

Safety Data Viewer

User Guide



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Introduction

Traffic Safety Data Viewer App – Overview

The Traffic Safety Data Viewer (SDV) is an internal web application designed to provide access to the traffic crash data and standard analyses used for project development and post implementation analysis. The SDV application is the primary source for crash data and analysis for most location specific inquiries. There are 3 different crash data sets used in the application, depending on the analysis being performed, the NYSDOT SIMS, NYCDOT/NYPD fatality database, and the NYPD FORMS/TAMS.

There are four primary functions in the application:

The standard 5 year “crash history” for a study area, generates the corridor traffic safety report.



This report is used in project exploration, design, and prioritization. The crash history is always the 5 years of NYSDOT (and NYCDOT fatalities), and defaults to the latest 5 years. The injuries are displayed on the map and aggregated by intersection and midblock center point. The report provides the ranking (corridor projects only) of how dangerous the study area is compared to all other corridors in the borough.

The “before-after” analysis is intended as a standardized method of analyzing the safety performance of a project after it has been implemented.



This function uses the NYPD data to allow for the most recent data available to be used. The structure of a standard before / after analysis is to compare the 3 years prior to construction to the annualized crashes for 1, 2, or 3 years after construction, depending on how much time has passed since the end of construction.

The “advanced query” function is useful for data exploration and allows either NYPD or NYSDOT data.



The NYPD data is limited to injuries by mode by year, but includes data through the end of the latest full calendar year. The excel output includes additional details from each crash when it is available. The NYSDOT data allows for user defined cross-tab tables. The cells reflect the total number of injuries that meet the criteria in both the row and columns the user defined. The export excel feature functions the same way as in the crash history function.

The “summary stats” function provides basic injury stats (NYSDOT/NYCDOT fatalities) by political / administrative district for a 5 year period.



The map will display the relative rank of the districts by injuries per square mile for the 5 year period compared to the other districts in the city.

How the app works – High level work flow

The typical workflow would be for the user to select the location they are interested in, then choose the type of analysis and define any parameters. The location selection can be selected directly from the map or by importing a project from the SIP Portal. The map-based selection allows a user to select intersections or segments depending on the study area. SIPs can be found by using the SIP Portal ID (pid) or by searching for the SIP by various attributes. Once the study area and analysis are returned, the user can select various subsets of the data via the table(s) to see if there are any concentrations within a study area.

1

Select the Location or Sip Search

The interface consists of two main panels. On the left is a map of a city area with street names like West 96 St, East 96 St, West 95 St, East 95 St, and so on. Overlaid on the map are several colored shapes representing different study areas. On the right is a 'PROJECT SEARCH' dialog box. It has fields for 'SIP PROJECT# e.x. 806' and 'SIP Prj #'. Below these are dropdown menus for various filters: NAME, SIP PM, SIP YEAR, STATUS, UNIT, FUNDING SRC, MTP, VISION ZERO, BOROUGH, CITY COUNCIL DIST, COMMUNITY DIST, PRECINCT, SENIOR AREA, VZ GEO, and ZIP CODE. At the bottom of the dialog are buttons for 'CLEAR', 'CLOSE', and 'SEARCH'.

2

Identify Analysis Type



Crash History



Advanced Queries



Before After



Summary Stats

3

Filter/Download Outputs



PDF DOWNLOAD

EXCEL EXPORT

SAVE

Details

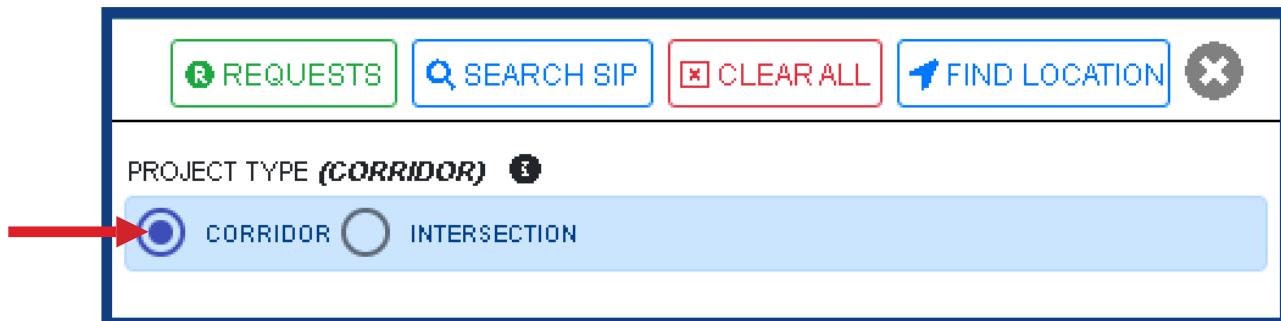
The SDV application uses selections from the street network to filter the crashes included in analyses. There are 2 ways of defining a study area in the SDV application:

- Selecting directly in the application
- Importing from the SIP portal application.

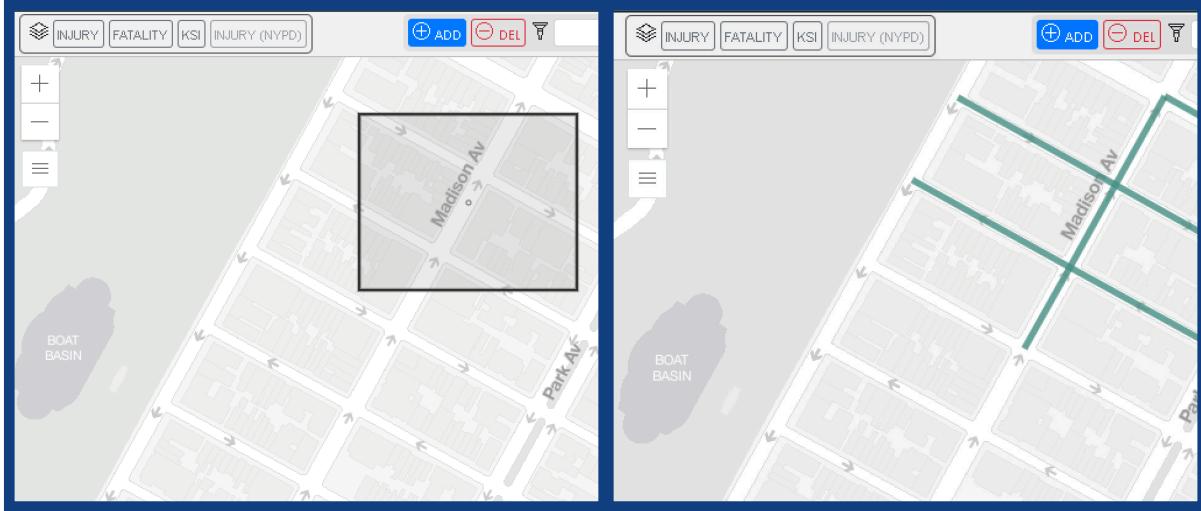
Selecting From The Map

To select a location from the map, the user **must select corridor or intersection from the menu on the left side**. This will define what is being selected from the map.

