



Comparing Cities' Homicide Rates Over Time

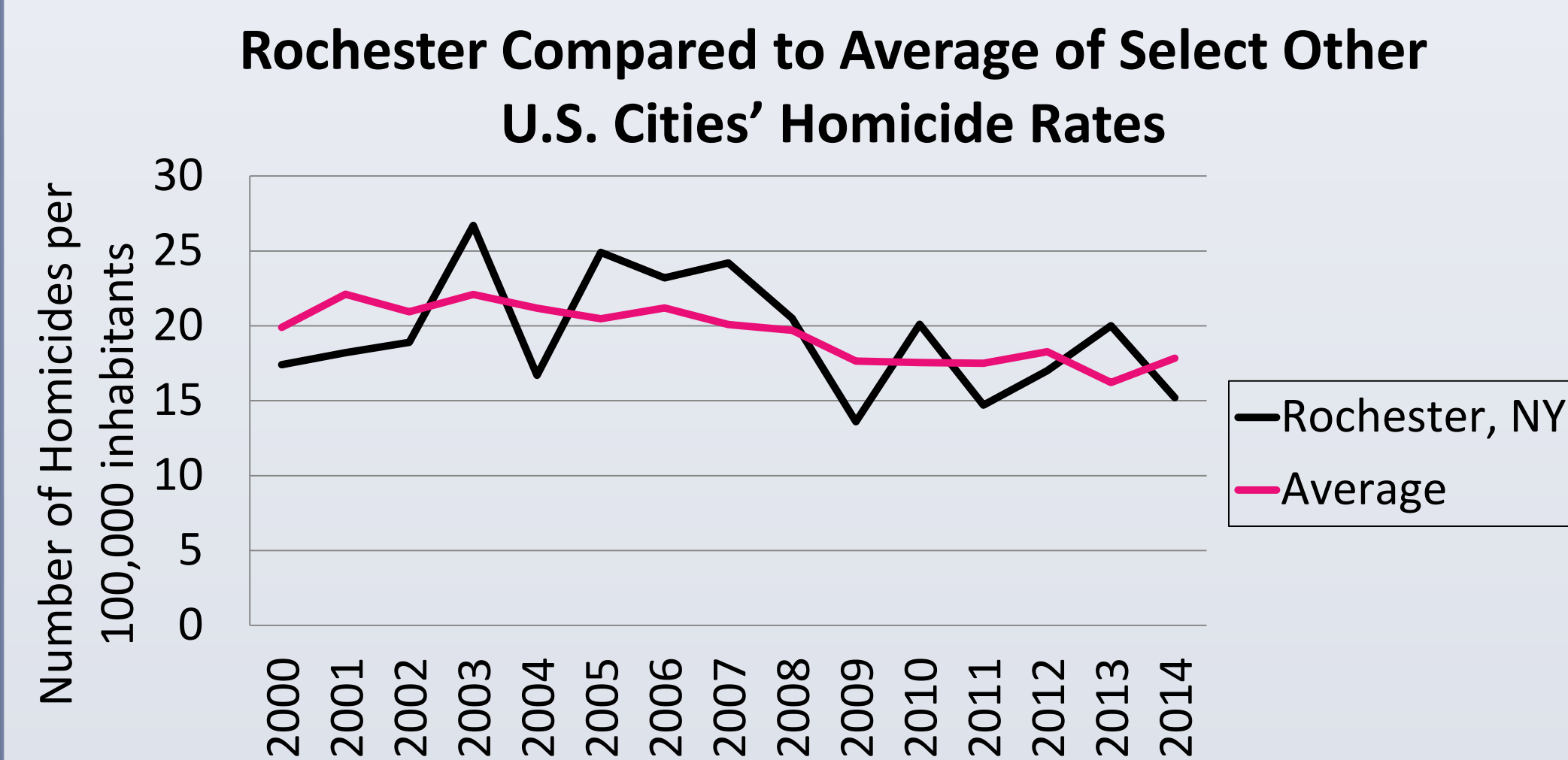
Nathaly Cabrera

Center for Public Safety Initiatives, Rochester Institute of Technology



INTRODUCTION

This research shows how Rochester, NY's homicide rates have changed in the last fourteen years, as compared to other cities.



OBJECTIVE

The ultimate goal of this work is to use this data in community violence-reduction planning.

