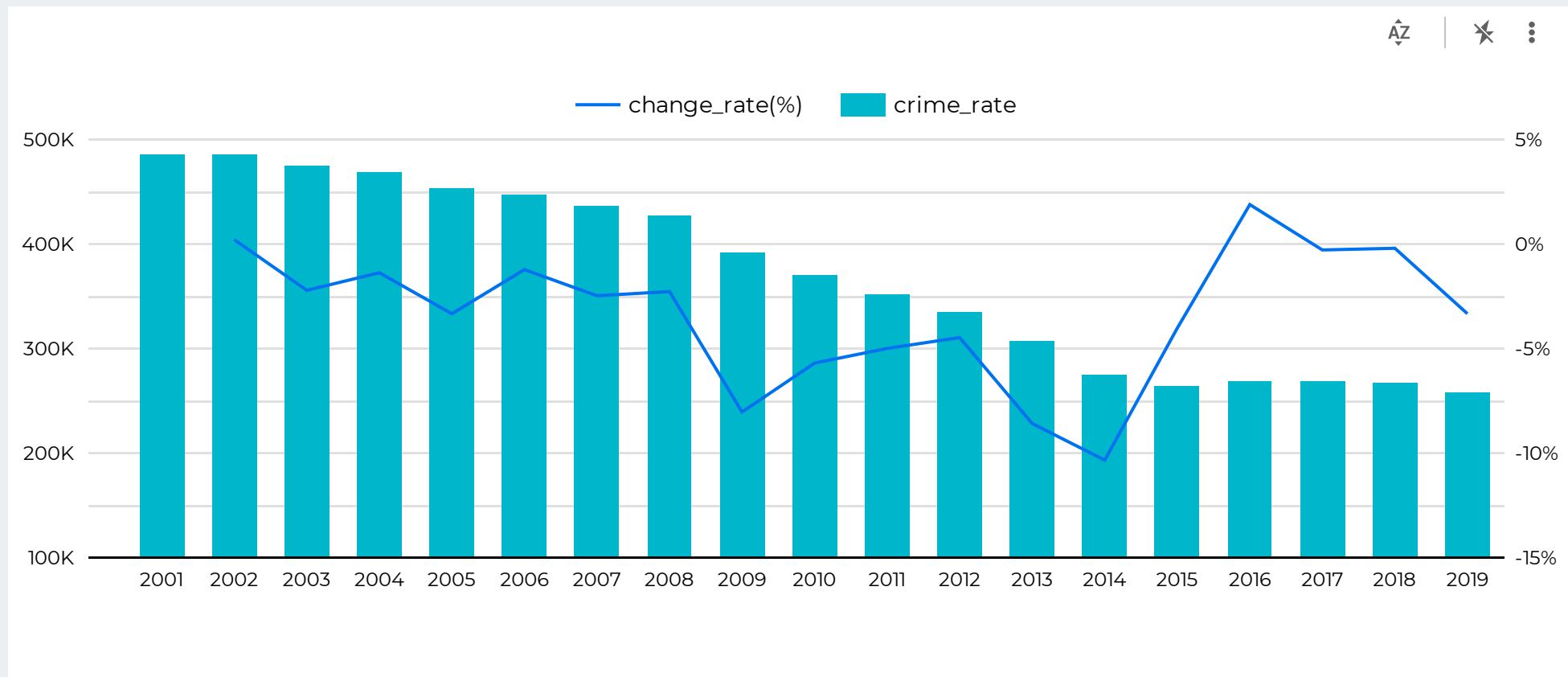


Chicago Crime Analysis

1. Trend over the years

Is Chicago safer throughout the years? **Yes**, in general!



