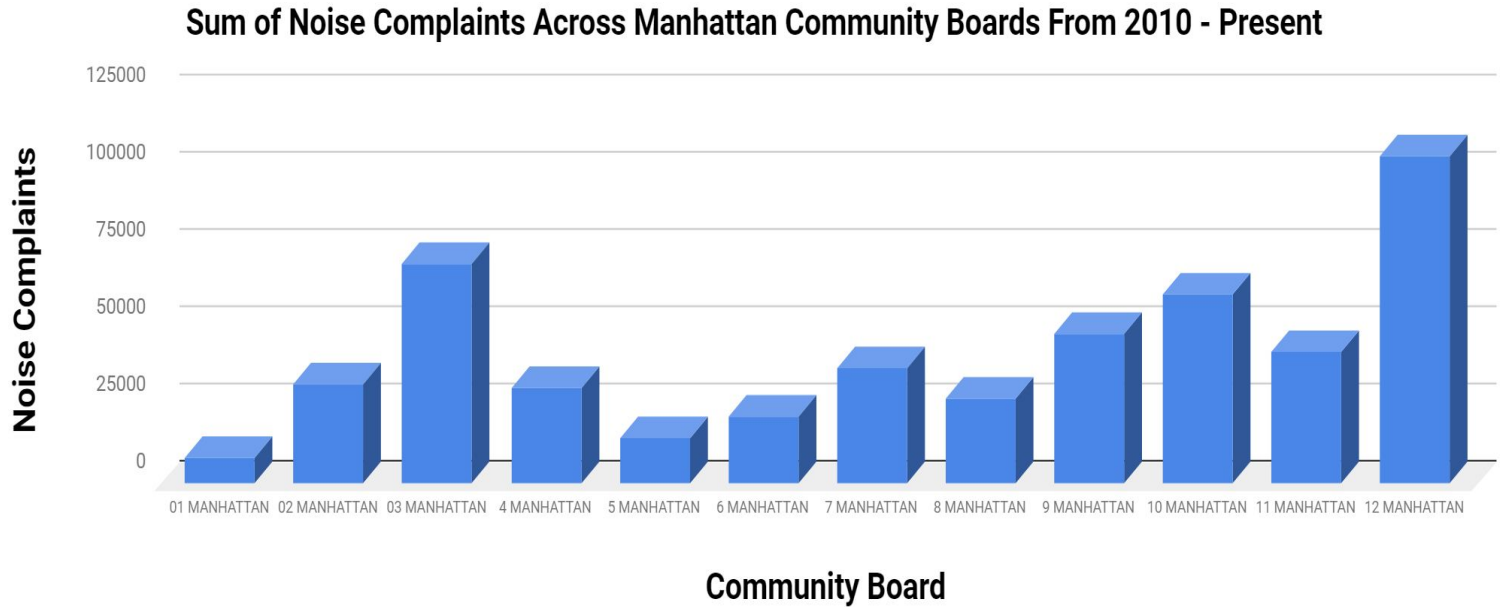


Noise Issues Throughout Community Board 12

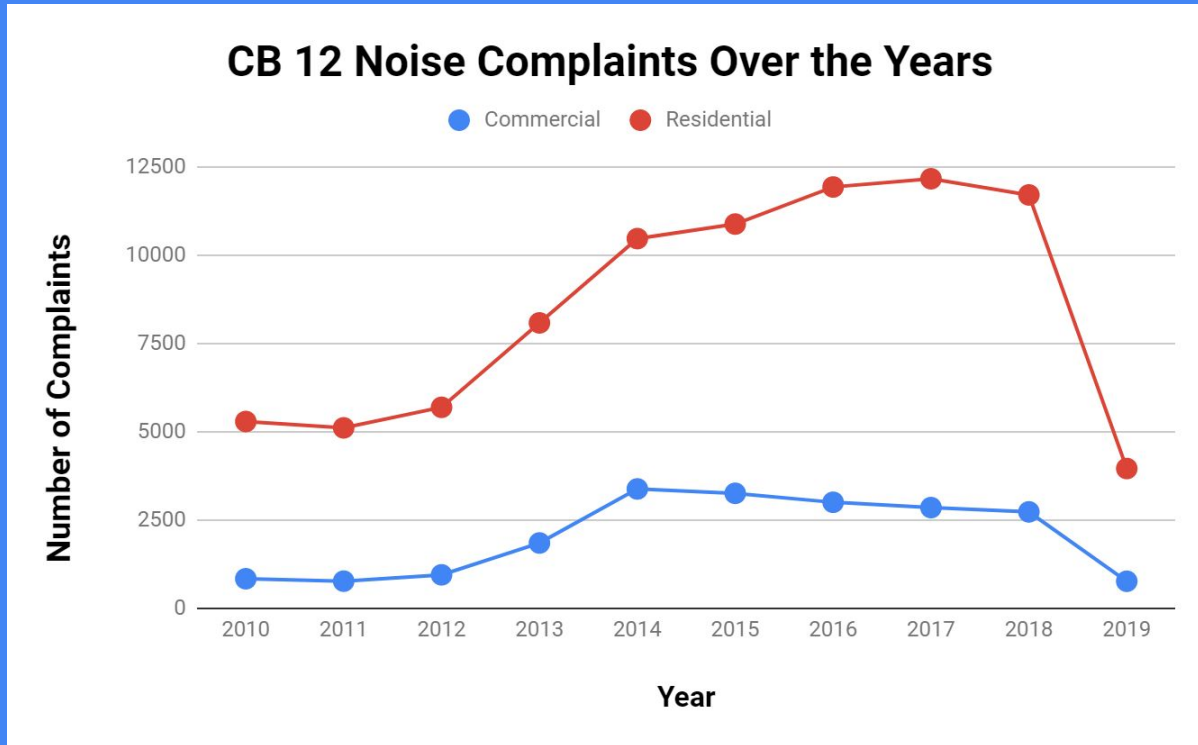
Civic Innovation Fellowship
April 1, 2019



