COMMERCIAL VEHICLE SAFETY PLANNING IN NEW YORK STATE

Commercial Vehicle Safety Research Summit:

Best Practices for Advancing Safety Through Partnerships with Universities

Northampton, Massachusetts

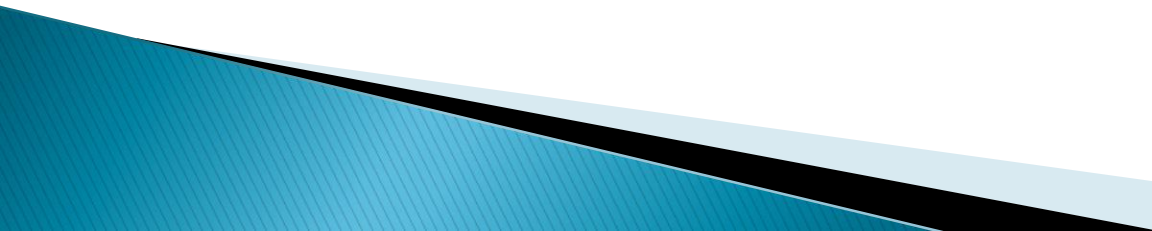November 10, 2016

Presented by

Debra Rood, Director

Institute for Traffic Safety Management and Research

Rockefeller College of Public Affairs and Policy

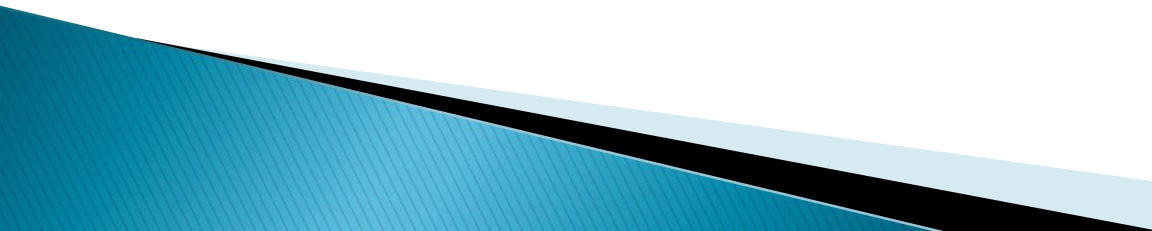University at Albany, State University of New York

Background on ITSMR

- Established in 1978

- Link between state government and university expertise and resources

- Governor's Traffic Safety Committee

- NYS Department of Transportation

Expansion of ITSMR's Role in Highway Safety

- STOP-DWI

- Mandatory Seat Belt Law

- Performance-Based Planning

- Data Sharing Agreement with DMV

Integrated Safety Planning in New York State

- Highway Safety Strategic Plan (GTSC)

- Traffic Records Strategic Plan (Traffic Records Coordinating Council)

- Commercial Vehicle Safety Plan (NYSDOT MCSAP)

- Strategic Highway Safety Plan (NYSDOT)
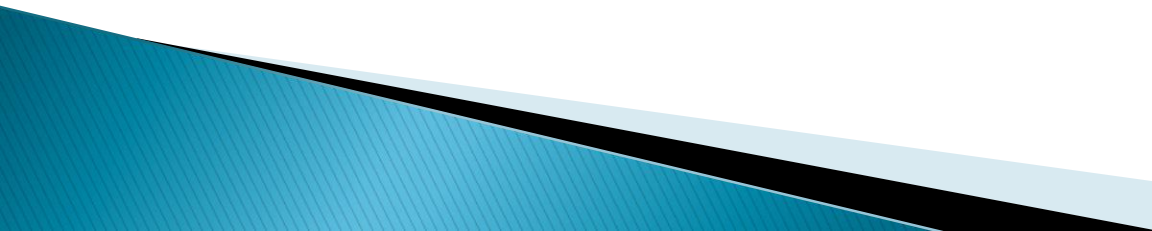
MCSAP Committee