Total Crimes 2019

259.1K

% Change 2019

-3.34%

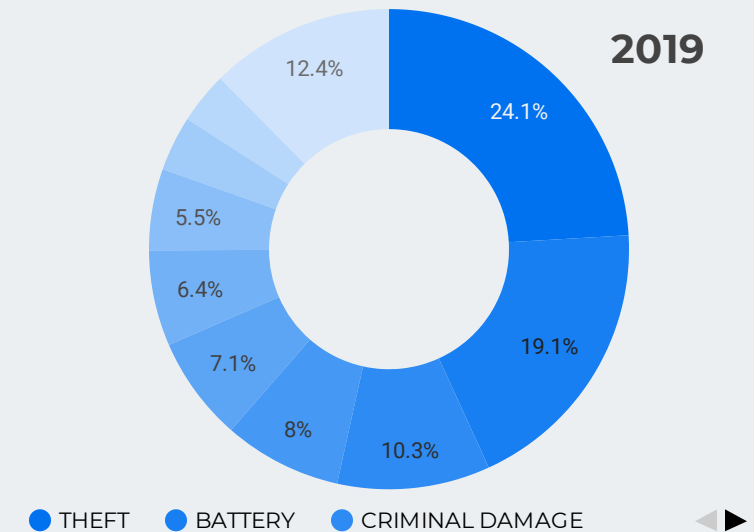
Avg % Change

-3.38%

2. Most Frequently Committed Crimes

In 2019, Theft, Battery, and Criminal Damage were the three most frequently committed crimes, taking up to 53.5% of total crimes.

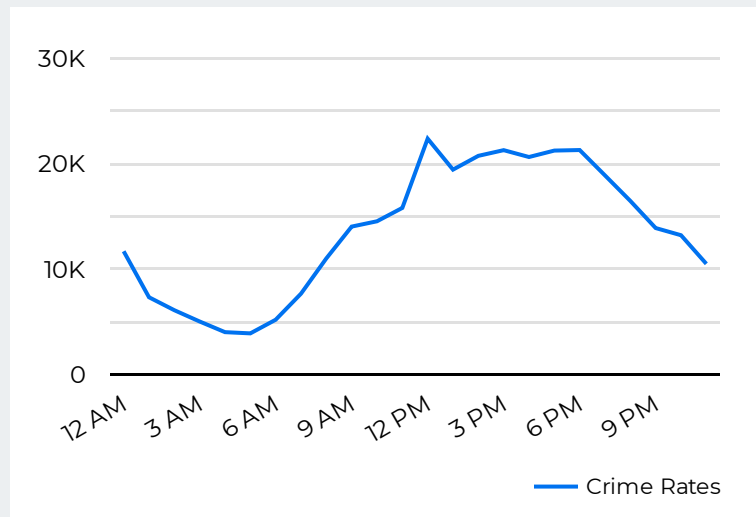
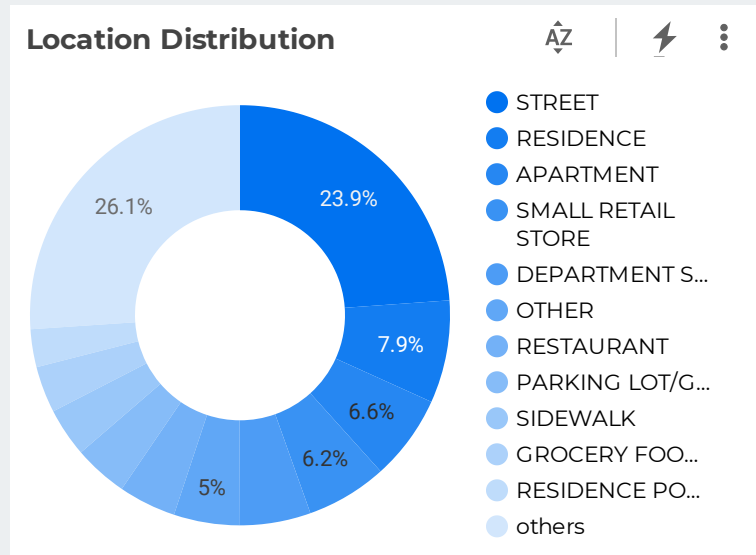
The list of top 10 crimes didn't change during the last ten years, but the order changed. However, the drop in starting from 2016 narcotics was probably due to the relaxation of cannabis possession and doesn't necessarily indicate situation improving.