Residential and Commercial Noise Complaints (2010 - Present)



Residential and Commercial Complaints Timeline (2010 - Present)



Commercial vs. Residential Noise Complaints (2010 - Present)

Community Board	Noise - Commercial	Noise - Residential	Total
01 MANHATTAN	3,368	4,639	8,007
02 MANHATTAN	17,461	14,521	31,982
03 MANHATTAN	26,618	44,353	70,971
04 MANHATTAN	12,297	18,729	31,026
05 MANHATTAN	9,308	5,316	14,624
06 MANHATTAN	7,315	14,411	21,726
07 MANHATTAN	6,382	30,581	36,963
08 MANHATTAN	9,186	18,334	27,520
09 MANHATTAN	6,279	42,118	48,397
10 MANHATTAN	6,435	54,597	61,032
11 MANHATTAN	6,612	35,903	42,515
<u>12 MANHATTAN</u>	20,363	85,312	105,675

Commercial vs. Residential Noise Complaints (2015 - Present)

Community Board	Noise - Commercial	Noise - Residential	Total
01 MANHATTAN	2348	2708	5056
02 MANHATTAN	9092	8088	17180
03 MANHATTAN	15,497	25,908	41405
04 MANHATTAN	6,593	10,229	16822
05 MANHATTAN	5454	2979	8433
06 MANHATTAN	4351	8433	12784
07 MANHATTAN	3754	15879	19633
08 MANHATTAN	5756	9844	15600
09 MANHATTAN	3,976	23,649	27625
10 MANHATTAN	4,218	29,374	33592
11 MANHATTAN	4017	20169	24186
12 MANHATTAN	12368	49724	62092

All Noise Complaints from 2015 - Present

*All Noise Complaints refers to the complaint types in 311 data which contains the word "noise"

Community Board	All Noise Complaints
01 MANHATTAN	8517
02 MANHATTAN	26227
03 MANHATTAN	53392
04 MANHATTAN	22761
05 MANHATTAN	17218
06 MANHATTAN	18352
07 MANHATTAN	29743
08 MANHATTAN	20991
09 MANHATTAN	43513
10 MANHATTAN	53833
11 MANHATTAN	33605
12 MANHATTAN	106096