- NYS Department of Transportation

- New York State Police

- FMCSA New York Division

- NYS Department of Motor Vehicles

- Governor's Traffic Safety Committee

- New York Motor Truck Association

- ITSMR
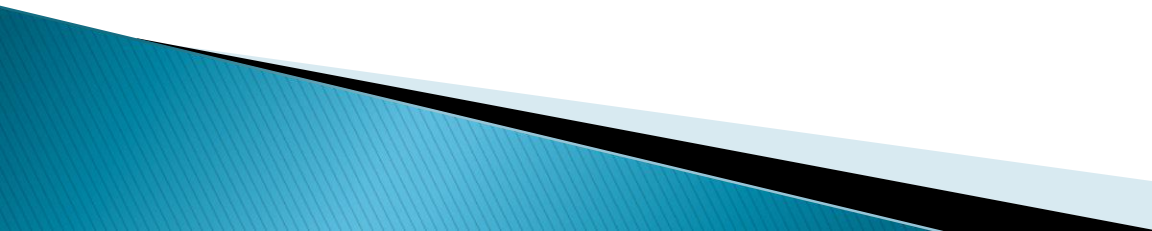
ITSMR's Role in MCSAP

- Data and Analytical Support for New York's Commercial Vehicle Safety Program

- Annual CVSP Planning Meeting

- Preparation of the Annual CVSP

- Annual Assessment of the CVSP

- Ad Hoc Analyses and Assistance

CVSP Planning Meeting

- Review National Priorities in Notice of Funding Availability (NOFA)

