

Graffiti Data Analysis

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Inquiries about the Graffiti Data

- **What is the Average clean up time per borough?**
- **What is the largest problem area in each borough by precinct (MAP)**
- **Which precincts have the most reported incidents (Top 10)**
- **Seasonal Analysis – NYPD Awareness**
- **Who would consider this data useful?**

Original Data Set

	A	B	C	D	E	F	G	H	I	J	K	L
	INCIDENT ADDRESS	BOROUGH	COMMUNITY BOARD	POLICE PRECINCT	CITY COUNCIL DISTRICT	DBL	CREATED DATE	STATUS	RESOLUTION ACTION	CLOSED DATE	COORDINATE	LATITUDE
1	300 SOUNDVIEW AVENUE	BROOKLYN	09 BROOKLYN	Precinct 43	18	26-09	2/27/2015	Closed	Cleaning crew dispatched. No graffiti on property.	5/18/2015	100049	
2	6208 11 AVENUE	BROOKLYN	10 BROOKLYN	Precinct 68	38	3-1E-09	12/12/2014	Closed	Cleaning crew dispatched. No graffiti on property.	4/3/2015	983066	168895
3	404 MOSEL AVENUE	STATEN ISLAND	01 STATEN ISLAND	Precinct 122	30	3E-09	4/12/2015	Closed	Cleaning crew dispatched. Property cleaned.	5/12/2015	909084	159834
4	488 MORGAN AVENUE	BROOKLYN	03 BROOKLYN	Precinct 94	34	3E-09	12/3/2014	Closed	Cleaning crew dispatched. Property cleaned.	5/1/2015	1001416	201864
5	1675 EAST NEW YORK AVENUE	BROOKLYN	16 BROOKLYN	Precinct 73	37	3E-09	3/19/2015	Closed	Cleaning crew dispatched. Property cleaned.	6/5/2015	1002002	184924
6	17-55 91 STREET	QUEENS	01 QUEENS	Precinct 115	21	4E-09	7/13/2015	Closed	Cleaning crew dispatched. Property cleaned.	10/28/2015	1018701	121231
7	43-22 50 STREET	QUEENS	02 QUEENS	Precinct 108	26	4E-09	2/24/2015	Closed	Cleaning crew dispatched. Owner refused.	10/26/2015	1007884	210400
8	6817 5 AVENUE	BROOKLYN	10 BROOKLYN	Precinct 68	43	3-1E-09	8/14/2015	Closed	Cleaning crew dispatched. Property cleaned.	10/9/2015	978480	170254
9	144 UNDERHILL AVENUE	BROOKLYN	09 BROOKLYN	Precinct 43	18	2E-09	9/18/2015	Closed	Cleaning crew dispatched. Property cleaned.	10/8/2015	1019372	205214
10	983 FLATBUSH AVENUE	BROOKLYN	14 BROOKLYN	Precinct 70	40	3-1E-09	8/20/2015	Closed	Cleaning crew dispatched. Property cleaned.	10/8/2015	995871	175097
11	128 EAST 33 STREET	MANHATTAN	09 MANHATTAN	Unspecified	2	1E-09	7/7/2015	Closed	Cleaning crew dispatched. Property cleaned.	9/22/2015	989506	215797
12	16 SROEDER AVENUE	BROOKLYN	05 BROOKLYN	Precinct 19	17	3E-09	6/24/2015	Closed	Cleaning crew dispatched. Owner refused.	9/22/2015	1011193	181083
13	1620 SHEEPHEAD BAY ROAD	BROOKLYN	15 BROOKLYN	Precinct 61	48	3-1E-09	6/23/2015	Closed	Cleaning crew dispatched. No graffiti on property.	9/9/2015	997416	153075
14	17 BEADLE STREET	BROOKLYN	01 BROOKLYN	Precinct 94	34	3E-09	7/7/2015	Closed	Cleaning crew dispatched. No graffiti on property.	8/24/2015	1000825	201862
15	3613 EAST 16 STREET	BROOKLYN	15 BROOKLYN	Precinct 61	48	3-1E-09	7/1/2015	Closed	Cleaning crew dispatched. Property cleaned.	8/20/2015	997206	155412
16	544 39 STREET	BROOKLYN	07 BROOKLYN	Precinct 72	38	3E-09	6/24/2015	Closed	Cleaning crew dispatched. Property cleaned.	8/20/2015	983447	176323
17	83-11 QUEENS BOULEVARD	QUEENS	04 QUEENS	Precinct 110	25	4E-09	5/6/2015	Closed	Cleaning crew dispatched. No graffiti on property.	8/26/2015	1011587	207890
18	178 BOWERY	MANHATTAN	03 MANHATTAN	Precinct 5	1	1E-09	7/7/2015	Closed	Cleaning crew dispatched. Property cleaned.	8/28/2015	995921	201762
19	1966 9 AVENUE	MANHATTAN	11 MANHATTAN	Precinct 23	8	1E-09	6/12/2015	Closed	Cleaning crew dispatched. Property cleaned.	8/14/2015	999849	228182
20	19-28 QUEENS BOULEVARD	QUEENS	06 QUEENS	Precinct 112	29	4E-09	7/16/2015	Closed	Cleaning crew dispatched. No graffiti on property.	8/24/2015	1012867	204617
21	127-15 22 AVENUE	QUEENS	07 QUEENS	Precinct 109	19	4E-09	6/24/2015	Closed	Cleaning crew dispatched. Property cleaned.	8/15/2015	1012829	225551
22	2507 BROADWAY	MANHATTAN	07 MANHATTAN	Precinct 24	6	1E-09	6/17/2015	Closed	Cleaning crew dispatched. Property cleaned.	8/7/2015	991725	228188
23	295 AVENUE D	BROOKLYN	13 BROOKLYN	Precinct 46	44	3-1E-09	4/16/2015	Closed	Cleaning crew dispatched. No graffiti on property.	8/4/2015	991712	162059
24	202 EAST 4 STREET	MANHATTAN	03 MANHATTAN	Precinct 9	2	1E-09	5/19/2015	Closed	Cleaning crew dispatched. Cannot locate property.	7/27/2015	988651	203032
25	224 KNICKERBOCKER AVENUE	BROOKLYN	04 BROOKLYN	Precinct 83	34	3E-09	4/21/2015	Closed	Cleaning crew dispatched. Property cleaned.	7/24/2015	1004798	195438
26	14 NEW LOTI AVENUE	BROOKLYN	16 BROOKLYN	Precinct 75	42	3E-09	5/30/2015	Closed	Cleaning crew dispatched. Property cleaned.	7/24/2015	1011111	178775
27	73 EMPIRE BOULEVARD	BROOKLYN	09 BROOKLYN	Precinct 71	35	3E-09	2/13/2015	Closed	Cleaning crew dispatched. Property cleaned.	7/22/2015	995525	180971
28	163 DUPONT STREET	BROOKLYN	01 BROOKLYN	Precinct 94	33	3E-09	12/3/2014	Closed	Cleaning crew dispatched. Property cleaned.	7/20/2015	997136	201438
29	18 ALLEN STREET	MANHATTAN	03 MANHATTAN	Precinct 7	1	1E-09	2/12/2015	Closed	Cleaning crew dispatched. Property cleaned.	7/9/2015	986378	199908
30	17-33 31 STREET	QUEENS	01 QUEENS	Precinct 114	26	4E-09	3/11/2015	Closed	Cleaning crew dispatched. Cannot locate property.	7/7/2015	1003252	214176