Other Types of Noise Complaints

Noise

Noise - Commercial

Noise - Helicopter

Noise - House of Worship

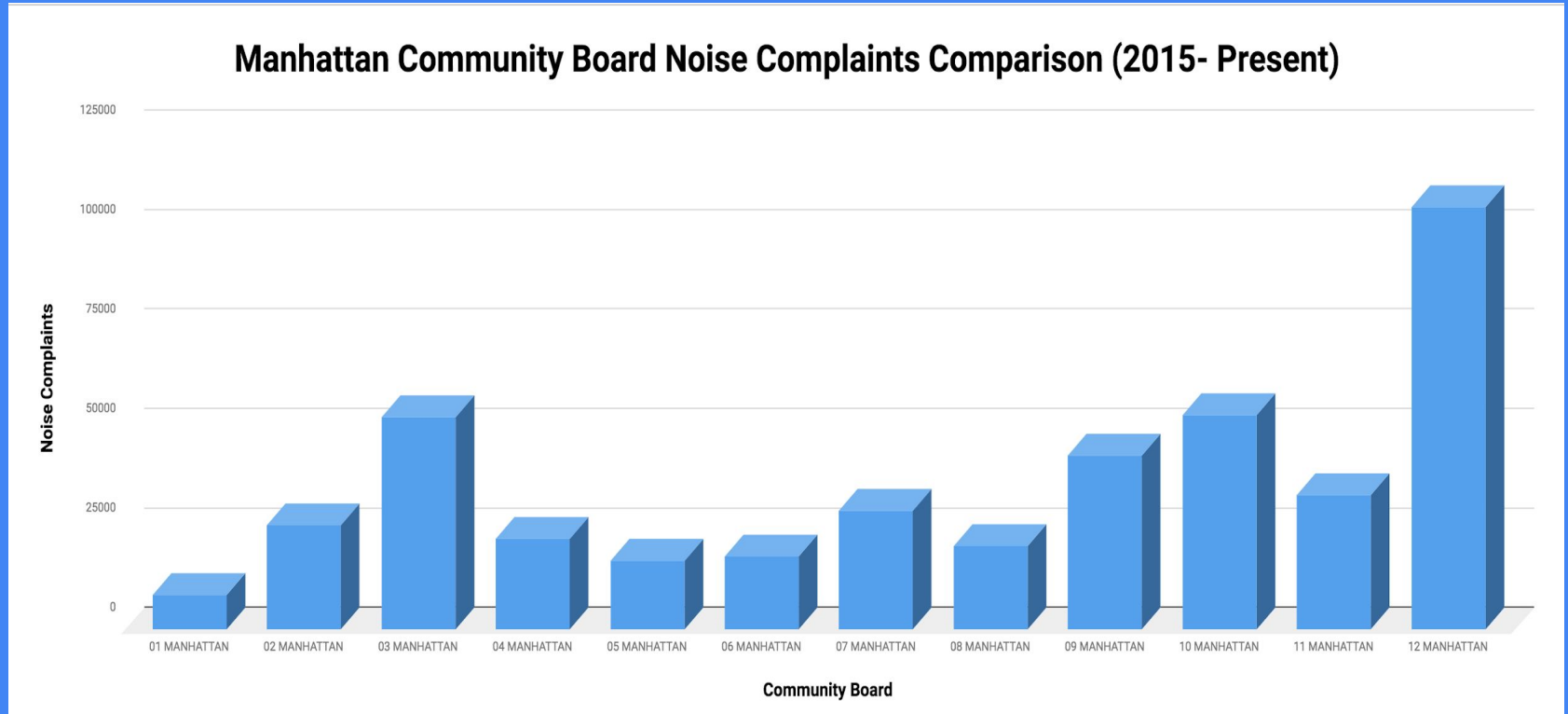
Noise - Park

Noise - Residential

Noise - Street/Sidewalk

Noise - Vehicle

ALL Noise Complaints Across Community Boards in Manhattan (2015 - Present)

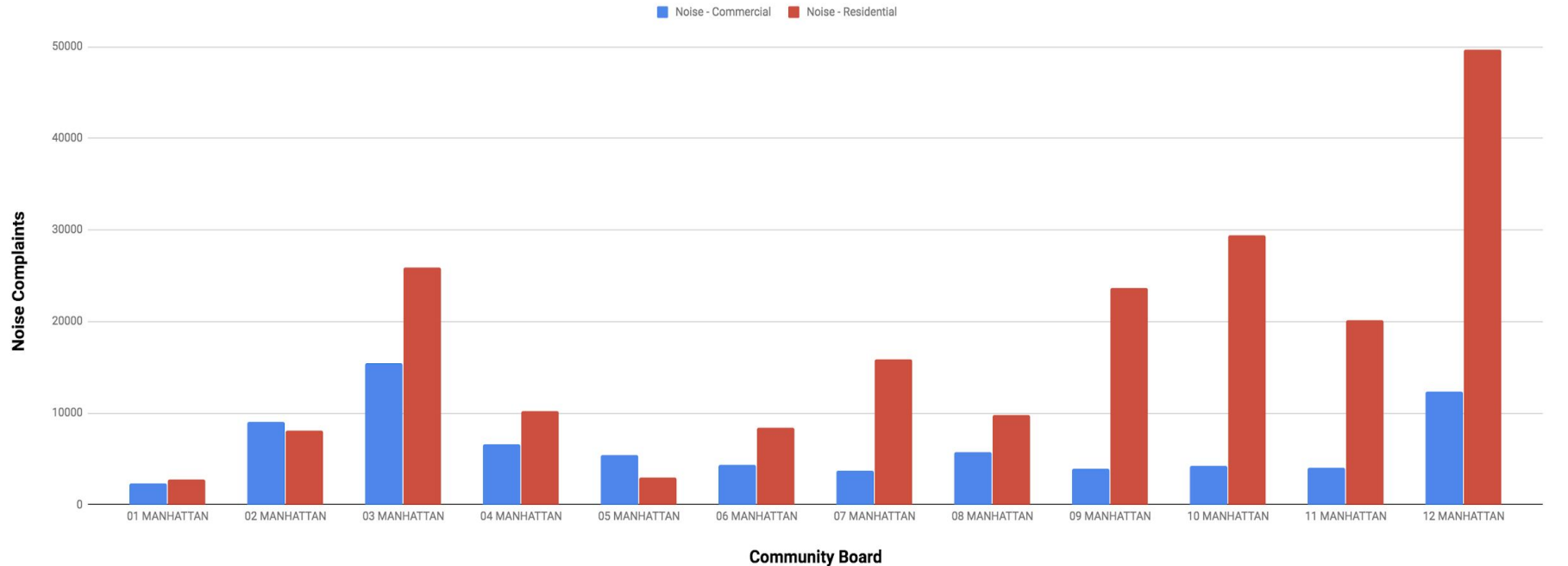


**Normalized
Data Based on
Population
(2015 - Present):
(i.e complaints
per capita)**

Community Board	Population	All Noise Complaints	Normalized Complaints
01 MANHATTAN	61,000	8,517	0.1396229508
02 MANHATTAN	90,000	26,227	0.2914111111
03 MANHATTAN	163,300	53,392	0.3269565217
04 MANHATTAN	103,200	22,761	0.2205523256
05 MANHATTAN	51,700	17,218	0.3330367505
06 MANHATTAN	142,700	18,352	0.128605466
07 MANHATTAN	209,100	29,743	0.142242946
08 MANHATTAN	219,900	20,991	0.09545702592
09 MANHATTAN	110,200	43,513	0.3948548094
10 MANHATTAN	115,700	53,833	0.4652808989
11 MANHATTAN	142,700	33,605	0.2354940434
12 MANHATTAN	190,000	106,096	0.5584