Then click the  button on the top right of the map to begin selecting.

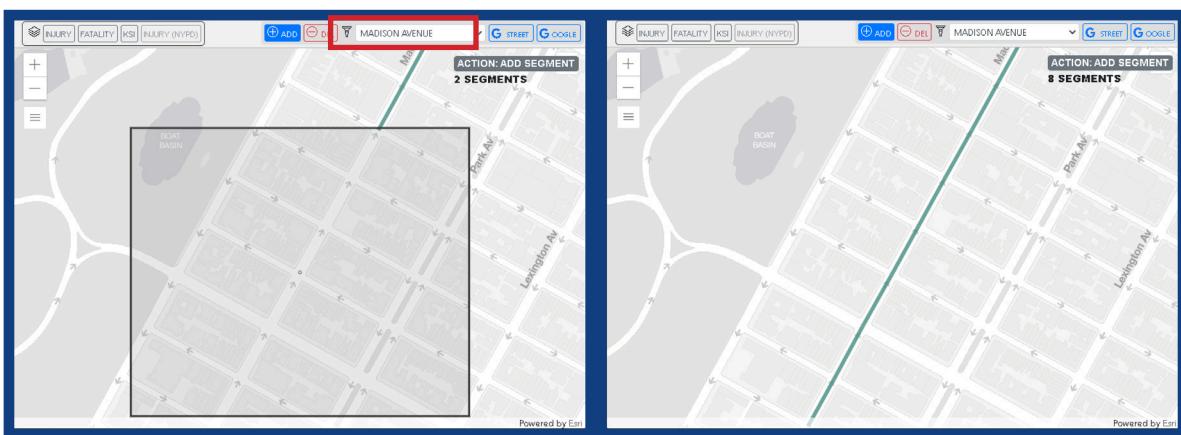


To select the user clicks and drags a rectangle over the streets/intersections to be analyzed. Because the application uses CLION if any portion of a block/intersection is selected all segments/nodes of the block/intersection will be added to the selection (see CLION section for further explanation).



To continue adding additional segments/nodes to the selection simply repeat the prior step. If selecting a corridor, once an initial selection is made the user can choose a street name to limit all future additions to that street. This is helpful when selecting long corridors.

Adding additional segments limited to one street name



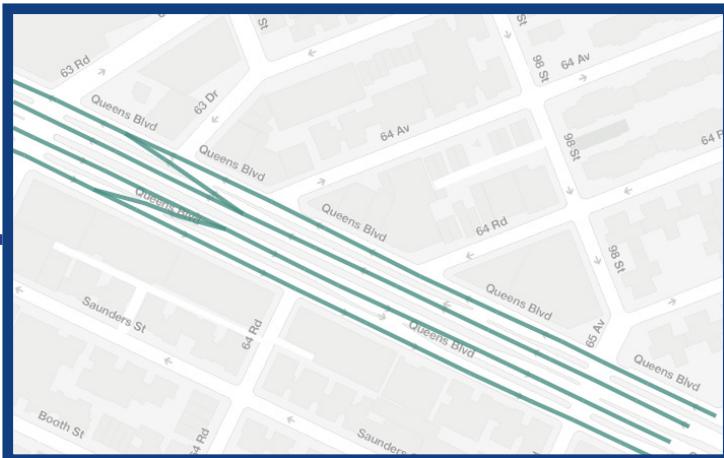
Additional Geography details

To remove segments/nodes from a selection use the  DEL button.

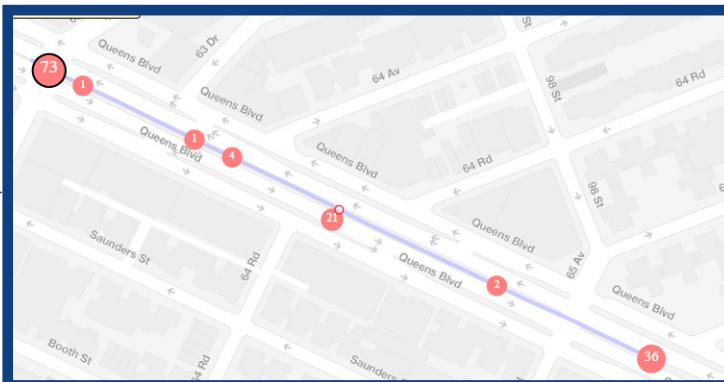
Using the street name filter here will remove any segments in the user defined rectangle except the streets with the filter name.

Any selections on a street with a divided roadbed will show up as centerline selection once the crash analysis is run. This does not impact the selection, but is for display purposes. All of the segments or nodes that are used in the analysis are provided in the Show Node/Segment info section (hidden by default).

Multi Roadbed



Centerline



SIP Portal

To utilize the geometry from an existing (or planned) project that was already defined in the SIP portal, use the [sip search] button at the top of the menu on the left side. The user can select the project geometry by entering the SIP ID number or by searching by project attributes.



Note: This button is not visible if the user does not have permissions to access the SIP portal.

Sip Project: Broadway, 2016

A screenshot of the 'TRAFFIC SAFETY DATA VIEWER 2 - Search SIP Projects' interface. On the left is a 'PROJECT SEARCH' sidebar with dropdown menus for 'NAME' (set to 'Broadway'), 'SIP PM' (set to '-Select-'), 'SIP YEAR' (set to '2016'), 'STATUS' (set to 'Completed'), and various other filters like 'UNIT', 'FUNDING SRC', etc. At the bottom of the sidebar are 'CLEAR', 'CLOSE', and 'SEARCH' buttons. The main area shows a table of search results with columns: #, PROJECT NAME, STATUS, PM, VZ TYPE, UNIT, START DATE, and END DATE. There are four rows of results: 696 (Broadway 225, Completed SIP, dcawley, V2 Project, RIS, 10/31/2016, 12/14/2016); 810 (Broadway, 41i, Completed SIP, mmoffett, Priority Area + Corrid, Ped Unit, 08/05/2016, 11/03/2016); 787 (Broadway, Ha, Completed SIP, vuolum, None, Traffic Engineering ai, 08/15/2016, 08/18/2016); and 713 (Broadway, W, Completed SIP, aposner, Priority Corridor, RIS, 04/18/2016, 07/28/2016). A note at the bottom says '1 selected / 4 total'.

