

NYC COLLISIONS ANALYSIS

Date

1/1/2021

12/31/2022



Vehicle Type

All

Borough

All

Factor

All



Overview

Injuries and Fatalities

Contributing Factors

Report

Collision Count

214K

Injuries

104K

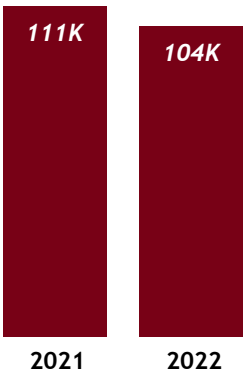
Fatalities

579

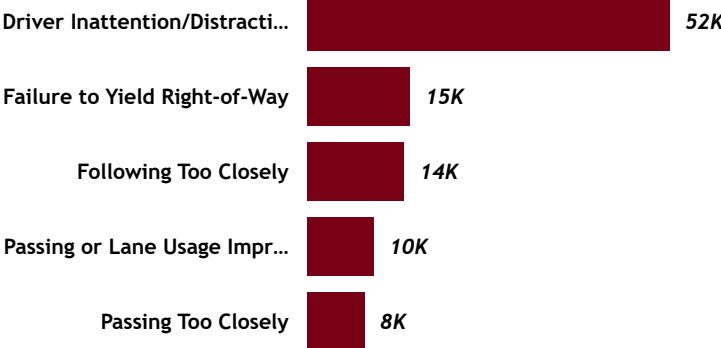
Days

730

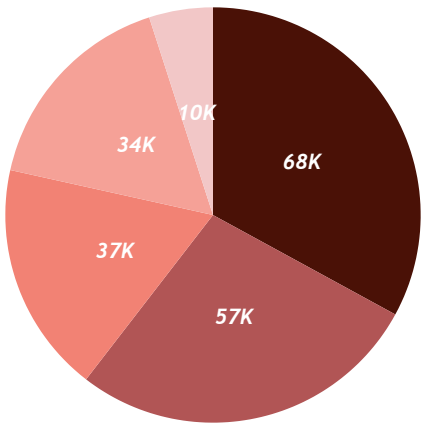
COLLISION COUNT BY YEAR



TOP 5 CONTRIBUTING FACTORS TO COLLISIONS



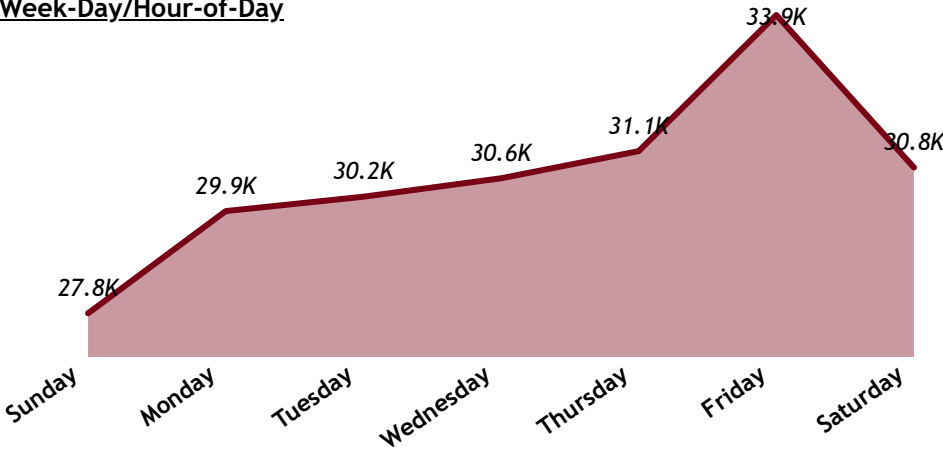
COLLISION COUNT BY BOROUGH



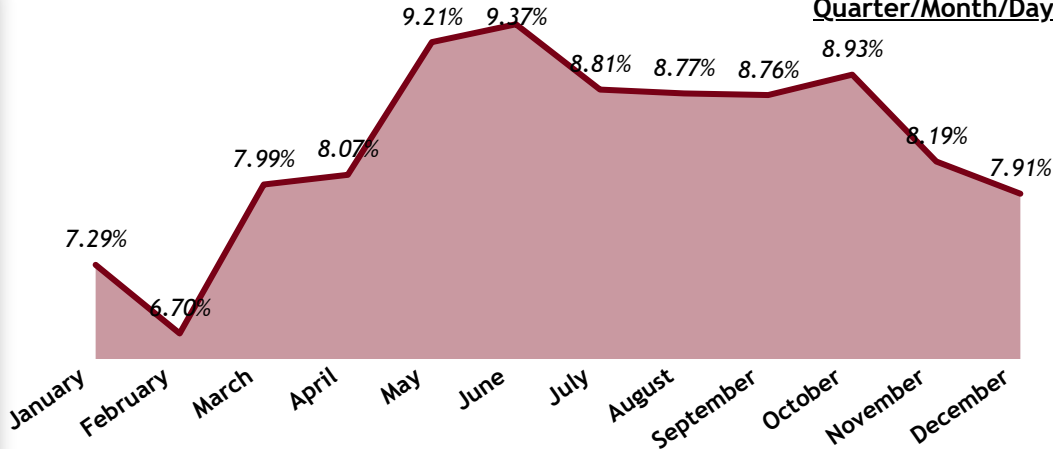
● Brooklyn ● Queens ● Bronx ● Manhattan ● Staten Island

TIME ANALYSIS (DRILL DOWN)

Week-Day/Hour-of-Day



