

NEW YORK TRAFFIC SAFETY A LOOK AT THE PAST DECADE

NYS STOP DWI Association – 2023 IMPAIRED DRIVING CONFERENCE



Statistics are far from glamorous



Why do stats matter?

Stats are our report card....

- Where have we been historically?
- What direction are we headed in today?
- They help us evaluate our programs
- Identify strengths / weaknesses
- Assist with problem identification
- They are necessary to justify funding

GROWTH IN SCHOOL SUBJECTS				
Grading is based on the individual ability and effort of the child				
	QUARTERS			
	1	2	3	4
Reading:				
Reading Readiness				
Pre-Primer				
Primer				
First Reader				
Second Reader	S	S	ST	ST
Numbers				
	ST	ST	E	E
Language				
	ST	ST	E	E
Spelling (2nd grade)				
	F	E	E	E
Social Studies (Geography, History, Civics, Science)				
	ST	ST	E	E
Writing				
	ST	ST	E	E
Music				
	ST	ST	ST	ST
Art				
	ST	ST	ST	ST
Physical Education				
	ST	ST	ST	ST
SOCIAL DEVELOPMENT				
WORK HABITS				
Is neat in work	S	F	E	E
Follows instructions	ST	E	E	E
Begins and finishes work promptly	ST	E	E	E
Is attentive	S	ST	ST	E
SOCIAL ATTITUDES				
Is courteous	E	E	E	E
Is reliable	S	ST	E	E
Uses property and materials carefully	S	ST	E	E
HEALTH & SAFETY				
Has wholesome health habits	E	E	E	E
Observes safety rules	E	E	E	E
KEY TO MARKINGS				
E	EXCELLENT	N	NEEDS TO IMPROVE	
S	SATISFACTORY	U	UNSATISFACTORY	

Teacher's Comments:

First Quarter
Parent conference.

Second Quarter
work is satisfactory.

Third Quarter
continues to improve.

Fourth Quarter
progress has been very satisfactory. He is a nice boy, need a fine student.

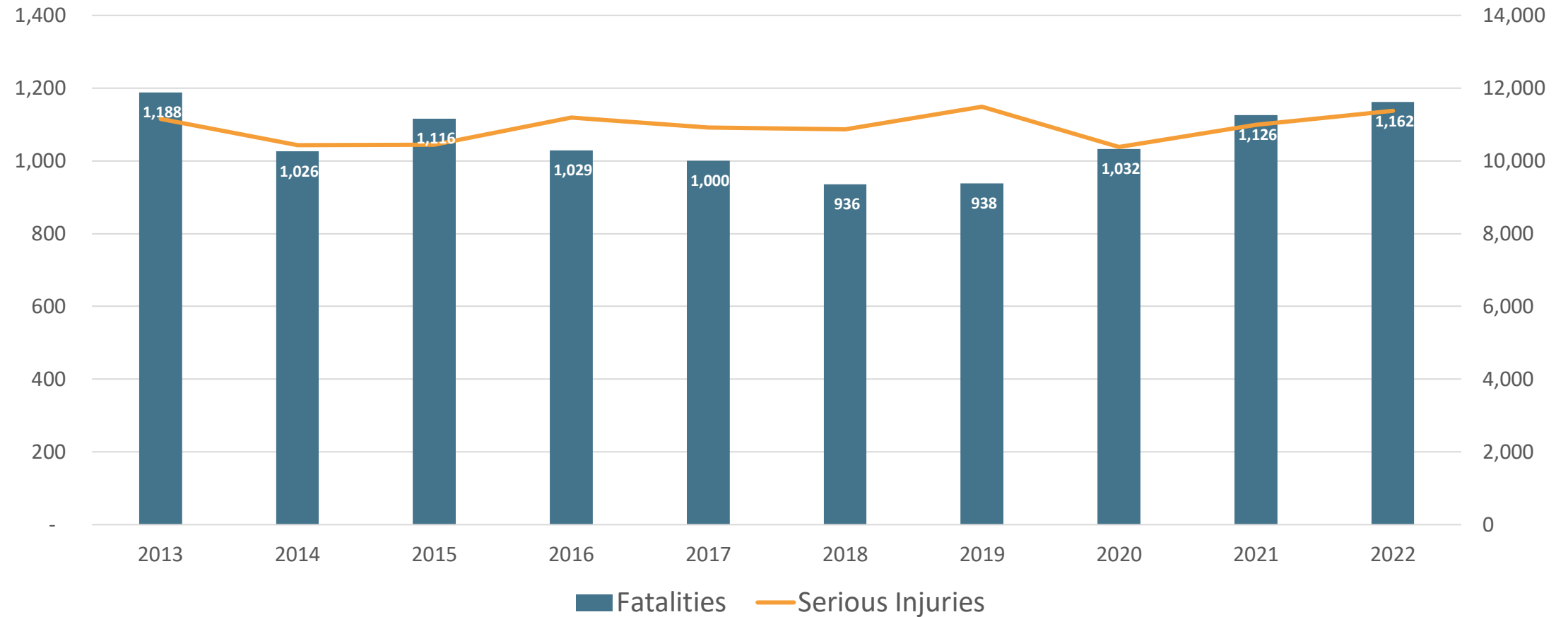


“There are three kinds of lies:
lies, damned lies, and statistics.”

Mark Twain



New York Police-Reported Motor Vehicle Fatalities & Serious Injuries



Source: NYS AIS/TSSR

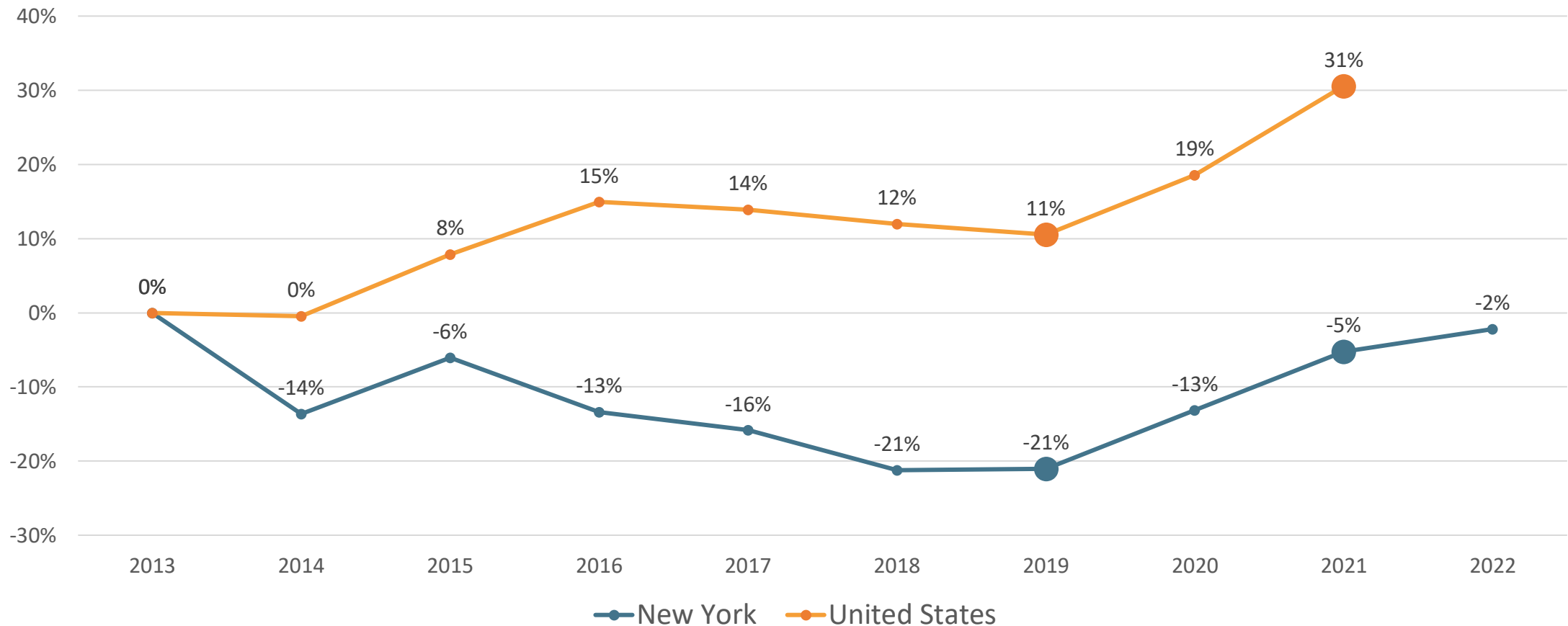
Is the loss of an average of 1,055 lives on NY roadways every year acceptable?



- The equivalent of 6 ½ 737-800 jets crashing every year in NY alone

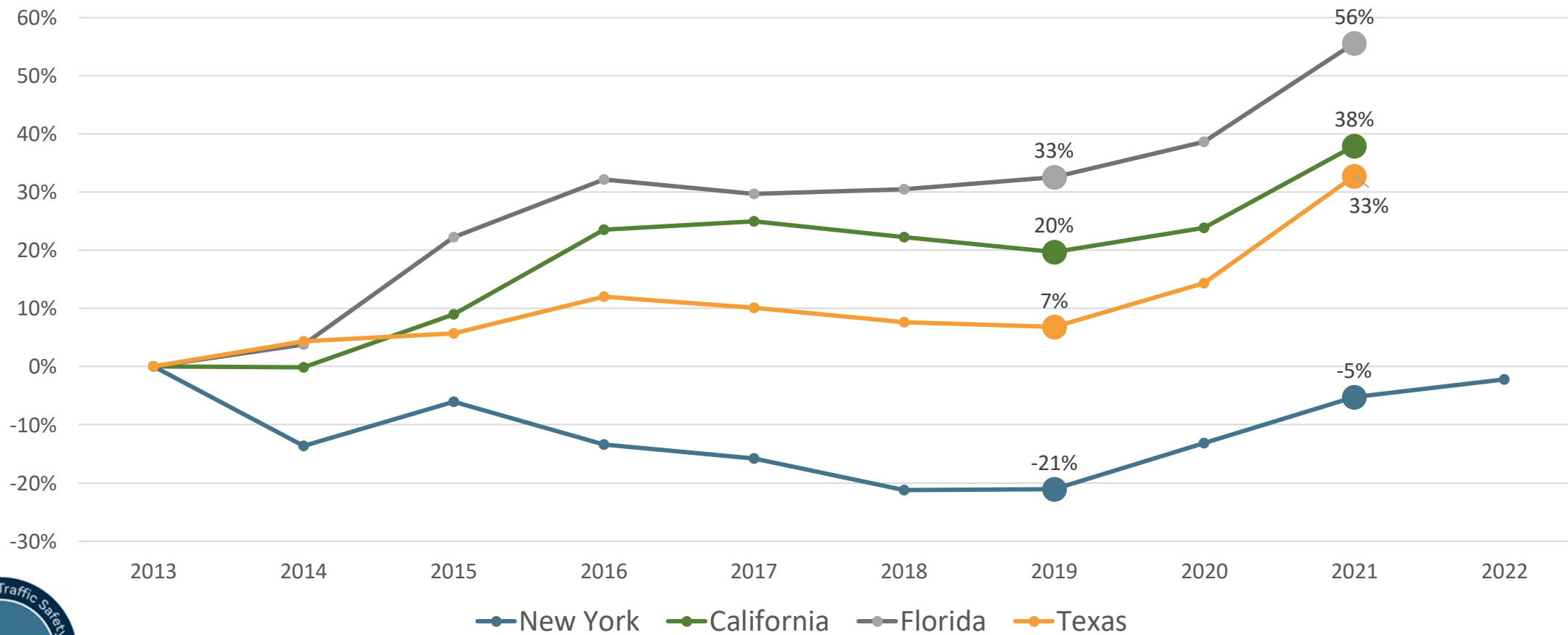


New York vs. U.S. Motor Vehicle Fatalities: % Change from 2013



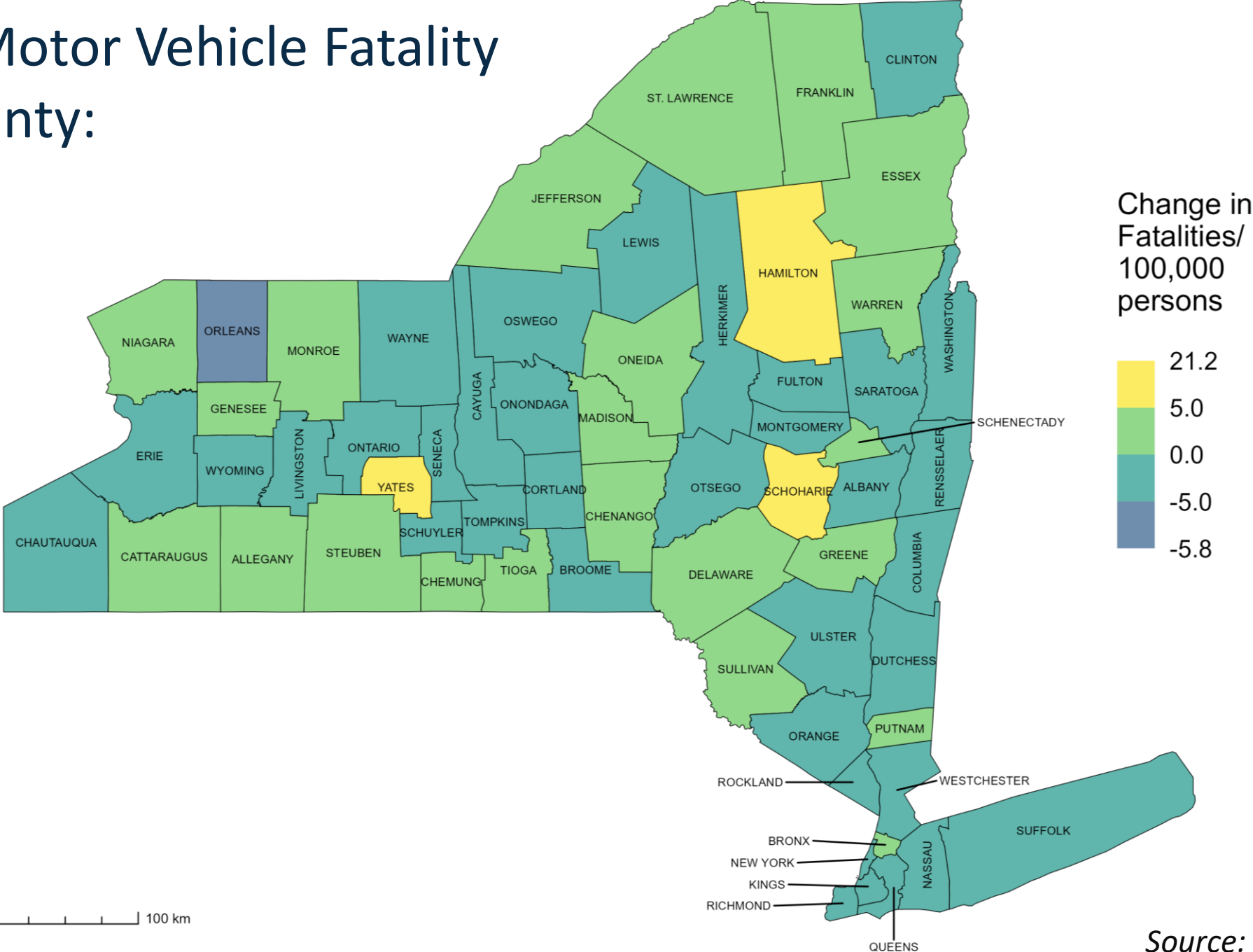
Source: NYS AIS/TSSR, FARS

New York vs Large State Motor Vehicle Fatalities: % Change from 2013



Source: NYS AIS/TSSR, FARS

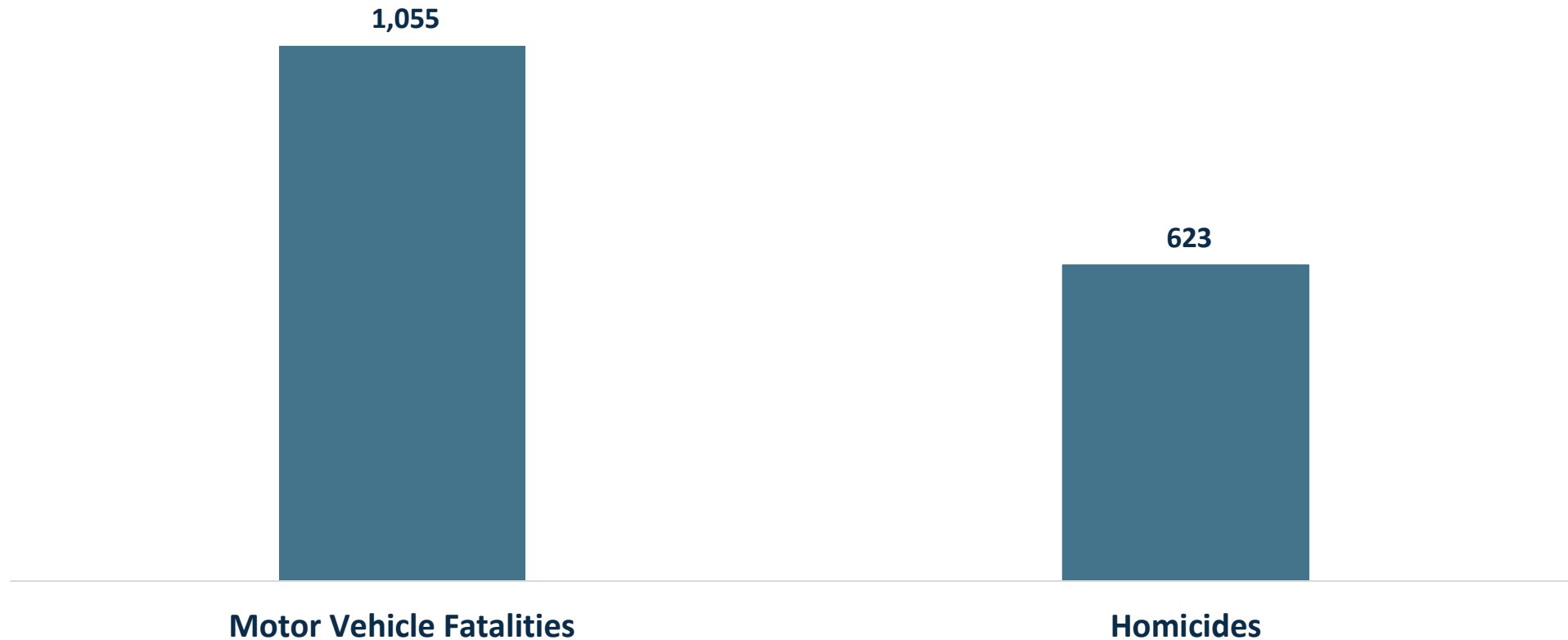
Change in Motor Vehicle Fatality Rate by County: 2013-2017 Average vs 2018-2022 Average