- Compile data to support PID (Who, What, Where, When, Why), update performance measures and set targets

- Conduct analyses and prepare tables and charts

- Present data and facilitate discussion

Data Sources

- NYS Accident Information System (AIS)

- NYS Ticket Systems (TSLED and AA)

- NYSDOT SAFETYNET System

- FMCSA A&I Online

Inspections Conducted, Large Truck Crashes & CMV Drivers Ticketed by MCSAP Region

Large Truck Fatal Crashes 2013 - 2015

Fatal Large Truck Crashes

Year
▲ 2013
▲ 2014
▲ 2015 (Preliminary)
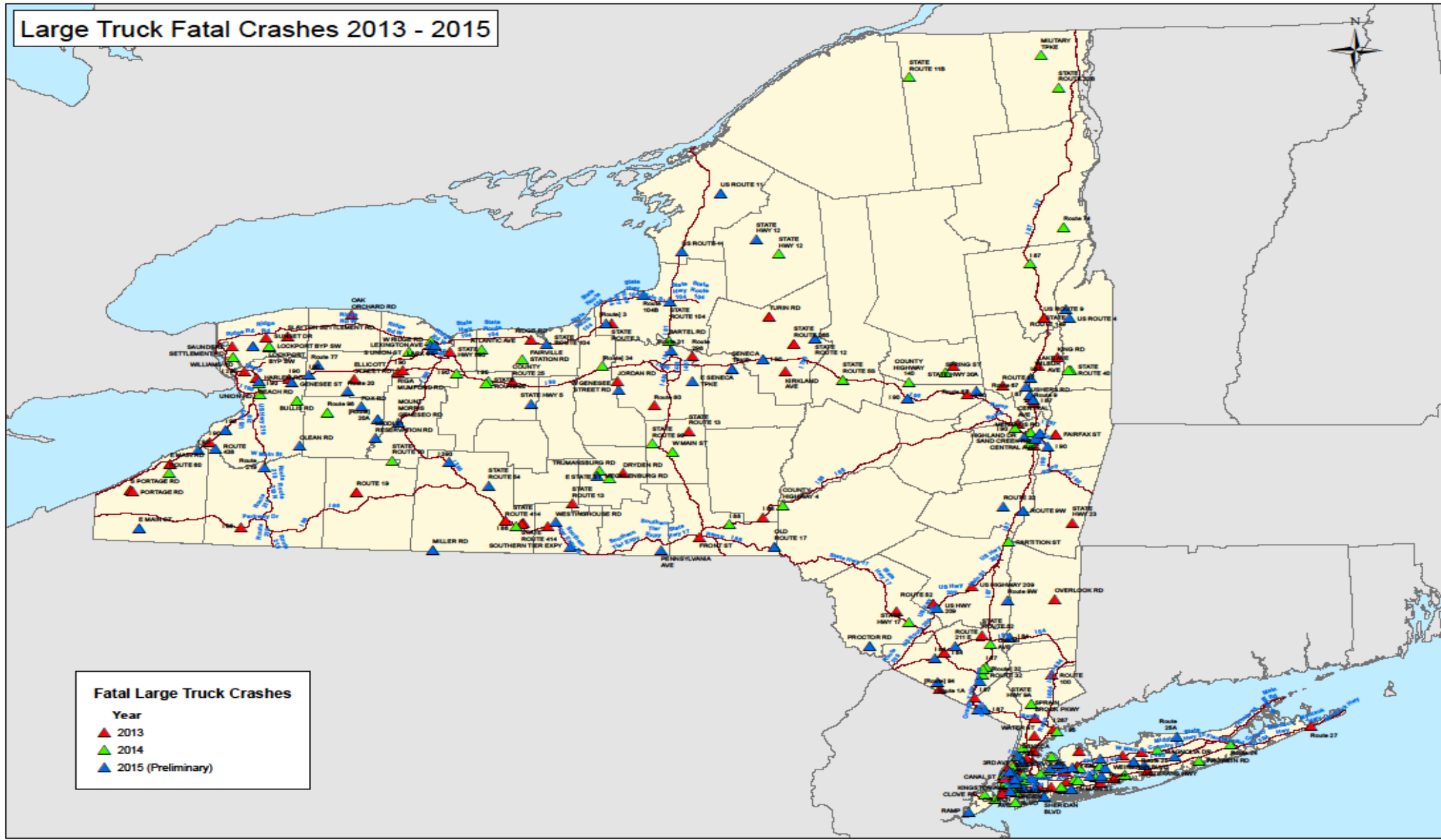
Fatal Bus Crashes 2013 - 2015

