

NYC Parking Violation Analysis

By Asaph Wagner

Total Parking Violations

777,530

Total Violating Vehicles

712,955

Earning Percentage

93.98%

Total Revenue

64,449,300

Total Profit

60,566,470

Total Cost

3,882,830

Year		
2015	2016	2017

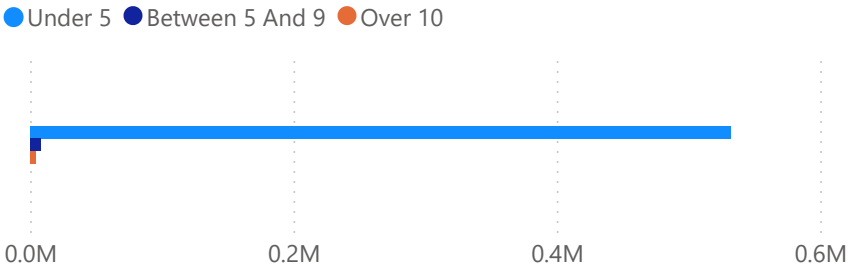
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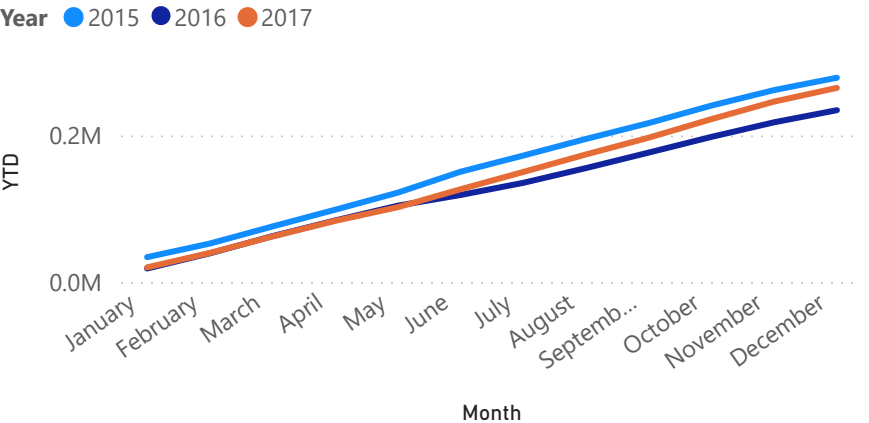
Parking Violations NYC Report - Yearly Change

Year	Violations	Yearly / Monthly Change	
2015	278,548		
January	33,892		
February	18,509	-45.39%	
March	23,347	26.14%	
April	22,830	-2.21%	
May	23,292	2.02%	
June	28,528	22.48%	
July	22,017	-22.82%	
August	22,694	3.07%	
September	21,634	-4.67%	
October	23,844	10.22%	
November	21,150	-11.30%	
December	16,811	-20.52%	
2016	234,282	-15.89%	
January	18,420	9.57%	
February	20,656	12.14%	
March	23,478	13.66%	
April	21,392	-8.88%	
May	20,181	-5.66%	
June	14,551	-27.90%	
July	16,564	13.83%	
August	20,118	21.46%	
September	21,122	4.99%	
October	21,417	1.40%	
November	19,899	-7.09%	
December	16,484	-17.16%	
2017	264,700	12.98%	
January	19,912	20.80%	
February	19,713	-1.00%	
March	22,420	13.73%	
April	21,364	-4.71%	
Total	777,530		