Source: NYS AIS/TSSR

New York

Average Annual Roadway Fatalities vs. Average Annual Homicides 2013 - 2022

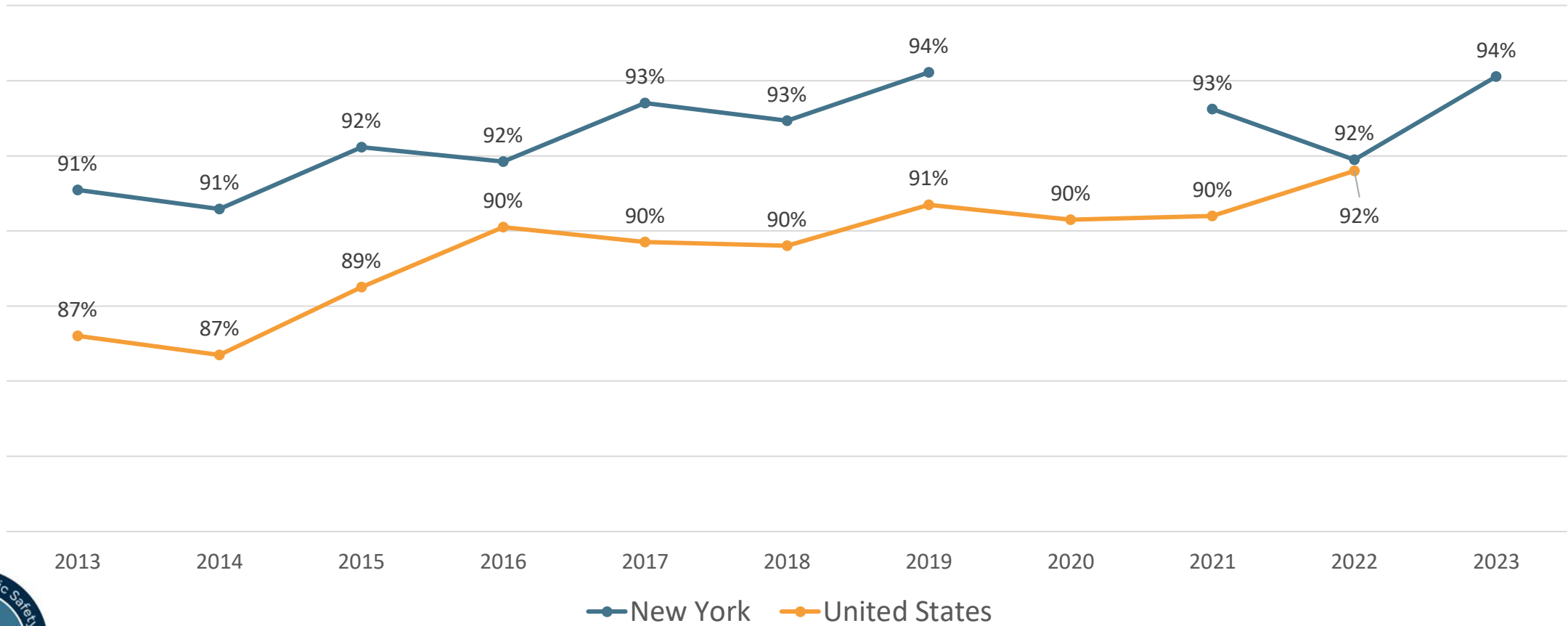


Source: NYS AIS/TSSR, FBI Uniform Crime Reporting Program

What Has Improved Over the Decade?

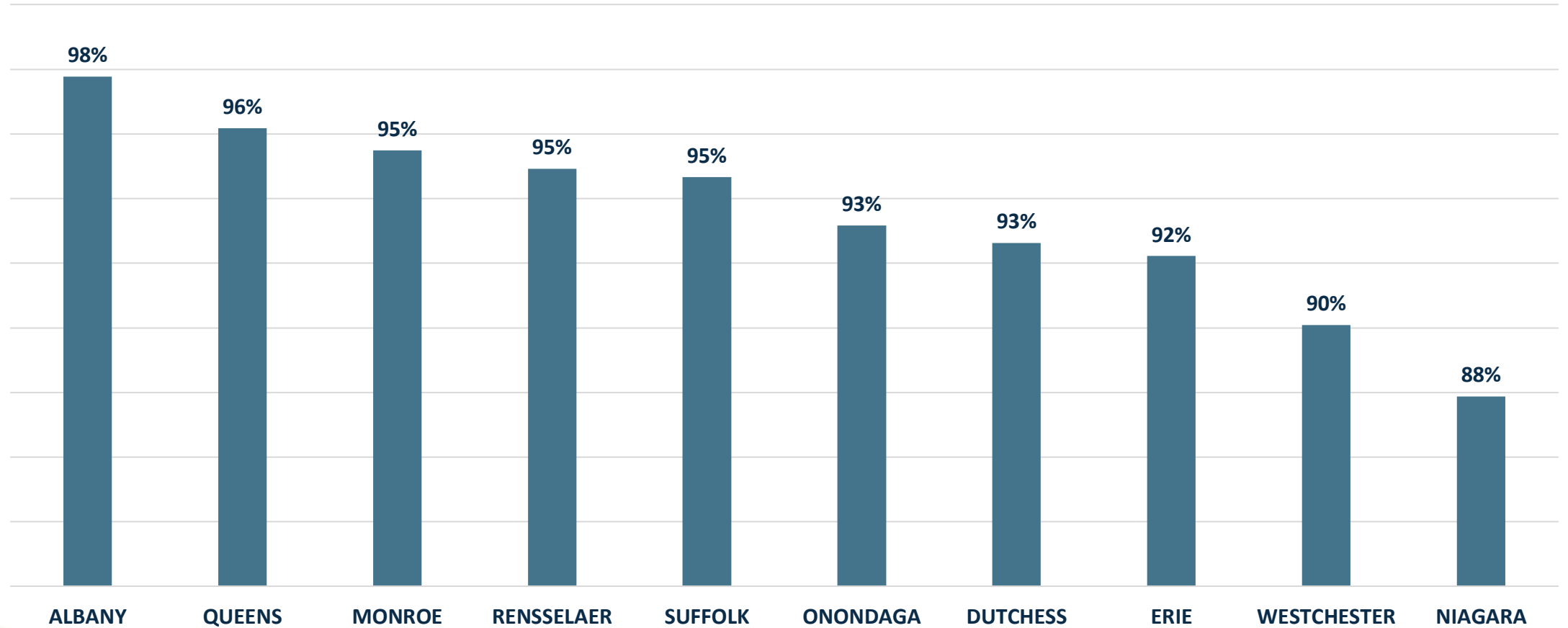


New York vs U.S. Observed Front Seat Belt Use Rate



Source: NYS Annual Observational Survey of Seat Belt Use, National Occupant Protection Use Survey

New York Observed Front Seat Belt Use Rate by County – 2023



Source: NYS Annual Observational Survey of Seat Belt Use 2023

Road Segments Ranked by Observed Front Seat Belt Usage

Niagara		
Road Segment ID	Seat Belt Usage	Road Classification
1	95%	Secondary Roads
2	92%	Primary Roads
3	90%	Secondary Roads
4	90%	Secondary Roads
5	89%	Local Roads
6	88%	Primary Roads
7	87%	Secondary Roads
8	87%	Primary Roads
9	87%	Local Roads
10	86%	Local Roads

Westchester		
Road Segment ID	Seat Belt Usage	Road Classification
1	97%	Primary Roads
2	97%	Primary Roads
3	96%	Secondary Roads
4	96%	Local Roads
5	96%	Secondary Roads
6	93%	Primary Roads
7	93%	Secondary Roads
8	91%	Secondary Roads
9	90%	Local Roads
10	81%	Local Roads



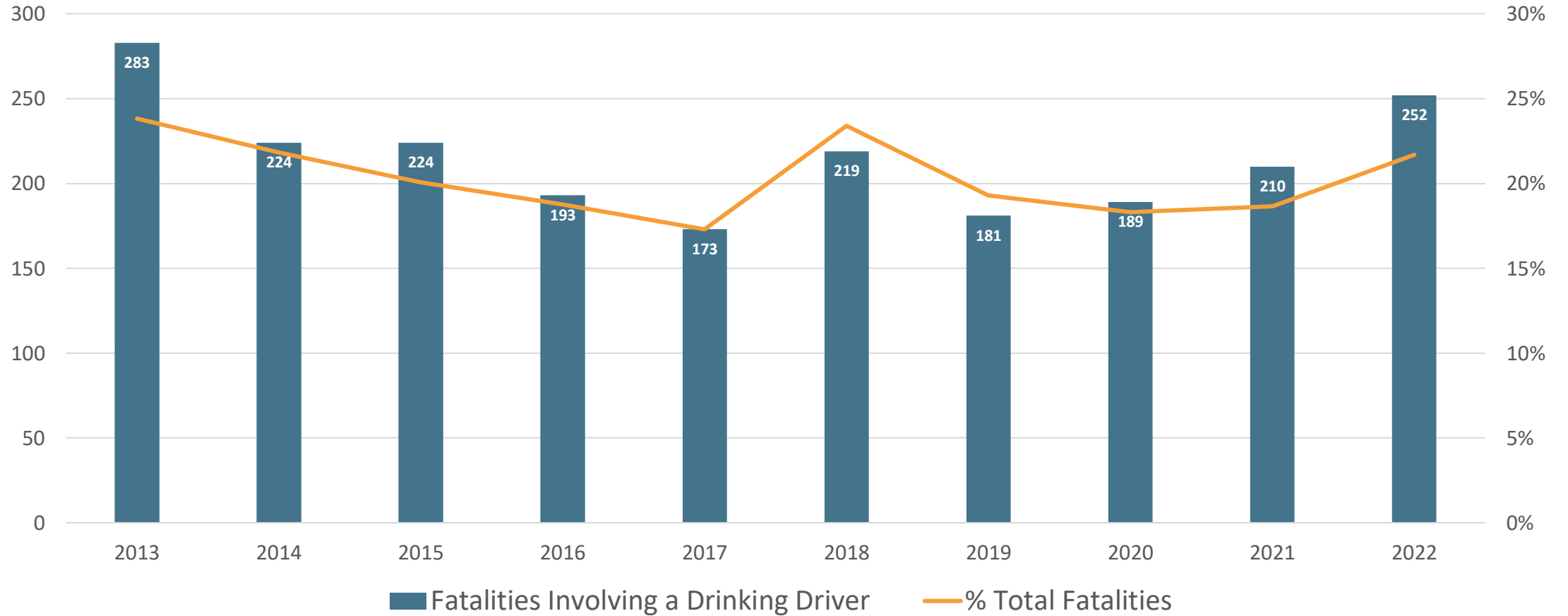
Source: NYS Annual Observational Survey of Seat Belt Use 2023

What Requires Greater Attention?

- Fatalities Involving a Drinking Driver
- Fatalities Involving a Large Truck
- Motorcyclist Fatalities
- Pedestrian Fatalities
- Fatalities Involving a Young Driver (16-20)