Analytic Tools & Data Source

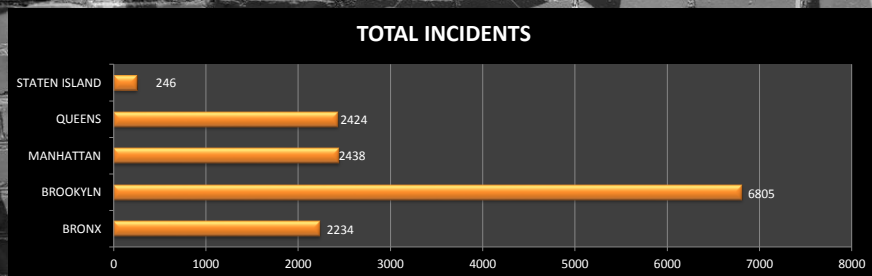
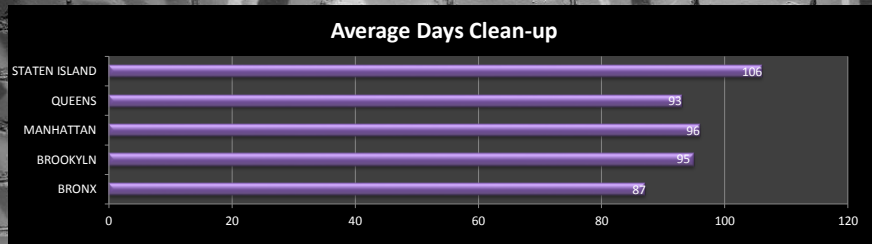
Tools:

- R Studio – Analytics & Cleaning Data
- Tableau – Visual Effects & Mapping
- Excel – Cleaning & Filtering data