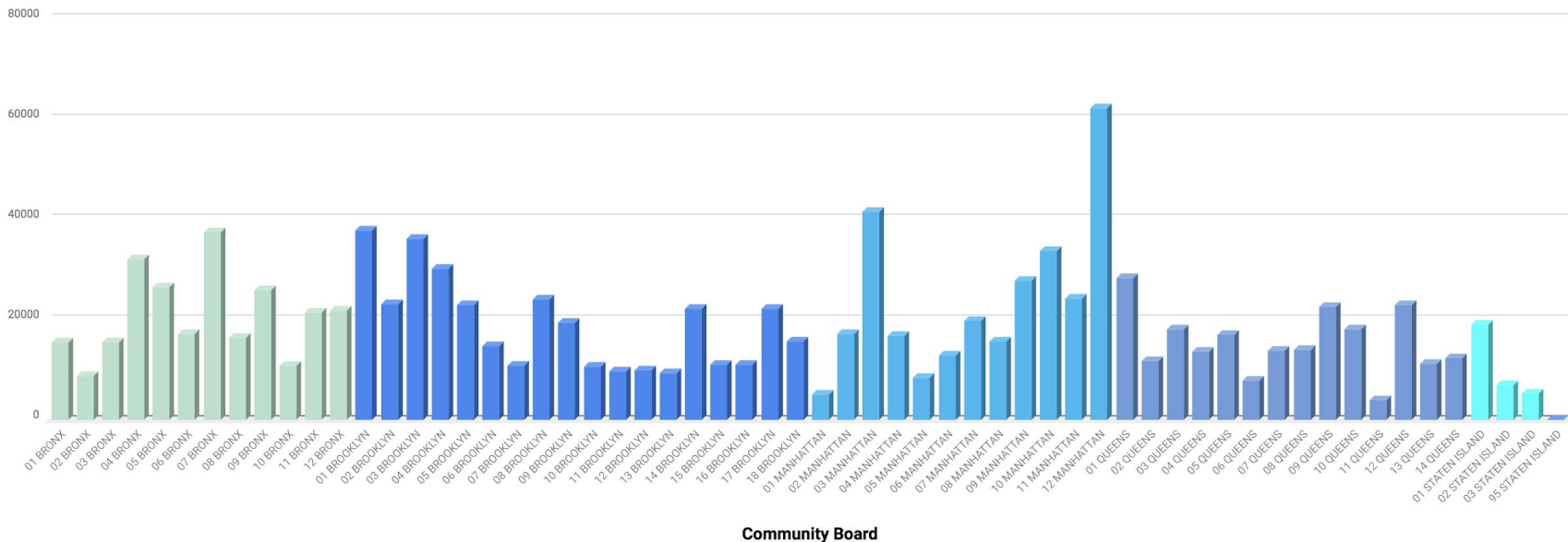
Commercial vs. Residential Noise Comparison (2015 - Present)

Commercial/Residential Noise Complaints

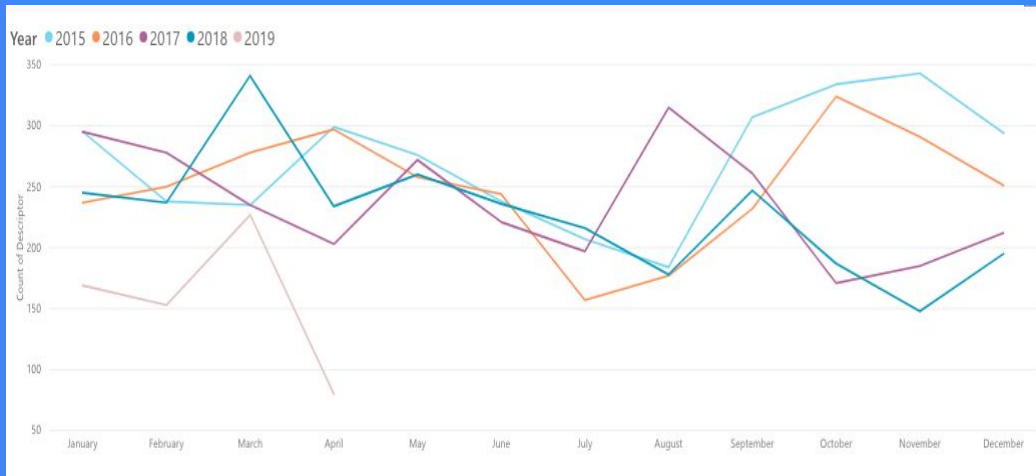


Manhattan CB 12 is also the noisiest Community Board in all of New York City (2015 - Present)