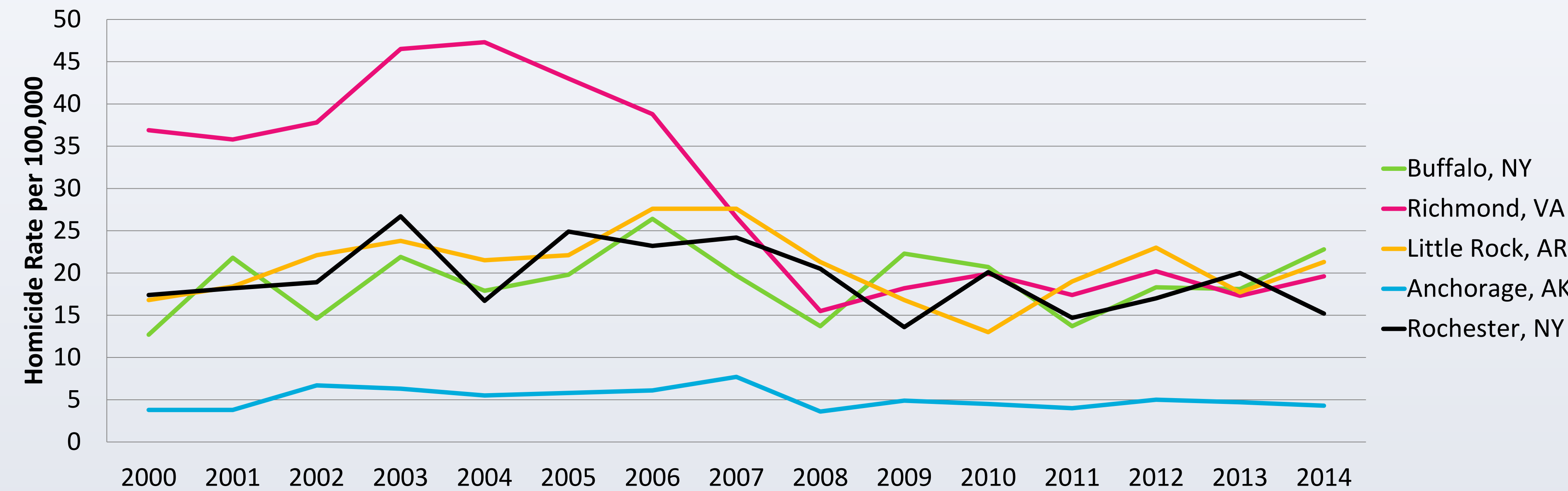
We will use the results that data display to find cities across the country that have been successful at reducing their homicide rates, and we will study their initiatives and see how such concepts could be applied to the Rochester community.

METHODS

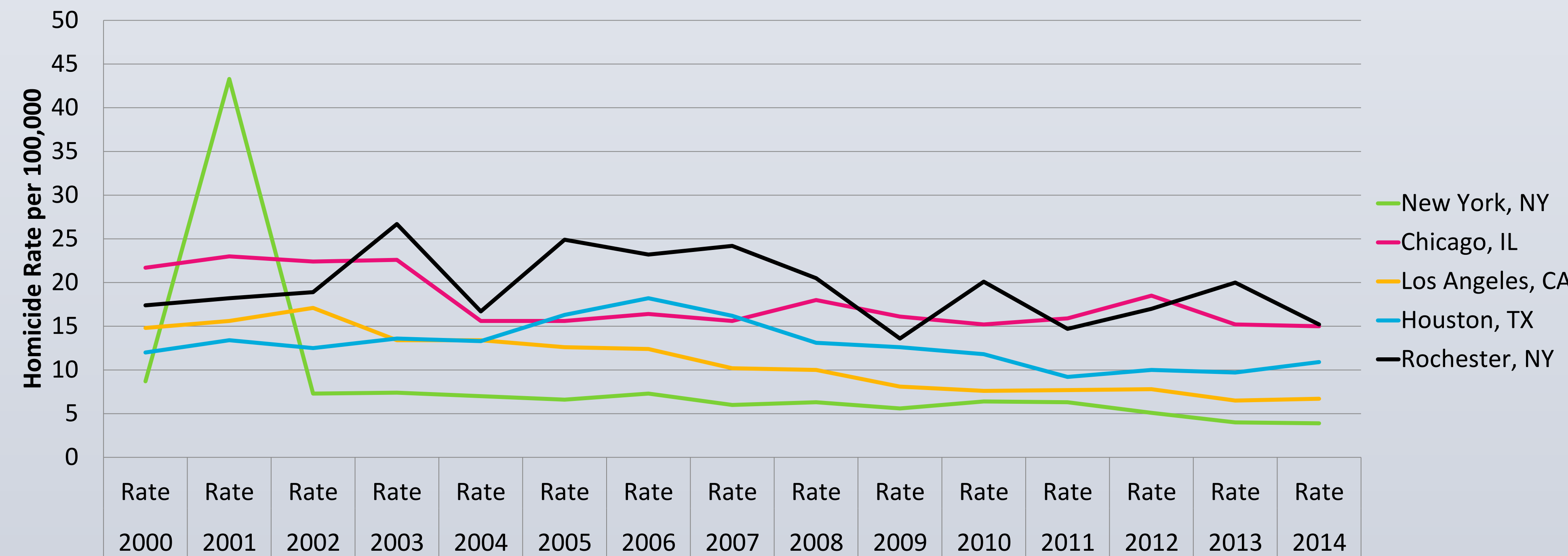
The analysis relies on combining the 2000 and 2010 census population data for each city and the number of homicides as recorded by the FBI and local sources (for more recent years).