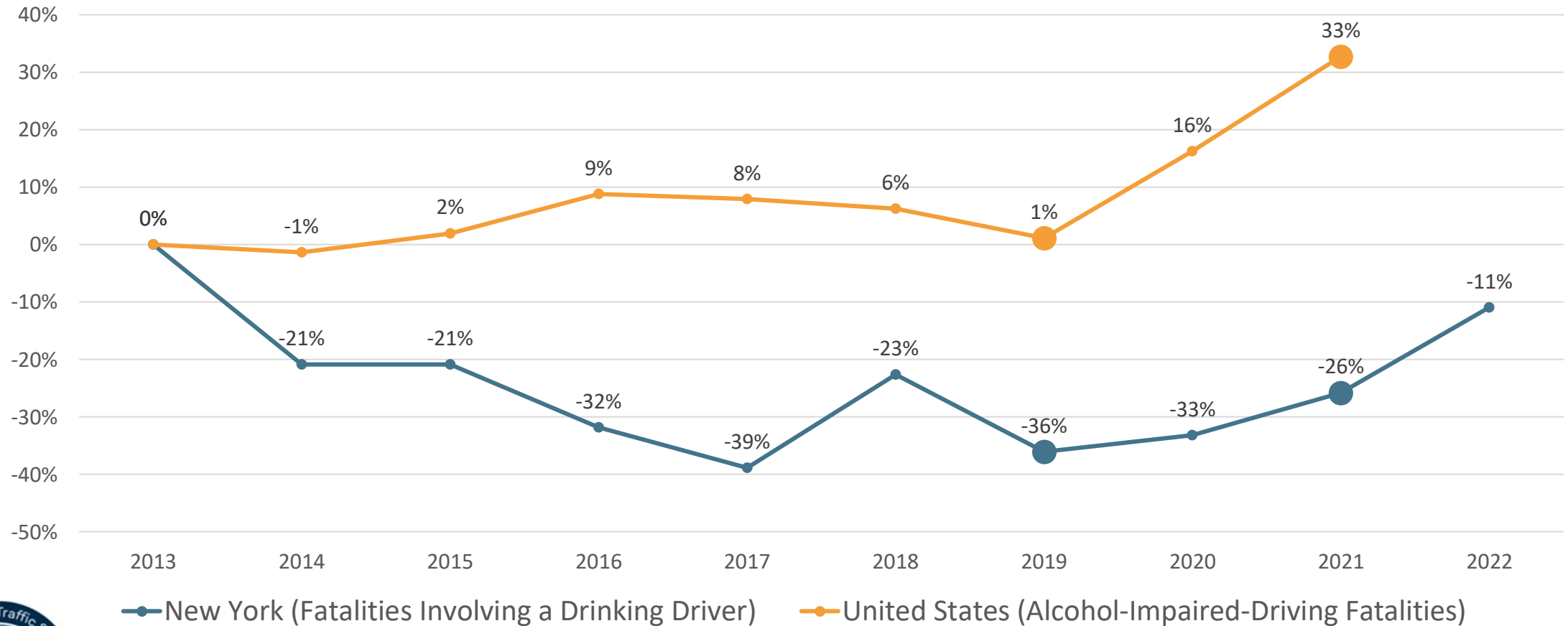


New York Fatalities Involving a Drinking Driver



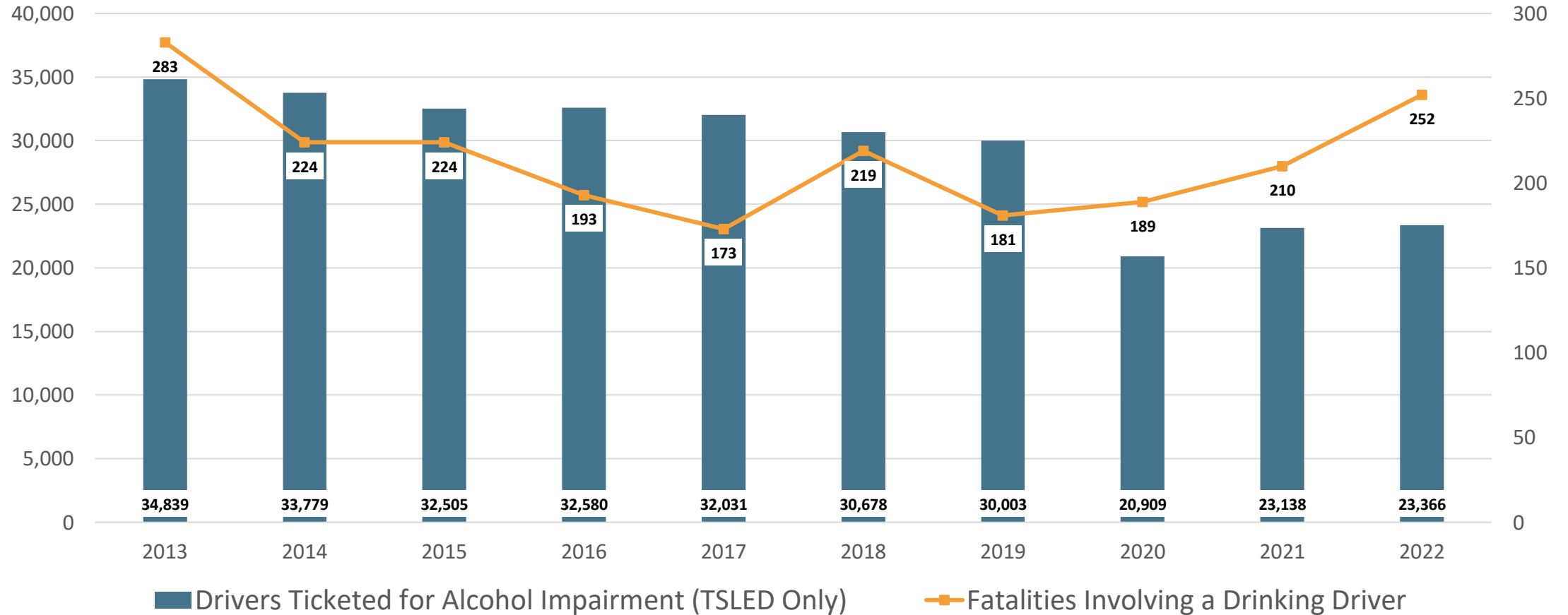
Source: NYS AIS

New York vs U.S. Fatalities Involving a Drinking Driver: % Change from 2013



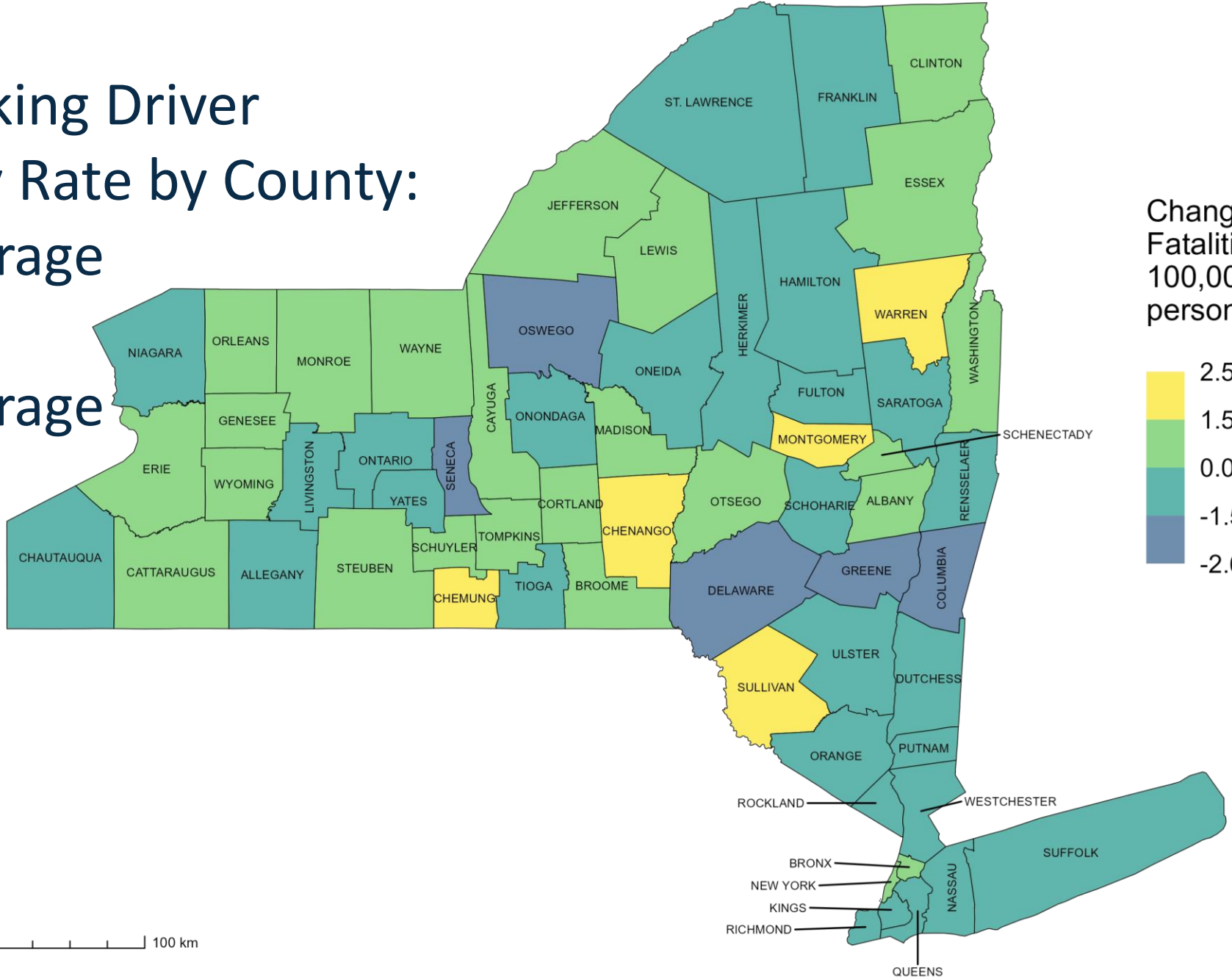
Source: NYS AIS, FARS

New York Drivers Ticketed for Alcohol Impairment



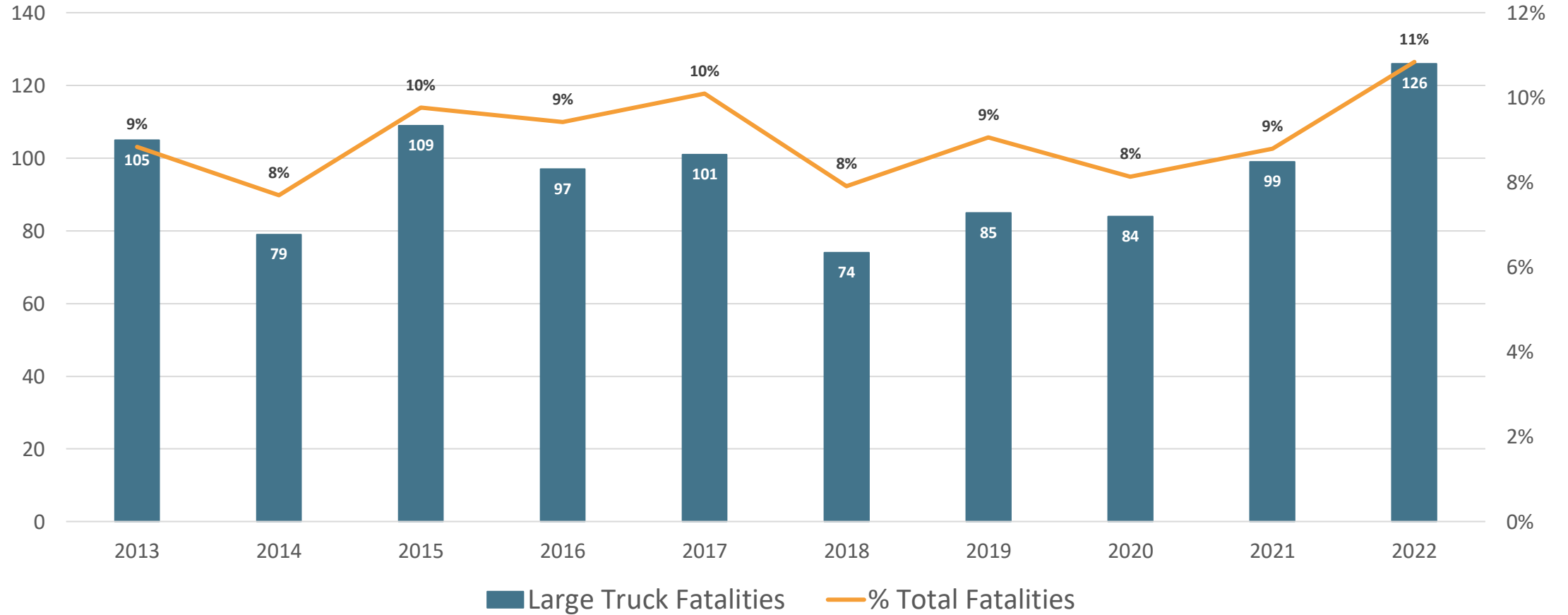
Source: NYS AIS, TSLED/TSSR

Change in Drinking Driver Related Fatality Rate by County: 2013-2017 Average VS 2018-2022 Average



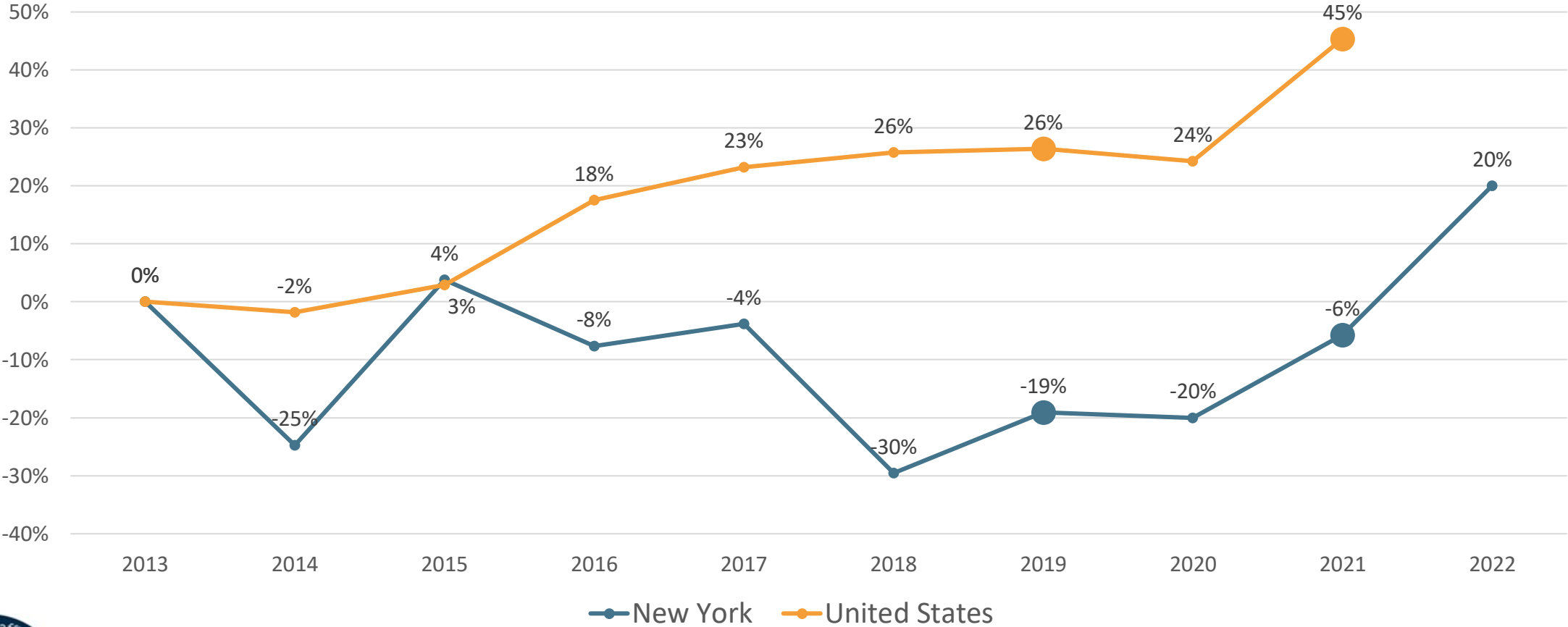
Source: NYS AIS

New York Fatalities Involving a Large Truck



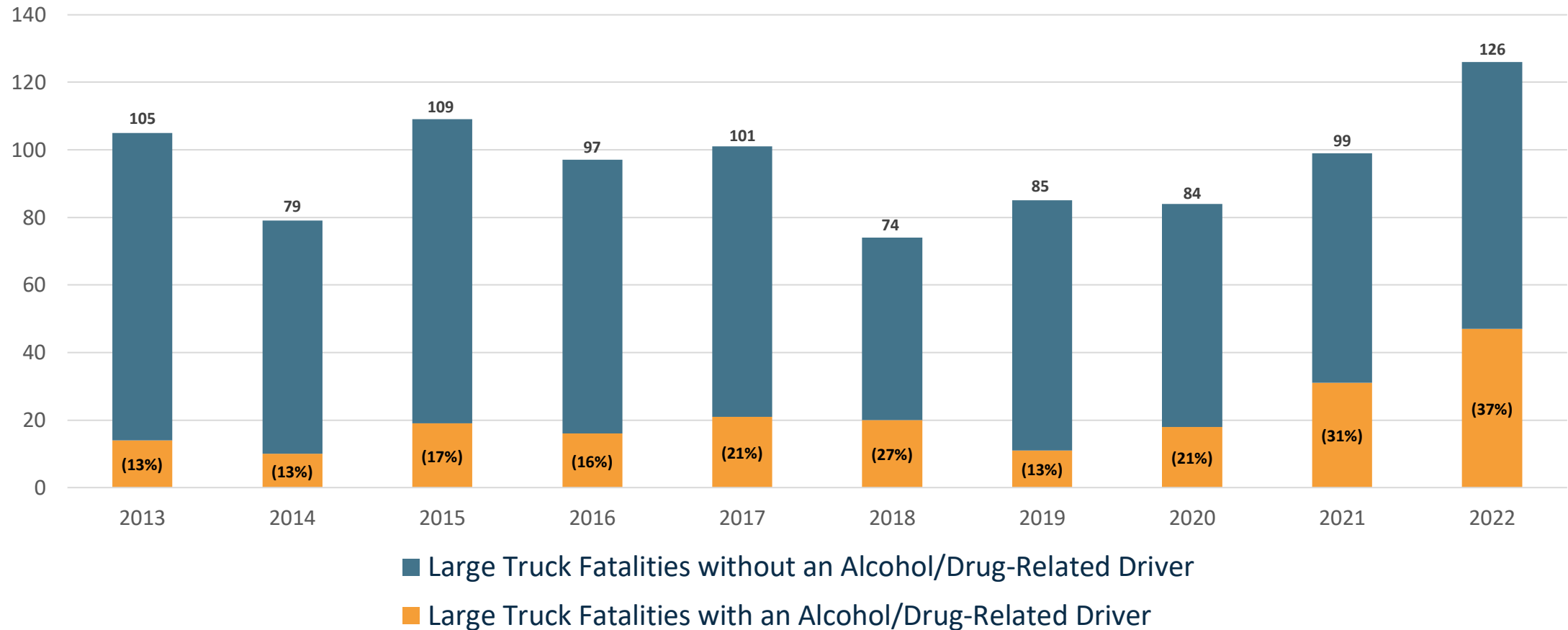
Source: NYS AIS/TSSR

New York vs U.S. Fatalities Involving a Large Truck: % Change from 2013



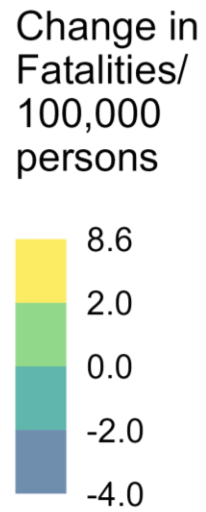
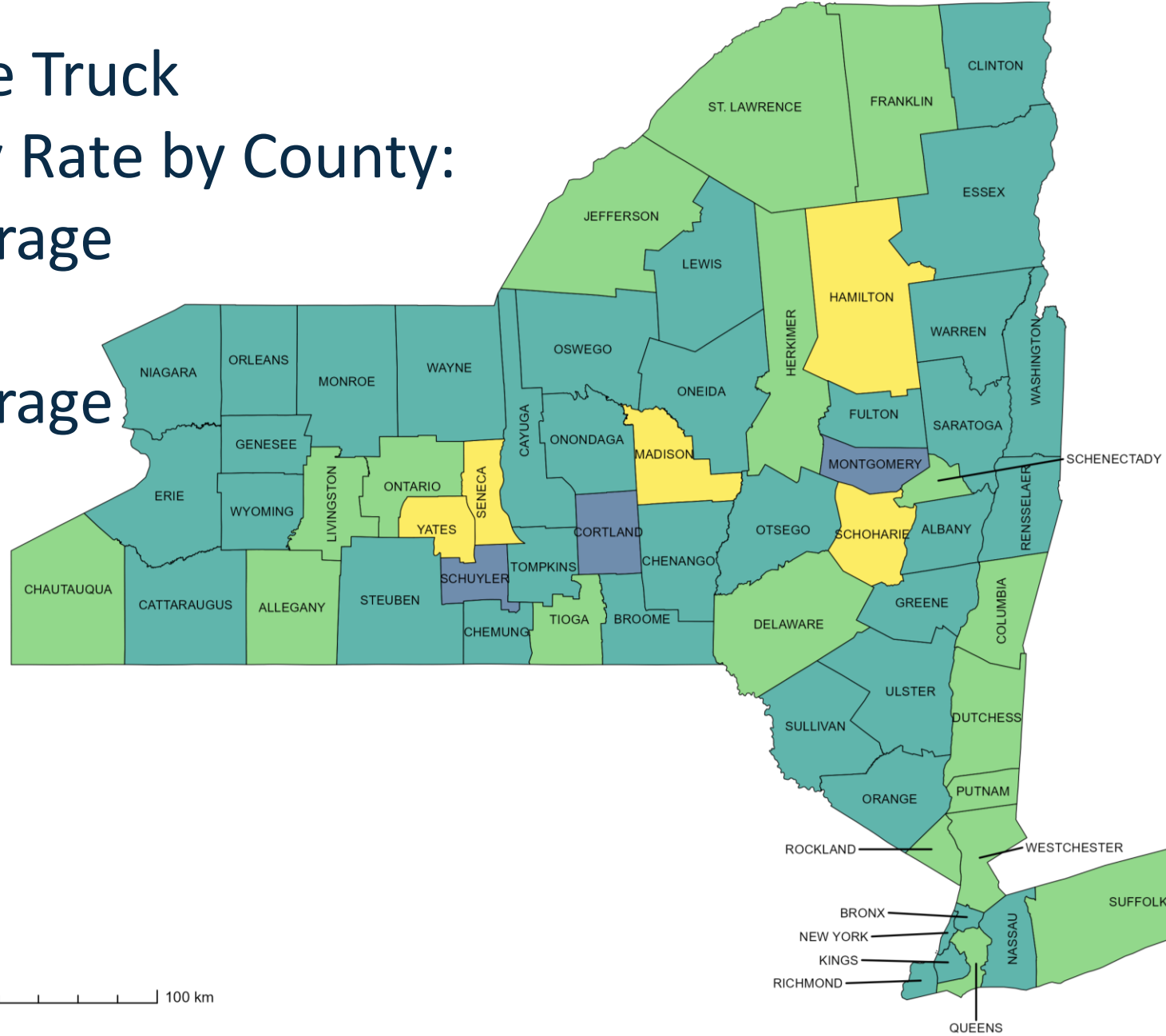
Source: NYS AIS/TSSR, FARS