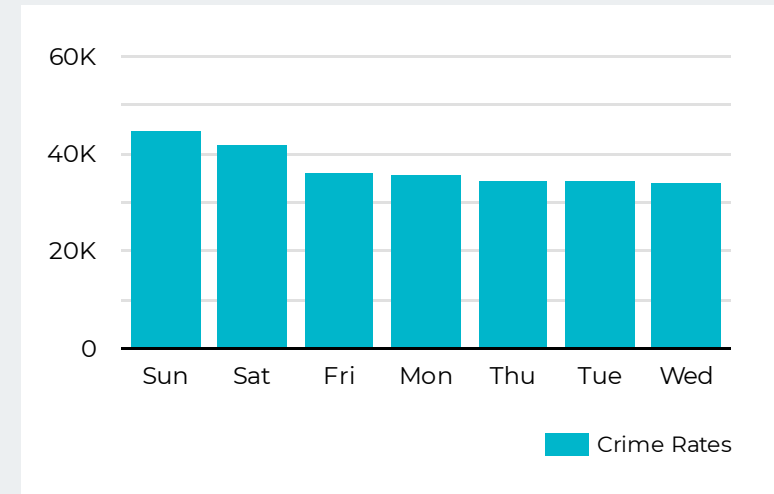
primary_type / rank										
year	THEFT	BATTERY	CRIMINA...	NARCOTI...	ASSAULT	OTHER O...	DECEPTI...	BURGLA...	MOTOR V...	ROBBERY
2010	1	2	4	3	7	6	10	5	8	9
2011	1	2	4	3	6	7	10	5	8	9
2012	1	2	3	4	6	7	9	5	8	10
2013	1	2	4	3	6	5	8	7	9	10
2014	1	2	4	3	6	5	7	8	9	10
2015	1	2	3	4	6	5	7	8	9	10
2016	1	2	3	8	5	6	4	7	10	9
2017	1	2	3	9	5	6	4	7	10	8
2018	1	2	3	7	4	6	5	8	9	10
2019	1	2	3	7	4	6	5	8	9	10
2020	1	2	3	7	4	6	5	9	8	10