Before / After - Additional Step

Because the NYPD data is intersection only, any locations defined by a selected corridor need to be translated into nodes. When corridors are used for the input geometry (either from importing a SIP project or selecting from the map) an extra step is needed. In these cases the user is presented with a confirmation page, which includes the input segments and the resulting selected nodes. In the cases where the segment selected is not meant to include the full block or the segment to node

translation yields unexpected results, then the user can use the



button to correct this over selection, the original segment selection is shown in blue as a guideline.

More information here —>

Primary Functions



Crash History

The standard 5 year crash history for a study area, generates the corridor traffic safety report. This report is used in project exploration, design, and prioritization. The crash history is always the 5 years of NYSDOT (and NYCDOT fatalities), defaults to the latest 5 years. The injuries are displayed on the map and aggregated by intersection and midblock center point.

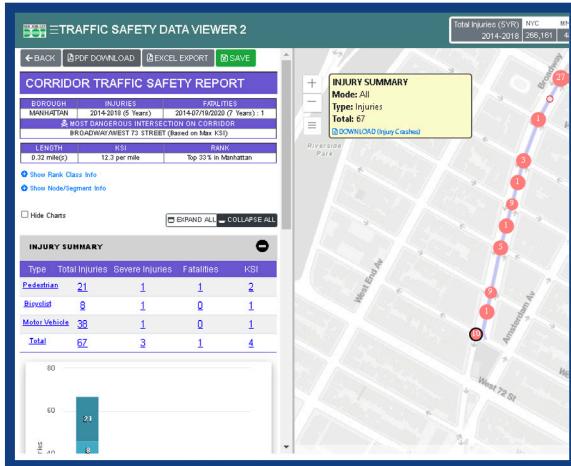
The report provides the ranking (corridor projects only) of how dangerous study area is compared to all other corridors in the borough. If the study area crosses borough boundaries the borough with the majority of the project's mileage is used as the reference. The thresholds for the different ranks in each borough for the given years is provided in the Rank Class info section (hidden by default). The ranking is intended to provide some context to the numbers. The ranking is based on the total number of people Killed or Severely Injured (KSI) per mile in the study area.

The crash history function provides the following statistics, in 5-year ranges:

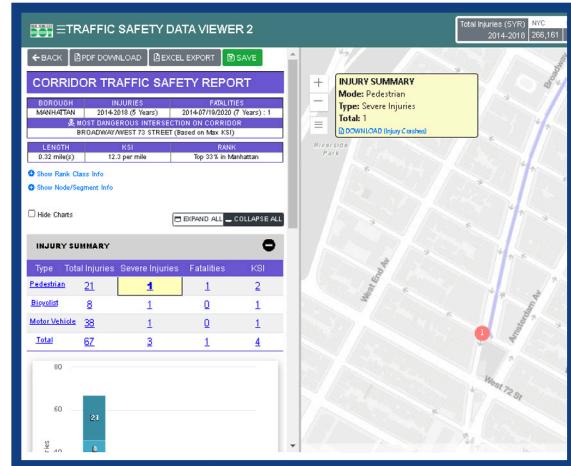
- Injury summary (injuries by mode and severity)
- Fatalities (5 year analysis period and through the present)
- Non-fatal injuries by severity
- Injuries by year
- Injuries by time of day by type
- Pedestrian injuries by intersection control and pedestrian action
- Bicycle injuries by intersection control and bicyclist action
- Motor vehicle injuries by collision type
- Injuries by age group
- Pedestrian injuries by vehicle action and pedestrian action

All tables are interactive, meaning each cell in any table acts as a filter for the crashes displayed on the map. For example the 1st table is the injury severity by mode, so selecting the upper left most cell would limit the crashes on the map to pedestrian KSI.

Unfiletered Crashes



Filtered By Severe Injuries



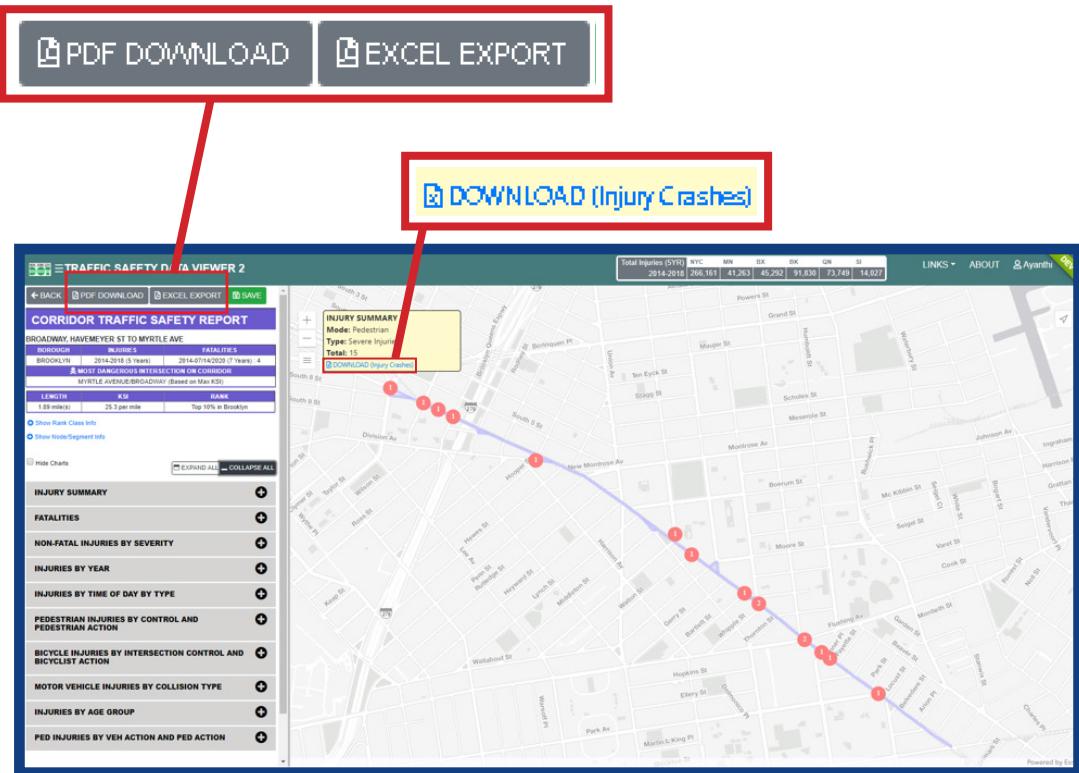
The fatalities used are always from the NYCDOT-NYPD reconciled fatality data and 2 slices of the data are provided in the second table. The fatalities for the 5 years included in the analysis and the total fatalities from the beginning of the analysis period to present (typically a day or two lag). This second number is not intended for analysis, but to keep the user informed of any recent fatalities in the study area.