Quarter/Month/Day



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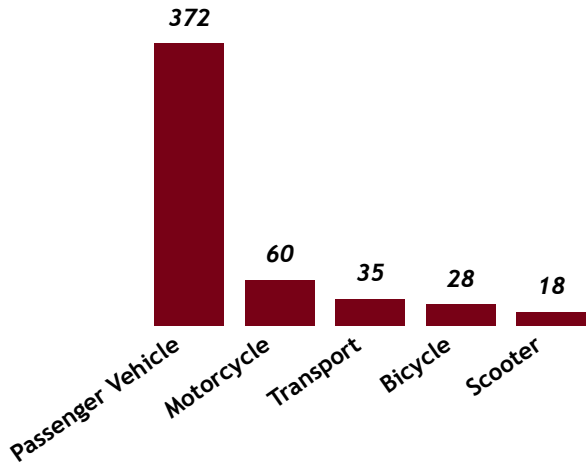
Factor

All

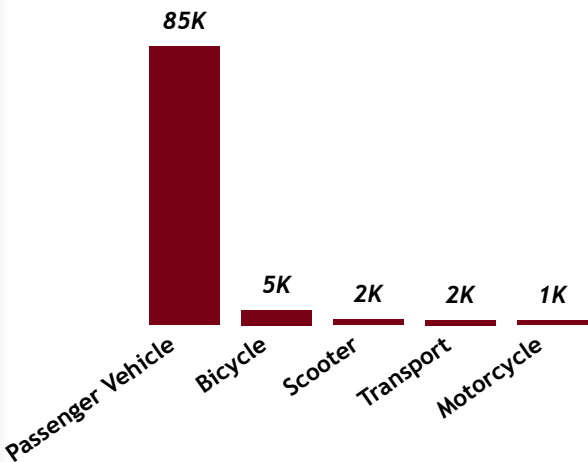


VEHICLE TYPE

Fatalities



Injuries

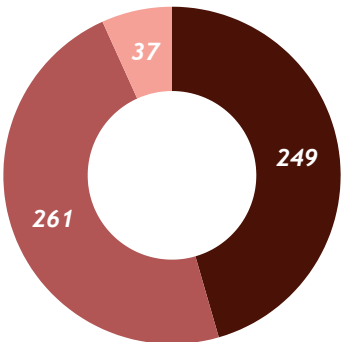


TOP 15 STREETS WITH THE HIGHEST COLLISION COUNT

Belt Parkway	13.17%
Broadway	9.84%
Atlantic Avenue	7.81%
Long Island Expressw...	7.65%
Brooklyn Queens Ex...	7.45%
Fdr Drive	6.70%
3 Avenue	6.10%
Grand Central Pkwy	5.79%
Major Deegan Expres...	5.56%
Cross Island Parkway	5.52%
Flatbush Avenue	5.38%
Linden Boulevard	5.36%
Cross Bronx Expy	4.73%
Bruckner Boulevard	4.58%
Van Wyck Expwy	4.37%