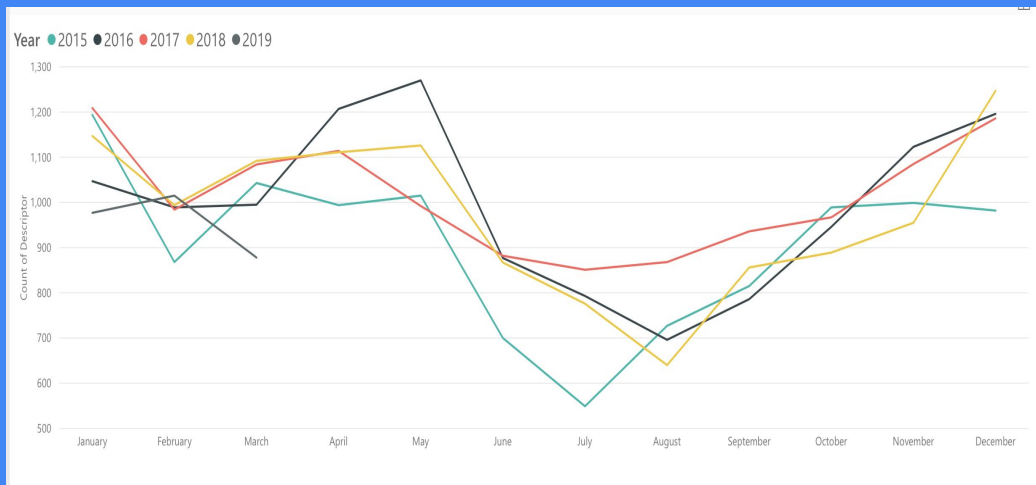
Residential/Commercial Noise Complaints Throughout The Boroughs



Seasonal Trends in CB 12's Noise Complaints



For **Commercial Noise** complaints, there is a seasonal trend since 2015. The noise complaints trend downward from May to August (with the exception of 2017 which experienced a decrease in complaints only from May to July).

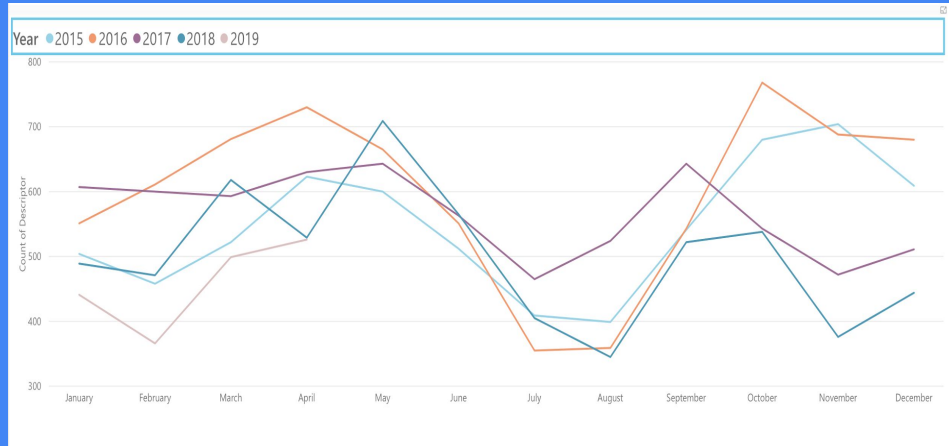


In the past 2-3 years, there is a considerably higher number of **Residential Noise** complaints from January to May; then the complaints drop drastically through July/August.

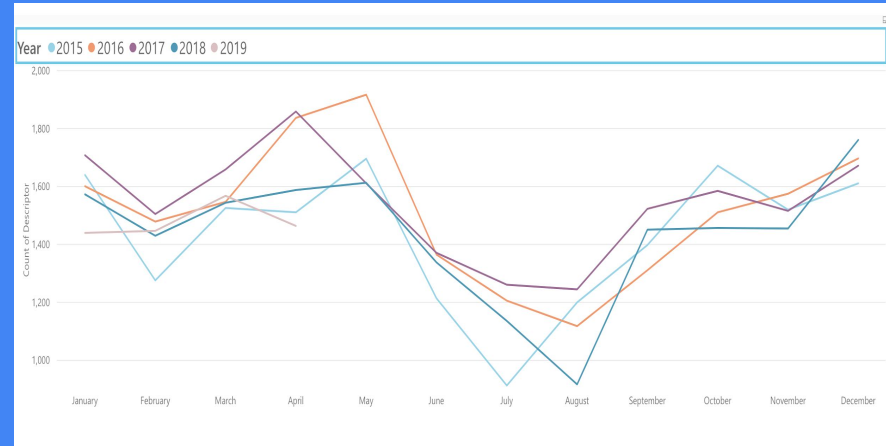
Counter-intuitive findings when considering summer-time festivities.

Seasonal Trends in CB 03 Noise Complaints

Commercial Noise Complaints



Residential Noise Complaints

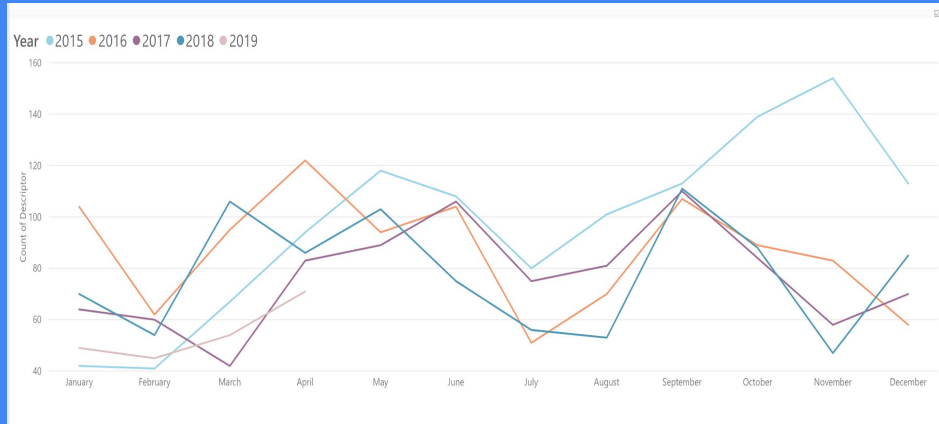


We see a similar trend in CB 03 where the number of Commercial and Residential noise complaints reach a peak from April-May and then drops right after. For both Commercial and Residential noise complaints, the lowest number of complaints occur between July - August.