Features of Most Frequently Committed Crimes

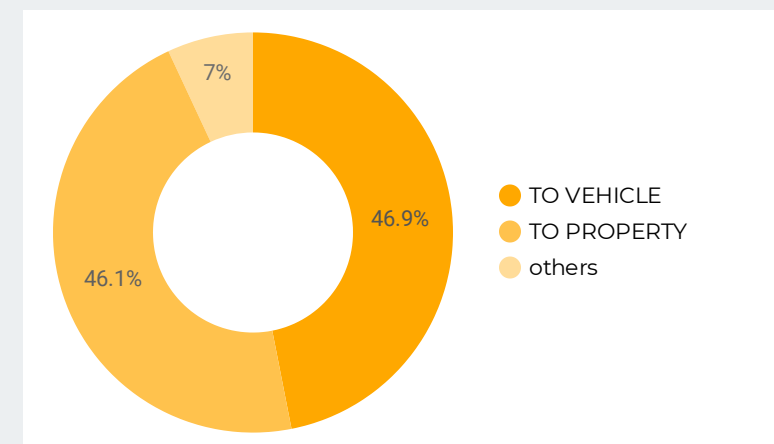
(1) Theft



(2) Battery



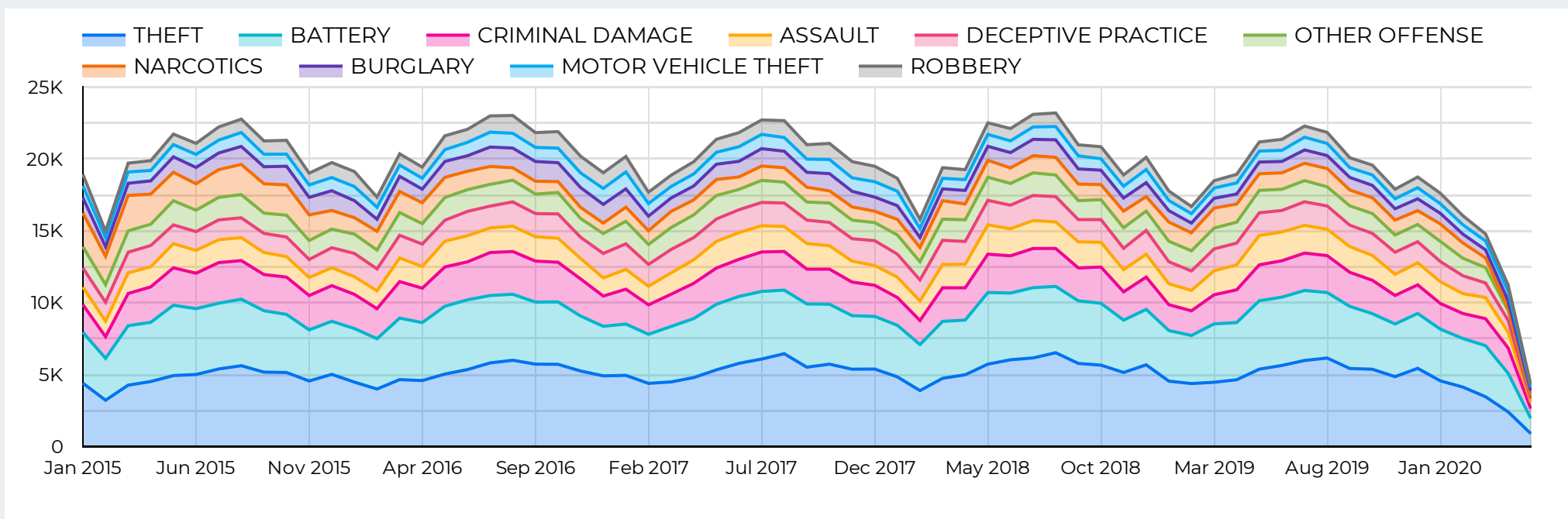
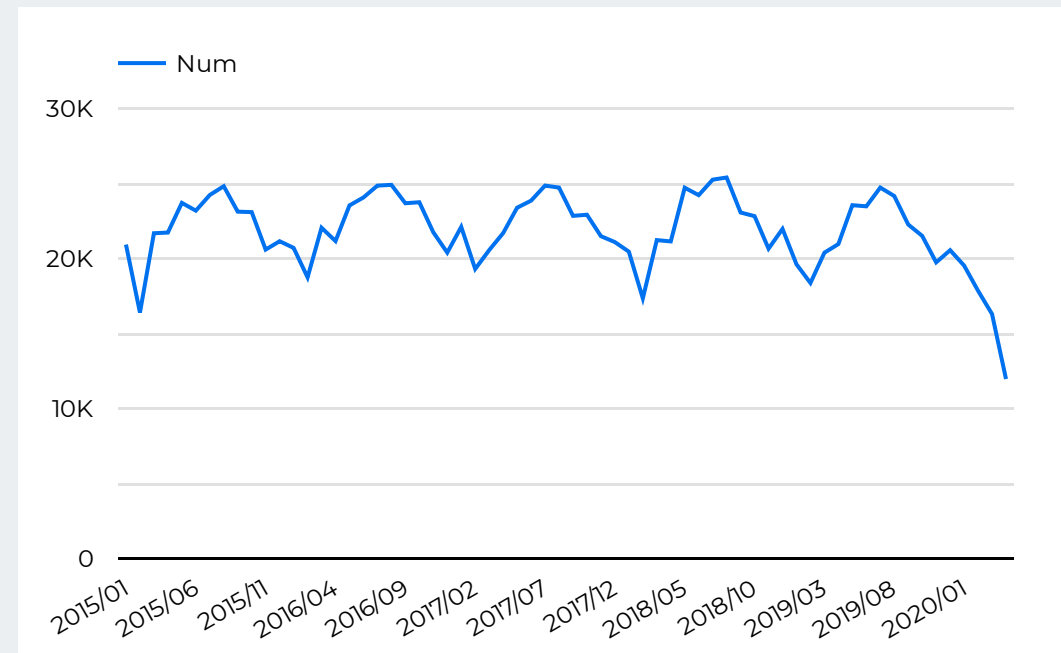
(3) Criminal Damage



3. Seasonal Trend

There's a seasonal pattern of crime rate, which can be explained by top crime types like theft, battery, criminal damages etc.

These crimes dropped significantly when the number of activities surge in summer and plunged in winter. The pattern doesn't seem to work in 2020 when spring comes, probably because of the Covid-19 pandemic.

