

SAFETY PERFORMANCE MEASURE TARGET (PM1)

Background

The California Department of Transportation (Caltrans), in cooperation with the State Office of Traffic Safety (OTS), set five annual Safety Performance Management Targets (SPMTs) for all public roads on August 31, 2018 for the 2019 calendar year. Caltrans set these targets pursuant to the Moving Ahead for Progress in the 21st Century Act (MAP-21, P.L. 112-141), and the federal Safety Performance Management Final Rule, which adds Part 490 to Title 23 of the Code of Federal Regulations to implement the performance management requirements in 23 U.S.C. 150.

Under these regulations, all states must establish statewide targets for each of the safety performance measures. States also have the option to establish any number of urbanized area targets and one non-urbanized area target for any or all the measures. Targets will be established annually.

The new regulations also require Caltrans, as the state DOT, to coordinate with California's Metropolitan Planning Organizations (MPOs) on establishment of targets, to the maximum extent practicable. A series of workshops were conducted in 2019 to meet this requirement. States will report targets to the FHWA in the HSIP report due in August of each year.

On August 31, 2020, Caltrans established the 2021 PM1 targets. Statewide targets that are applicable to the Madera County region are presented in Table 1. MCTC Staff participated in the 2021 PM1 statewide efforts. During the workshops and webinars, the consensus was to establish targets using a trend line methodology to extrapolate existing data to set targets in a data-driven process. Based on the discussions during Caltrans' coordination efforts, MCTC staff is recommending that MCTC supports the statewide targets.

Table 1: Statewide Safety Targets

Performance Target	Data Source	5- Yr. Rolling Average 2021	Percent Reduction for 2021
Number of Fatalities	FARS	3,624.8	2.9%
Rate of Fatalities (per 100M VMT)	FARS & HPMS	1.044	2.9%
Number of Serious Injuries	SWITRS	15,419.4	1.3%
Rate of Serious Injuries (per 100M VMT)	SWITRS & HPMS	4.423	1.3%
Number of Non-Motorized Fatalities and Non-Motorized Severe Injuries	FARS & SWITRS	4,340.8	2.9 % for Fatalities and 1.3% for Serious Injuries

Notes: The targets highlighted in gray are set in coordination with OTS. FARS is the Fatality Analysis Reporting System maintained by NHTSA (National Highway Traffic Safety Administration). FARS contains data on all crashes involving a fatality. HPMS is the Highway Performance Management System that estimates VMT on public roadways. SWITRS is the Statewide Integrated Traffic Accident Reporting System which tracks all reported accidents in California.

All MPOs, including MCTC, must establish targets for the same five safety performance measures for all public roads in the MPO planning area within 180 days after the State establishes each target. (i.e., by February 27, 2021.) The targets are to be established in coordination with the State, to the maximum extent practicable. MCTC can either agree to support the Caltrans targets or establish numerical targets

specific to the MCTC planning area. MPOs' targets are reported to the State DOT, which must be able to provide the targets to FHWA, upon request.

A State is considered to have met or made significant progress toward meeting its safety targets when at least four of the five targets are met or the outcome for the performance measure is better than the baseline performance the year prior to the target year. Optional urbanized area or non-urbanized area targets will not be evaluated. Each year that FHWA determines a State has not met or made significant progress toward meeting its performance targets, the State will be required to use obligation authority equal to the baseline year HSIP apportionment only for safety projects. States must also develop a HSIP Implementation Plan.

The 2021 PM1 targets will be the fourth iteration of the TPM regulation and FHWA has begun assessing statewide targets. In April 2020, FHWA assessed California's 2018 PM 1 targets and has determined that the state has not met or made significant progress towards meeting targets. As mentioned above, there are no impacts on MPO's and local agencies, but will affect how California can use its federal HSIP funds.

Target Selection Methodology for the State and MCTC

Caltrans held a virtual workshop on July 20, 2020 to discuss the 2021 statewide PM1 targets with MPOs and other stakeholders. Three possible scenarios for setting the targets were discussed at the workshop which included: 1) an aspirational trend such as reaching zero fatalities by 2050; 2) a target based on estimated impacts from completed activities and projects; and 3) a trend line, which extrapolates the existing changes in fatalities and serious injuries into the future.

During the workshop, it was decided that the third scenario would be used to set the statewide 2021 PM1 targets. A trend line would be used to extrapolate the existing data in fatalities and serious injuries into the future and is a data-driven process.

MCTC used Caltrans' methodology to develop the 2021 safety performance measure targets for Madera County by applying the statewide percentage reduction targets shown in Table 1 above. Results are shown in Table 2.

Table 2: Recommended Madera County Safety Targets for 2021

Performance Target	Data Source	5- Yr. Rolling Average (2021) for Madera	Percent Reduction (2021)	Numerical Target (2021)
Number of Fatalities	FARS	33.2	2.9%	32
Rate of Fatalities (per 100M VMT)	FARS & HPMS	1.9	2.9%	1.9
Number of Serious Injuries	SWITRS	91.6	1.3%	90.2
Rate of Serious Injuries (per 100M VMT)	SWITRS & HPMS	5.3	1.3%	5.2
Number of Non-Motorized Fatalities and Non-Motorized Severe Injuries	FARS & SWITRS	12.9	2.9 % for Fatalities and 1.3% for Serious Injuries	12