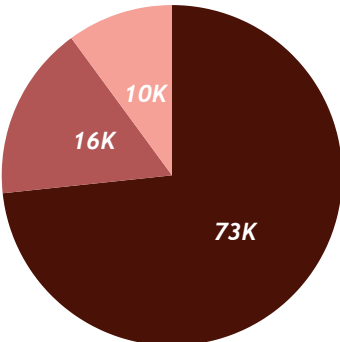
PERSONS INVOLVED

Fatalities



Motorists Pedestrians Cyclists

Injuries



Motorists Pedestrians Cyclists

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Overview

TOTAL COLLISIONS

Driver Inattention/Dist...	52.3K
Failure to Yield Right...	14.8K
Following Too Closely	14.0K
Passing or Lane Usage ...	9.6K
Passing Too Closely	8.3K
Unsafe Speed	7.5K
Backing Unsafely	6.7K
Traffic Control Disrega...	6.0K
Other Vehicular	5.8K
Turning Improperly	4.8K
Unsafe Lane Changing	4.5K
Driver Inexperience	4.1K
Alcohol Involvement	3.5K
Reaction to Uninvolve...	2.9K
Pedestrian/Bicyclist/O...	2.0K
View Obstructed/Limit...	1.9K
Pavement Slippery	1.7K
Aggressive Driving/Roa...	1.6K
Fell Asleep	1.0K
Oversized Vehicle	1.0K
Brakes Defective	0.9K
Passenger Distraction	0.6K
Steering Failure	0.5K
Obstruction/Debris	0.4K
Outside Car Distraction	0.4K
Lost Consciousness	0.4K
Tire Failure/Inadequate	0.4K
Illness	0.4K
Glare	0.4K

Injuries and Fatalities

INJURIES

Driver Inattention/D...	26.3K
Failure to Yield Righ...	11.5K
Following Too Closely	8.2K
Unsafe Speed	5.4K
Traffic Control Disre...	5.1K
Passing or Lane Usa...	3.3K
Other Vehicular	2.6K
Turning Improperly	2.1K
Unsafe Lane Changing	2.1K
Driver Inexperience	2.0K
Alcohol Involvement	1.8K
Pedestrian/Bicyclist...	1.7K
Reaction to Uninvol...	1.6K
Backing Unsafely	1.5K
View Obstructed/Li...	1.1K
Passing Too Closely	1.1K
Pavement Slippery	0.9K
Aggressive Driving/R...	0.9K
Brakes Defective	0.6K
Fell Asleep	0.5K
Lost Consciousness	0.4K
Illness	0.4K
Passenger Distraction	0.3K
Glare	0.2K
Outside Car Distract...	0.2K
Obstruction/Debris	0.2K
Steering Failure	0.2K
Tire Failure/Inadeq...	0.2K
Fatigued/Drowsy	0.2K

Contributing Factors

FATALITIES

Unsafe Speed	135
Driver Inattention/...	64
Failure to Yield Rig...	46
Traffic Control Disr...	29
Pedestrian/Bicyclis...	25
Alcohol Involvement	23
Driver Inexperience	15
Lost Consciousness	14
Aggressive Driving/...	10
Illness	7
Passing or Lane Us...	7
Unsafe Lane Chang...	5
Turning Improperly	4
View Obstructed/Li...	4
Backing Unsafely	3
Pavement Defective	3
Drugs (illegal)	2
Fell Asleep	2
Obstruction/Debris	2
Other Vehicular	2
Oversized Vehicle	2
Physical Disability	2
Animals Action	1
Following Too Clos...	1
Glare	1
Steering Failure	1
Tinted Windows	1
Tire Failure/Inadeq...	1

NYC COLLISIONS ANALYSIS REPORT

Objective

This dashboard is aimed at analyzing and visualizing motor vehicle collisions in New York City to identify patterns, danger zones, and high-impact periods between 01/01/2021 and 12/31/2022.

The dataset contains collisions from 01/01/2021 to 04/09/2023, and because 2023 is not a complete year on the dataset, it was removed for the purpose of this analysis.

Analysis

- 2021 had a slightly higher collision count.
- Brooklyn and Queens had the highest incidents and injuries.
- Top 2 contributing Factors to collisions are "Driver's inattention/distracted", and "Failure to yield right-of-way, while the highest contributor to fatalities is "unsafe speed"
- Peak accident months are May, June and October. May and June are usually attributed to vacation and summer travel periods, hence, causing more vehicles to be on the road.
- High-risk days are typically weekends- Thursday, Friday and Saturday, while the time of day which experiences most collisions are between 1400hrs and 1800hrs, this can be linked to close-of-work.
- Passenger cars are the most driven vehicles.
- Motorists and Pedestrians are usually the casualties.
- Belt Parkway is the most dangerous street in terms of collision count.

Recommendations

- Continuous awareness on the dangers of using a mobile phone while driving (this is the highest cause of driver's inattention)
- Laws governing speed-limits must be enforced and strict punishments meted out to erring drivers.
- More traffic officers to be deployed at rush hours (close-of-work) and weekends.
- Belt Parkway,