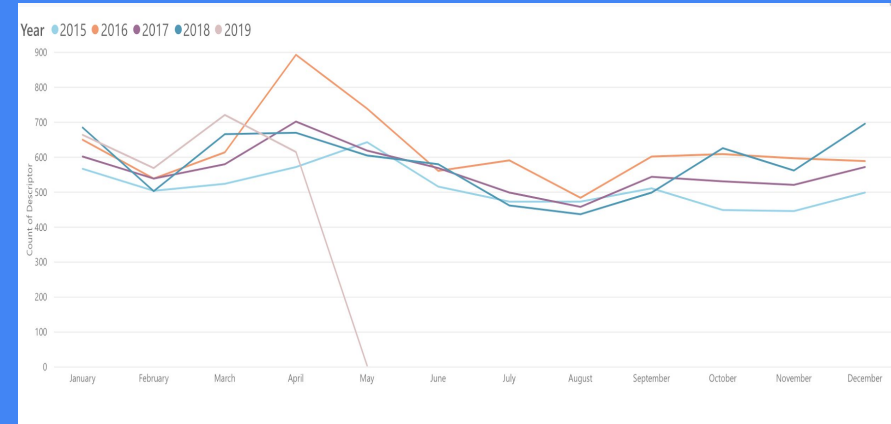
Perhaps this has to do with the City "emptying out" during Summer, and many people going away.

