

Safety Performance Measures and Targets
Sheboygan Metropolitan Planning Area

The Bay-Lake Regional Planning Commission staff has spent the past several months of 2017 analyzing crash data within the Sheboygan metropolitan planning area for calendar years 2012 through 2016. Two main sources were used in analyzing the data: (1) crash data from the Traffic Operations and Safety Laboratory at UW Madison for 2012 through 2016; and (2) Fatality Analysis Reporting System (FARS) data from the National Highway Traffic Safety Administration (NHTSA) for 2012 through 2015. County vehicle miles of travel (VMT) data for 2012 through 2015 were obtained from the Wisconsin Department of Transportation (WisDOT) in order to determine fatality and serious injury rates; this information was projected for 2016, and all VMT figures were adjusted to the metropolitan planning area based on output from the WisDOT Northeast Region travel demand forecast model.

The following statistics show the five required safety performance measures for the Sheboygan metropolitan planning area versus how statewide performance measures would fare when adjusted to the VMT for the metropolitan planning area:

2012 - 2016 Safety Performance Measure Statistics	Actual Crash Statistics for the Sheboygan Metropolitan Planning Area	Statewide Statistics Applied to VMT of Sheboygan Metropolitan Planning Area
Average Annual Fatalities	3.4	5.2
Average Annual Fatality Rate*	0.615	0.936
Average Annual Serious Injuries	20.8	29.0
Average Annual Serious Injury Rate*	3.760	5.260
Average Annual Non-Motorized Fatalities and Serious Injuries	3.2	3.3
*Per 100 Million Vehicle Miles of Travel.		
Source: Traffic Operations and Safety Laboratory, UW Madison (2012 through 2016); National Highway Traffic Safety Administration (NHTSA), Fatality Analysis Reporting System (FARS) Encyclopedia (2012 through 2015); Wisconsin Department of Transportation, Vehicle Miles of Travel (VMT) by County (2012 through 2015); Wisconsin Department of Transportation, Northeast Region Travel Demand Forecast Model Output (2010, 2015 and 2025); and Bay-Lake Regional Planning Commission, 2017.		

As can be seen in the above table, the following safety performance measure statistics in the Sheboygan metropolitan planning area are significantly below statewide statistics applied to the VMT of the metropolitan planning area: average annual fatalities; the average annual fatality rate; average annual serious injuries; and the average annual serious injury rate. On the other hand, average annual non-motorized fatalities and serious injuries are only slightly below statewide statistics applied to the VMT of the metropolitan planning area.

Federal regulations regarding safety performance target setting give MPOs the choice of either setting their own targets for their metropolitan planning area or supporting their state’s targets. A combination of both MPO targets and support of state targets is also allowed.

Since all safety performance measure statistics in the Sheboygan metropolitan planning area are below statewide statistics applied to the VMT of the metropolitan planning area, Bay-Lake Regional Planning Commission staff would recommend supporting WisDOT's safety performance targets for 2018 (as opposed to setting independent performance targets). These include the following reductions from the 2012 – 2016 average annual statistics to 2018:

- A **2%** reduction in average annual fatalities;
- A **2%** reduction in the average annual fatality rate;
- A **5%** reduction in average annual serious injuries;
- A **5%** reduction in the average annual serious injury rate; and
- A **5%** reduction in non-motorized fatalities and serious injuries.