



## **Serious Injury Response, Tracking & Analysis Program (SIRTA)**

### Quarterly Report – Q4 2024 - NYC Department of Transportation

#### **Background:**

SIRTA is a program at the New York City Department of Transportation (NYC DOT) that investigates, analyzes and reports on all serious vehicular crashes, reviews street design, infrastructure and driver behavior at each crash location, and makes recommendations for safety maximizing changes to street design or infrastructure. NYC DOT must post on its website a quarterly report regarding each SIRTA investigation completed during the preceding three month period, ending thirty days prior. The SIRTA program was created by Local Law 49 of 2021 and is detailed in Administrative Code §19-182.3.

As part of these investigations, every location with a traffic fatality or critical injury is visited by both NYC DOT and the New York Police Department (NYPD). NYC DOT reviews site conditions both to identify immediate issues (e.g. downed sign, broken traffic signal, etc.) and to help inform the further investigation. The NYPD Collision Investigation Squad (CIS) investigates to determine any criminal wrongdoing.

NYC DOT also targets its efforts to reduce fatal and severe injury crashes with the [Vision Zero Borough Pedestrian Safety Action Plans](#). These plans pinpoint the conditions and characteristics of pedestrian fatalities and severe injuries; they also identify corridors, intersections, and areas that disproportionately account for pedestrian fatalities and severe injuries, prioritizing them for safety interventions. Finally, these plans recommend a series of actions that intend to alter the physical and behavioral conditions on city streets that lead to pedestrian fatality and injury. These action plans are based on multiple years of data, and help ensure that NYC DOT's street redesign work is proactively addressing the most dangerous locations citywide.

Nothing contained in this report shall be construed to inhibit or interfere with the ability of the New York Police Department to pursue criminal investigations, or as otherwise conflicting with any obligation under the vehicle and traffic law regarding the investigation of vehicle crashes. Furthermore, nothing required to be reported shall be reported in a manner that would reveal the identity of a person or persons involved in a serious vehicular crash.

Per the law, each report shall include, but need not be limited to, the following:

1. The total number of investigations completed
2. All evidence and data collected pursuant to each investigation
3. Determinations as to fault, including any potential criminal wrongdoing
4. Any factors that may have contributed to each crash, or increased or mitigated the severity of each such crash and
5. Whether changes to street design or improvements to infrastructure could reduce the risk of subsequent serious vehicular crashes, at each crash location or other similar locations, and a recommendation as to any such changes or improvements that should be made



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### Summary Data (10/01/2024 – 12/31/2024)

#### 1. Total Number of Investigations Completed

**535 investigations were completed** by the SIRTA program

- 386 locations did not have any significant history of similar crashes. DOT will address specific location concerns (e.g. refurbishment of markings and signage) as needed
- 38 locations have ongoing studies for enhancements or have had recent installation of new safety features (e.g. new Traffic Signal, Speed Reducer, Turn Calming, Leading Pedestrian Interval, Street Improvement Project, etc.)
- 111 completed via in-depth investigation

*Note: some crash investigations are still in process and will be included in future reports once completed.*

#### 2. Crash Location Evidence and Data

All evidence and data collected pursuant to each investigation (579 locations):

- **DOT analyzed 867 serious injuries (via crash analysis, study and project analysis & in-depth investigation by the SIRTA team). This includes:**
  - 60 fatalities
  - 807 severe injuries
- 579 unique crash locations (some locations experienced more than one serious injury)
- DOT identified 0 high crash locations with similar street design or infrastructure to other serious injury locations from the current quarter, which are also investigated as part of this program and included in the numbers in this report

*Note: All crash data below is sourced from MV-104 crash reports stored in NYPD's FORMS database. This data is collected by NYPD. To determine which crashes resulted in "A" injuries (severe injuries) as categorized by New York State Department of Motor Vehicles (NYS DMV), NYC DOT applied the NYS DMV severity formula to the NYPD crash data to the extent the data is available and correct in FORMS. The NYS DMV data with crash severity typically takes more than one year to become available, and is based on applying the same formula to the same NYPD MV-104 crash reports.*



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Borough	Crash Locations %	Crash Locations
Bronx	19	110
Brooklyn	34.7	201
Manhattan	17.1	99
Queens	23.3	135
Staten Island	5.7	33
Citywide	100	579

Travel Mode*	Crash Location %	Crash Locations
Pedestrian	39.6	229
Bicyclist	13.3	77
MVO	44.6	258
Other Motorized	5.7	33
All	100	579

*\*A small number of locations have serious injuries of multiple modes; as a result, the locations broken down by mode may sum to over the total crash locations number.*

