

Niles Buchanan Cass Area Transportation Study  
 Transportation Performance Measures  
*Updated January 2021*

Safety

Performance Measure	Description	Base Data - 2019		State Target	Data Source
		NATS	State	2021	
Number of fatalities.	The number of fatalities due to a vehicular crash.	9.6	1004.4	968.6	Michigan Crash Facts
Fatalities per 100 million vehicle miles traveled (VMT).	The rate of serious injuries based on the total miles driven in the area.	1.95	0.998	0.982	Michigan Crash Facts & HPMS
Number of serious injuries.	The number of serious injuries due to a vehicular crash	42.8	5,559.6	5,533.6	Michigan Crash Facts
Serious injuries per 100 million vehicle miles traveled (VMT).	The rate of serious injuries based on the total miles driven in the area.	8.62	5.52	5.609	Michigan Crash Facts & HPMS
Non-motorized fatalities, serious injuries.	The number of pedestrians and bicyclists seriously injured or killed due to a vehicular crash.	4.0	768.8	77.1	Michigan Crash Facts

All values reported are 5 yr. averages, HPMS = Highway Performance Monitoring System

Reliability

Performance Measure	Description	Base Data - 2017		State Target	Data Source
		SWMPC*	State	2021	
Percentage of the person-miles traveled on the Interstate that are reliable.	The percentage of miles traveled by a person on the Interstate that are reliable.	NA	85%	75%	INRIX/NPMRDS
Percentage of the person-miles traveled on the non-Interstate NHS that are reliable.	The percentage of miles traveled by a person on the non-Interstate NHS that are reliable.	94.3%	86.10%	70%	INRIX/NPMRDS
Truck Travel Time Reliability (TTTR) Index	The sum of maximum TTTR for each reporting segment, divided by the total Interstate system miles	1.11	1.38	1.75	INRIX/NPMRDS

\*combines both NATS & TwinCATS planning areas.

NPMRDS = National Performance Management Research Data Set. INRIX is a private company that provides traffic data

## Pavement Condition

Performance Measure	Description	2 yr. mid-cycle status - 2019		State Target	Data Source
		NATS	State	2021	
Percentage of pavement on the Interstate System in good condition.	The percentage of pavement on the Interstate system considered in good condition.	NA	63.1%	47.8%	International Roughness Index-MDOT
Percentage of pavement on the Interstate System in poor condition.	The percentage of pavement on the Interstate system considered in poor condition.	NA	4.9%	10.0%	International Roughness Index-MDOT
Percentage of pavement on the non-Interstate National Highway System in good condition.	The percentage of pavement on the non-Interstate National Highway System considered in good condition.	19.7%	48.3%	43.7%	International Roughness Index-MDOT
Percentage of pavement on the non-Interstate National Highway System in poor condition.	The percentage of pavement on the non-Interstate National Highway System considered in bad condition.	49.1%	19.2%	24.6%	International Roughness Index-MDOT

## Bridge Condition

Performance Measure	Description	2 yr. mid-cycle status - 2020		4-yr adjusted	Data Source
		NATS	State	State Target	
Percentage of National Highway System (NHS) bridge deck area in good condition.	The percentage of bridges on the NHS that are considered in good condition.	1.9%	27.0%	23.0%	National Bridge Inventory
Percentage of National Highway System (NHS) bridge deck area in poor condition.	The percentage of bridges on the NHS that are considered in poor condition.	0%	7.0%	8.0%	National Bridge Inventory

## Transit State of Good Repair

Performance Measure	Description	Asset	Base Data - 2019	Target 2019-2020	Data Source
Rolling stock in a state of good repair	Percent of rolling stock transit vehicles that have exceeded useful life	6 Cutaway Buses	43%	29%	PTMS
Non-Revenue Vehicles in a state of good repair	Percent of non-revenue vehicles that have exceeded useful life	1 Truck with snow plow	100%	100%	PTMS
Facilities in a state of good repair	Percent of facilities within an asset class rated 3 or below on the FTA TERM scale.	1 Administration/Maintenance Building	100%	0 %	PTMS