FATALITIES		INJURY SUMMARY					
		2014-2018 (5 Years)	2014-07/20/2020 (7 Years) : 1				
Type	Count	Count	Count	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	1	2		109	14	1	15
Bicyclist	0	1		33	5	0	5
Motor Vehicle	0	0		131	5	0	5
Total	273			273	24	1	25

The fatalities used are always from the NYCDOT-NYPD reconciled fatality data and 2 slices of the data are provided in the second table. The fatalities for the 5 years included in the analysis and the total fatalities from the beginning of the analysis period to present (typically a day or two lag). This second number is not intended for analysis, but to keep the user informed of any recent fatalities in the study area.

The **PDF DOWNLOAD** generates a pdf version of the report with all of the table, and the map of the study area. The graphs are included in the pdf export of the report.

The **EXCEL EXPORT** button will download a flattened version of the raw data for all crashes used in the analysis. The same flattened version of the data can be exported from the download (injury crashes) link in the map, but that link will only download the records that are shown in the map, based on the filter conditions (ie. if a cell in a table is selected). The flattened table will include the 1st three vehicles and their contributing factors. Because the fatalities used are always from the NYCDOT-NYPD reconciled dataset and the data structure does not match with the NYSDOT data, the excel output only includes NYSDOT data.





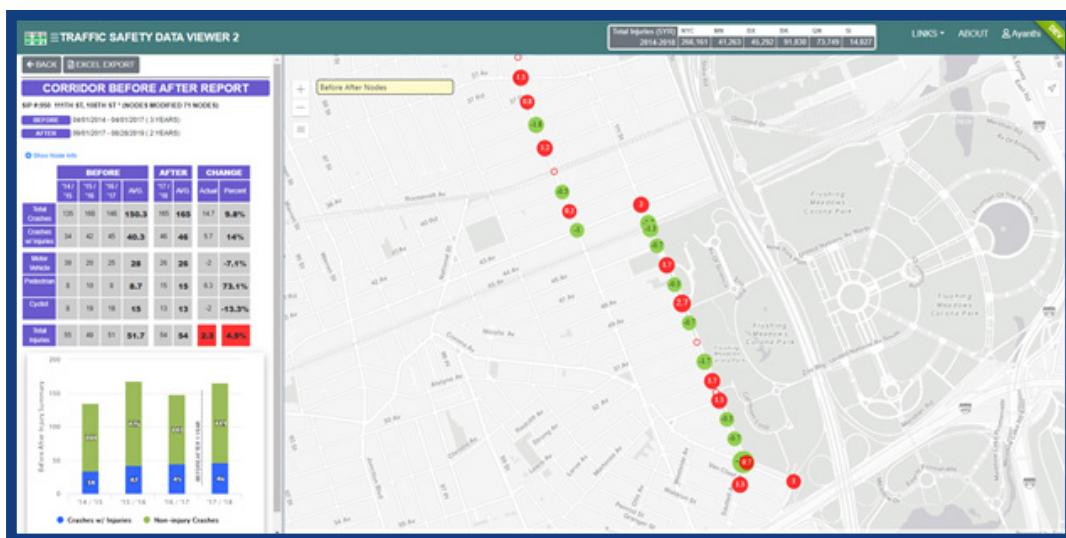
Before / After

When a standard analysis is run the annualized injuries by mode table will show up in the application and the map will show the change in total injuries for each intersection in the analysis. Neither the table nor the map features are available for a sub-year analysis.

It is important to be aware that the NYPD switched to electronic crash reporting in mid-2016. This change has a number of implications. The number of injuries jumped and have remained consistent since the change, the new data has additional info which can only be reliably reported for 2017 and later, the data now allows for crashes' locations to be recorded with an address (potentially mid-block) as well as intersection (we force all crashes to intersections for consistency).

The before after analysis is intended as a standardized method of analyzing the safety performance of a project after it has been implemented. This function uses the NYPD data to allow for the most recent data available to be used. The NYPD data is available up through the end of the latest full month. Because this uses the NYPD data, the details are limited to the number of injuries by mode.

The structure of a standard before / after analysis is to compare the 3 years prior to construction to the annualized crashes for 1, 2, or 3 years after construction, depending on how much time has passed since the end of construction. Partial years are not included due to potential seasonal differences. The application will default to the maximum number of full years after the end of construction (up to 3).



Non-standard before/afters

If an analysis is needed before 12 months have passed since the end of construction a partial year analysis can be generated, but it does not include all tables. When less than 1 year of after data is available only months present in the after period will be included in the before period for consistency.

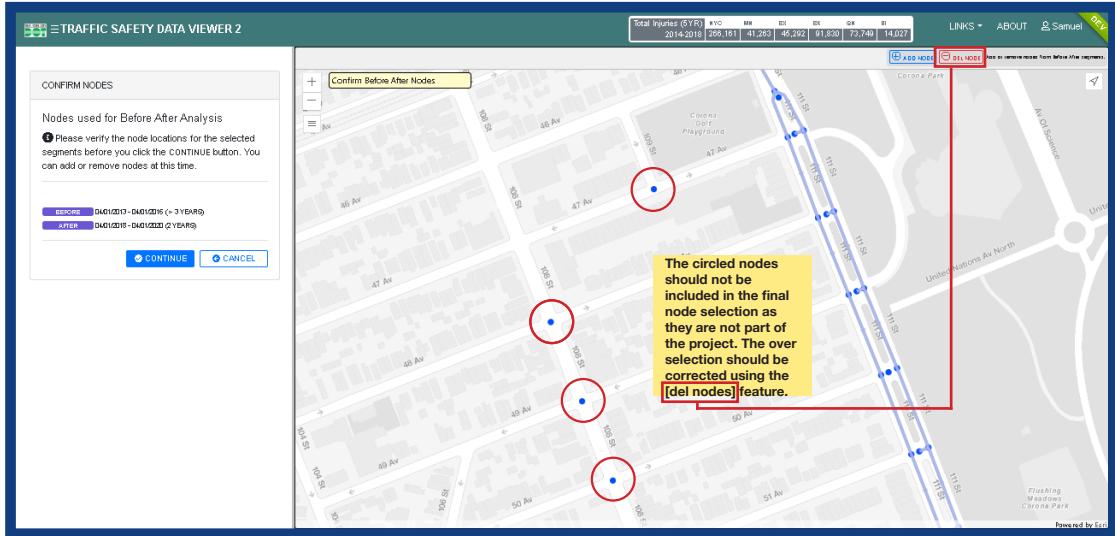
Advanced option is available for scenarios where non-standard conditions prevent the standard time frames for analysis. For example if an unrelated project that intersected the project geography was under construction during the 3rd before year the user may want to only include 2 years of before data in the analysis. The advanced query option allows the user to override the defaults for the start of the before period or the end of the after period.