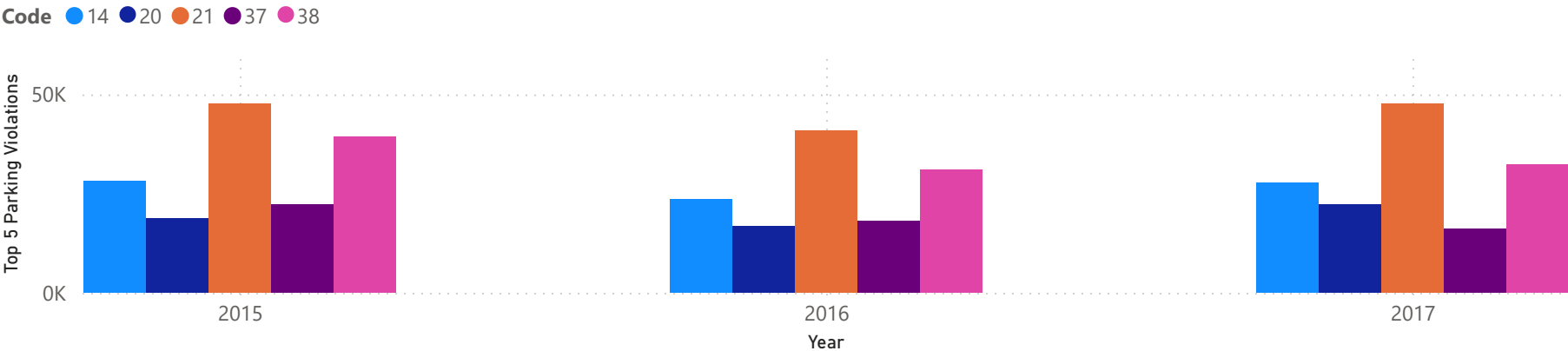
Vehicles by Number of Violations



Parking Violations YTD every Year



Top 5 Parking Violations over the Years

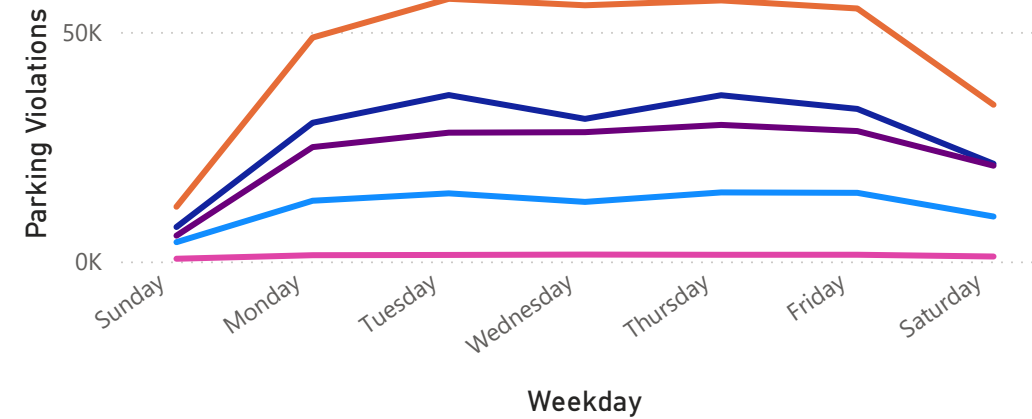


Violation	2015	2016	2017	Total
(38) Muni Meter - Failing to show a receipt or tag in the windshield	39,205	30,967	32,317	102,489
(37) Muni Meter - Parking in excess of the allowed time	22,123	18,139	16,165	56,427
(21) Street Cleaning: No parking where parking is not allowed.	47,526	40,865	47,554	135,945
(20) General No Parking: No parking where parking is not allowed.	18,743	16,791	22,285	57,819
(14) General No Standing: Standing where standing is not allowed.	28,038	23,543	27,609	79,190
Total	155,635	130,305	145,930	431,870

Parking Violations NYC Report - Boroughs

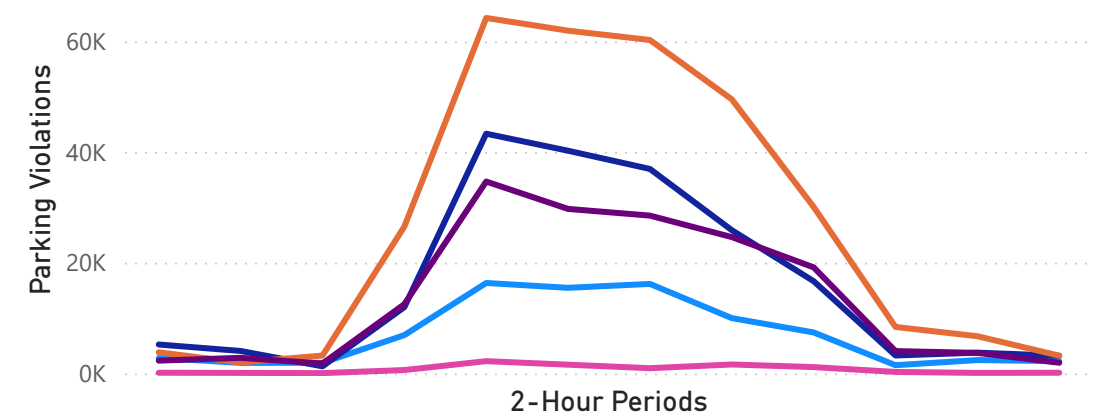
Parking Violations by Weekday and Borough