Fatal Bus Crashes

Year
- ▲ 2013
- ▲ 2014
- ▲ 2015 (Preliminary)

Key Contributing Factors for Drivers Involved in LT Crashes* & CMV Drivers Ticketed by Type of Violation: 2015**

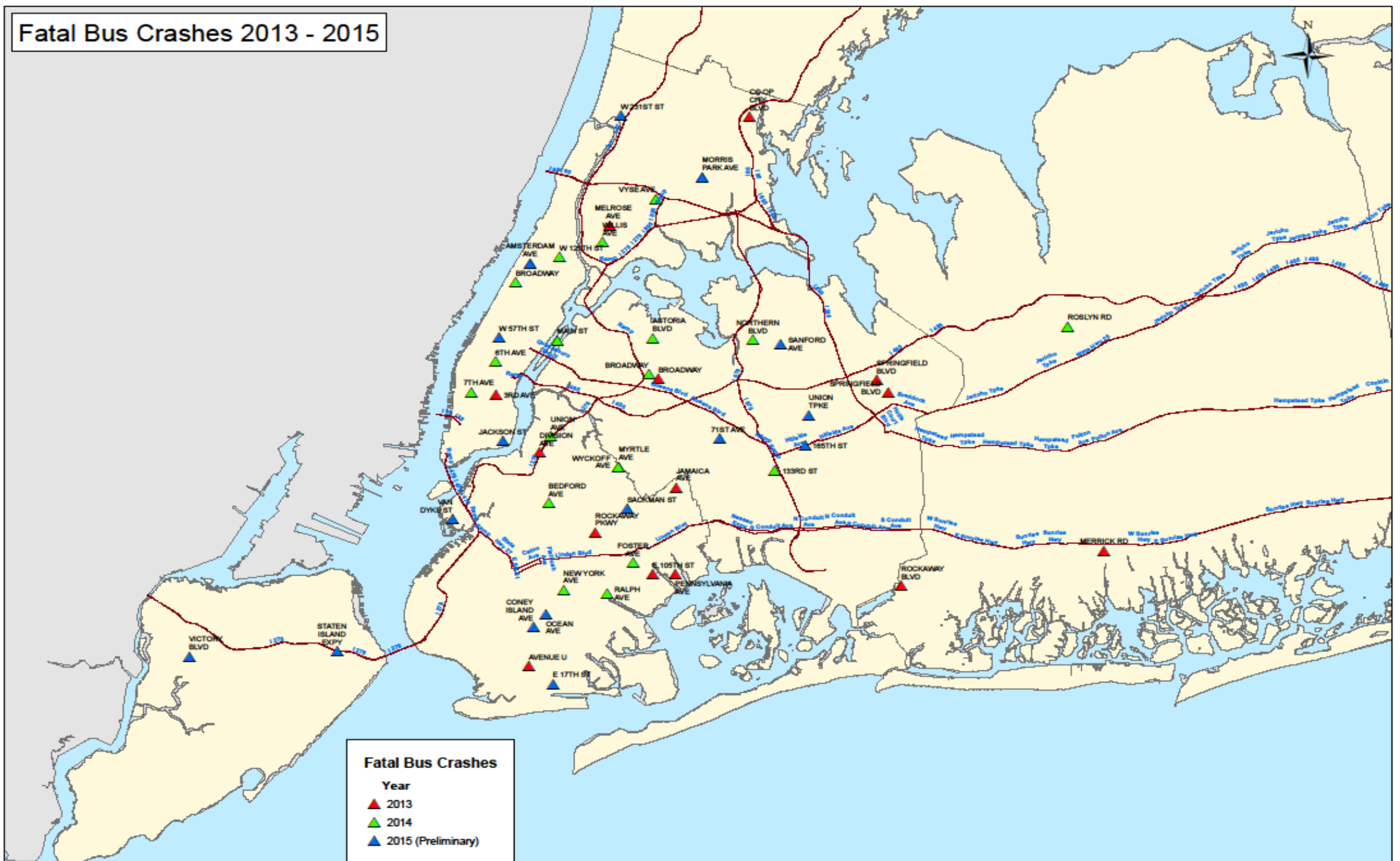|	CMV Drivers in Crashes w/Contributing Factor		CMV Drivers Ticketed By Type of Violation
	Truck Driver N=10,387	Other Driver N=8,846	Truck Driver N=72,369
Driver Inattention/Distraction	11.3%	9.5%	----
Cell Phone Use	0.1%	0.1%	4.0%
Texting	0.0%	0.0%	2.3%
Passing/Lane Changing/Use Improper	10.9%	15.9%	----
Following Too Closely	9.4%	8.0%	1.0%
Backing Unsafely	6.8%	1.6%	----
Failure to Yield R.O.W.	4.9%	8.7%	----
Unsafe Speed	4.4%	6.2%	11.2%
Dimension & Weight	2.9%	0.1%	3.3%
Traffic Control Disregarded	2.3%	2.3%	13.9%
Alcohol/Drugs (Illegal)	0.3%	1.1%	1.2%
Equipment	----	----	17.4%
Safety Rules (non-HazMat)	----	----	14.3%
Seat Belts	----	----	10.0%