Month	Before (7/1/2012 - 7/1/2015)										After (1/1/2015 - 6/6/2016)														
	Injuries				Normalized (freq)						Injuries				Normalized (freq)										
	Freq. (Mo.)	Ped	Bike	Veh	All	Cr	Inj	Cr	Ped	Bike	Veh	All	Cr	Inj	Cr	Ped	Bike	Veh	All	Cr	Inj	Cr			
1	3	6	0	16	22	96	3	1.3	28.3	5.3	1	0	3	10	40	0	0.0	3.0	10.0	40.0	0	0			
2	3	5	0	22	21	72	20	1.7	6.0	1.3	0.0	4.3	2.7	1	0	0	10	26	7	0.0	3.0	10.0	26.0	3.0	
3	3	4	2	13	18	90	10	1.3	0.7	4.3	6.3	28.7	6.0	1	1	1	4	6	23	6	1.0	1.0	4.0	6.0	3.0
4	3	1	6	20	27	76	20	0.3	2.0	6.7	3.0	25.3	6.7	1	0	0	3	5	30	7	0.0	0.0	3.0	3.0	2.0
5	3	3	2	17	22	81	17	1.0	0.7	5.7	7.3	27.0	5.7	1	1	1	7	3	20	7	1.0	1.0	7.0	7.0	2.0
6	3	2	4	25	31	81	21	0.7	1.3	8.3	10.3	27.0	7.0	1	0	0	1	1	6	1	0.0	0.0	1.0	1.0	1.0
7	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0
8	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0
9	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0
10	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	0.0	0.0	0.0	0.0
11	3	4	1	13	18	71	12	1.3	0.3	4.3	6.0	23.7	4.0	1	1	0	3	10	23	7	1.0	0.0	3.0	10.0	23.0
12	3	3	1	16	20	90	16	1.0	0.3	5.3	6.7	30.0	5.3	1	1	1	3	5	23	5	1.0	1.0	3.0	5.0	23.0
Total	24	28	16	142	188	637	140	9.3	5.3	47.3	62.0	212.3	46.7	8	5	3	52	60	203	46	5.0	3.0	52.0	60.0	203.0

Selecting the study area

Because the NYPD data is intersection only, when selecting a location or importing a SIP for a before / after, if the selection or SIP is a corridor, an extra step is needed. When segments are used for selection, a confirmation page is shown for the user to confirm that the resulting selection of nodes derived from the originally selected segments is what is intended for analysis. In the cases where a segment is selected, but the segment is not meant to include the full block then the user can use the

button to correct the over selection of nodes, the original segment selection is shown in blue as a guideline. This behavior can occur in where segments, which are effectively entirely within an intersection, are included. Because the SDV works on blocks, the inclusion of these can yield unexpected results in the SDV.



In the image above, note that some intersections that don't align with the SIP geometry are included.

When a SIP is imported the project's implementation dates are automatically entered into the before / after date fields, these can be altered if an adjustment period is needed.

A

Advanced Query

The advanced query generates an injury by year summary as well as several custom cross tabulations based on different crash data variables. The advanced query allows for analyses for 2001 to the most recent year available. For the advanced query, you can choose to use NYPD or NYS crash data, **but only the NYS data will generate the cross tabs.**

Select Year Range

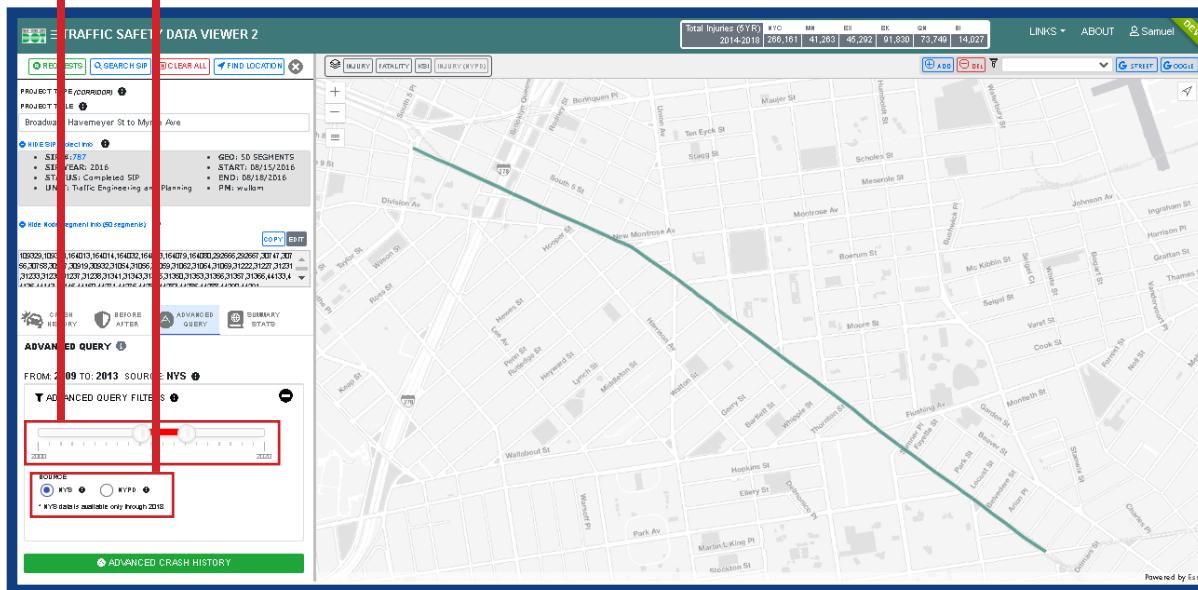
A horizontal timeline bar representing the years from 2000 to 2020. The bar is white with a red segment from 2008 to 2012. There are small tick marks every two years. The year 2000 is at the far left, and 2020 is at the far right. The red segment starts at the 2008 mark and ends at the 2012 mark.

Select data source

SOURCE
 NYS  NYPD <img alt="grey circle icon with dot" data-bbox="635 195 675 235}
* NYS data is available only through 2018

[Click here to get final output](#)

ADVANCED CRASH HISTORY



The custom cross-tab feature allows users to generate injury tables using different combinations of fields. Due to the structure of the NYSDOT data there are a number of conditions which are ambiguous and need to be counted in the unknown or not applicable categories for any given field.