Borough ● Bronx ● Brooklyn ● Manhattan ● Queens ● Staten Island



Parking Violations by 2-Hour Periods and Borough

Borough ● Bronx ● Brooklyn ● Manhattan ● Queens ● Staten Island



Parking Violations NYC Report - Vehicles & States

Top Violating Vehicle by Body Type

Body Type	Top Parking Violation	Average Fine	Profit	Percentage
SUBURBAN	251,813	78.87	18,591,020	93.66%

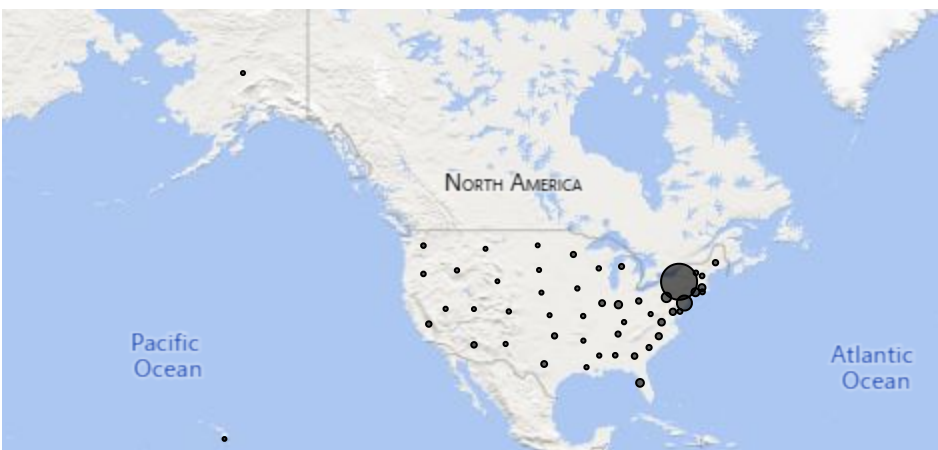
Violating Vehicles by Body Type

Body Type	Parking Violations	Average Fine	Profit	Percentage
SUBURBAN	251,813	78.87	18,591,020	31.05%
FOUR-DOOR SEDAN	207,614	77.75	15,103,190	25.25%
VAN TRUCK	125,127	87.11	10,269,715	17.05%
DELIVERY TRUCK	66,591	100.49	6,352,915	10.46%
SEDAN	32,590	87.92	2,688,810	4.46%
PICK-UP TRUCK	22,721	82.65	1,763,295	2.94%
TWO-DOOR SEDAN	20,224	76.50	1,445,875	2.42%
REFRIGERATOR TRAILER	8,049	97.83	747,005	1.23%
TRACTOR	6,570	99.21	618,580	1.02%
UTILITY	5,299	91.55	458,625	0.76%
TAXI	4,597	88.74	383,715	0.64%
BUS	3,713	91.25	281,615	0.47%
TRAILER	3,523	79.02	260,390	0.43%
CONVERTIBLE	3,186	75.95	225,915	0.38%
TRUCK	2,243	99.37	211,675	0.35%
MOTORCYCLE	2,150	78.77	158,385	0.26%
FLAT BED TRUCK	1,169	97.70	108,370	0.18%
DUMP TRUCK	859	94.62	76,890	0.13%
TRACTOR CRANE	842	95.44	76,150	0.13%
TRUCK CRANE	720	94.85	64,695	0.11%
Total	771,817	82.92	60,064,040	100.00%