New York Large Truck Fatalities: Alcohol/Drug-Related Drivers



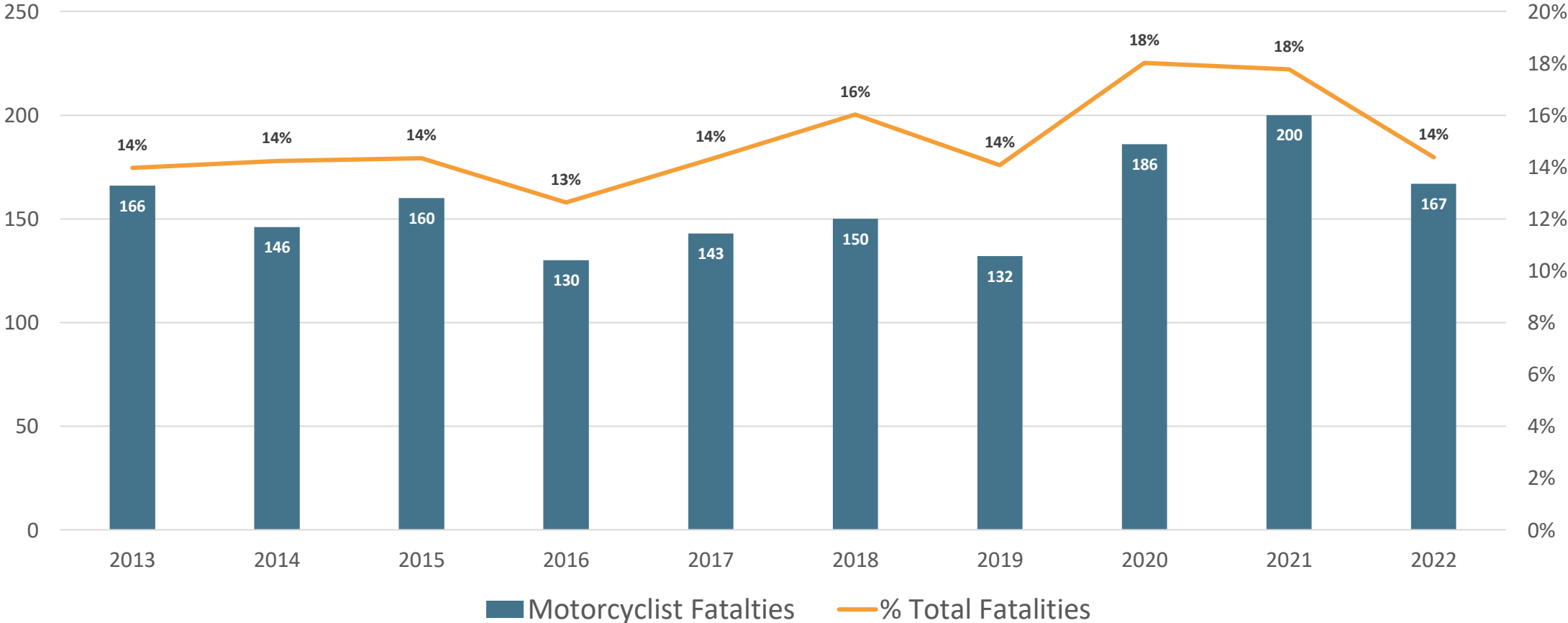
Source: NYS AIS

Change in Large Truck Related Fatality Rate by County: 2013-2017 Average VS 2018-2022 Average



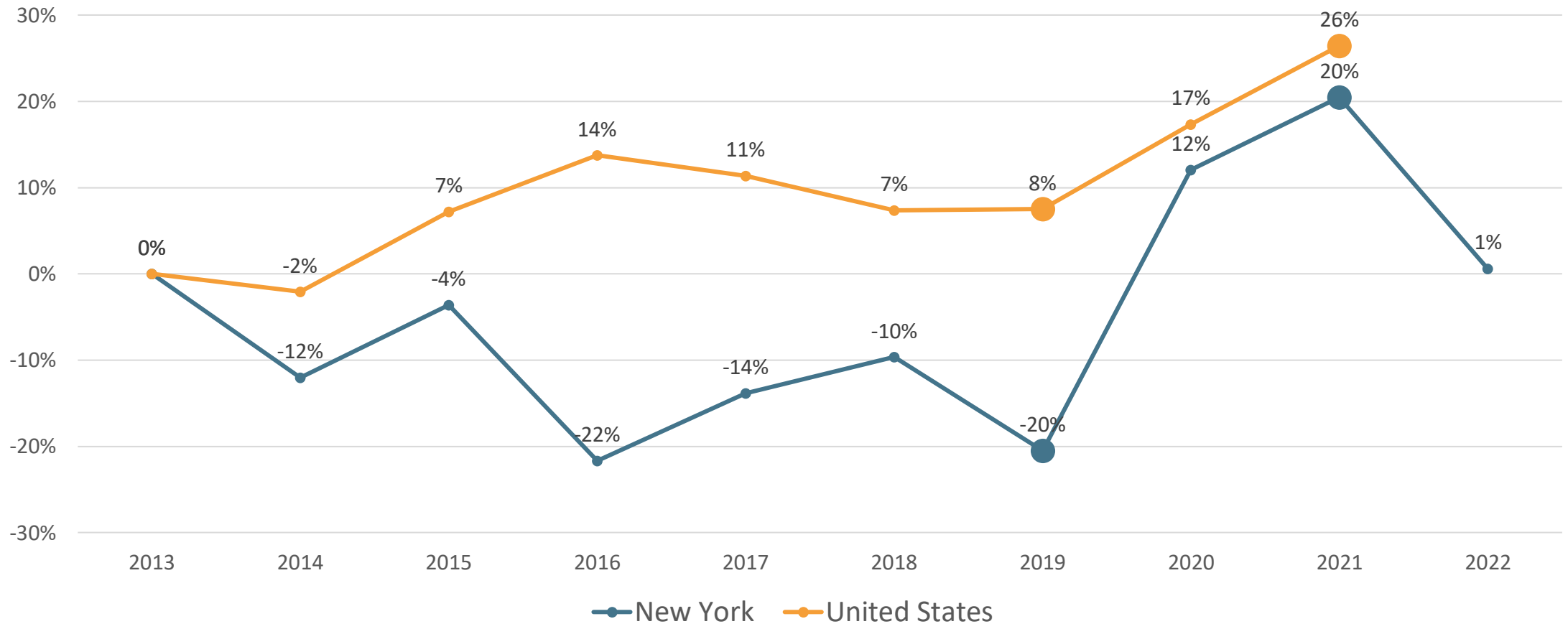
Source: NYS AIS/TSSR

New York Motorcyclist Fatalities



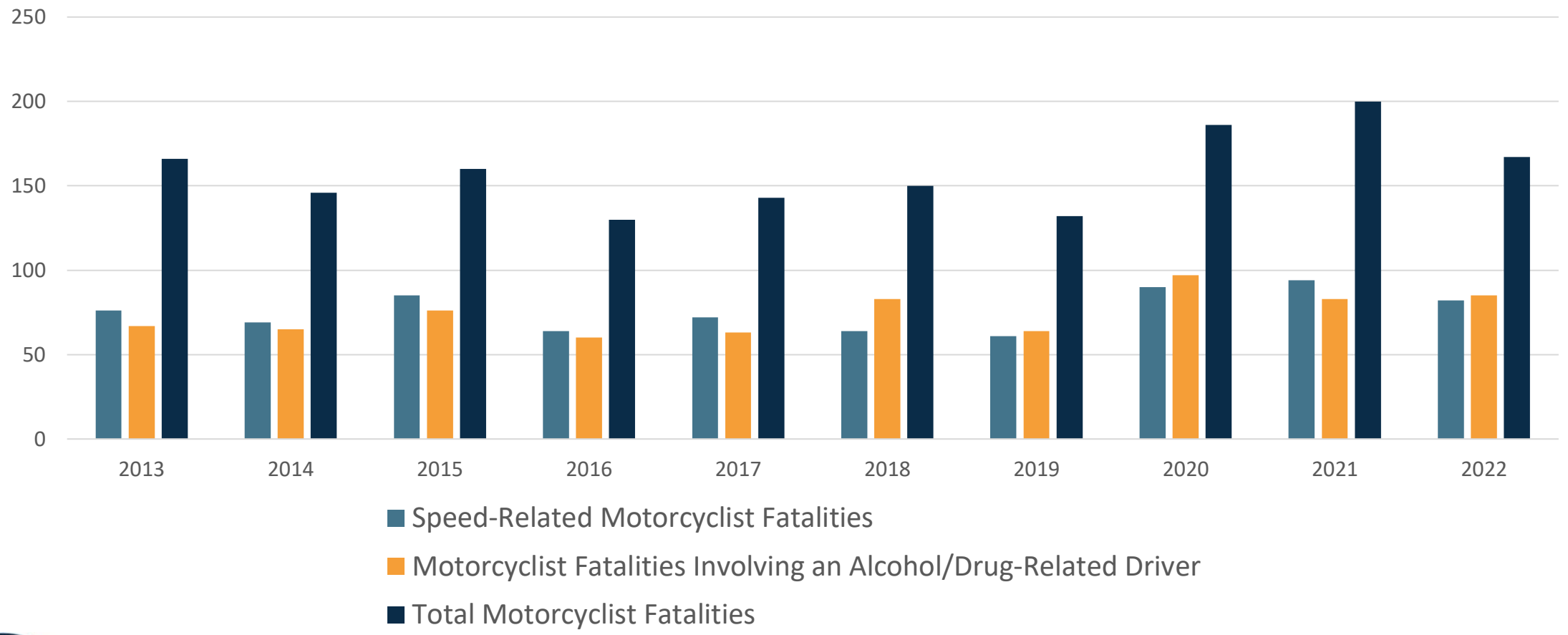
Source: NYS AIS/TSSR

New York vs U.S. Motorcyclist Fatalities: % Change from 2013



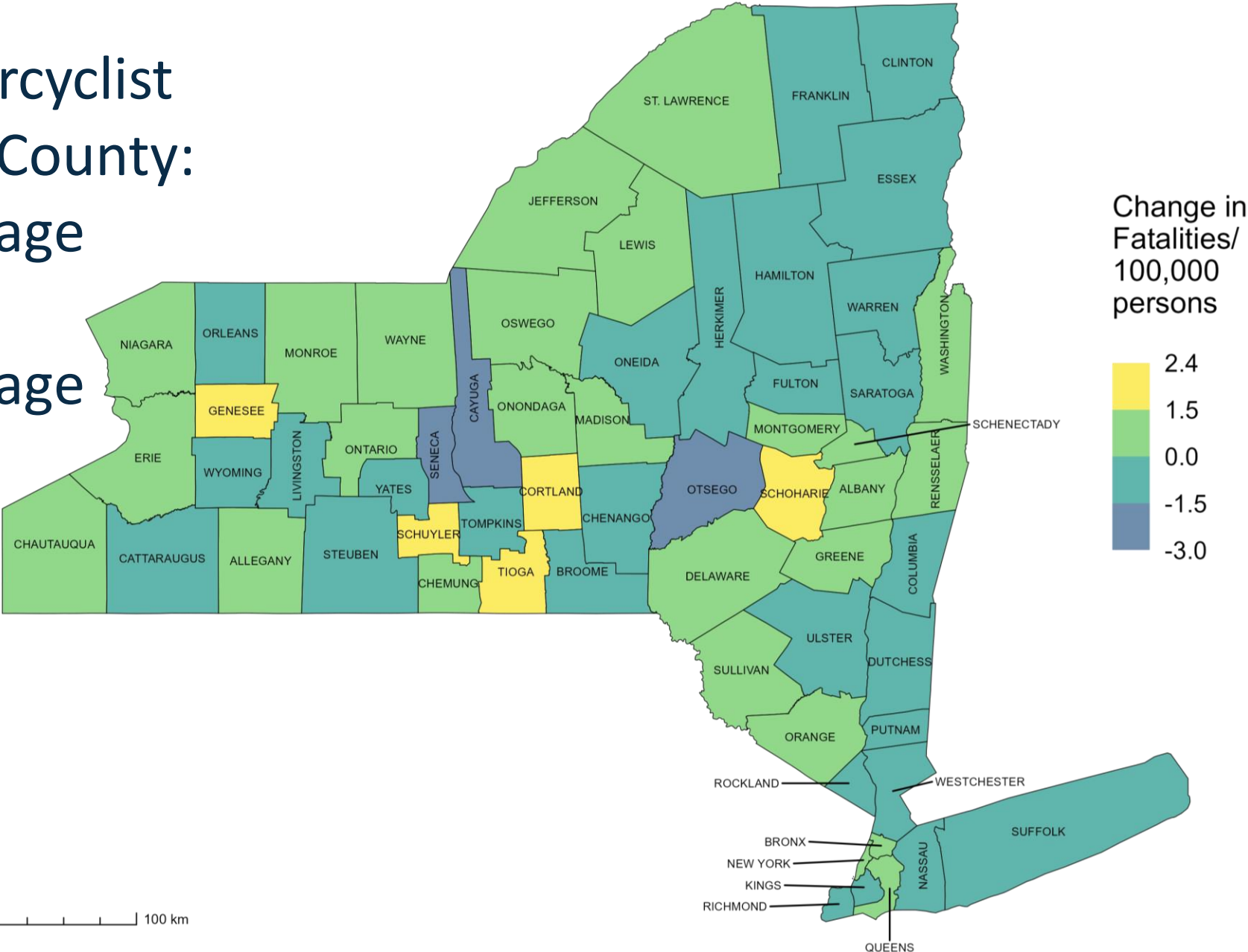
Source: NYS AIS/TSSR, FARS

New York Motorcyclist Fatalities: Speed and Substance Use



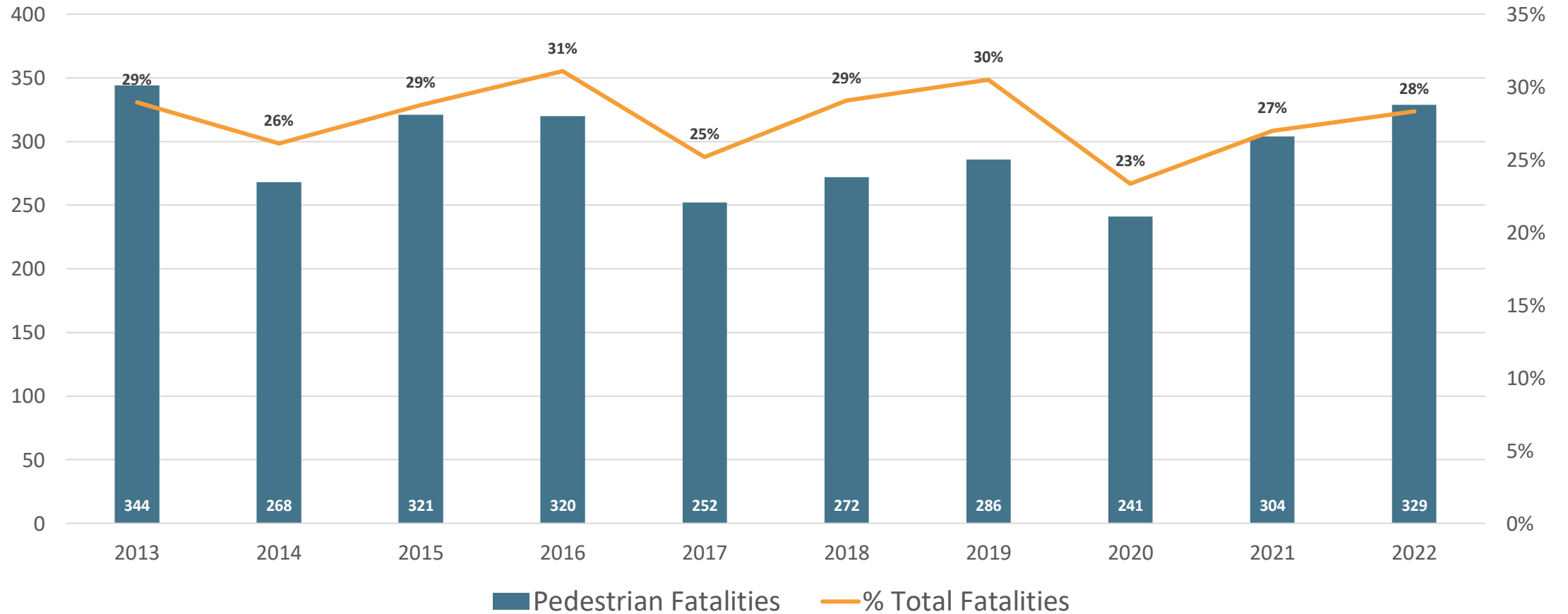
Source: NYS AIS

Change in Motorcyclist Fatality Rate by County: 2013-2017 Average vs 2018-2022 Average