*Police-Reported Crashes; **Preliminary data*

Source: NYS DMV AIS, TSLED & AA Systems

NYS Large Truck Inspections
Overall, Vehicle, and Driver OOS Rates

Overall OOS: 20%, 21%, 20%, 20%
Vehicle OOS: 22%, 24%, 22%, 23%
Driver OOS: 5%, 5%, 6%, 6%

■ FFY 2013(N=100,116)   ■ FFY 2014 (N=93,759)
□ FFY 2015 (N=107,491)   ■ FFY 2016* (N=57,264)
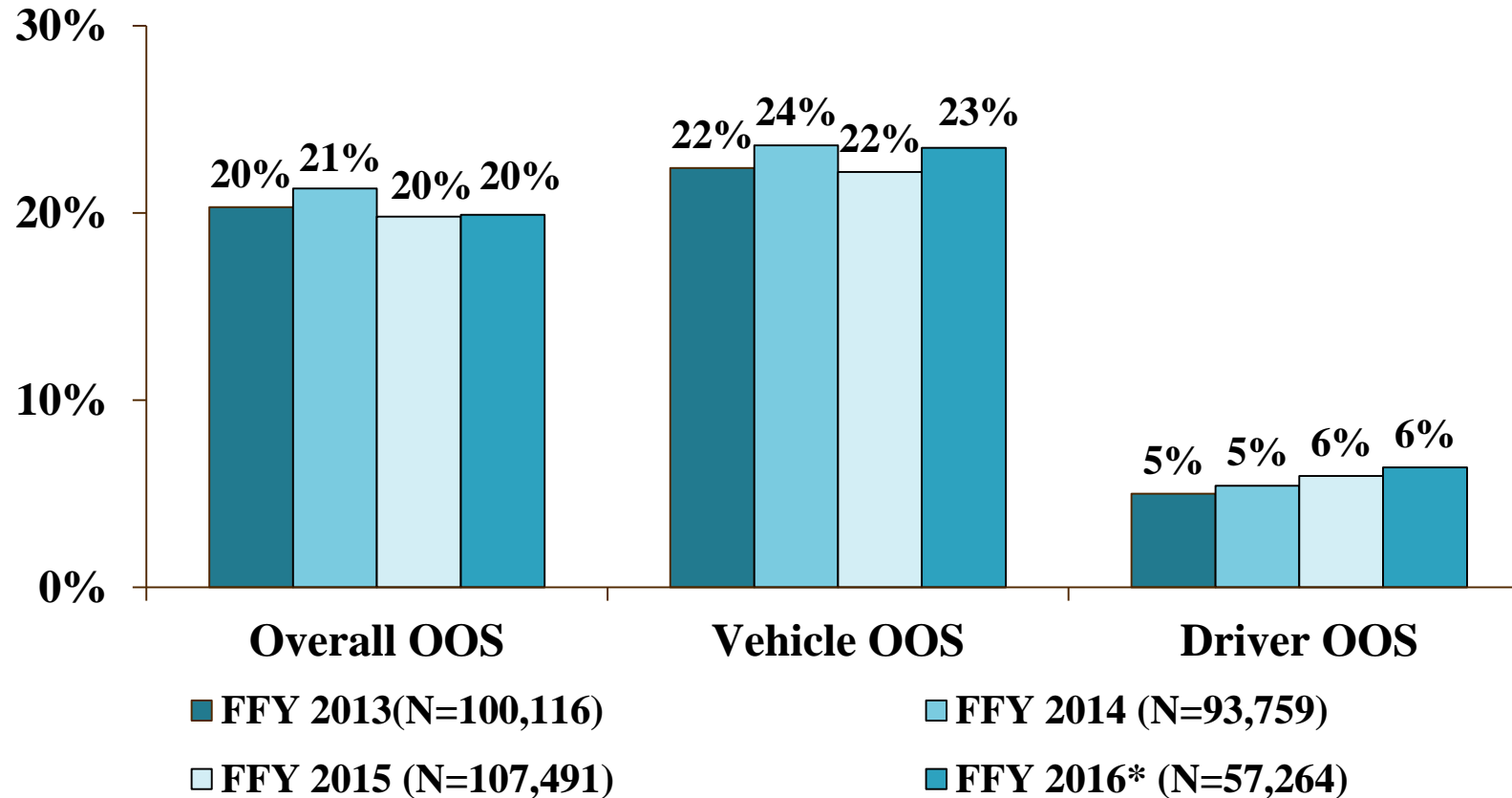
* October 1, 2015 – April 29, 2016

Source: FMCSA A&I Online, April 29, 2016

New York State Traffic Safety Statistical Repository (TSSR)

User Guide

Statewide Motor Vehicle Crash Summary Reports

Statewide Crashes
Motorcycle Crashes
Pedestrian Crashes
Bicycle Crashes
Large Truck Crashes
Alcohol-Related Crashes (Police-Reported only)
Drug-Related Crashes (Police-Reported only)
Impaired Crashes (Police-Reported only)
Speed-Related Crashes (Police-Reported only)
Young Driver Crashes
Older Driver Crashes

County Motor Vehicle Crash Summary Reports

County Crashes
Motorcycle Crashes
Pedestrian Crashes
Bicycle Crashes
Large Truck Crashes
Alcohol-Related Crashes (Police-Reported only)
Drug-Related Crashes (Police-Reported only)
Impaired Crashes (Police-Reported only)
Speed-Related Crashes (Police-Reported only)
New York City Crashes

FAQ

Glossary

TSSR Directory

Other Reports

Crash Data by Region and County

DATA SOURCE:

NYS Department of Motor Vehicles Accident Information System (AIS) data snapshot as of **10/16/2016**. Includes the finalized crash data for 2009-2015 and the preliminary data for 2016. The data for 2016 are subject to updates as new or additional information is reported to the DMV following the snapshot date.