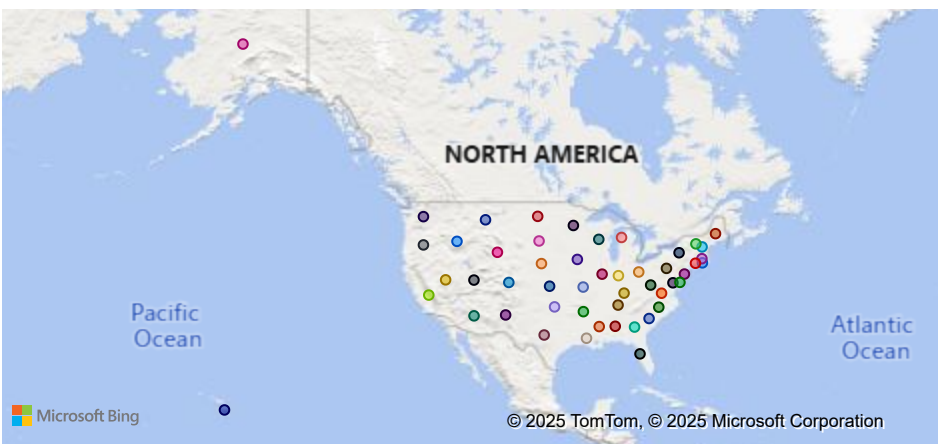
Violations by State

State	Vehicles	Violations	Vehicles Percentage	Violations Percentage
New York	409,332	597,706	75.54%	77.39%
New Jersey	51,824	74,166	9.56%	9.60%
Pennsylvania	16,379	19,328	3.02%	2.50%
Connecticut	9,444	10,955	1.74%	1.42%
Total	541,877	772,319	100.00%	100.00%

Violations by State



Violation Growth 2015-2017 by State



Violating Vehicles by Color

Color	Vehicles	Percentage
WHITE	168,822	34.98%
BLACK	66,504	13.78%
BLUE	62,963	13.05%
GREY	59,854	12.40%
RED	43,353	8.98%
SILVER	28,443	5.89%
TAN	14,400	2.98%
BROWN	10,004	2.07%
GREEN	8,548	1.77%
GOLD	8,372	1.73%
YELLOW	8,330	1.73%
ORANGE	1,690	0.35%
PURPLE	968	0.20%
BEIGE	192	0.04%
MAROON	149	0.03%
PINK	23	0.00%
MULTI	20	0.00%
BRONZE	5	0.00%
Total	482,640	100.00%

Parking Violations NYC Report - Delivery Trucks in Manhattan

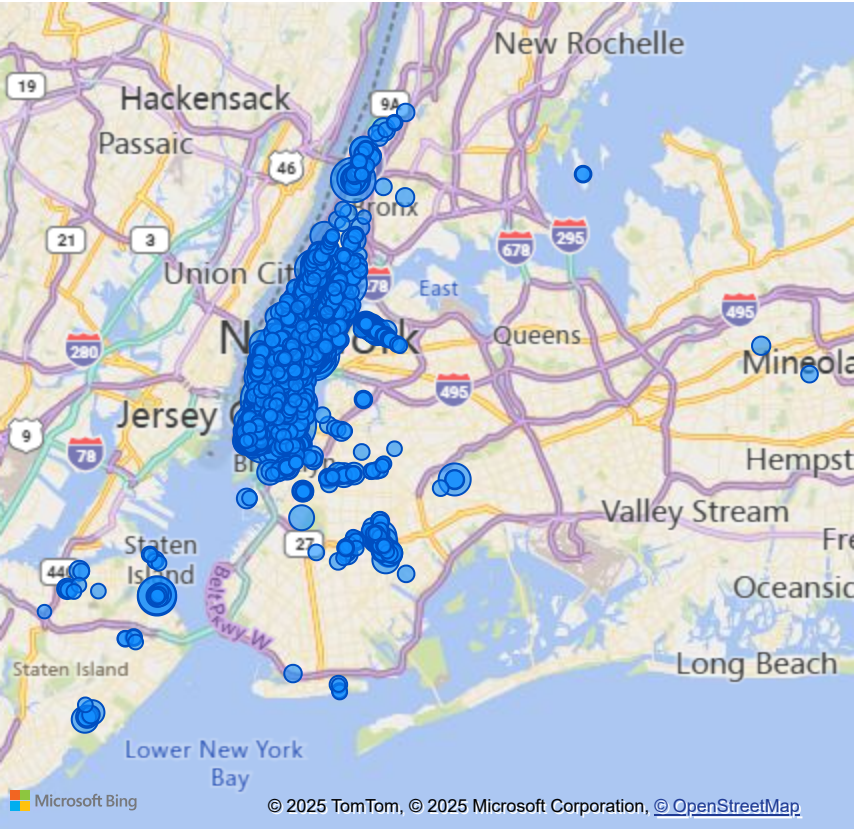
Average Fine

100.98

Top 10 Streets by Violations

Street	Violations
BROADWAY	2,878
3 AVENUE	2,706
8 AVENUE	1,806
2 AVENUE	1,758
1 AVENUE	1,559
LEXINGTON AVENUE	1,552
MADISON AVENUE	1,497
AVENUE OF THE AMERIC	1,364
7 AVENUE	1,337
9 AVENUE	934
Total	17,391

