

Addendum 2 - Chapter 7 - PERFORMANCE MEASURES

National Performance Measures

Safety

The performance measures assess the absolute number of individuals affected by reportable crashes and the rates at which they occur by transportation system usage. The numbers of fatalities and serious injuries are a rolling five-year averages. The rates are calculated by normalizing the number of fatalities or serious injuries by the rolling five-year average of vehicle miles traveled (VMT).

The measures for the number and rates of fatalities and serious injuries include all system users. The measure for non-motorized system users include only pedestrians, bicyclists, and other cyclists.

The definitions of fatalities and serious injuries are defined by the Model Minimum Uniform Crash Criteria, approved by United States Department of Transportation (USDOT). Fatalities include all deaths which occur within thirty days following a motor vehicle or other crash. Serious injuries include skull fractures, internal injuries, broken or distorted limbs, unconsciousness, severe lacerations, severe burns, and individuals unable to leave the scene without assistance.

Targets

The targets are calculated by first estimating the existing trends for each measure. A forecast for 2018 is made using a five-year moving average linear trend line. A percentage change, rounded and capped at 6 percent, between 2014-2018 and 2011-2015 is extrapolated to 2018. The cap allows for a target that forecasts a significant reduction, but recognizes that large decreases are unlikely to happen year after year.

The New York State Department of Transportation (NYSDOT) and the Governor's Traffic Safety Committee (GTSC) report on the progress towards achieving the targets to USDOT on annual basis in the Highway Safety Improvement Program (HSIP) Annual Report and the Highway Safety Plan, respectively. The Genesee Transportation Council agrees to plan and program projects so that they contribute toward the accomplishment of the State target for each of the five performance measures, as shown in Exhibit 36.

Data Sources

Crash totals are provided by the New York State Traffic Safety Statistical Repository (TSSR). The TSSR provides public access to the Accident Information System (AIS) managed by the NYS Department of Motor Vehicles. The data portal was designed and implemented by the University at Albany's Institute for Traffic Safety Management and Research (ITSMR) and funded by the GTSC.

The vehicle miles traveled projections are provided by the Highway Performance Monitoring System (HPMS) submitted by NYSDOT to USDOT. The projections are based upon vehicle counts across the functional classification system statewide.



PERFORMANCE MEASURES

Exhibit 36

L RTP 2040 National Performance Measures: Safety

Performance Measure	What it Evaluates	2011-2015 Average	NYSDOT Target (2018)
Number of Fatalities	Safety	1,143	1,086
Fatality Rate		.89 per 100M VMT	.87 per 100M VMT
Number of Serious Injuries		11,547	10,854
Serious Injury Rate		8.99 per 100M VMT	8.54 per 100M VMT
Number of Non-Motorized Fatalities and Serious Injuries		2,872	2,843