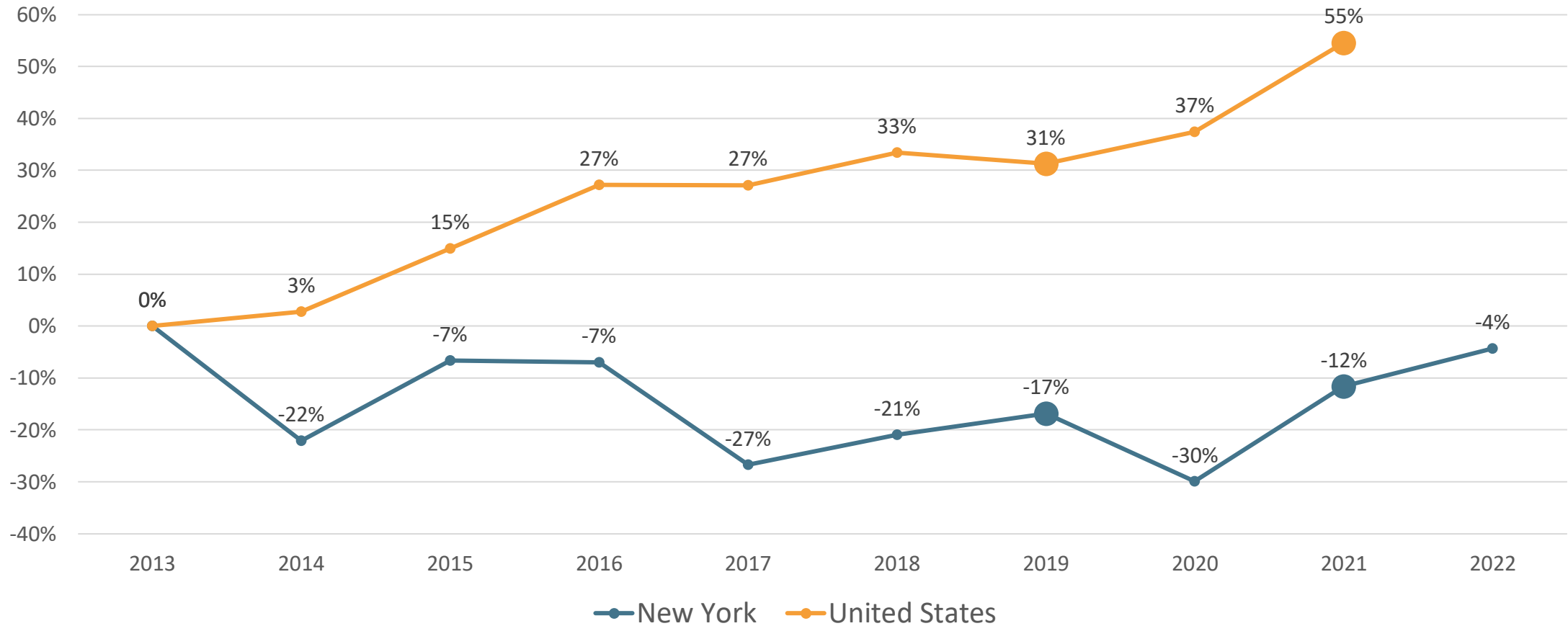
Source: NYS AIS/TSSR

New York Pedestrian Fatalities



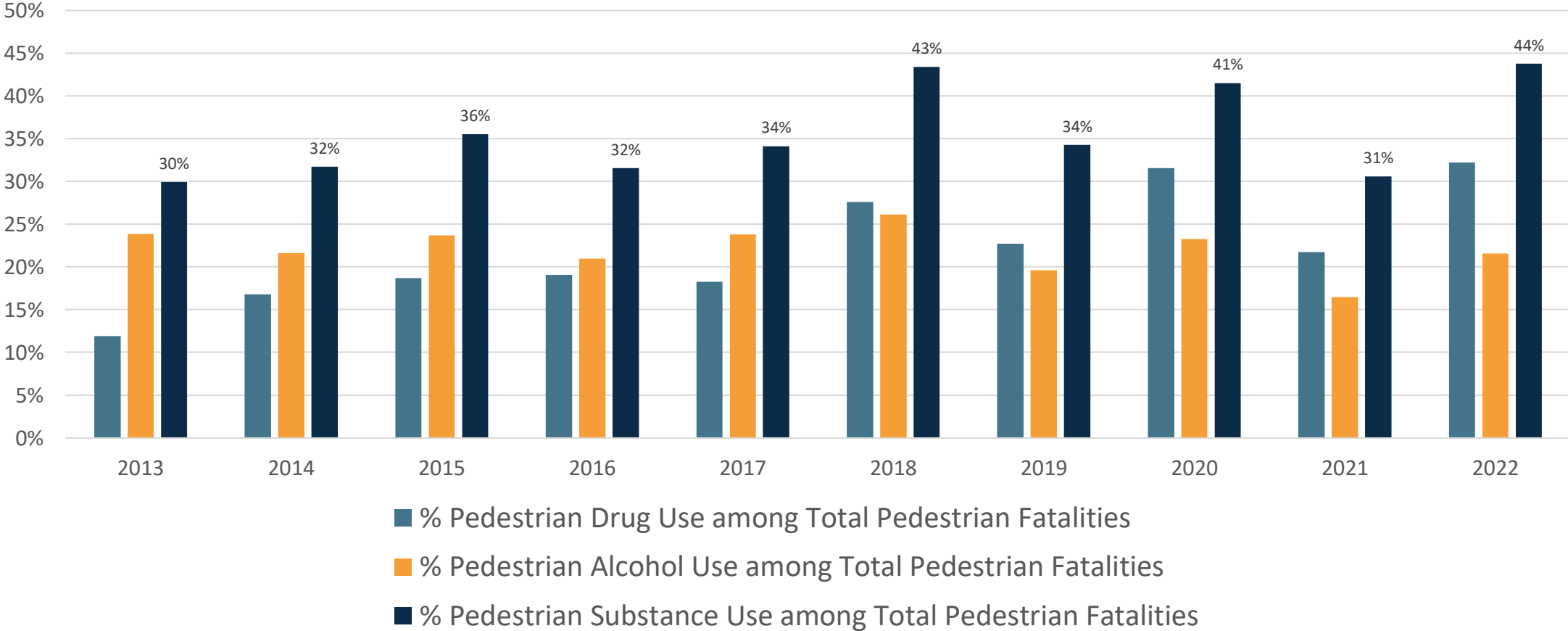
Source: NYS AIS/TSSR

New York vs U.S. Pedestrian Fatalities: % Change from 2013



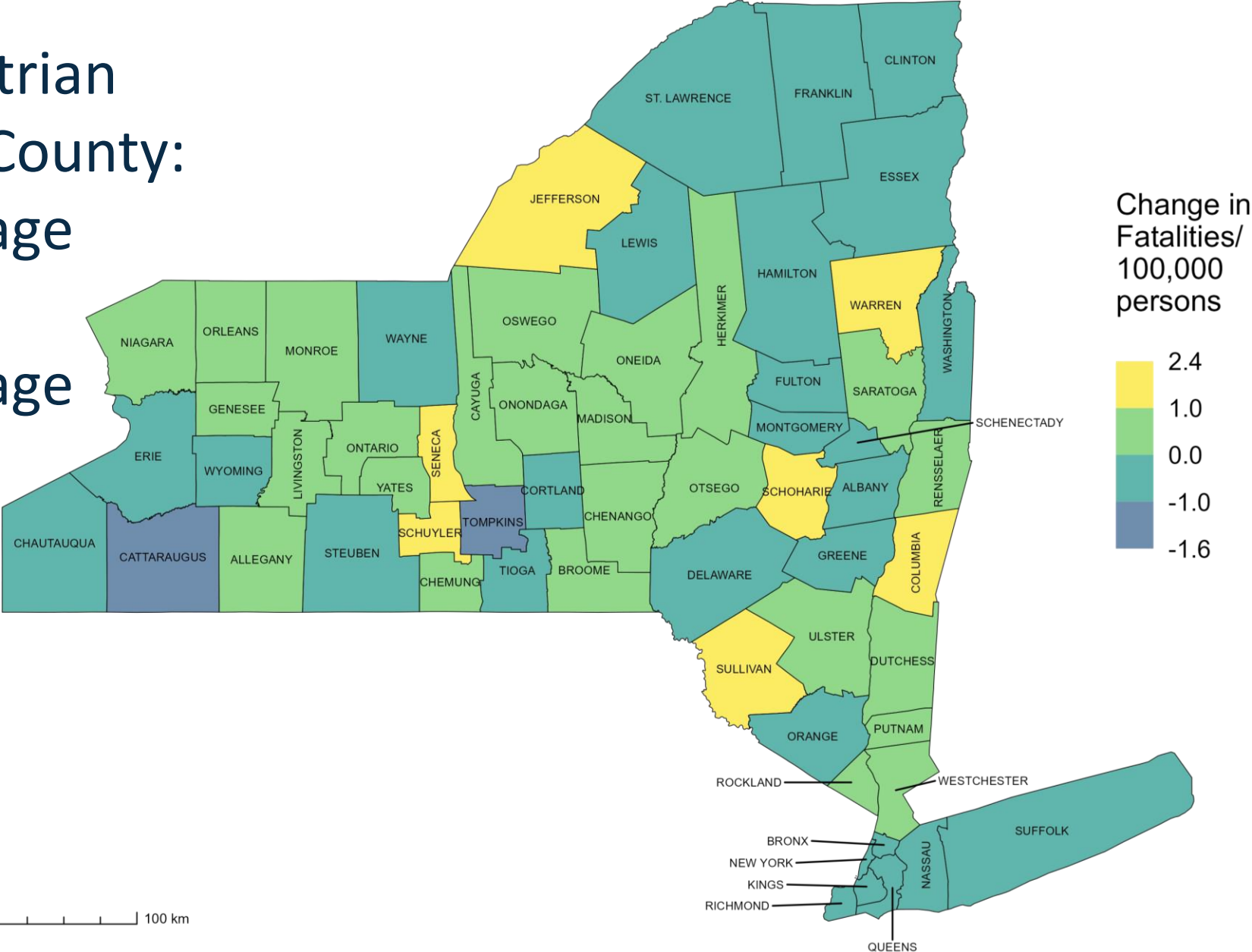
Source: NYS AIS/TSSR, FARS

New York Pedestrian Fatalities: Pedestrian Substance Use



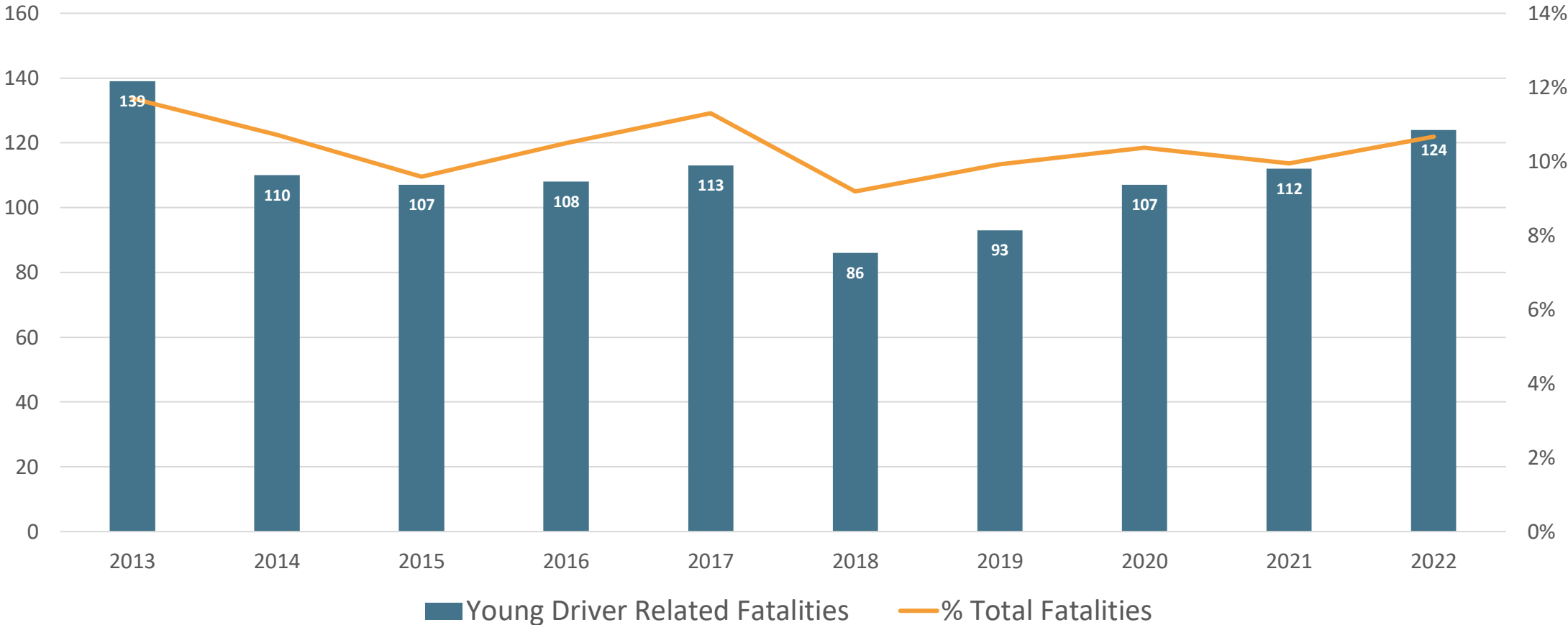
Source: NYS AIS

Change in Pedestrian Fatality Rate by County: 2013-2017 Average VS 2018-2022 Average



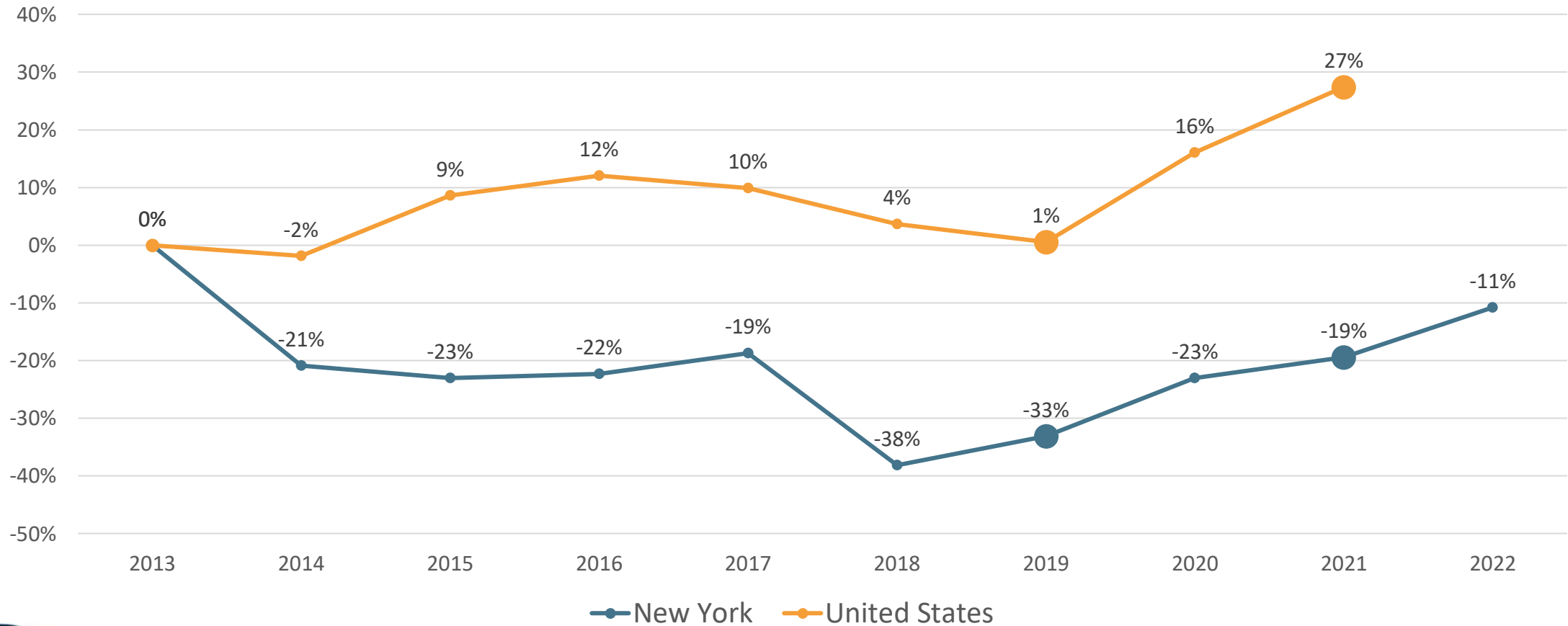
Source: NYS AIS/TSSR

New York Fatalities Involving a Young Driver (16-20)