Violations by Address



AM/PM

AM
PM

Part of Day

Early Morning	Evening
Late Morning	Night
Afternoon	Before Dawn

Parking Violations NYC Report - Profits

Agencies by Revenue, Profit, & Earning % over the Years

Agency	Revenue	Profit	Earning Percentage
⊕ TRAFFIC	45,945,815	43,140,180	93.89%
⊕ POLICE DEPARTMENT	4,973,455	4,731,705	95.14%
⊕ DEPARTMENT OF SANITATION	1,234,185	1,140,990	92.45%
⊕ OTHER/UNKNOWN AGENCIES	204,760	193,555	94.53%
⊕ PARKS DEPARTMENT	38,620	36,425	94.32%
⊕ FIRE DEPARTMENT	3,945	3,760	95.31%
⊕ HOUSING AUTHORITY	2,730	2,570	94.14%
⊕ NYC TRANSIT AUTHORITY MANAGERS	1,950	1,810	92.82%
⊕ TRANSIT AUTHORITY	1,425	1,350	94.74%
⊕ DEPARTMENT OF BUSINESS SERVICES	1,240	1,160	93.55%
⊕ CON RAIL	975	910	93.33%
⊕ BOARD OF ESTIMATE	960	910	94.79%
⊕ TRIBOROUGH BRIDGE AND TUNNEL POLICE	585	550	94.02%
⊕ NYS COURT OFFICERS	400	380	95.00%
⊕ PORT AUTHORITY	375	350	93.33%
⊕ PARKING CONTROL UNIT	225	210	93.33%
⊕ NYS PARKS POLICE	195	180	92.31%
⊕ TAXI AND LIMOUSINE COMMISSION	115	110	95.65%
Total	52,411,955	49,257,105	93.98%

Borough by Revenue, Profit, & Earning %

Borough	Revenue	Profit	Earning Percentage
Manhattan	28,564,180	26,968,415	94.41%
Brooklyn	15,306,200	14,328,975	93.62%
Queens	12,752,560	11,924,765	93.51%
Bronx	6,869,385	6,445,570	93.83%
Staten Island	664,530	621,205	93.48%
Total	64,156,855	60,288,930	93.97%

Top 5 Violations by Revenue, Profit, & Earning %

Violation	Revenue	Profit	Earning Percentage
(14) General No Standing: Standing where standing is not allowed.	9,106,850	8,710,900	95.65%
(21) Street Cleaning: No parking where parking is not allowed.	8,836,425	8,156,700	92.31%
(38) Muni Meter - Failing to show a receipt or tag in the windshield	6,661,785	6,149,340	92.31%
(46) "double parking".	5,909,160	5,652,240	95.65%
(40) Stopping, Standing closer than 15 feet of a fire hydrant.	4,940,630	4,725,820	95.65%
Total	35,454,850	33,395,000	94.19%

Parking Violations NYC Report - Conclusions

Most Common Violations

Parking excess time violations and showing no parking tag is down, meaning people prefer not to use the Muni Meter services. People would park at illegal times for street cleaning and of illicit spaces, even keeping their cars standing to avoid it. We need to see what was done right in 2016 to make people park legally again, as there was a drop in all top 5 violations that year compared to the year before and after.

Violations by Borough

There are fewer parking violations over the weekend than during the week, and a slight drop midweek. People use their cars more during the week for work and related errands, hence causing more violations. All boroughs follow the pattern but at different volumes, with a higher peak for more populated boroughs.

When we break it down to violations every 2 hours, we see that most violations are during work hours. All boroughs follow the same pattern but with sharper spikes and drops for the more populated ones.

Colors

White is a dominant color, with black, blue, and gray being about a third of it.

Recommendations

1. Most violations are done by NY citizens, making the focus clear on them. However, we have no data about the number of cars of a certain state, color, or body type, just the ones with parking violations, so it's impossible to make a strong correlation between them.
2. Most violations are done by suburban vehicles, meaning private car owners.
3. Because Manhattan is the most populated borough, most violations are from there. It's best to focus on parking in places that are illegal to park or stop at or parking at legal stops without paying for the service.
4. There was a dip in 2016 compared to 2015, but a slow fix in 2017, but not as high as 2017. It shows that the locals are adept at stopping using their vehicles while others have fines as part of the costs of owning a vehicle.