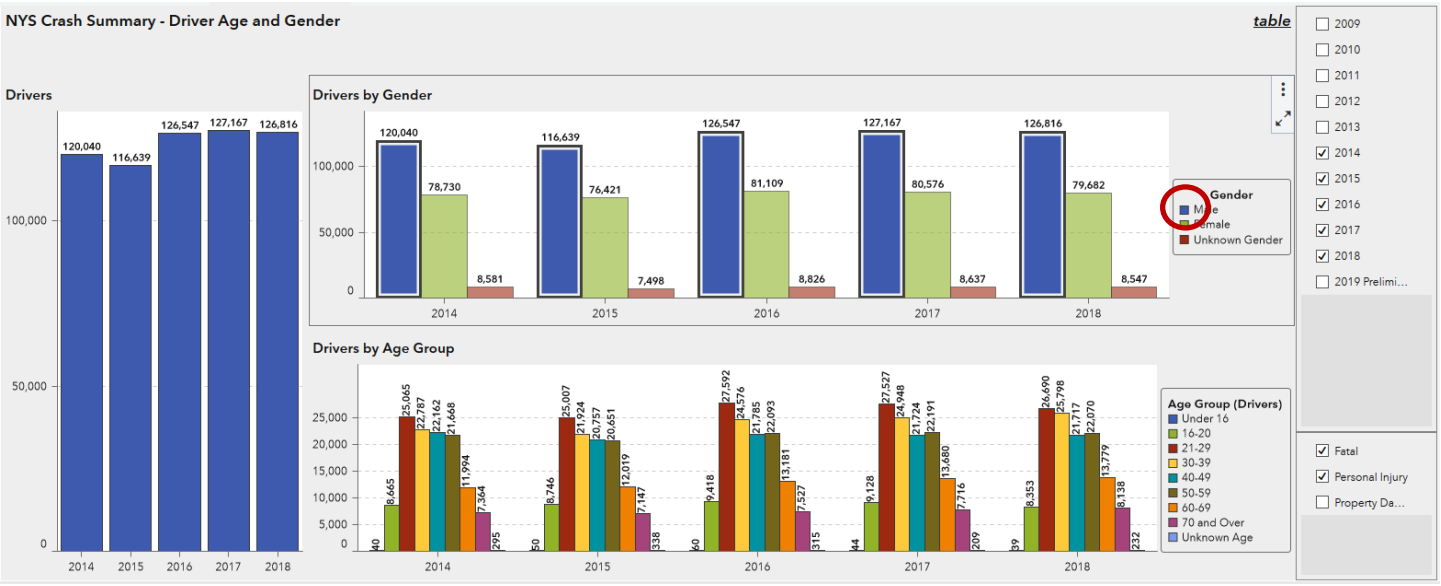
Click a single value in a chart legend, or Control-click multiple values, to filter data results in charts, where available.

Example: To find the numbers of male drivers under age 30 who were involved in fatal and personal injury crashes in New York State from 2014 to 2018, go to Statewide Crashes > Driver Age and Gender, click ***charts*** and follow these steps:

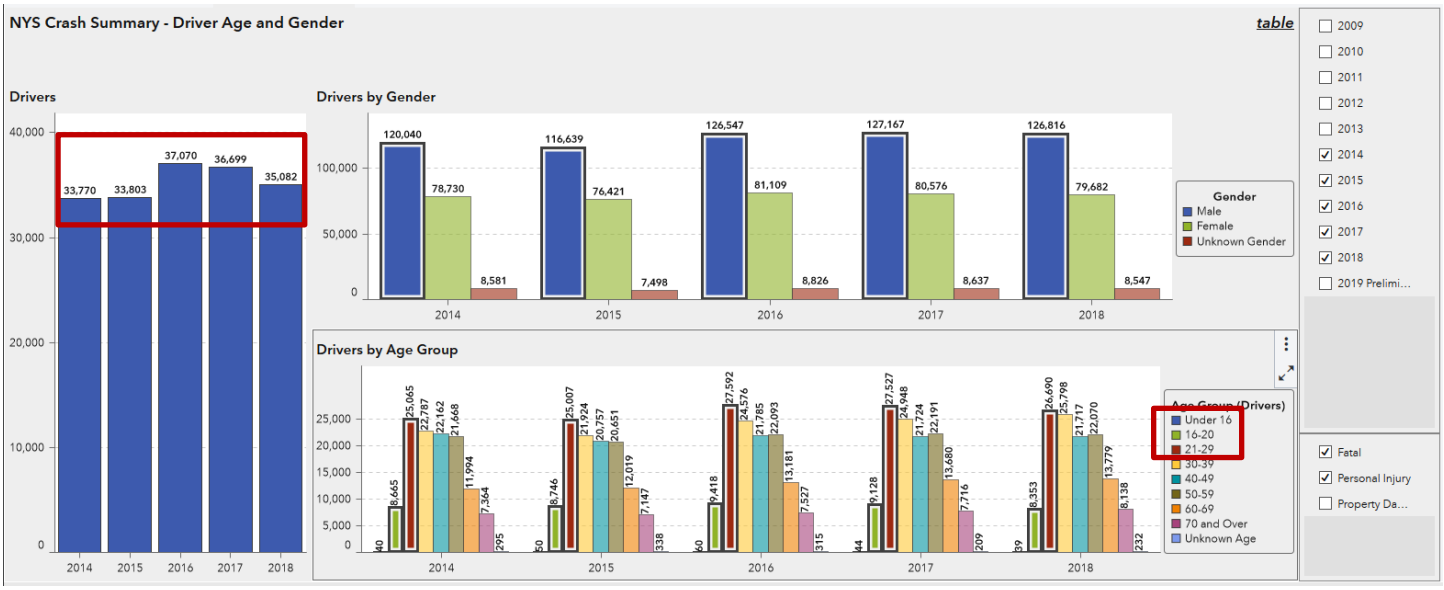
1. On the checklists, select years 2014-2018; select Fatal and Personal Injury.



2. In the chart legend for Drivers by Gender, click Male.



3. In the chart legend for Drivers by Age Group, control-click Under 16, 16-20, and 21-29. View results in the Drivers chart.



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