



Performance Measures

With the passing of the Moving Ahead for Progress in the 21st Century (MAP-21) transportation bill, and continuing in the Fixing America’s Surface Transportation Act (FAST Act), states and MPOs are required to use performance based transportation planning practices. MPO Transportation Improvement Programs (TIP) will be required to document compliance with each of the performance based planning categories. Categories currently implemented include Safety (PM 1), Infrastructure (PM 2), System Performance (PM 3), Transit Asset Management (TAM), and Transit Safety.

MPOs establish performance targets for each of these measures by either:

1. Supporting the State DOT Performance Targets; or
2. Establishing its own Regional Performance Targets.

The Lincoln MPO gathered input from its committees in order to determine whether to support state DOT targets, or to develop its own regional targets.

Safety

The Federal Highway Administration (FHWA) published the Highway Safety Improvement Program and Safety Performance Management Measures (PM-1) Final Rules in the Federal Register on March 15, 2016. The Safety Performance Management Measures rule supports the Highway Safety Improvement Program (HSIP), as it establishes five safety performance measures to carry out the HSIP and to assess serious injuries and fatalities on all public roads. State DOTs are required to establish safety (HSIP) targets for all five performance measures by August 31 of each year.

The Lincoln MPO has agreed to support the state’s annual (CY 2021) safety performance targets set in August 2020. The targets are:

Performance Measure	5-Year Rolling Average	
	Baseline (2014-2019)	Target (2016-2021)
Number of Fatalities	234.0	241.0
Rate of Fatalities per 100 million vehicle miles traveled (VMT)	1.126	1.130
Number of Serious Injuries	1,476.0	1,408.0
Rate of Serious Injuries per 100 million VMT	7.102	6.507
Number of Non-motorized Fatalities and Non-motorized Serious Injuries	134.2	126.6

The Lincoln MPO supports these targets by reviewing and programming HSIP projects within the Metropolitan Planning Area into the Transportation Improvement Program (TIP). Working in partnership with local agencies, the Nebraska Department of Transportation (NDOT) safety investments were identified and programmed which will construct effective countermeasures to reduce traffic fatalities and serious injuries. NDOT projects chosen for HSIP investment are based on crash history, roadway characteristics, and the existence of infrastructure countermeasures that can address the types of crashes present.

Infrastructure

Assessing Pavement Condition for the National Highway Performance Program and Bridge Condition for the National Highway Performance Program (PM-2) was identified in the FHWA Final Ruling published in the Federal Register on January 18, 2017 (82 FR 5886). This rule establishes six performance measures to assess the condition of pavement and bridges on the National Highway System (NHS) to carry out the National Highway Performance Program. State DOTs are required to establish pavement and bridge condition targets by May 20 every four years.

The Lincoln MPO has agreed to support the state’s 4-year performance period (CY 2018-2021) pavement and bridge performance targets set in May 2018. NDOT adopted adjustments to their established 4-year performance period in September 2020. The Lincoln MPO has agreed to support the adjustments by the State. The targets are:

Performance Measure	4-Year Target 2018-2021	4-Year Adjustment
Percentage of Pavements of the Interstate System in Good Condition	≥50%	No Change
Percentage of Pavements of the Interstate System in Poor Condition	≤5%	No Change
Percentage of Pavements of the Non-Interstate NHS in Good Condition	≥40%	No Change
Percentage of Pavements of the Non-Interstate NHS in Poor Condition	≤10%	No Change
Percentage of NHS Bridges Classified as in Good Condition	≥55%	No Change
Percentage of NHS Bridges Classified as in Poor Condition	≤10%	No Change

The Lincoln MPO will review and program pavement and bridge projects within the Metropolitan Planning Area into the TIP, which contributes toward the accomplishment of these targets.

System Performance

Assessing Performance of the National Highway System (NHS), Freight Movement on the Interstate System, and Congestion Mitigation and Air Quality Improvement Program (PM-3) was identified in the FHWA Final Ruling, published in the Federal Register on January 18, 2017 (82 FR 5970). This rule establishes performance measures to assess the performance of the Interstate and non-Interstate NHS to carry out the National Highway Performance Program, freight movement on the Interstate system to carry out the National Highway Freight Program, and traffic

congestion and on-road mobile source emissions for the purpose of carrying out the Congestion Mitigation and Air Quality Improvement (CMAQ) Program. There are two performance measures to assess system performance of the NHS, one performance measure to assess freight movement on the Interstate system, two performance measures to assess traffic congestion under the CMAQ program, and one performance measure to assess total emissions reductions by applicable pollutants under the CMAQ program. State DOTs are required to establish system performance, freight, and CMAQ targets by May 20 every four years.