◁ | Data Source | New Reports | ▷

All Reportable Crashes

NYS Large Truck Crash Summary*

charts

- [ ] 2009
- [ ] 2010
- [ ] 2011
- [ ] 2012
- [ ] 2013
- [x] 2014
- [x] 2015
- [x] 2016 Preliminary*

	2014	2015	2016 Preliminary*	
	Total	Total	Total	
Total	11,848	11,887	7,970	
Fatal Crashes	74	97	53	
Non-Fatal Personal Injury Crashes	3,760	3,711	2,650	
Reportable Property Damage Crashes	8,014	8,079	5,267	

Large Truck/Pedestrian Crashes

	2014	2015	2016 Preliminary*	
	Total	Total	Total	
Total	206	175	133	
Fatal	17	18	9	
Personal Injury	189	157	124	

Severity of Crash (Police-Reported)

	2014	2015	2016 Preliminary*	
	Total	Total	Total	
Total	10,742	10,782	7,230	
Fatal (K)	74	97	53	
Serious (A)	344	355	244	
Moderate (B)	501	524	367	
Minor (C)	2,498	2,397	1,775	
Unk Severity	160	120	93	
Property Damage (O)	7,165	7,289	4,698	

- [ ] Fatal
- [ ] Personal Injury
- [ ] Property Damage

Large Truck/Bicycle Crashes

	2014	2015	2016 Preliminary*	
	Total	Total	Total	
Total	55	54	62	
Fatal	-	5	6	
Personal Injury	54	49	56	
Property Damage	1	-	-	

Large Truck/Motorcycle Crashes

	2014	2015	2016 Preliminary*	
	Total	Total	Total	
Total	39	39	54	
Fatal	3	3	9	
Personal Injury	35	31	36	
Property Damage	1	5	9	

- [ ] Fatal (K)
- [ ] Serious (A)
- [ ] Moderate (B)
- [ ] Minor (C)
- [ ] Unk Severity
- [ ] Property Damage

* The Property Damage Crash reporting level is more than $1,000.
* The term "vehicle" always excludes bicycles.
* The term "driver" always excludes bicyclists.

General ✓

Fatalities/Persons Injured

Driver Age and Gender

Persons Killed or Injured by Age

Safety Equipment Use

Day of Week/Time of Day

Month

Crash Contributing Factor Types

Crash Contributing Factors

nary*

All Reportable Crashes ▼

charts

	2014	2015	2016 Preliminary*	
	Total	Total	Total	
	11,848	11,887	7,970	
	74	97	53	
	3,760	3,711	2,650	
	8,014	8,079	5,267	

☐ 2009
☐ 2010
☐ 2011
☐ 2012
☐ 2013
☑ 2014
☑ 2015
☑ 2016 Preliminary*

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☐ Fatal
☐ Personal Injury
☐ Property Damage

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Large Truck/Motorcycle Crashes

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Fatal	3	3	9	
Personal Injury	35	31	36	
Property Damage	1	5	9	

☐ Fatal (K)
☐ Serious (A)
☐ Moderate (B)
☐ Minor (C)
☐ Unk Severity
☐ Property Damage