Seasonal Trends in CB 10 Noise Complaints

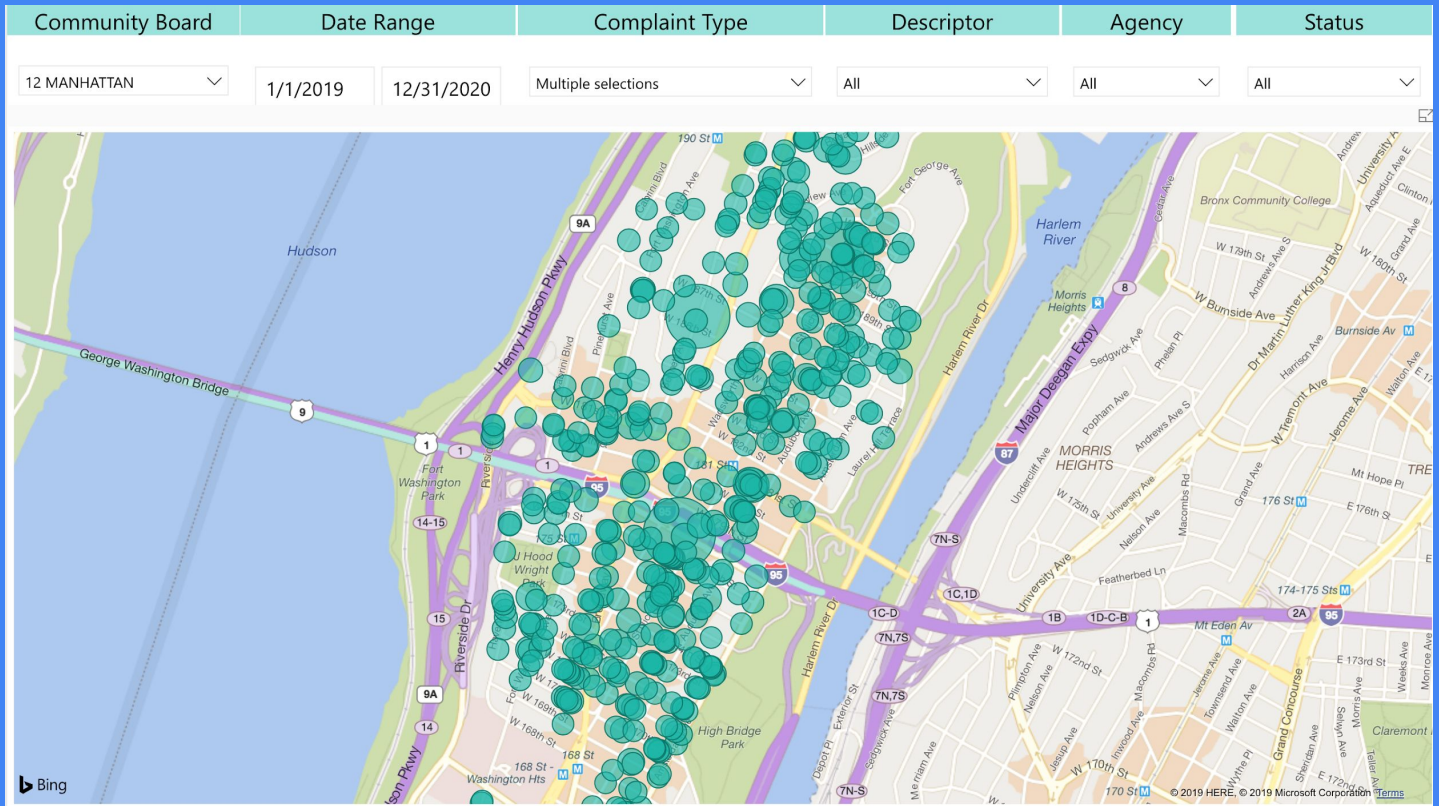
Commercial Noise Complaints



Residential Noise Complaints

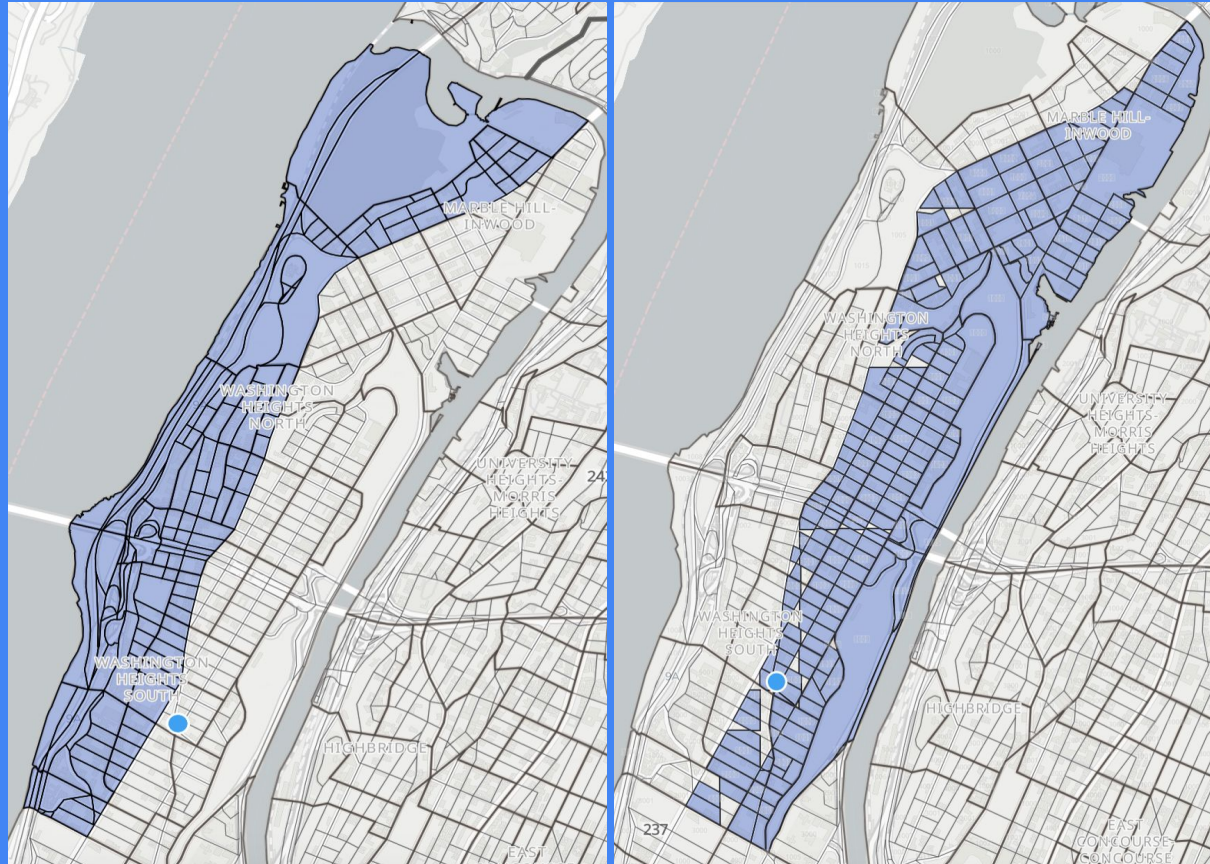


CB 10 has a different trend than CB 03 and CB 12. We see that the number of Commercial noise complaints increases between April - June and it increases again from August - October. As we can see on the second graph, the number of Residential noise complaints are relatively higher than Commercial noise complaints.



According to this visual from BoardStat, it appears that there are more noise complaints East of Broadway

West/East Broadway Distinction



West/East Broadway Distinctions (Population Density)

	West Broadway		East Broadway	
	Number	Percent	Number	Percent
Total population	62,392	100.0%	124,249	100.0%
Population per acre ⓘ	69.5		136.9	



The visual showed that there were more noise complaints in East Broadway than West Broadway. An explanation between this distinction may be that East Broadway has double the amount of people than West Broadway.

West/East Broadway Distinctions (Households with Individuals under 18 years)

West Broadway		East Broadway		New York City	
Number	Percent	Number	Percent	Number	Percent
6,037	23.1%	15,112	36.5%	959,122	30.8%

In East Broadway, 36.5% of households have individuals under 18 years old which is 5.7% more than the the average percent in New York City - another potential explanation for more Noise complaints.