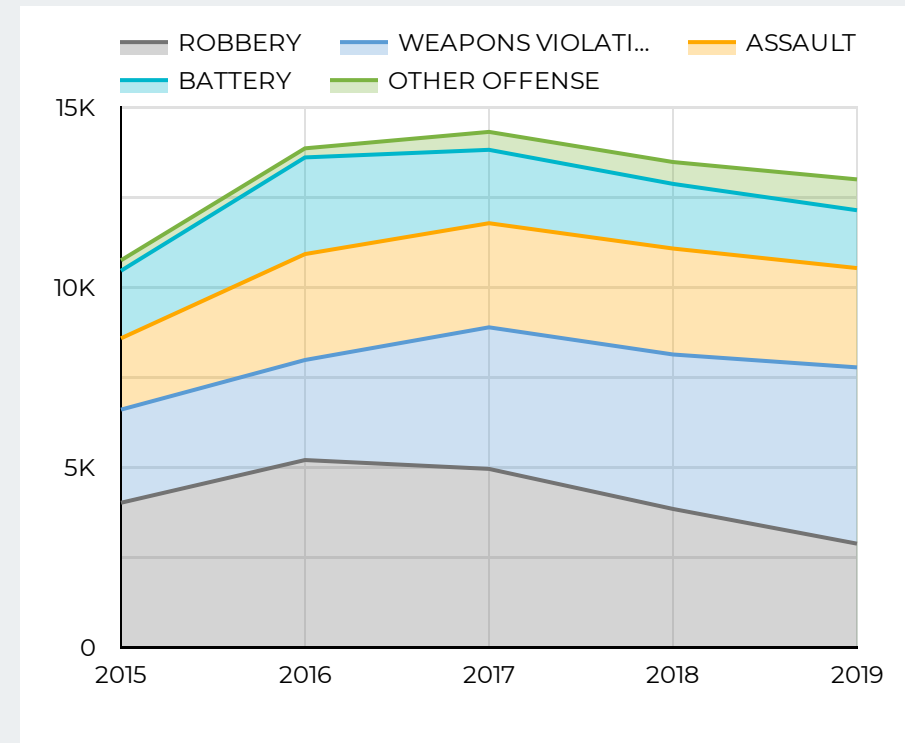


4. Violent Crimes

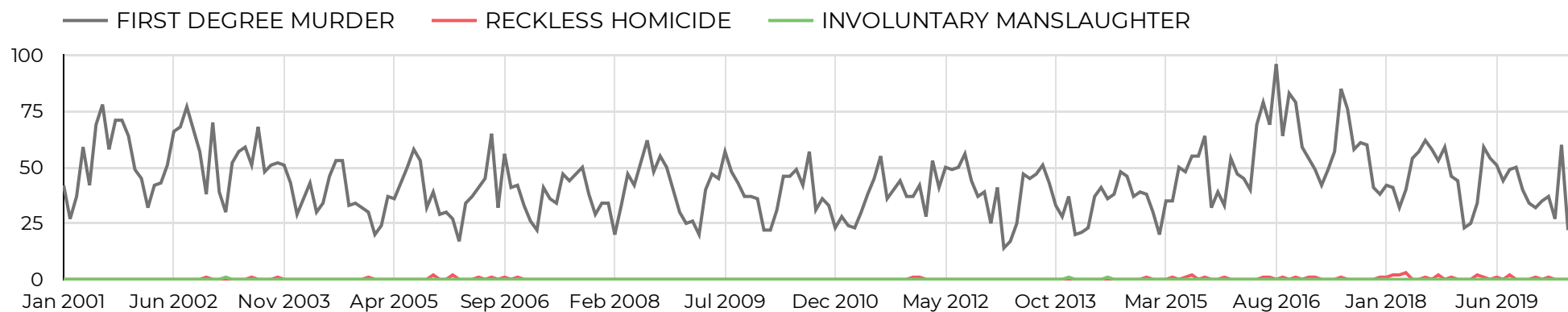
Unfortunately, violent crimes in Chicago didn't seem to decrease a lot in the past five years.

In fact, in 2016, homicides and gun-related crimes took up 3,397 of the 4,966 crimes increased. According to Wikipedia, Chicago was responsible for nearly half of 2016's increase in homicides in the US, though the nation's crime rates remain near historic lows.

But there is a difference regarding the composition of gun-related crime. These reports fell more into the weapon violation category, which might be less severe than other ones like robbery and assault.



Homicide



Community Safety

1. The safest and most dangerous community in 2019

The lists are a little different when calculating the total crimes and crimes taking community area into consideration. In general, communities in central and west areas are more dangerous, and far north/south communities are safer.