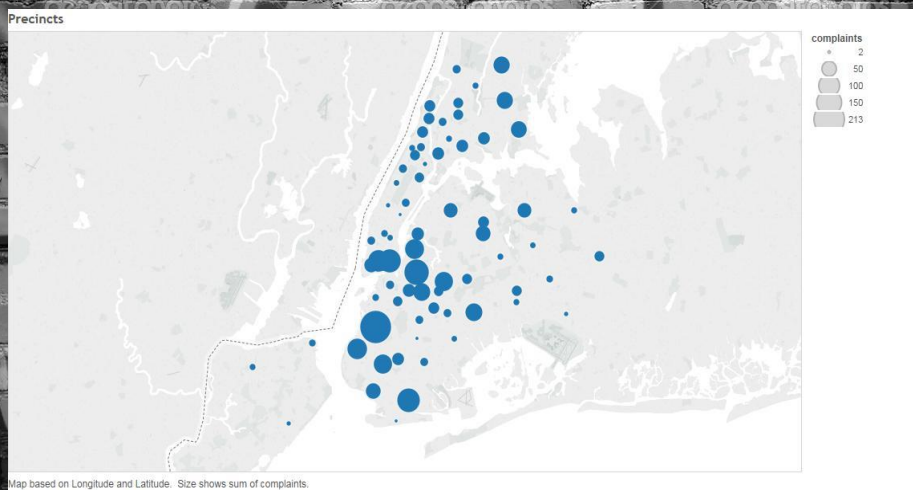
Data Source:

- NYC Open Data

Graffiti Borough Analysis

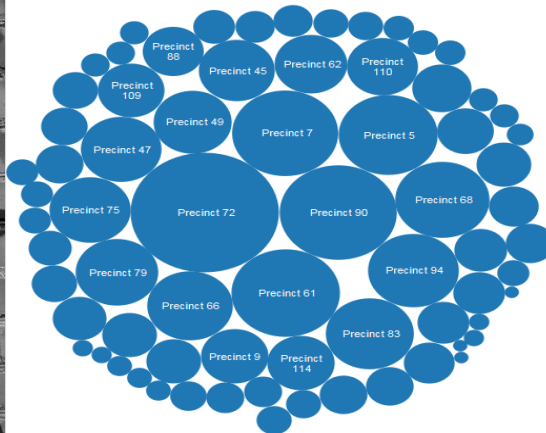


Problem Areas by Borough



Highest Incident Occurrences by Precinct

Highest Complaints (Precinct)



Precinct. Size shows sum of complaints. The marks are labeled by Precinct. The view is filtered on Precinct, which excludes Unspecified.

Highest Complaints (Precinct)

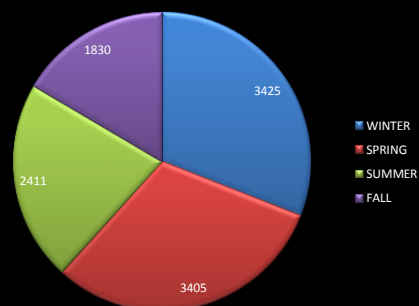
Precinct	
Precinct 72	213
Precinct 90	133
Precinct 61	114
Precinct 7	109
Precinct 5	95
Precinct 68	86
Precinct 94	80
Precinct 83	75
Precinct 66	71
Precinct 79	66

Sum of complaints broken down by Precinct. Color shows sum of complaints. The marks are labeled by sum of complaints. The view is filtered on Precinct, which

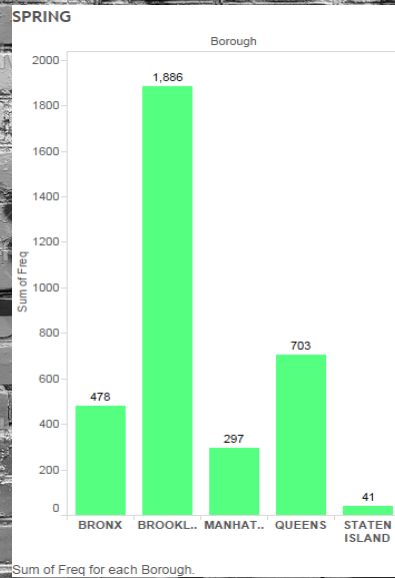
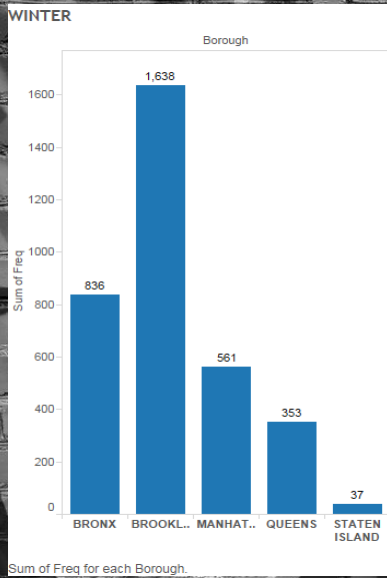
Seasonal Analysis/NYPD Awareness

- **The Winter & Spring months had more incidents occurring over this one year span**
- **This analysis shows that in 2016 the Citywide Vandals Taskforce should be more alert during the Winter & Spring months**
- **The NYPD, more specifically the Citywide Vandals Taskforce could find this information very useful**

Incidents over 1 YR Span (Nov. 2014 - Nov. 2015)



SEASONAL ANALYSIS



SEASONAL ANALYSIS