We display the data in different formats to facilitate the comprehension of any changes since 2000, with a high focus on the Rochester area

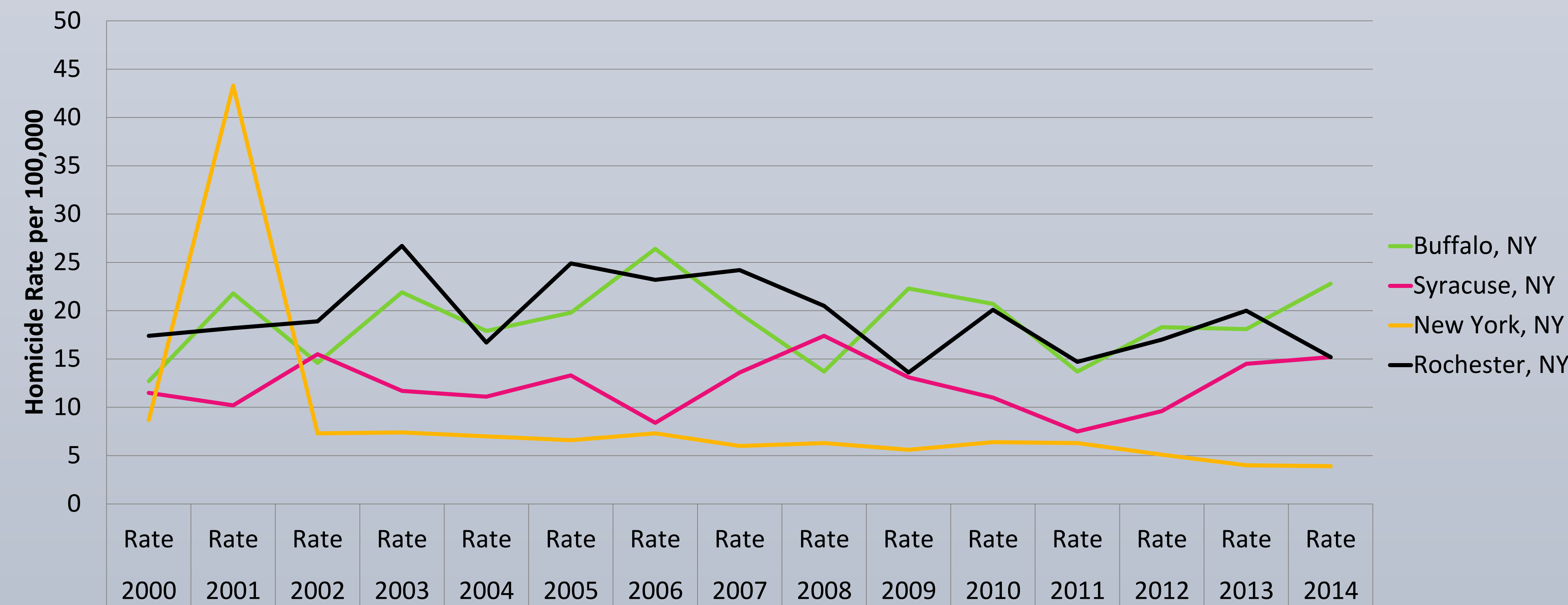
Homicide Rates for Cities with Similar Population Size to Rochester, NY



Homicide Rates for Cities with Over 2 Million Citizens Compared to Rochester, NY



Homicide Rate Comparison Among New York State Cities



PERCENT CHANGE ACROSS THE YEARS

Negative % change = reduction in homicide rates.
Positive % change = increase in homicide rates.

City	% Change	Average
New York, NY	-78%	8.7
Washington, DC	-64%	29.6
Los Angeles, CA	-56%	10.9
Richmond, VA	-48%	29.4
Atlanta, GA	-44%	23.9
Dallas, TX	-41%	14.9
Louisville, KY	-32%	10.8
Seattle, WA	-31%	4.3
Chicago, IL	-27%	17.8
Denver, CO	-24%	7.8
Boston, MA	-18%	9.7
Philadelphia, PA	-13%	21.6
Baltimore, MD	-9%	38.6
New Orleans, LA	-5%	49.8
Rochester, NY	-4%	19.4
Anchorage, AK	-2%	5.1
Colorado Springs, CO	6%	4.9
Syracuse, NY	6%	12.2
Newark, NJ	8%	29.8
St. Louis, MO	12%	37.7
Detroit, MI	17%	42.6
Buffalo, NY	21%	19.0
Pittsburgh, PA	27%	16.4
Cleveland, OH	36%	18.1

*Percent change was calculated by averaging rates in 2000-2003 and subtracting it the average rates in 2011-2014.

CONCLUSIONS

- We found that the U.S. average homicide rate has been declining steadily. Rochester rates shown a significant decrease from 2013 to 2014.
- Compared to similarly size cities, Rochester shows a very similar pattern.
- Compared to cities over 2 million citizens, Rochester is generally above the average, although Rochester's rates dropped significantly since 2007 compared to the rest of the U.S.

REFERENCES

FBI: Federal Bureau of Investigation. <http://www.fbi.gov/>
United States Census Bureau: <http://www.census.gov/>

CONTACT

Rochester Institute of Technology
93 Lomb Memorial Drive, Eastman (Bldg. 1),
Dept. of Criminal Justice
Rochester, NY 14623
(585) 475-5591
CPSI@rit.edu