Collision Type*	Crash Locations %	Crash Locations
Pedestrian From Straight Vehicle Action	18.1	105
Other**	13.8	80
Pedestrian From Turning Vehicle Action	14.7	85
Side Swipe	6.6	38
Rear End	9.5	55
Right Angle	4.3	25
Bicyclist From Straight Vehicle Action	6.7	39
Head On	4.7	27
Pedestrian From Other Vehicle Action	4.8	28
Non-Mv	3.5	20
Left Turn	4.1	24
Straight	2.4	14
Bicyclist From Turning Vehicle Action	3.3	19
Right Turn	2.6	15
Bicyclist From Other Vehicle Action	1.9	11
Turning	2.1	12
All	100	579

*\*A small number of locations have serious injuries of multiple collision types; as a result, the locations broken down by collision type may sum to over the total crash locations number.*

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*\*\*Collision Type is "Other" if the responding police officer selected "Other" or left this field blank.*



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Roadway Location	Crash Location %	Crash Locations
Intersection	81.2	470
Midblock	8.5	49
Highway	9.2	53
Bridge	1.2	7
Off Street	0	0
All	100	579

Time Period*	Crash Location %	Crash Locations
AM Peak (6AM-10AM)	10.4	60
Midday (10AM – 4PM)	28.2	163
PM Peak (4PM-7PM)	20.9	121
Evening (7-PM-10PM)	17.1	99
Overnight (10PM-6AM)	24.7	143
All	100	579

*\*A small number of locations have serious injuries at multiple time buckets; as a result, the locations broken down by time may sum to over the total crash locations number.*

Traffic Control*	Crash Location %	Crash Locations
Traffic Signal	50.9	295
None	39.7	230
Stop Sign	7.6	44
Other*	1.7	10
All	100	579

*\*A small number of locations have serious injuries ascribed to multiple traffic controls; as a result, the locations broken down by control may sum to over the total crash locations number.*

*\*\*Includes mid-block, intersection, highway and bridge locations*



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The pre-crash actions detailed below are drawn from crashes that involved at least one pedestrian severe injury or fatality.

<b>Pedestrian Action</b>	<b>Pedestrian Victims %</b>	<b>Pedestrian Victims</b>
Crossing With Signal	38.1	119
Other Actions In Roadway	13.5	42
Crossing, No Signal, Or Crosswalk	12.5	39
Crossing Against Signal	7.4	23
Crossing, No Signal, Marked Crosswalk	6.4	20
Not In Roadway	6.1	19
Unknown	5.5	17
Does Not Apply	2.6	8
Emerging From In Front Of/Behind Parked Vehicle	1.3	4
Working In Roadway	1.3	4
pushing/working on car	1	3
Riding/Walking Along Highway With Traffic	1	3
Getting On/Off Vehicle Other Than School Bus	1	3
Playing In Roadway	0.6	2
going to/from stopped school bus	0.3	1



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### 3. Fault Determinations:

Violations may be issued at the time of the crash by the responding NYPD officer. However, NYPD does not issue violations at the time of the crash for every crash. For more information on determinations as to fault, including any potential criminal wrongdoing, please contact [NYPD](#).

Violations Issued by NYPD At Time of Crash*	Vehicles
Other	60
Right of Way/Failure to Yield and Exercise Due Care	46
DWI	16
Unlicensed Operator	12
No Insurance	10
Aggravated Unlicensed Operator	8
No Registration	7

*\* Right of Way/Failure to Yield and Exercise Due Care, DWI, Unlicensed Operator, Aggravated Unlicensed Operator, No Insurance and No Registration represent the top traffic violations written by NYPD at the time of the crash. The Other category contains a wide variety of less common violations, as recorded by NYPD on the crash report.*



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**4. Factors:**

Vehicle Contributing Factors are entered by the responding NYPD officer. Factors are not identified for every crash and there may be multiple factors entered for a single crash.

Vehicle Contributing Factors	Locations %	Locations
Driver Inattention/Distracted	31.8	184
Failure To Yield Right-Of-Way	19.2	111
Unsafe Speed	13.3	77
Traffic Control Disregarded	9.3	54
Pedestrian/Bicyclist/Other Pedestrian Error/Confusion	5.2	30
Following Too Closely	4.8	28
Passing Or Lane Usage Improper	4.5	26
Alcohol Involvement	4.2	24
Turning Improperly	3.8	22
Driver Inexperience	3.3	19
Other (Vehicle)	3.3	19
Unsafe Lane Changing	2.9	17
View Obstructed/Limited	2.1	12
Passing Too Closely	2.1	12
Aggressive Driving/Road Rage	1.7	10
Pavement Slippery	1.4	8
Reaction To Uninvolved Vehicle	1	6
Backing Unsafely	1	6
Fell Asleep	0.7	4
Passenger Distraction	0.7	4
other lighting defects	0.5	3
Outside Car Distraction	0.4	2
Oversized Vehicle	0.4	2
Brakes Defective	0.4	2
Failure To Keep Right	0.4	2
fatigued/drowsy	0.4	2
Lost Consciousness	0.4	2
Obstruction/Debris	0.2	1
Physical Disability	0.2	1
prescription medication	0.2	1
Steering Failure	0.2	1
tire failure/inadequate	0.2	1
Glare	0.2	1
Illness	0.2	1
lane marking improper/inadequate	0.2	1
Drugs (Illegal)	0	0
Pavement Defective	0	0

