

DURHAM • CHAPEL HILL • CARRBORO

DCHC

METROPOLITAN PLANNING ORGANIZATION

PLANNING TOMORROW'S TRANSPORTATION

Transportation Performance Measures -- Safety

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- TPMS are required by MAP-21 and FAST ACT (federal transportation legislation)
- January 2019 -- MPO adopted Safety measures and targets along with TPMs for transit assets, bridge and pavement condition and system performance
- November 2019 -- MPO approved updated Safety measures and targets
- Two options:
 - MPO establish own measures
MPO must manage data to calculate measure
 - Support NCDOT measures
NCDOT provides measure values

- In all four TPMs, MPO adopted NCDOT target so can use NCDOT data
- MPO must re-adopt Safety targets by February 27, 2021 (other three TPMs are not due for re-adoption)
- At this point, no known consequences for MPO if targets not achieved

Safety Targets

Technical Committee 1/27/2021 ADDITIONAL ITEM

	Targets (percent reduction per year)			
Safety Measure	2018	2019	2020	2021
Total Fatalities	5.01	5.59	6.23	4.2
Fatality Rate	4.75	5.02	5.39	4.35
Total Serious Injuries	5.1	6.77	8.54	3.24
Serious Injury Rate	4.75	6.12	7.64	3.35
Total Non-motorized Fatalities and Serious Injuries	5.3	6.02	7.13	3.65

Proposed targets

Current targets

2021 reduction targets are much lower than previous years because the horizon year for reducing fatalities and injuries by one-half was changed from 2030 to 2035.

Safety Targets

Technical Committee 1/27/2021 ADDITIONAL ITEM

Data for DCHC MPO

Target Setting Crash Data

Year	Fatalities (5 Year Average)	Fatality Rate (5 Year Average)	Serious Injuries (5 Year Average)	Serious Injury Rate (5 Year Average)	Non-motorized Fatalities and Serious Injuries (5 Year Average)
2008 - 2012	29.8	0.634	74.4	1.586	18.4
2009 - 2013	31.2	0.649	70.8	1.474	17.6
2010 - 2014	32.4	0.656	75.0	1.517	18.6
2011 - 2015	33.2	0.659	80.4	1.597	20.2
2012 - 2016	34.4	0.667	78.6	1.526	20.6
2013 - 2017	36.0	0.675	83.8	1.569	19.2
2014 - 2018	35.8	0.654	87.2	1.593	19.8
2015 - 2019	39.0	0.699	94.4	1.690	22.0
2021 Target*	35.8	0.640	86.9	1.553	20.7

Fatalities and serious
injuries – steady increase

The rates (per miles traveled)
– slow increase

Non-motorized fatalities and serious
injuries – slow increase

Adopt the proposed NCDOT 2021 Safety targets by resolution:

- › Resolution: MPO agrees to plan and program projects so that they contribute toward the accomplishments of the NCDOT performance targets
- › The proposed targets are ambitious, i.e., 50% reduction by 2035
- › Using the NCDOT targets allows the MPO to use NCDOT data