West/East Broadway Distinctions

	West Broadway		East Broadway	
	Change, 2000 to 2010		Change, 2000 to 2010	
	Number	Percent 	Number	Percent 
Total population	-5,687	-8.0%	-12,738	-9.3%
Hispanic/Latino (of any race)	-7,628	-18.7%	-11,849	-10.5%
White nonhispanic	3,118	15.5%	2,078	26.0%
Black/African American nonhispanic	-983	-17.3%	-2,530	-21.5%
Asian nonhispanic	146	5.0%	388	29.2%
Some other race nonhispanic	-79	-19.0%	-281	-32.5%
Nonhispanic of two or more races	-261	-18.8%	-545	-40.7%

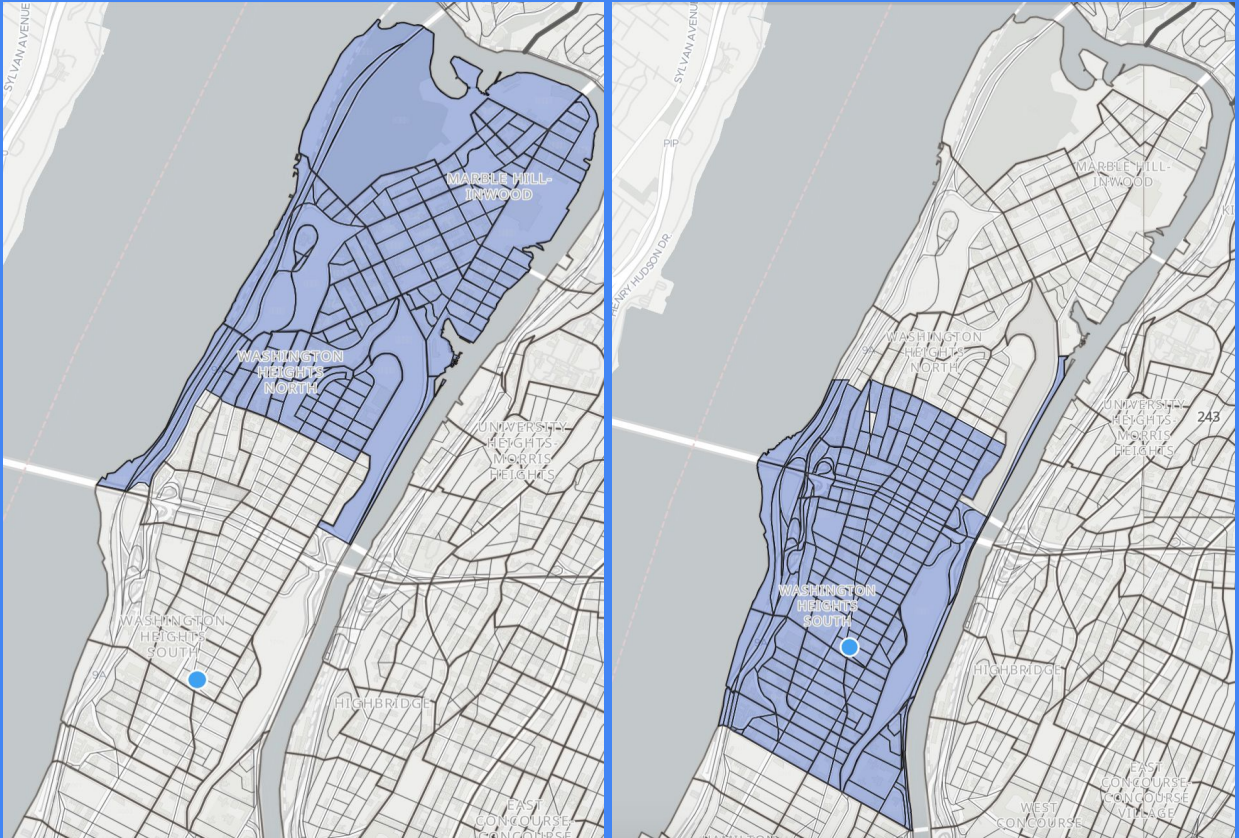
Moving IN:

White nonhispanics and Asian nonhispanics are moving into both East and West of Broadway, but **at a faster rate East of Broadway.**

Moving OUT:

Black/African American nonhispanics are leaving both sections but **faster East of Broadway.**
Hispanic/Latinos are leaving both sections but considerably **faster West of Broadway.**

North/South Distinctions (West 187th Street)



North/South Distinctions (West 187th Street)

	North of 187 Street		South of 187 Street	
	Change, 2000 to 2010		Change, 2000 to 2010	
	Number	Percent	Number	Percent
Total population	-7,542	-8.5%	-10,769	-8.5%
Hispanic/Latino (of any race)	-8,048	-12.1%	-10,234	-11.4%
White nonhispanic	1,211	8.7%	3,899	27.9%
Black/African American nonhispanic	-520	-10.6%	-4,084	-23.4%
Asian nonhispanic	287	18.3%	313	11.5%
Some other race nonhispanic	-184	-31.3%	-188	-25.9%
Nonhispanic of two or more races	-288	-25.9%	-475	-28.4%

Moving IN:

White nonhispanics are moving into both sections, but **at a much faster rate in Southern CB 12**. Asian nonhispanics are also moving into both sections, but **at a faster rate in Northern CB 12**.

Moving OUT:

Black/African American nonhispanics are leaving both sections but **considerably faster in Southern CB 12**. Hispanic/Latinos are leaving both sections but **slightly faster in Northern CB 12**.

Conclusion

CB 12 is the noisiest community board not just in Manhattan but in the whole city even after normalizing by population.

For seasonal analysis, see Slide 9.

The residential noise complaints are much higher than the commercial noise complaints.

There may be correlation between gentrification and increased noise complaints East of Broadway, but it is hard to know given higher population and more young people in the East.

Thank you for giving us this opportunity to work in this Data Assistance Request.