All Reportable Crashes

NYS Large Truck Crash Summary - Crashes by Day of Week/Time of Day

table

- ☐ 2009
- ☐ 2010
- ☐ 2011
- ☐ 2012
- ☐ 2013
- ☑ 2014
- ☑ 2015
- ☑ 2016 Prelimin

- ☑ Fatal
- ☑ Personal Injur
- ☐ Property Dam

Crashes

Crashes bar chart:
- 2014: 3,834
- 2015: 3,808
- 2016 Preliminary*: 2,703
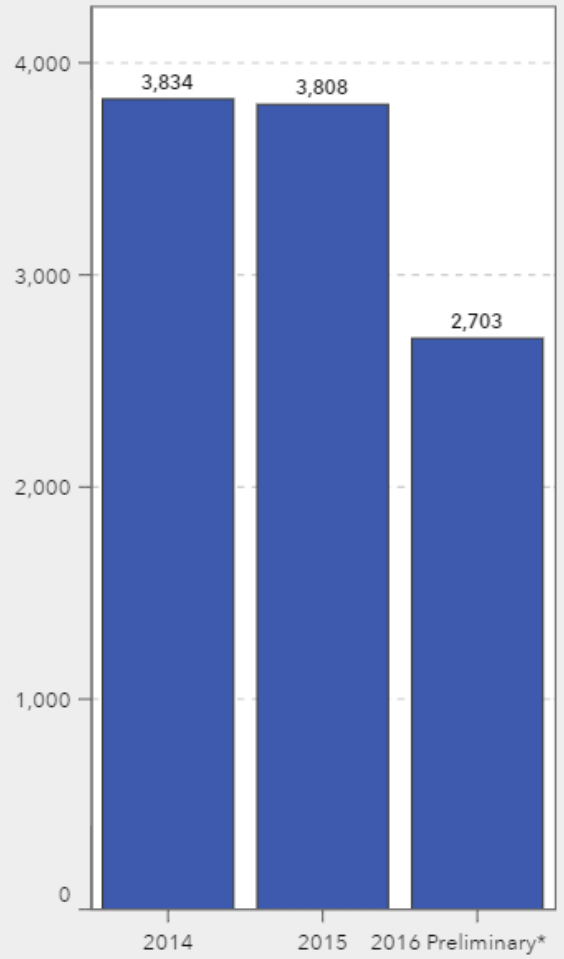
Crashes by Day of Week
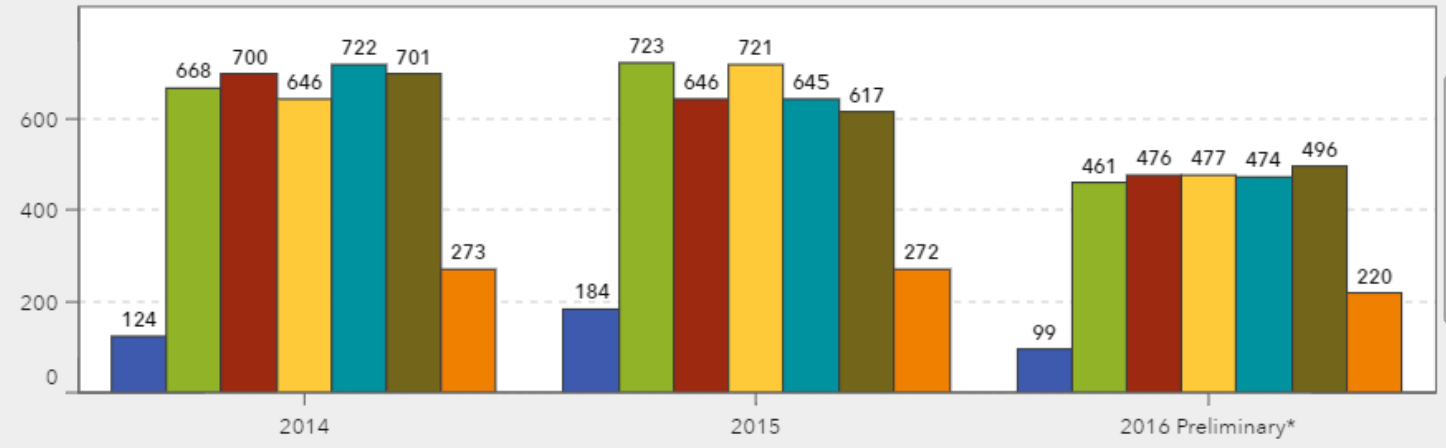
Day of Week (legend): Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

2014: Sunday 124, Monday 668, Tuesday 700, Wednesday 646, Thursday 722, Friday 701, Saturday 273

2015: Sunday 184, Monday 723, Tuesday 646, Wednesday 721, Thursday 645, Friday 617, Saturday 272

2016 Preliminary*: Sunday 99, Monday 461, Tuesday 476, Wednesday 477, Thursday 474, Friday 496, Saturday 220

Crashes by Time of Day

Time of Day (legend): Mid-3am, 3am-6am, 6am-9am, 9am-Noon, Noon-3pm, 3pm-6pm, 6pm-9pm, 9pm-Mid, Unknown

2014: Mid-3am 144, 3am-6am 174, 6am-9am 688, 9am-Noon 825, Noon-3pm 845, 3pm-6pm 701, 6pm-9pm 271, 9pm-Mid 162, Unknown 24

2015: Mid-3am 129, 3am-6am 175, 6am-9am 684, 9am-Noon 850, Noon-3pm 859, 3pm-6pm 657, 6pm-9pm 278, 9pm-Mid 152, Unknown 24

2016 Preliminary*: Mid-3am 82, 3am-6am 126, 6am-9am 458, 9am-Noon 626, Noon-3pm 565, 3pm-6pm 501, 6pm-9pm 198, 9pm-Mid 121, Unknown 26