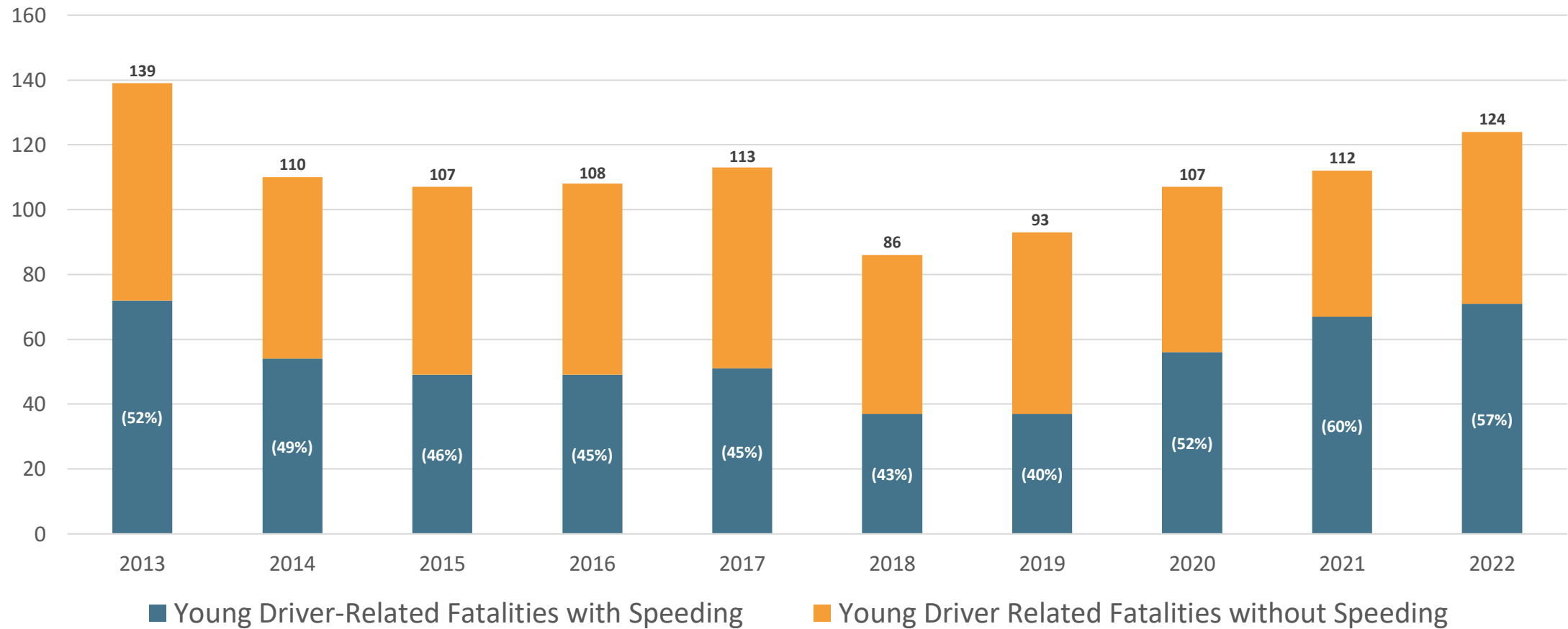
Source: NYS AIS/TSSR

New York vs U.S. Fatalities Involving a Young Driver: % Change from 2013



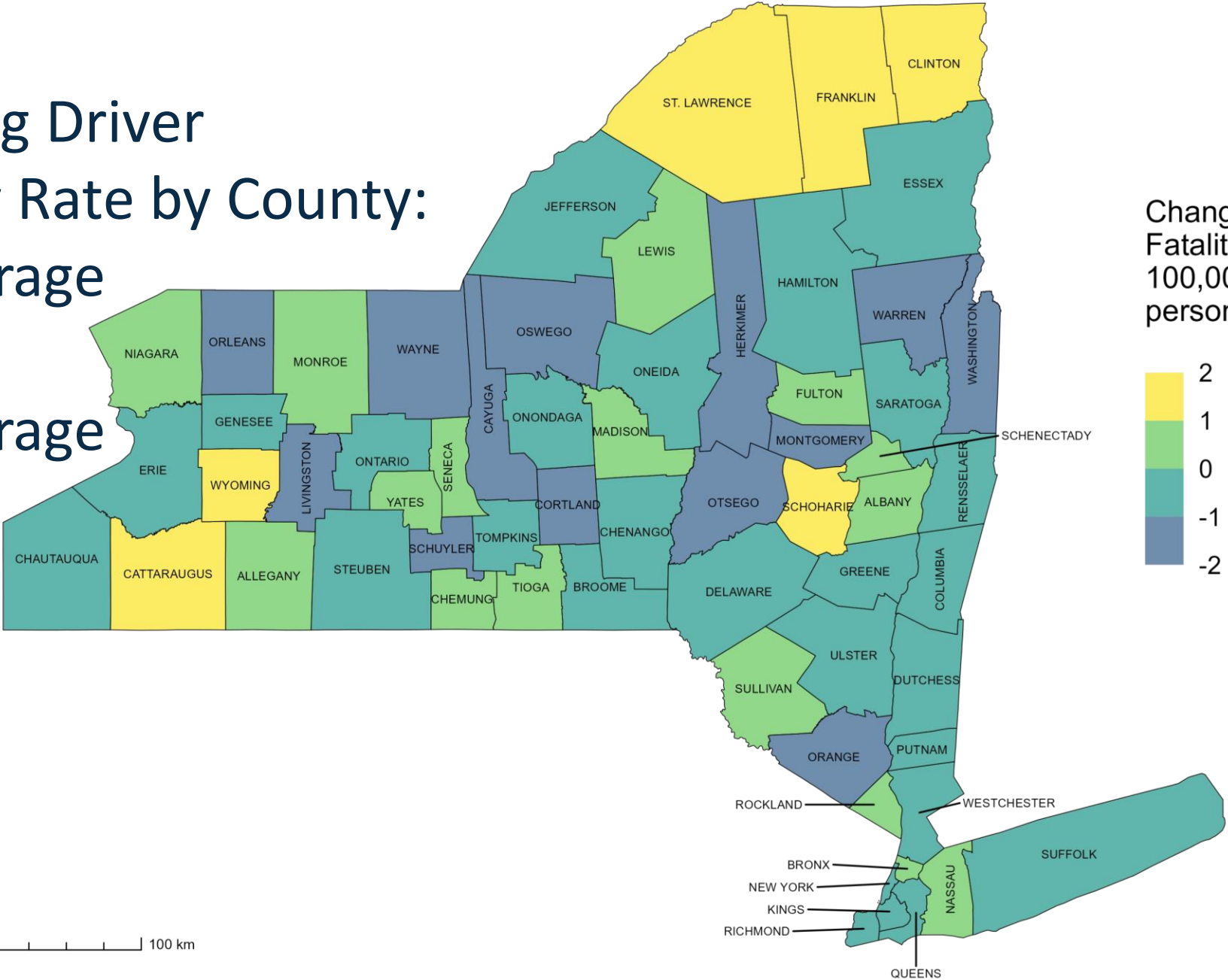
Source: NYS AIS/TSSR, FARS

New York Fatalities Involving a Young Driver: Speed-Related



Source: NYS AIS

Change in Young Driver Related Fatality Rate by County: 2013-2017 Average VS 2018-2022 Average