Each field has its own restrictions and when two fields are used in this cross tab function the most restrictive conditions of both fields get applied to the whole table. For example, when pedestrian action is crossed with motor vehicle action only pedestrian injuries (condition of pedestrian action) from crashes that involved only 1 motor vehicle (condition of motor vehicle action) are included.

Any crashes with bike or motor vehicle occupants would be in the NA category of the pedestrian action and any crashes with more than 1 motor vehicle would be in the unknown category of the motor vehicle action.

Crosstabs to create custom tables

The screenshot shows the Traffic Safety Data Viewer 2 interface. At the top, there is a "CUSTOM CROSS TAB QUERY" dialog box with a red border. Inside, under the "ROW" section, "LOC" is selected, and under the "COLUMN" section, "VEHICLE TYPE" is selected. Below this, a "CROSS TAB REPORT" table displays data for "INJURIES BY YEAR". The table includes columns for Year, Pedestrian, Bicyclist, Motor Vehicle, and Total. The data is as follows:

Year	Pedestrian	Bicyclist	Motor Vehicle	Total
2009	30	17	57	104
2010	43	19	65	127
2011	32	14	68	114
2012	25	22	70	117
2013	26	16	71	113
Total	156	88	339	575

Below the report is another "CUSTOM CROSS TAB QUERY" dialog box, identical to the one above it, with "LOC" in the row and "VEHICLE TYPE" in the column. At the bottom of the interface, there is a "CROSS TAB REPORT" table for "INJURIES BY BLOCK". The table includes columns for MIDBLOCK, INTERSECTION, MOTORCYCLE, CAR/WIPER/CHIP, TRUCK, BUS, UNKNOWN, and TOTAL. The data is as follows:

	MOTORCYCLE	CAR/WIPER/CHIP	TRUCK	BUS	UNKNOWN	TOTAL
MIDBLOCK	1	11	1	0	12	25
INTERSECTION	3	157	7	9	374	550

On the right side of the interface, there is a map of New York City with red dots representing injury locations. A yellow box on the map contains the following information:

- Mode: All
- Year: Total
- Total: 575
- [@ DOWNLOAD \(Injury Crashes\)](#)

The variables that can be cross-tabbed with each other are:

- Year: Year in which crash occurred.
- Time of Day: Time at which crash occurred where time format is 24-hour clock and aggregated into 3-hour time periods.
- Traffic Control: Type of Traffic Control at the location where the crash occurred as reported in the police report.
- Ped Action: Action of pedestrian in crash where the motor vehicle involved collided with a pedestrian, limited to pedestrian crashes.
- Severity: Severity of injuries for each victim involved in crash (limited to 5). The severity reported is defined by the NYS DMV KABCO score *
- Mode: Mode of travel of injured victim involved in crash.
- Taxi/Livery: True or False of whether or not crash involved at least one Taxi/Livery.
- Vehicle Type: The type of vehicle involved in crash where only 1 motor vehicle was involved. Crashes with more than 1 motor vehicle are considered unknown.
- MVO Pre Action: Action of motor vehicle in crash where only 1 motor vehicle was involved. Crashes with more than 1 motor vehicle are considered unknown.
- Bike Pre Action: Bike Action at time of Crash
- Age: Age of injured victim involved in crash. Only reported for pedestrian and bicyclist injuries. The data structure prevents accurate reporting for motor vehicle occupant injuries.
- Sex: Sex of injured victim involved in crash. Only reported for pedestrian and bicyclist injuries. The data structure prevents accurate reporting for motor vehicle occupant injuries.

* The KABCO scale for crash severity defines levels of injury severity.

"K" Fatal injuries include deaths which occur within thirty days following injury in a motor vehicle crash. This is not included, the SDV only uses fatalities from the NYCDOT / NYPD fatality database.

"A" Severe injuries include skull fractures, internal injuries, broken or distorted limbs, unconsciousness, severe lacerations, severe burns, and unable to leave the scene without assistance.

"B" Moderate injuries include visible injuries such as a "lump" on the head, abrasions, and minor lacerations.

"C" Minor injuries include hysteria, nausea, momentary unconsciousness, and complaint of pain without visible signs of injury.

"Unk Severity" Severity of injury unknown

"O" No fatality or injury; property damage only This is not included as the advanced query includes the number of injuries in each category.

* <https://www.itsmr.org/tssr-glossary/kabco-scale/>



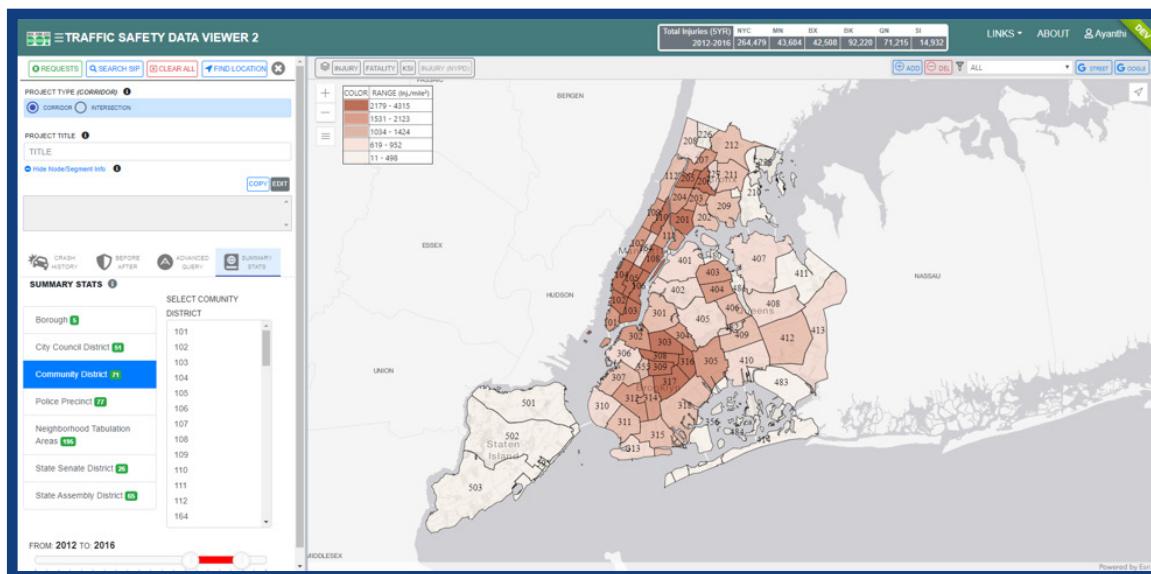
Summary Stats

The summary statistics panel provides a high level overview of crash statistics, aggregated to various geographic boundaries. Injury data is shown in fixed 5-year bins. The geographic boundaries you can aggregate crash data to are:

- Borough
- City council district
- Police precinct
- Neighborhood tabulation area
- State senate district
- State assembly district

The districts are ranked by total injuries per square mile and displayed on the map by quintile. Each district is clickable and when clicked will display the Injury Summary table for the district as a whole for the 5 years in the analysis period. The districts can be selected from the map or from the list in the. The 5 years to be used for the analysis can be modified via the slider at the bottom of the panel on the left side of the application.