The Lincoln MPO has agreed to support the state’s 4-year performance period (CY 2018-2021) system performance and freight performance targets set in May 2018 (Nebraska exempt from CMAQ measures this performance period). NDOT adopted adjustments to their established 4-year performance period in September 2020. The Lincoln MPO has agreed to support the adjustments by the State. The targets are:

Performance Measure	4-Year Target 2018-2021	4-Year Adjustment
Percent of the Person-Miles Traveled on the Interstate that are Reliable	98.9%	94.0%
Percent of the Person-Miles Traveled on the Non-Interstate NHS that are Reliable	92.6%	88.0%
Truck Travel Time Reliability Index	1.10	1.25

The Lincoln MPO will review and program system performance and freight projects within the Metropolitan Planning Area into the TIP, which contributes toward the accomplishment of these targets.

Transit Asset Management

The Federal Transit Administration (FTA) issued a Final Rule on transit asset management (TAM) plans to evaluate the state of good repair of transit provider capital assets for safety and operations. Recipients of public transit funds—which include states, local authorities, and public transportation operators—are required to establish targets for state of good repair performance measures; to develop transit asset management and transit safety plans; and to report on their progress toward achieving targets. Public transportation operators are directed to share information with MPOs and states so that all plans and performance reports are coordinated.

The Rule, “Transit Asset Management; National Transit Database,” went into effect on July 26, 2016 with the TAM plan due for transit by October 1, 2018. Transit target setting repeats annually and plans are updated every four years. The StarTran Transit Management Plan was completed by September 27, 2018, and StarTran established the TAM targets by the January 1, 2017 deadline. The Lincoln MPO has agreed to support the StarTran performance targets. The targets are:

Category	Class	ULB*	Performance Target
Rolling Stock: FR Bus	Bus	15 years	9% of fleet exceeds ULB
Rolling Stock: SR Paratransit	Paratransit Van	6 years	8% of fleet exceeds ULB
Equipment: Non-Revenue Service Vehicle	Automobile	10 years	0% of fleet exceeds ULB
Equipment: Non-Revenue Service Vehicle	Other Support Vehicle	15-20 years	0% of fleet exceeds ULB
Facility: StarTran Administration, Bus Storage, and Maintenance	Admin & Maint	40 years	No more than 0% of StarTran owned facilities rated less than 3.0 on FTA TERM scale
Facility: Parking Facilities	Admin & Maint	40 years	No more than 0% of StarTran owned facilities rated less than 3.0 on FTA TERM scale

* ULB – Useful Life Benchmark

The Lincoln MPO supports these targets by reviewing and programming transit projects relating to capital assets within the urbanized area into the TIP, which contributes toward the accomplishment of these targets.

Transit Safety

On July 19, 2018, FTA published the Public Transportation Agency Safety Plan (PTASP) Final Rule, which requires certain operators of public transportation systems that receive federal funds under FTA's Urbanized Area Formula Grants to develop safety plans that include the processes and procedures to implement Safety Management Systems (SMS). The Agency Safety Plan must include performance targets based on the safety performance measures established in the National Public Transportation Safety Plan. Transit providers are required to have their certified Agency Safety Plans in place by December 31, 2020 and share the safety performance targets with their MPO and State.

The StarTran Agency Safety Plan was completed in July 2020, and the Lincoln MPO has agreed to support the safety performance targets in this plan. The targets are:

Fixed Route Safety Performance Baseline and Targets			
Performance Category		2014-2018 Baseline	Target
Fatalities	Total	0	0
	Rate per 100,000 VRM	0	0
Injuries (Minor/Major)	Total	2.6	Reduction from baseline
	Rate per 100,000 VRM	0.16	Reduction from baseline
Safety Events (Minor/Major)	Total	1.4	Reduction from baseline
	Rate per 100,000 VRM	0.09	Reduction from baseline
System Reliability (Minor/Major)	VRM Between Failures (Total)	4,000	Increase from baseline

Paratransit (Handi-Van) Safety Performance Baseline and Targets			
Performance Category		2014-2018 Baseline	Target
Fatalities	Total	0	0
	Rate per 100,000 VRM	0	0
Injuries (Minor/Major)	Total	0	0
	Rate per 100,000 VRM	0	0
Safety Events (Minor/Major)	Total	0	0
	Rate per 100,000 VRM	0	0
System Reliability (Minor/Major)	VRM Between Failures (Total)	14,200	Increase from baseline