**Recommendations / Summary:**



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- 111 completed via in-depth investigation

For the 111 completed via in-depth investigations, the following recommendations were made:

- 107 - Transmitted to DOT planning and design units for further evaluation for possible inclusion in future safety projects, no immediate action recommended
- 2 - Recommendation for Safety improvements Approved
  - 1 Turn Calming Treatment
  - 1 Traffic Calming Element Refurbishment
- 2 - Safety Improvements installed
  - 1 Leading Pedestrian Intervals (LPIs)
  - 1 Traffic Calming Element Refurbishment

*Note: Multiple safety improvements may be approved and/or installed at the same location.*

















APPENDIX: Serious Injury Response, Tracking Analysis Program (SIRTA) Quarterly Report - Q4 2024 - NYC Department of Transportation

773	4782966	161424121	12/29/2024	22:10	124	Staten Island	2	1	0	40.60552	-74.18429	WEST SHORE EXPRESSWAY			44066M1077			0	0
774	4782969	100224041	12/31/2024	20:50	041	Bronx	0	1	0			Edgewater road	Garrison avenue			10474		0	0
775	4782970	78824076	12/31/2024	13:17	076	Brooklyn	0	1	0	40.68126	-74.00496	BROOKLYN BATTERY TUNNEL						0	0
776	4783008	129224073	12/29/2024	21:00	073	Brooklyn	0	1	0	40.66003	-73.90439	MOTHER GASTON BLVD				11212		0	0
777	4783016	131124070	12/31/2024	17:40	070	Brooklyn	0	0	1			CATON AVE	FLATBUSH AVE					0	0
778	4783111	130524045	12/28/2024	18:36	045	Bronx	3	1	0	40.87365	-73.80862			870 SHORE RD				0	0
779	4783231	98524014	12/30/2024	16:39	014	Manhattan	0	1	0	40.75631	-73.99395			520 9 AVE				0	0
780	4783386	625019	10/12/2024	14:41	019	Manhattan	0	1	0	40.78605	-73.95175			112 E 96 ST				0	0
781	4783392	157224043	11/22/2024	20:28	043	Bronx	0	1	0	40.83847	-73.86095			99 METROPOLITAN OVAL				0	4
782	4783419	10524046	12/26/2024	21:50	046	Bronx	0	1	0	40.85521	-73.91494	W 179 ST						0	0
783	4783559	103624018	12/16/2024	00:00	018	Manhattan	0	1	0	40.76207	-73.99501		HENNESSY PL			517 W 45 ST		0	0
784	4783566	325018	12/31/2024	17:25	018	Manhattan	0	1	0	40.77224	-73.99387	12 AVE	W 58 ST					0	0
785	4783672	80924005	12/30/2024	19:05	005	Manhattan	0	1	0	40.7171	-73.99890	CANAL ST	MULBERRY ST					0	1
786	4783712	130224070	12/30/2024	02:00	070	Brooklyn	0	1	0	40.6337	-73.96793	CONY ISLAND AVE	NEWARK AVE					0	0
787	4783714	111724069	12/21/2024	04:54	069	Brooklyn	0	1	0	40.64462	-73.90311	GLENWOOD RD	E 96 ST					0	0
788	4783942	164324061	12/30/2024	14:22	061	Brooklyn	0	1	0	40.6102	-73.96044	AVENUE P	E 13 ST					0	2
789	4783983	16242411	12/31/2024	13:00	121	Staten Island	0	1	0	40.57084	-74.16983	RICHMOND AVE	FOREST HILL RD					0	0
790	4784020	70824032	12/13/2024	00:00	032	Manhattan	0	4	0	40.81463	-73.94419	W 134 ST	ADAM CLAYTON POWELL JR BLVD					0	0
791	4784043	84424042	12/28/2024	23:15	042	Bronx	0	1	0	40.82419	-73.91384	MELROSE AVE	E 161 ST					0	3
792	4784107	725036	12/31/2024	01:35	026	Manhattan	0	1	0	40.80116	-73.95965	CATHEDRAL PKWY	MANHATTAN AVE					0	2
793	4784196	172624110	12/29/2024	19:50	110	Queens	0	1	0					88-98 ELMHURST AVE				0	0
794	4784224	141624083	12/28/2024	20:44	083	Brooklyn	0	1	0	40.70285	-73.93353	CENTRAL AVE	FLUSHING AVE					0	0
795	4784464	98424014	12/30/2024	12:44	014	Manhattan	0	1	0	40.75529	-73.99492	W 37 ST	9 AVE					0	4
796	4784505	88324088	12/31/2024	23:10	088	Brooklyn	0	1	0	40.68237	-73.96161	GRAND AVE	FULTON ST					0	0