All Reportable Crashes

NYS Large Truck Crash Summary - Crashes by Month

table
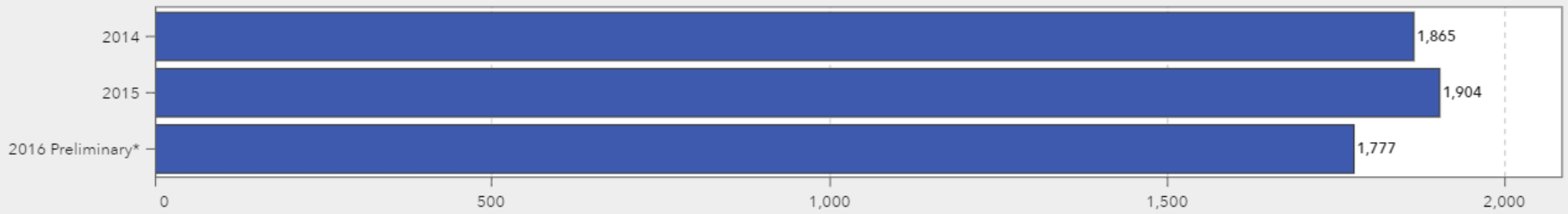
- [ ] 2009
- [ ] 2010
- [ ] 2011
- [ ] 2012
- [ ] 2013
- [x] 2014
- [x] 2015
- [x] 2016 Preliminary*

Crashes

Year	Crashes
2014	1,865
2015	1,904
2016 Preliminary*	1,777

- [x] Fatal
- [x] Personal Injury
- [ ] Property Damage

Crashes by Month
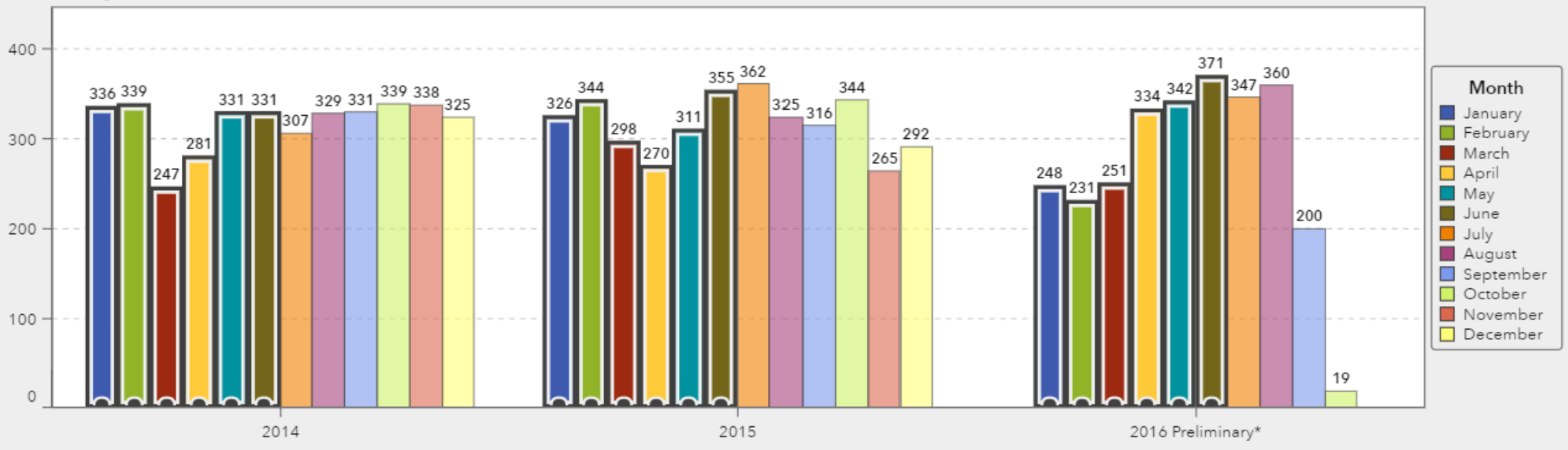
Month
- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

2014: 336, 339, 247, 281, 331, 331, 307, 329, 331, 339, 338, 325

2015: 326, 344, 298, 270, 311, 355, 362, 325, 316, 344, 265, 292

2016 Preliminary*: 248, 231, 251, 334, 342, 371, 347, 360, 200, 19

Keys to the Sustainability of ITSMR

▶ Long-term relationships

▶ Developed extensive knowledge and expertise in highway safety

▶ Flexible, responsive, adaptable

▶ Access to other academic resources

▶ Staff

Thank You!

Debra Rood

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New York State **T**raffic **S**afety **S**tatistical **R**epository

www.itsmr.org/tssr