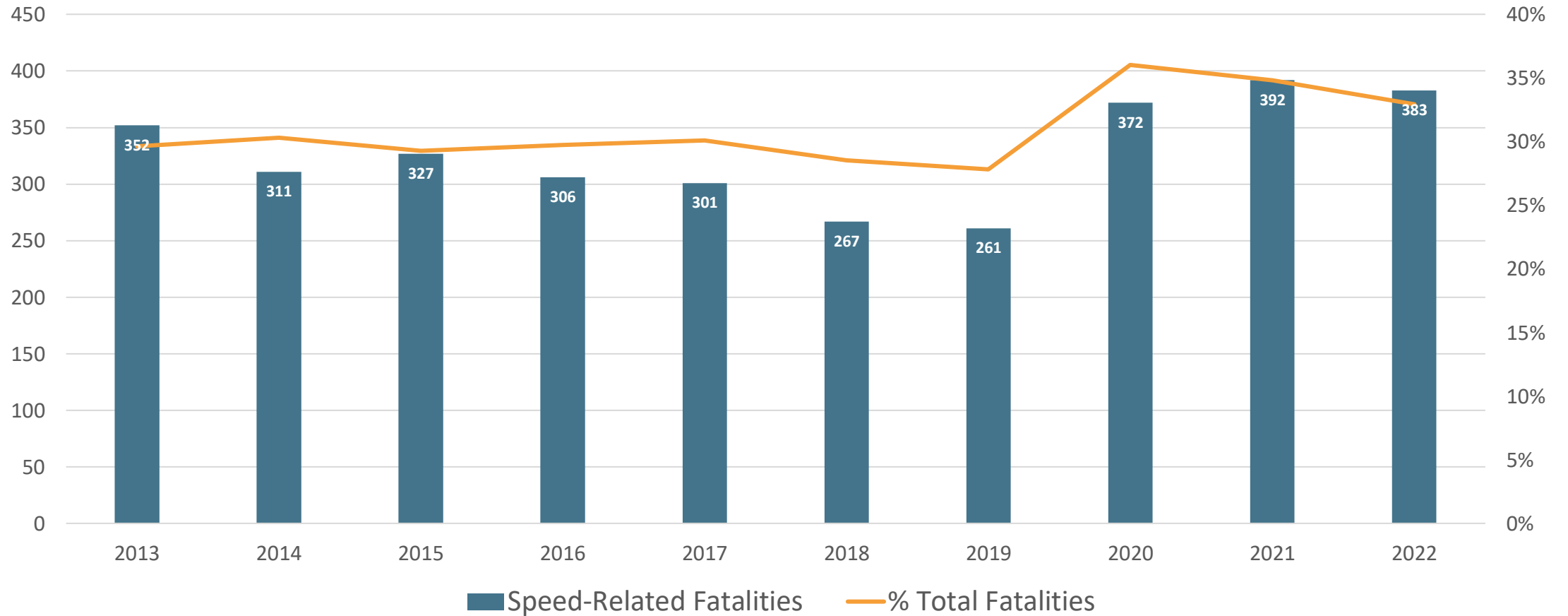


Source: NYS AIS/TSSR

Areas of Greatest Concern

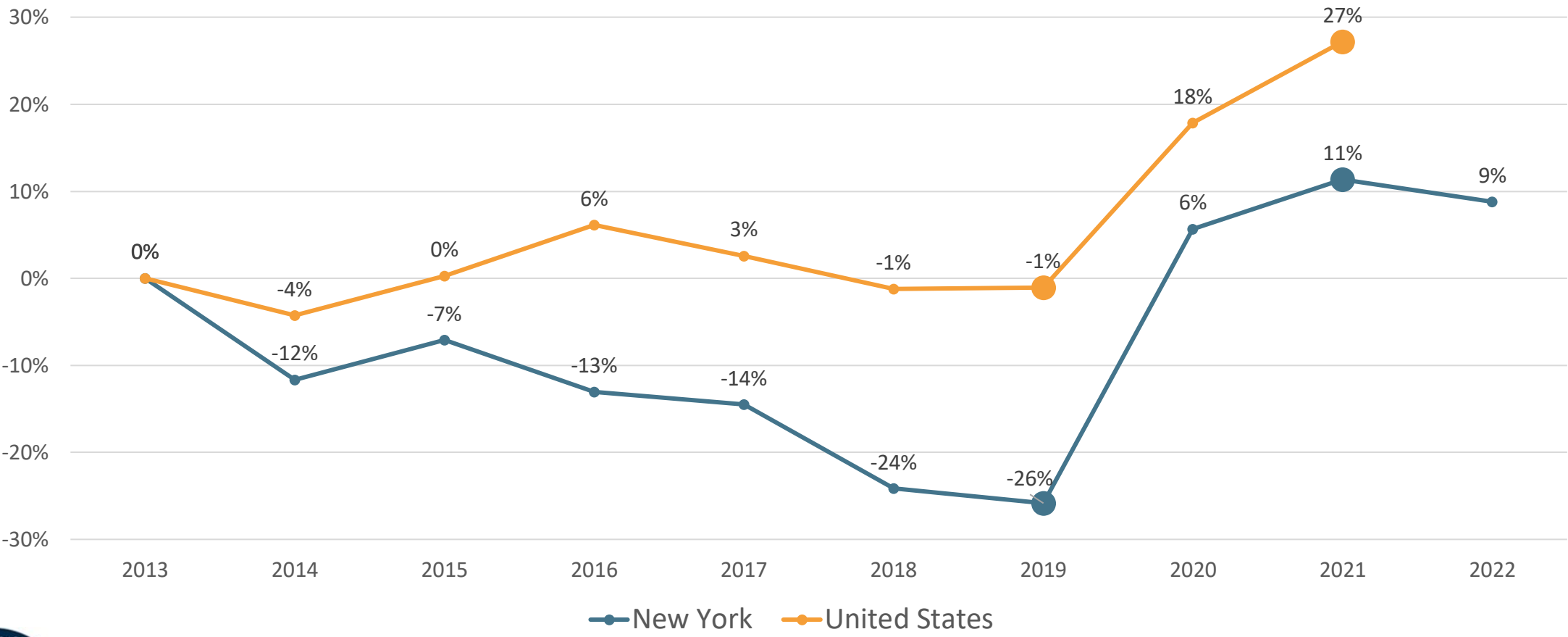


New York Speed-Related Fatalities



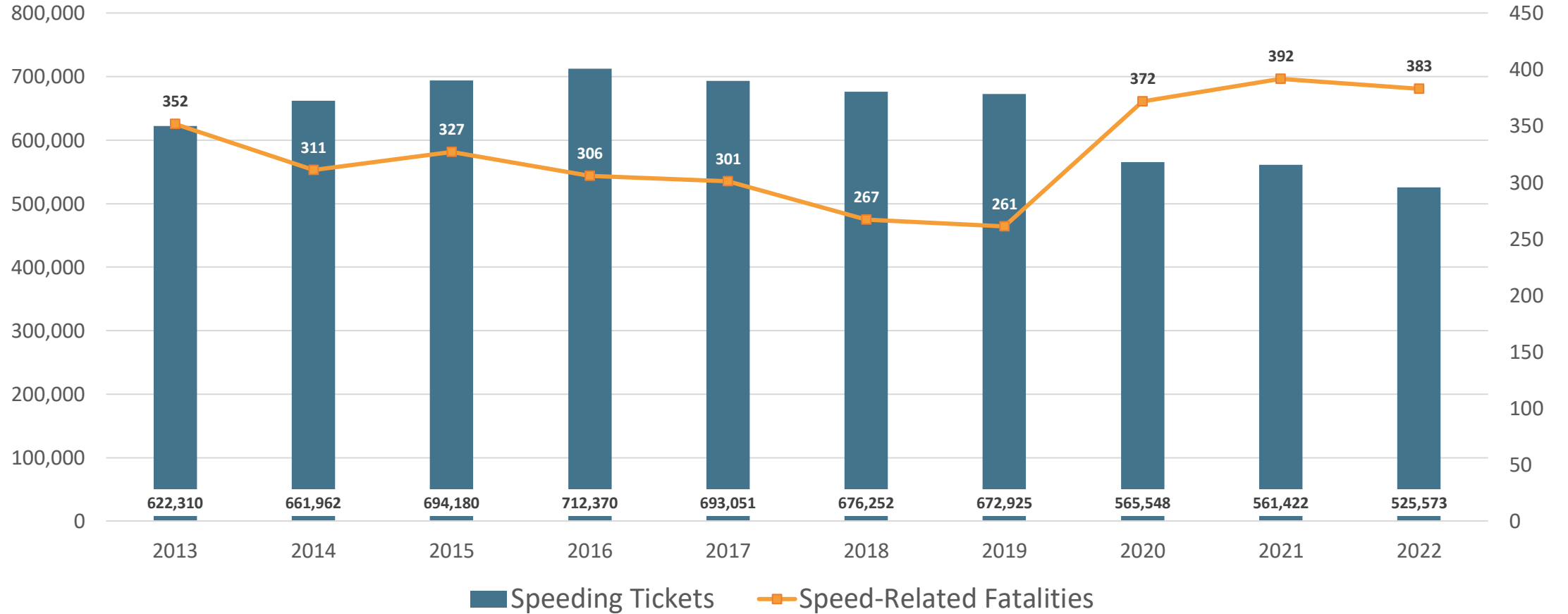
Source: NYS AIS/TSSR

New York vs U.S. Speed-Related Fatalities: % Change from 2013



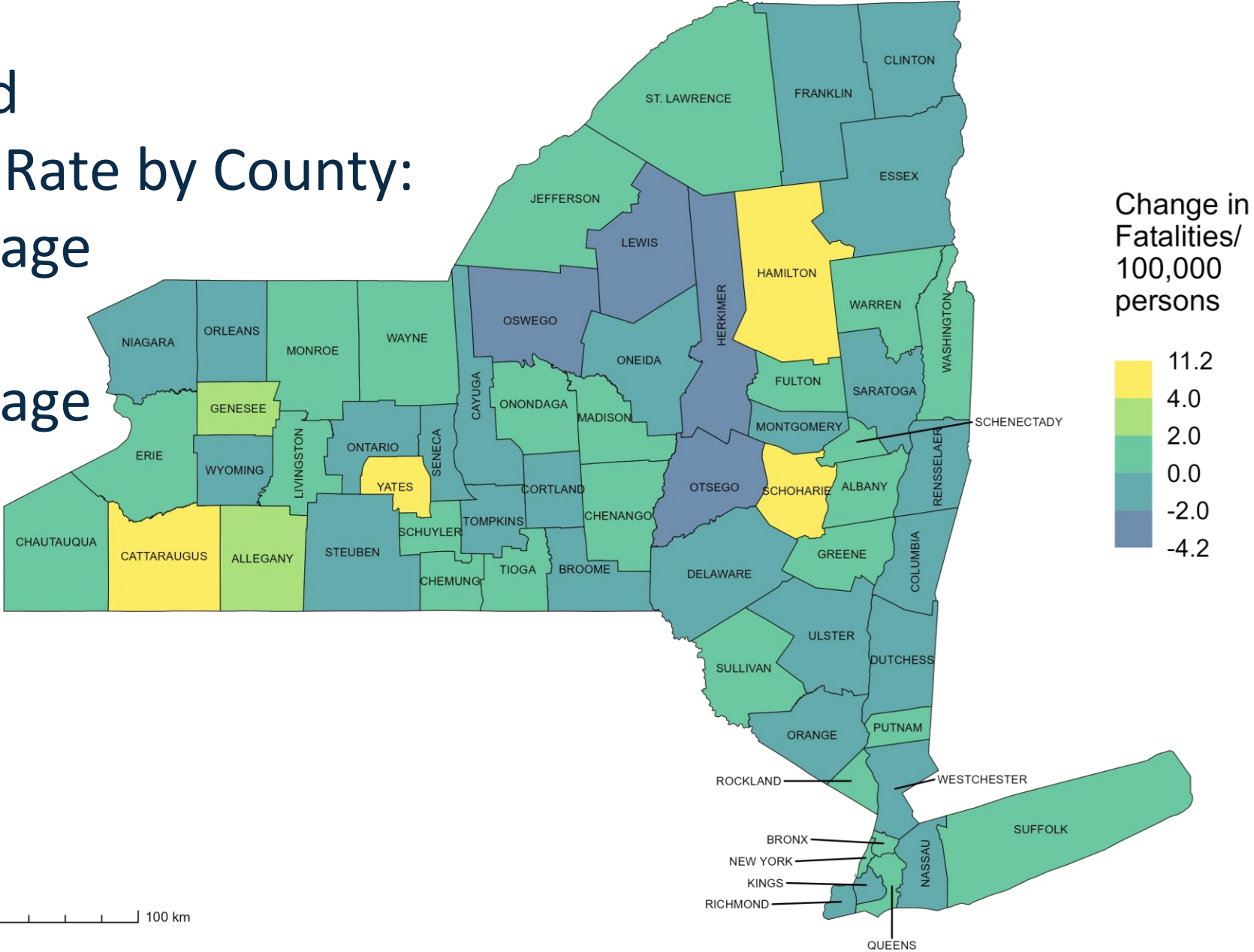
Source: NYS AIS/TSSR, FARS

New York Speeding Tickets



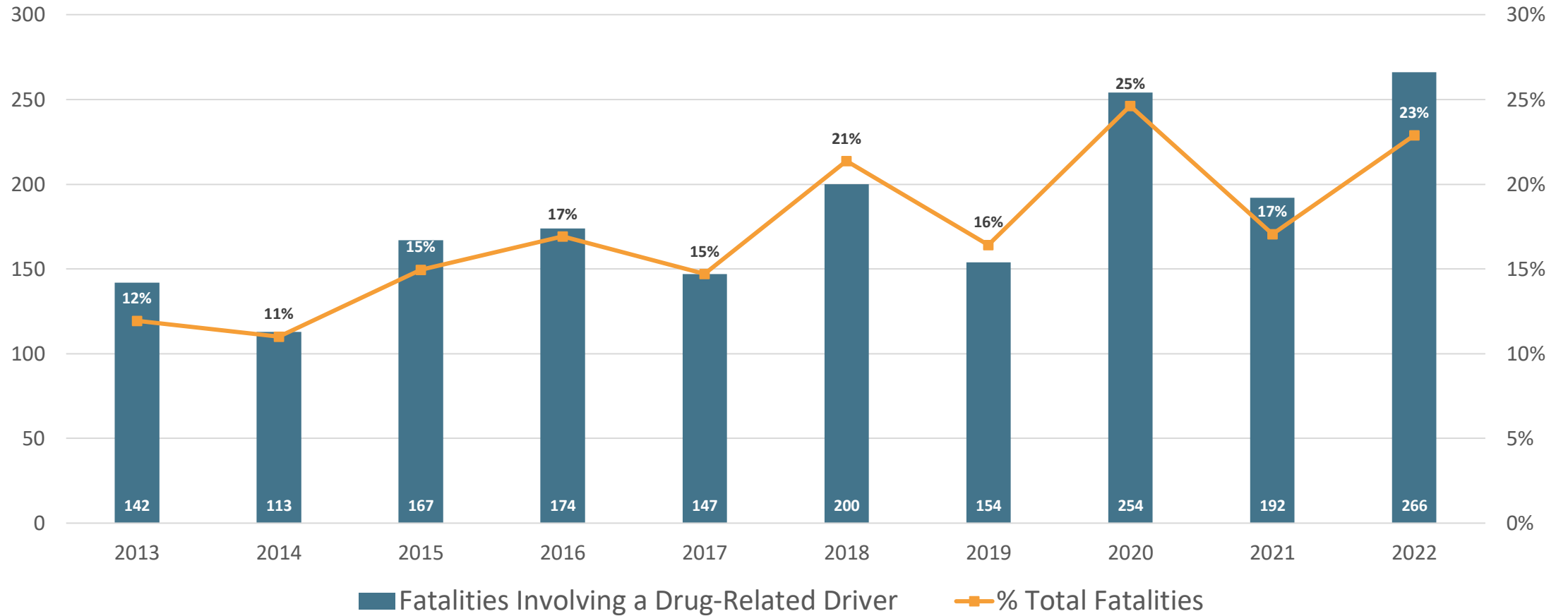
Source: TSLED & AA/TSSR, NYS AIS/TSSR

Change in Speed Related Fatality Rate by County: 2013-2017 Average VS 2018-2022 Average



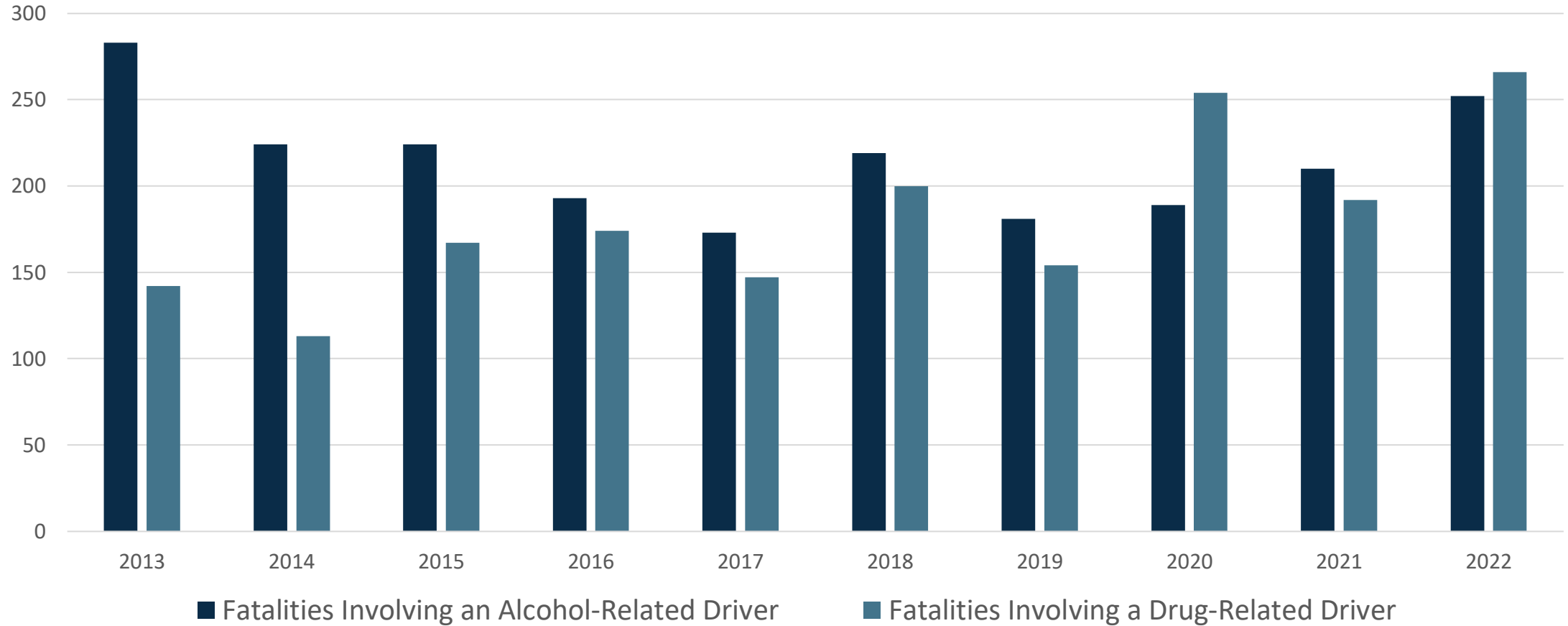
Source: NYS AIS/TSSR

New York Fatalities Involving a Drug-Related Driver



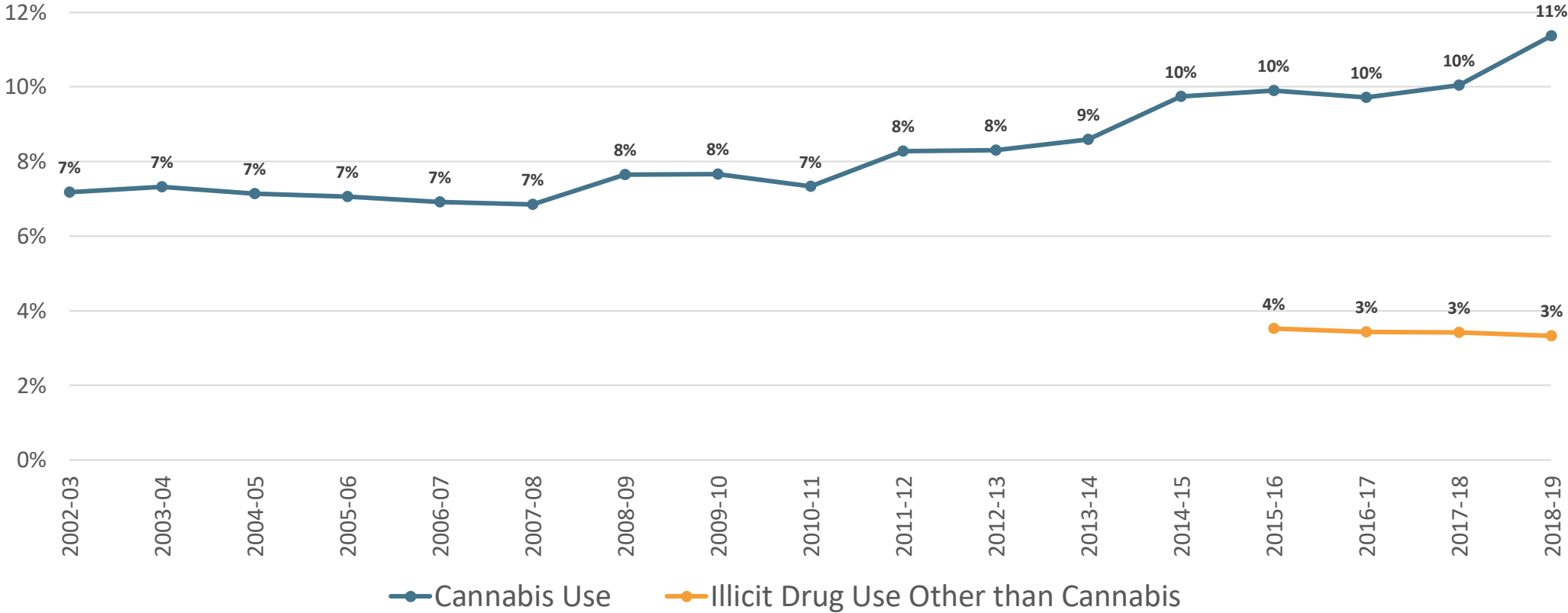
Source: NYS AIS

New York Fatalities Involving Drug-Related vs. Alcohol-Related Drivers



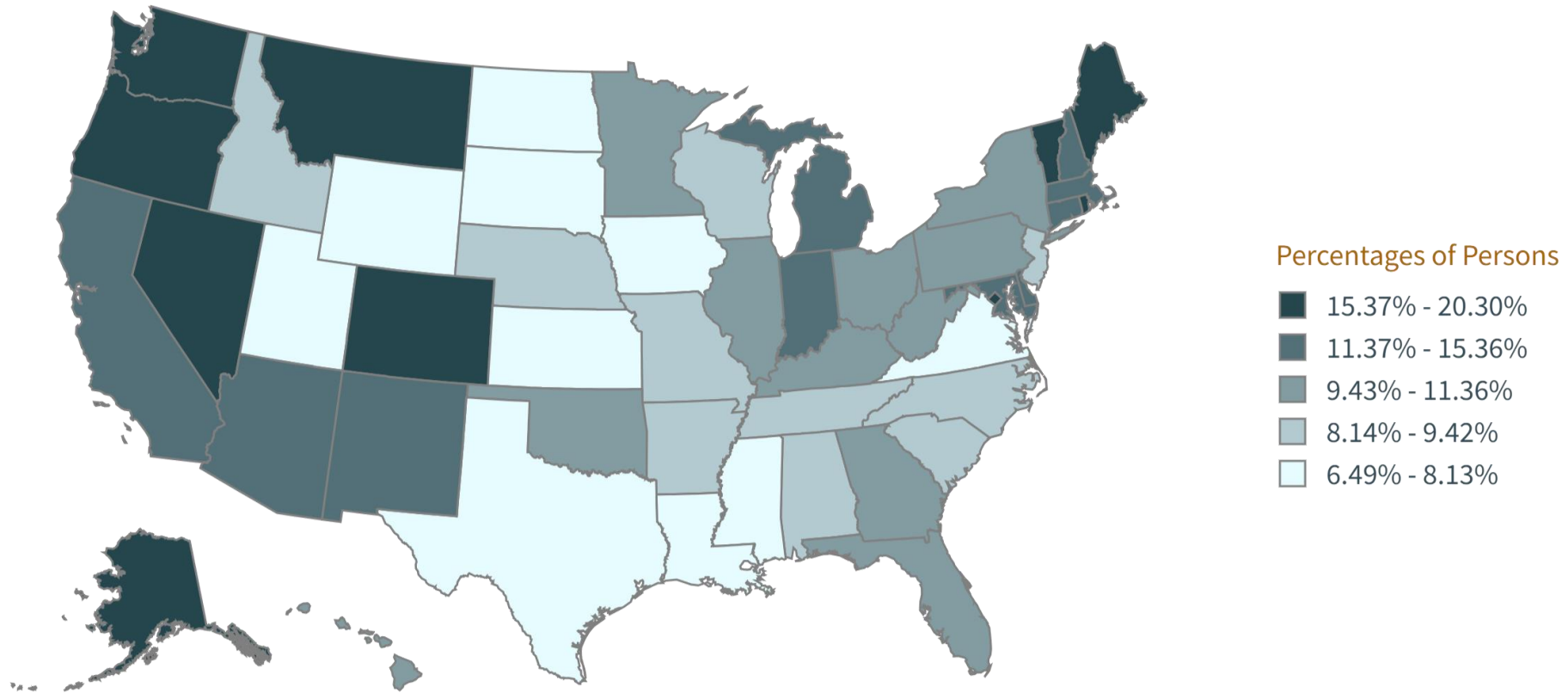
Source: NYS AIS

New York Prevalence of Adult Cannabis Use Self-Reported – Past Month



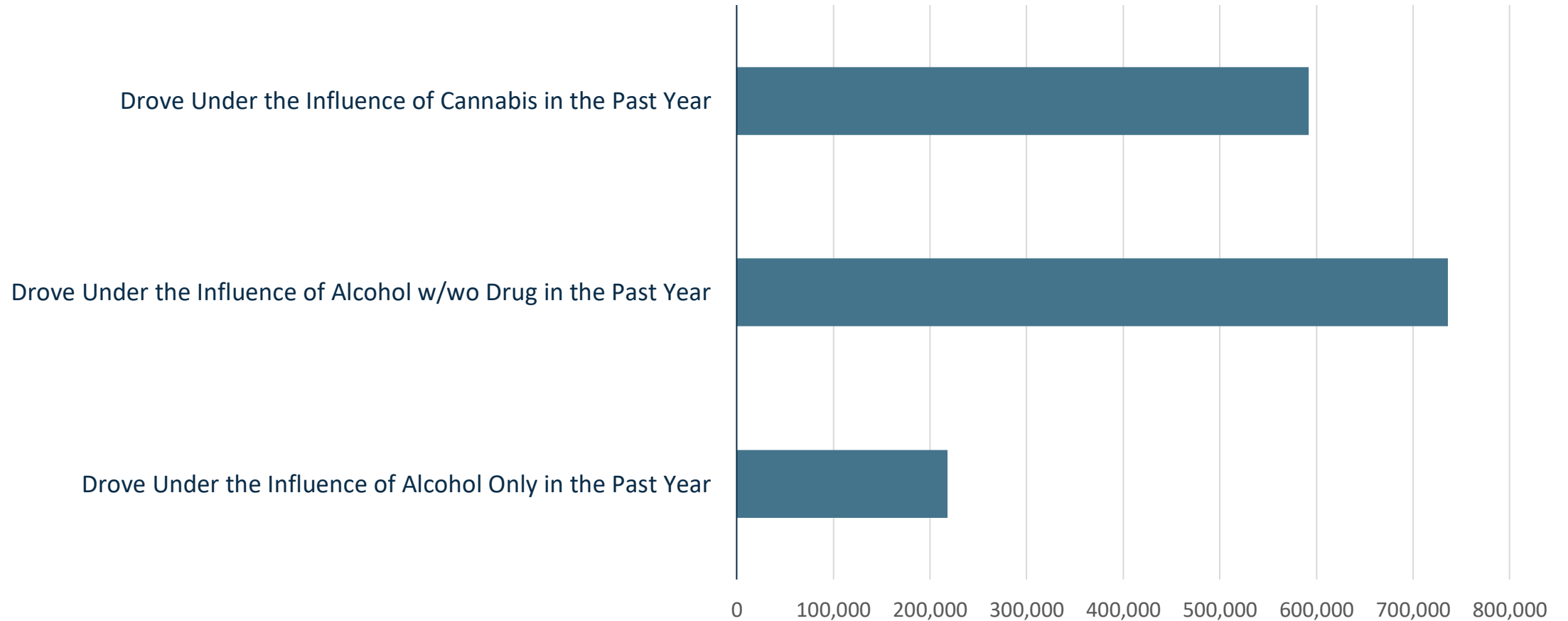
Source: National Survey of Drug Use and Health