Summary Statistics page, showing a choropleth map of injuries in community districts.



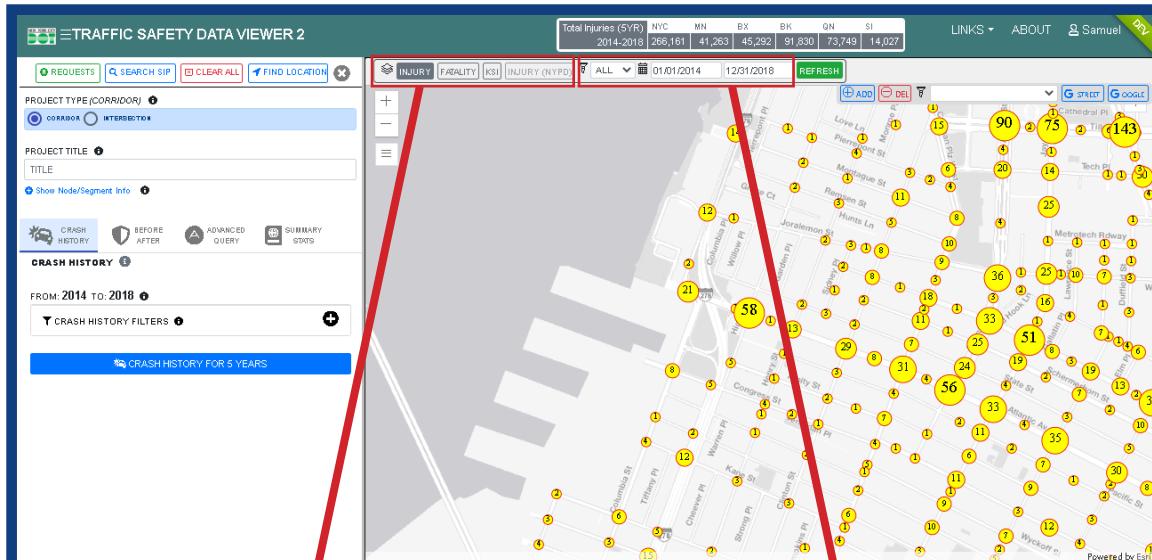
Appendix

Add-Ons

Display layers

At the top of the map there is a control for adding crash data to the display (largely for exploration purposes). The controls allow the user to display the NYSDOT injury, the NYCDOT fatality, or the KSI data filtered by date and mode on the map. The numbers and size of the points is determined by the number of injuries and/or fatalities. The fatality layer, when clicked, also provides specific info about the case(s). This includes a link to the Fatal Tracker app for the full case details; note this feature is limited to users with permission to access the Fatality Tracker.

Injury Layer



Select the injury type to show on the map

Select date range for injury display

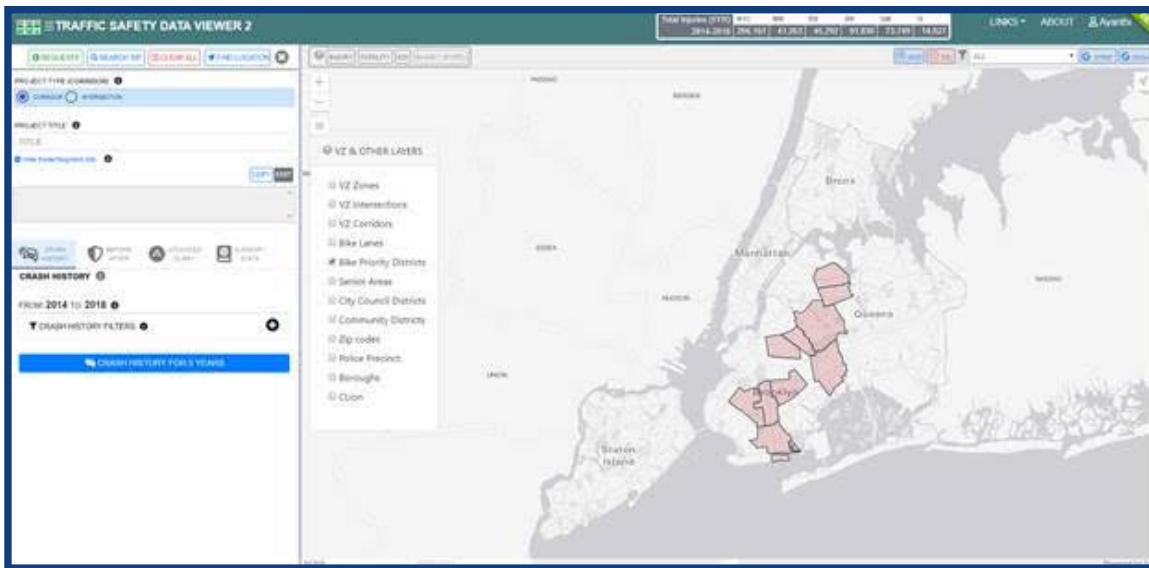
Auxiliary layers

There are a number of auxiliary display layers that are useful for reference. These are taken from the SIP portal and include political districts, Vision Zero and other priority areas. These are accessible via the hamburger button on the left side of the map. fatalities. The fatality layer, when clicked, also provides specific info about the case(s). This includes a link to the Fatal Tracker app for the full case details; note this feature is limited to users with permission to access the Fatality Tracker.