Top 10 List

	community	num_crime	crime_density_area ...
1.	HEGEWISCH	492	0.03
2.	OHARE	1,618	0.04
3.	FOREST GLEN	460	0.05
4.	SOUTH DEERING	1,846	0.06
5.	MOUNT GREENWOOD	466	0.06
6.	EDISON PARK	265	0.08
7.	NORWOOD PARK	1,152	0.09
8.	BEVERLY	922	0.1
9.	NORTH PARK	790	0.11
10.	EAST SIDE	1,000	0.12
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Bottom 10 List

	community	num_crime	crime_density_area ▾
1.	LOOP	10,554	2.28
2.	WEST GARFIELD PARK	6,118	1.7
3.	NEAR NORTH SIDE	12,553	1.64
4.	SOUTH SHORE	8,634	1.06
5.	NORTH LAWNSDALE	8,813	0.98
6.	EAST GARFIELD PARK	4,621	0.86
7.	CHATHAM	6,768	0.82
8.	HUMBOLDT PARK	7,912	0.79
9.	ROGERS PARK	4,029	0.79
10.	WEST ENGLEWOOD	6,560	0.75
1 - 10 / 77 < >			

2. Communities with Huge Improvement

Communities with Huge Crime Rate Per Resident Drop:

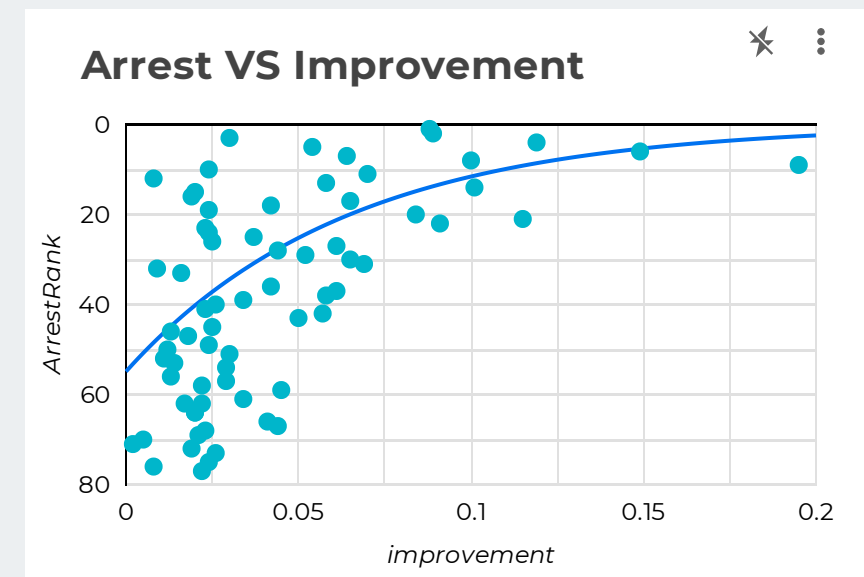
	community	Drop ▾	Arrest Rank	Crime Rank 2010	Crime Rank 2017
1.	Washington Park	0.2	9	75	57
2.	Fuller Park	0.15	6	77	76
3.	East Garfield Park	0.12	4	74	73
4.	Englewood	0.12	21	73	71
5.	West Englewood	0.1	14	72	70
6.	Woodlawn	0.1	8	68	56
7.	Greater Grand Cro...	0.09	22	70	67
8.	Austin	0.09	2	66	60
9.	West Garfield Park	0.09	1	76	75
1...	Grand Boulevard	0.08	20	60	51

1 - 10 / 77 < >

Chicago police have been working hard to reduce the crimes in the city.

6 out of 10 communities with the largest drop in crime rate were also in top arrest communities in 2010.

It might be a little disappointing to see that the communities with huge improvement and high arrest rank are still among the ones with the highest crime rate. But the scatter point still tells that safety in communities with higher arrest rates tends to improve more than those with lower arrests. And this is how the city's crime rates have dropped throughout the years.



3. Wealthier Communities = Safer?

Yes, in general! The crime rates per resident tends to be lower when the community is wealthier.

However, it may not be true when it comes to theft. The percentage of theft is generally higher in wealthier communities, which makes sense because people are carrying more money or keep items with higher value in properties.

These communities do have much lower murder rate though, making them safer place to live.