Prevalence of Adult Cannabis Use by State Self-Reported – Past Month 2018 - 2019



Source: National Survey of Drug Use and Health

New York Impaired Driving Population Self Reported 2018-2019



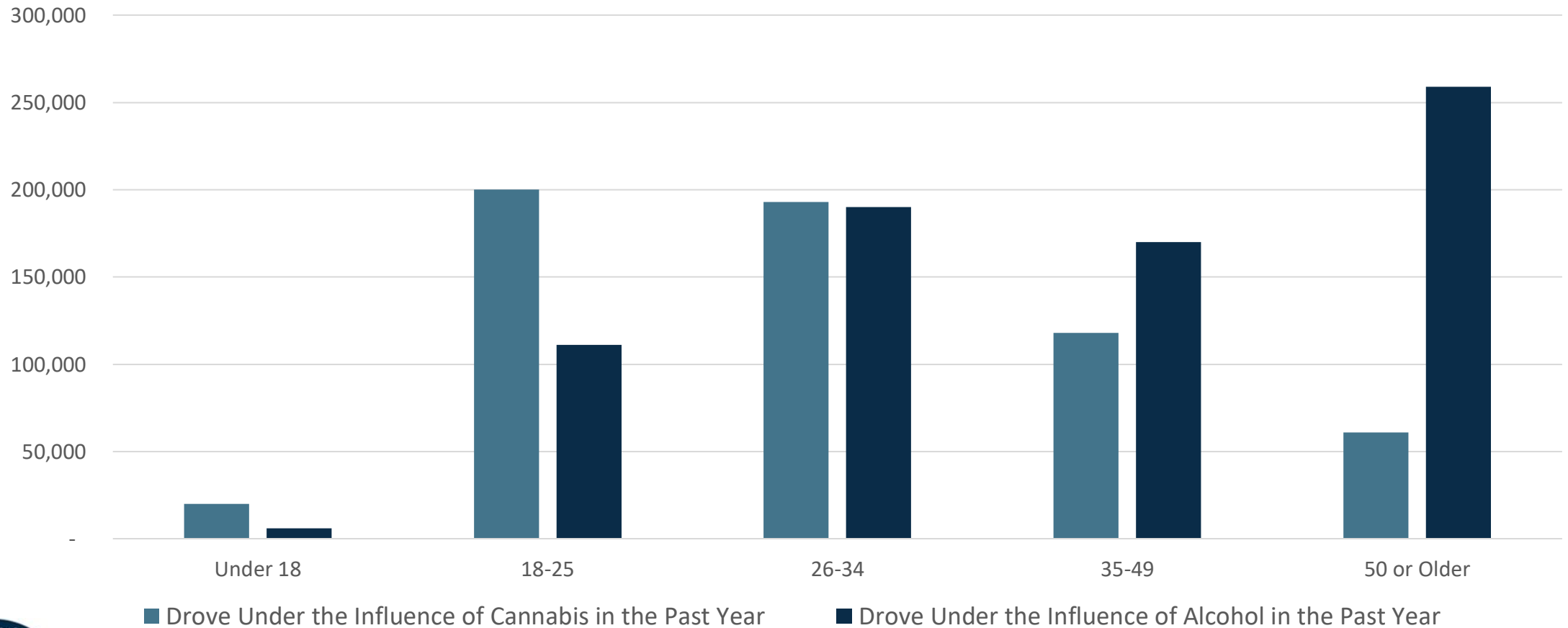
Source: National Survey of Drug Use and Health

Key Takeaways

- Prior to the legalization of cannabis in New York, driving under the influence of cannabis was **three times** more prevalent than driving under the influence of alcohol only.
- Driving under the **combined influence of alcohol and drugs** was more prevalent than driving under the influence of alcohol only.

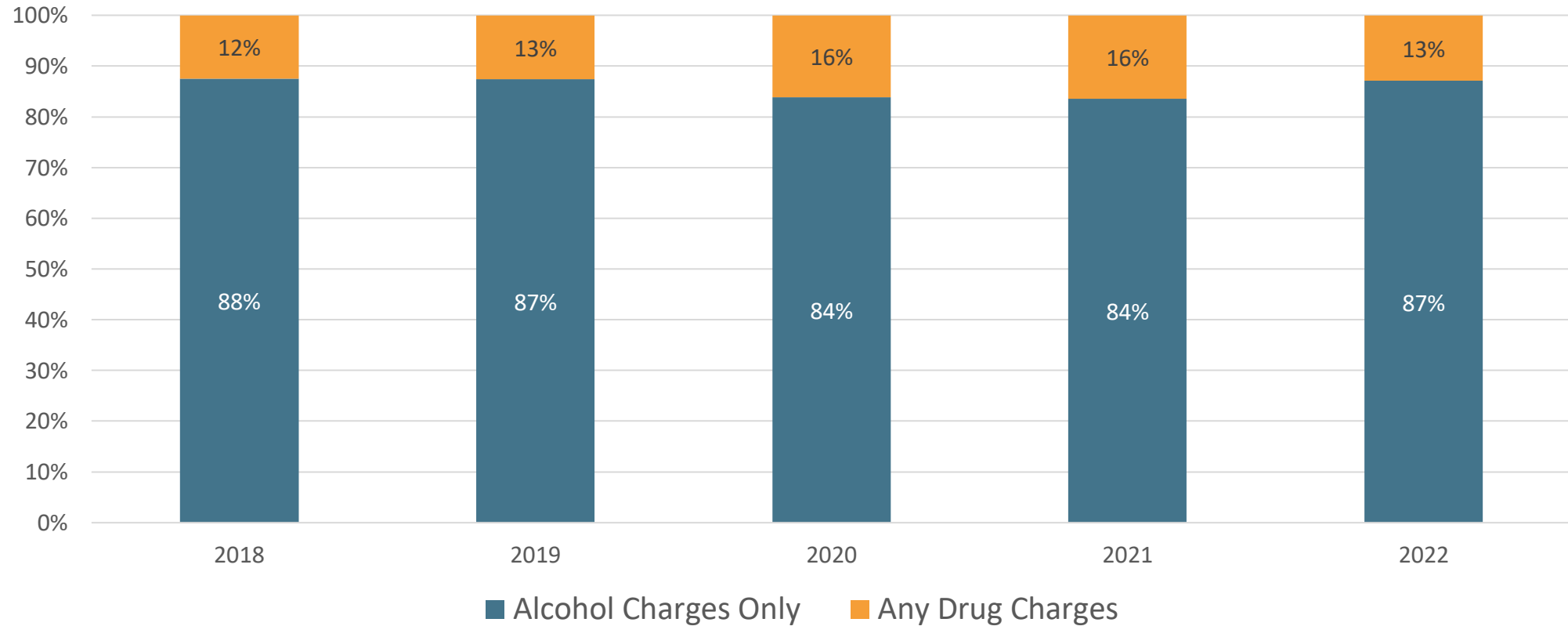


New York Impaired Driving Population by Age Self Reported 2018-2019



Source: National Survey of Drug Use and Health

New York Drivers Arrested for Impaired Driving by Charges



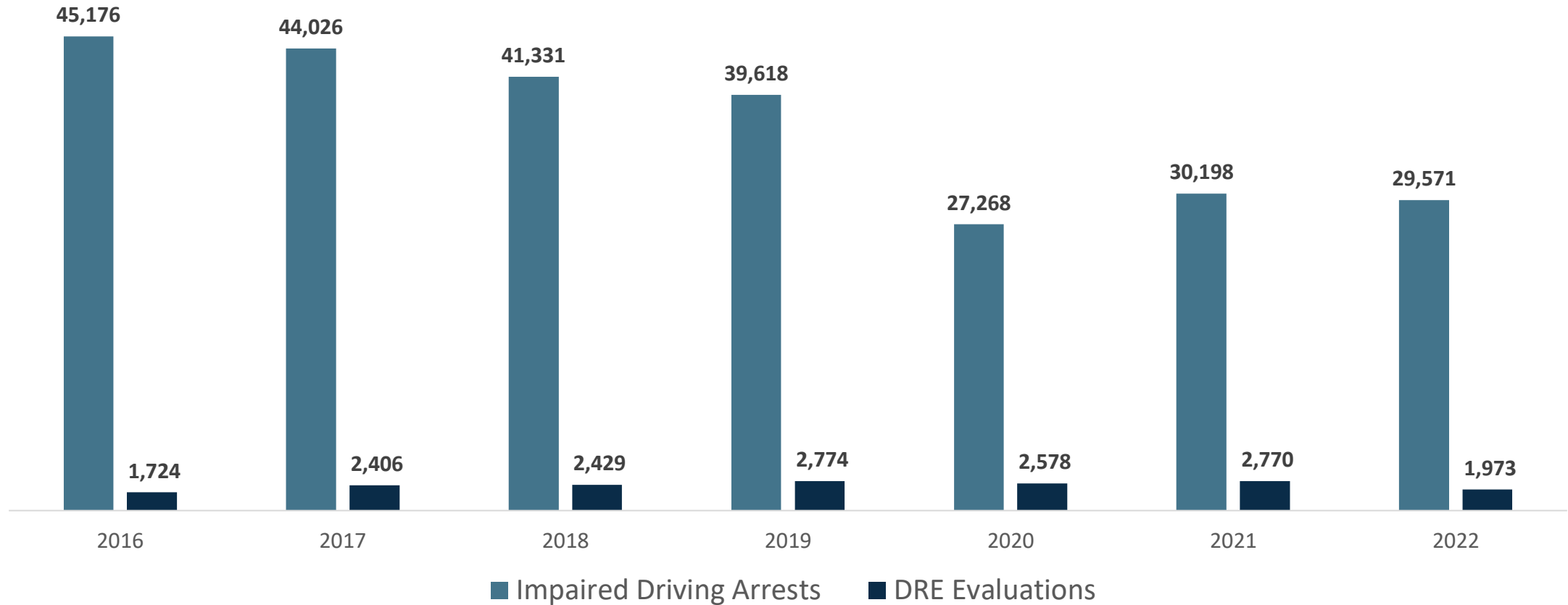
Source: TSLED/TSSR

Gaps in impaired driving data

- In 2016, a year with **45,176** impaired-driving arrests statewide, **4,903 (10.8%)** of all impaired cases were submitted for drug testing (TWG, 2016).
- Of the **4,903** drug impaired cases, **1,724 (35%)** DRE evaluations were conducted.
- Without sufficient drug testing or drug impairment evaluations, it is unclear how many of the impaired driving arrests are associated with recent drug use.
- The lack of drug testing or drug-impairment evaluations leads to under-reporting.
- A Statewide Toxicology Database is being developed by ITSMR.

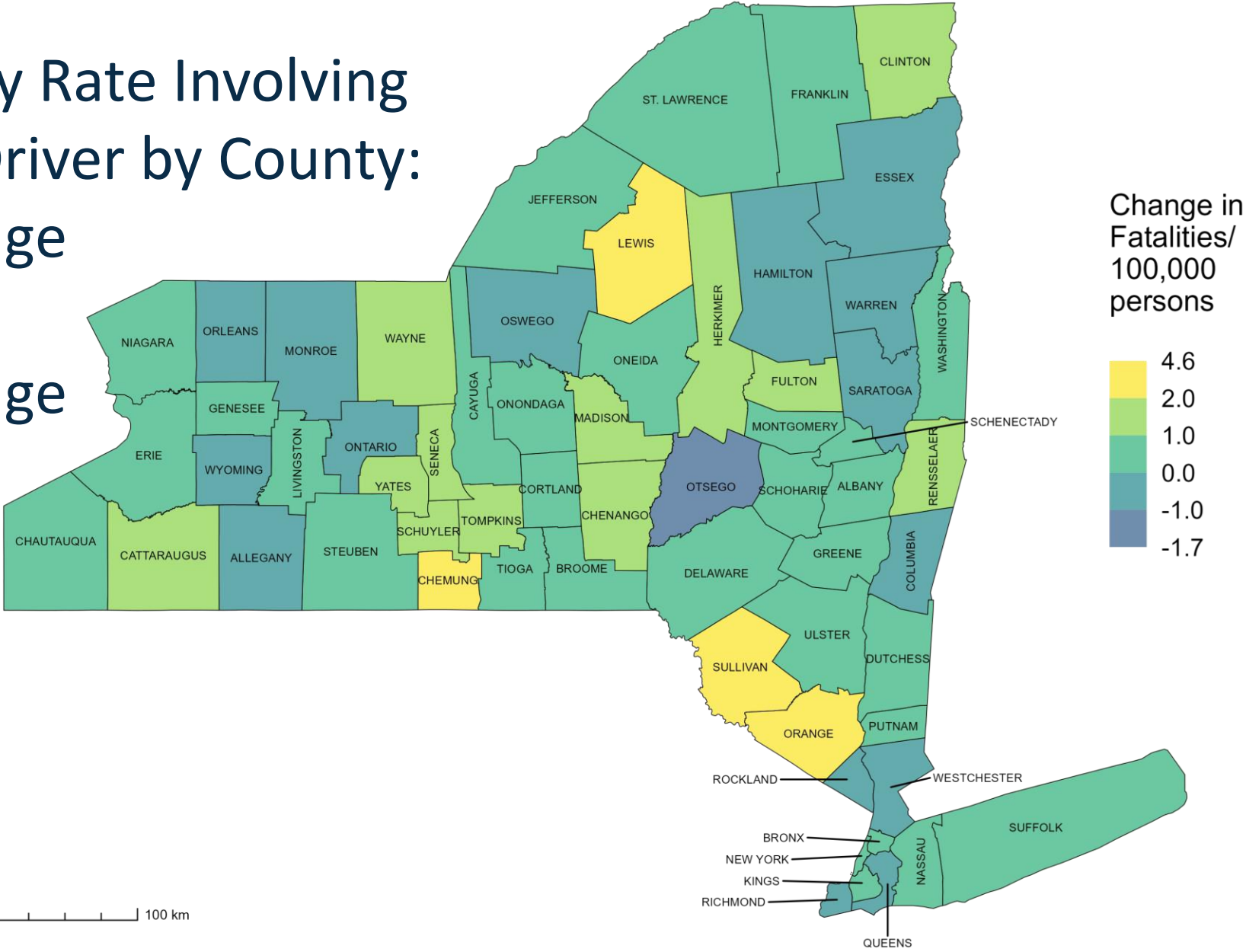


New York Impaired Driving Arrests vs. DRE Evaluations



Source: TSSR, NYS DRE Database

Change in Fatality Rate Involving a Drug-Related Driver by County: 2013-2017 Average VS 2018-2022 Average



Source: NYS AIS

The Report Card for the past decade is not great

“Insanity is doing the same thing over and over expecting different results”

Albert Einstein

“Progress is impossible without change; and those who cannot change their minds cannot change anything.”

George Benard Shaw



We have the will and the wherewithal

- New York is full of dedicated, smart, passionate traffic safety professionals.
- Think outside the box. We need different ideas for a different result.
- Take advantage of technology.
- Society changes over time... so must our approach, our laws, and our technology.



Jerry Miller
Institute for Traffic Safety Management & Research
University at Albany
Rockefeller College of Public Affairs & Policy

jmiller@itsmr.org
<https://www.itsmr.org>