List of Filters:

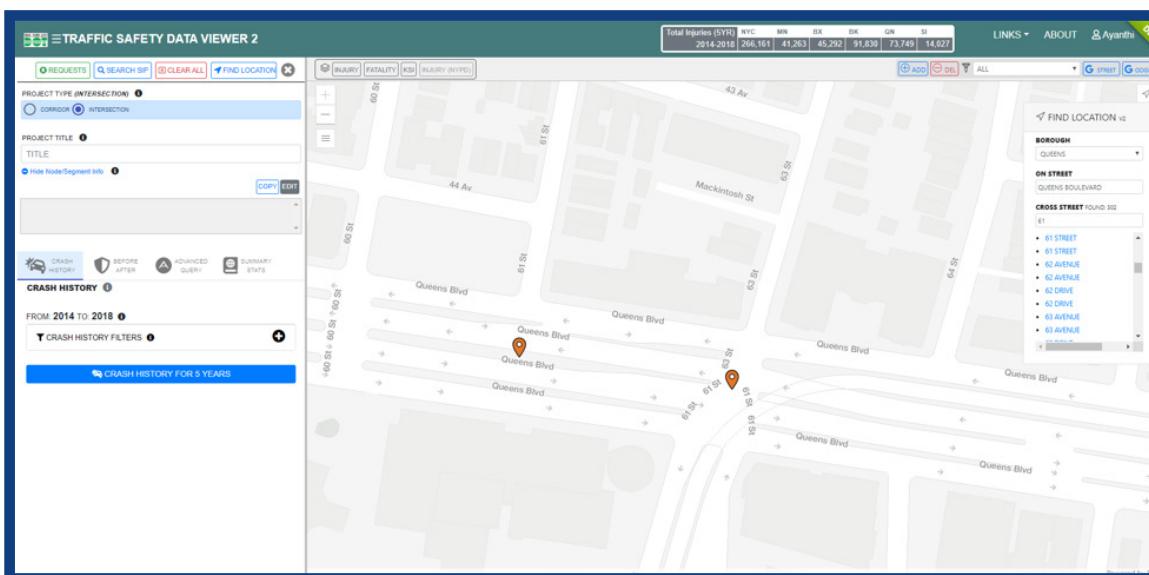
- Vision Zero Zones
- Vision Zero Intersections
- Vision Zero Corridors
- Bike Lanes
- Bike Priority Districts
- Senior Areas
- City Council Districts
- Community Districts
- Zip Codes
- Police Precinct
- Boroughs
- CLion

Sample Filter – Community Districts



Location Search

An intersection search feature is available via the arrow button on the left side of the map. The user can select the borough and then choose the on street and cross street from a list of valid intersecting streets.



Data Context

CLION

CLION attempts to translate how people think about and talk about intersections and streets to how mapping software processes nodes and segments. CLION is an extension to LION, which is a single line street base map representing the city's streets and other linear geographic features such as shorelines, surface rail lines and boardwalks, along with feature names and address ranges for each addressable street segment.

Because the locations for the crashes are derived from the police reports which describe the location, the most common pattern is 'at the intersection of street 1 and street 2'. The problem with this is that there are often more than 1 intersections which match that description. In those cases we cannot determine which of the locations that match the description the crash happened at.

To account for this all intersections with matching street names will get a common MasterID. When either of the locations is selected in the map, the application uses all of the locations with the MasterID to find the crashes. This condition is most commonly found at dog leg intersections and divided roadbed streets.

The CLION street network is updated annually with the latest "D" version of LION which coincides with the crash data update. Every year all crashes (and SIP projects and treatments) are re-mapped to the latest version of CLION. Because of this, crash data at the same location may vary when the same analysis is run in different years.

NYSDOT

The NYSDOT data is the primary crash dataset used by NYCDOT. The data is provided to NYCDOT annually by NYSDOT. The data is derived primarily from the crash reports filled out by NYPD. The crash reports are sent from NYPD to DMV, who enters the reports' data into their database and calculates the injury severity. Individuals are also able to submit crash reports directly to DMV if there is no police report. The DMV data is sent to NYSDOT where it is reviewed for errors, mapped, and transformed into the NYSDOT schema. When NYCDOT receives the data from NYSDOT it is re-mapped to the CLION dataset and reviewed for errors an additional time. This process results in a 1-2 year time lag between the crash and when it is used by NYCDOT.

Fatality

The fatality data comes from the NYCDOT-NYPD reconciled data, it is updated nightly from the Fatality Tracker application. This data is mapped to an older street network (Lion Tamed) and automatically remapped to CLION during the nightly transfer. This process is not 100% perfect and is a temporary solution while the Fatality Tracker is updated to utilize CLION. Because this data changes nightly it is possible that the same analysis run two days in a row can yield different results. New fatalities can be added and after investigation from NYPD some fatalities might be removed if they are deemed non-traffic related.

NYPD

The NYPD data is updated nightly and typically has a 1-2 week lag. The data is entered by the police officers who respond to the crashes. The data does not undergo the same scrutiny and review process as the NYSDOT and fatality data, but offers the most current insight into crash trends in the city.

TAMS

Prior to 2016 the NYPD crash data consisted of a very limited number of attributes and all crashes were reported at intersections. In the spring of 2016 NYPD began to adopt electronic reporting. The crash data for 2016 is a mix of the old system (TAMS) and the new system (FORMS). The SDV application uses the TAMS database for crashes between 2000 and 2016, and the FORMS database for crashes between 2017 and present.

FORMS

The FORMS data includes all data entered on the police report for crashes. Because the SDV application needs to use both the FORMS and the TAMS database, the FORMS data is largely limited to the fields that were available in the TAMS data. In the excel output in the advanced query the accident description was added to all cases where it was available, which is limited to FORMS data.

Ranking

The ranking system uses the KSI per mile of the selected corridor to the distribution of the KSI per mile of all other corridors in the same borough. If the selected corridor would be within the top 10% of the mileage of corridors in the same borough it is defined as a ‘high crash corridor’. All rankings are done on the same 5 years of data that is used for the study area’s crash history. Intersections are not ranked as there is no way to normalize (like corridor length) so the distribution of intersections by KSI does not yield meaningful results. It is important to note that this is not the same methodology that generated the Vision Zero Priority corridors.

**Corridor Classes by Borough
KSI/Mile Range 2014-2018 (5 Years)**

Borough*	Total Mileage	KSI	Total KSI/MILE	KSI/Mile Range			
				Top 33.3%		Middle 33.3%	Lowest 33.3%
				Top 10%	Next 23.3%		
MN	719	2,857	4	20.36+	10.53-20.35	4.68-10.52	Up to 4.67
BX	961	2,272	2.4	14.05+	7.55-14.04	2.74-7.54	Up to 2.73
BK	1,732	4,680	2.7	13.25+	7.54-13.24	2.96-7.53	Up to 2.95
QN	2,479	3,444	1.4	10.85+	5.36-10.84	1.89-5.35	Up to 1.88
ST	1,045	756	0.7	6.76+	3.88-6.75	1.62-3.87	Up to 1.61

Citywide Totals	Total Mileage	KSI	Total KSI/MILE
Total Citywide Non-Highway	6,027	15,232	2.5
Total Citywide Highways	292	1,867	6.4
Total City**	6,318	17,099	2.7

*Streets Only. Totals exclude highway crashes and highway mileage.

**Includes mappable crashes only.