

RESOLUTION NO. 2023-02

RESOLUTION OF THE BOARD OF DIRECTORS OF THE
BROWN COUNTY PLANNING COMMISSION
ADOPTING NATIONAL HIGHWAY SYSTEM (NHS) TRAVEL AND FREIGHT RELIABILITY
PERFORMANCE MEASURE TARGETS FOR 2023-2025

WHEREAS, the U.S. Department of Transportation established performance measures for the assessment of travel and freight movement reliability on the National Highway System (NHS); and

WHEREAS, the Wisconsin Department of Transportation (WisDOT) established statewide targets for travel and freight movement reliability on the NHS in accordance with federal law; and

WHEREAS, Metropolitan Planning Organizations (MPOs) must establish targets for travel and freight movement reliability on the portions of the NHS within their Metropolitan Planning Areas; and

WHEREAS, MPOs establish NHS travel and freight reliability targets by either agreeing to plan and program projects so that they contribute to the accomplishment of WisDOT's statewide travel and freight reliability targets or commit to developing quantifiable travel and freight reliability targets for the Metropolitan Planning Area.

THEREFORE, BE IT RESOLVED, that the Green Bay MPO agrees to plan and program projects that contribute toward the accomplishment of WisDOT's 2023 - 2025 NHS travel and freight reliability targets for the following performance measures:

NHS Travel Reliability Targets

Measure	Baseline (2021)	2-Year Target (2023)	4-Year Target (2025)
Percent of person-miles traveled that are reliable on the Interstate	96.4%	92.5%	93.0%
Percent of person-miles traveled that are reliable on the Non-Interstate NHS	93.9%	91.0%	89.5%

NHS Freight Reliability Targets

Measure	Baseline (2021)	2-Year Target (2023)	4-Year Target (2025)
Truck Travel Time Reliability Index on the Interstate	1.20	1.30	1.30

Dated at Green Bay, Wisconsin, this 1st day of February 2023.

BROWN COUNTY PLANNING COMMISSION



Norbert Dantine, Jr., President

ATTEST:



Cole Runge, Planning Director/MPO Director

Travel and Freight Reliability Performance Measure Targets (PM 3) Definitions

Travel

Person-Miles Travel Time Reliability¹

Travel time reliability measures how consistent the travel time is from one point to another, from one day to the next. To determine reliability, data on travel time is examined to see how it varies over time. Travel time for each discrete segment of the National Highway System (NHS) is placed in order from the shortest time (fastest speed), which is the 1st percentile speed, to the longest time (slowest speed), which is the 100th percentile speed. Three performance measures are examined to compare the "normal" travel time, (which is defined as the 50th percentile travel time) on a segment, with either the 80th percentile or the 95th percentile travel time to determine the overall reliability. If the difference between the normal travel time and the longer travel time (80th or 95th percentile time) is greater than 50%, then the segment is unreliable.

To help understand this concept and how travel time reliability is applied, consider the following highly simplified hypothetical example. Suppose an individual person's normal travel time from home to work is 20 minutes. The 80th percentile is defined as one out of every five days, or approximately once a work week. If in a typical week, it takes this individual 30 minutes or longer to travel to work (one or more times), then his/her route would be designated as unreliable.

Comparatively, the truck travel time measure uses the 95th percentile which is one out of every twenty days.

Travel Time Reliability is not the same as Congestion. Reliability is important, because travelers prefer a consistent travel time to their destination over whether the route is congested. If people understand that a route is congested, they can plan accordingly, but if a route is unreliable, they really have no understanding of how long it will take to get to their destination, which creates greater frustration. In addition, segments of roads can be both congested, and reliable (e.g., reliably congested), whereas others can be congested, but unreliable.

Freight

Truck Travel Time Reliability Index

The index is the ratio of travel time in the peak period to the travel time at free-flow conditions. A value of 1.35 indicates a 20-minute free-flow trip takes 27 minutes in the peak.

Notes: Targets are based on trends from years not shown on tables.

¹ TRANSPORTATION PERFORMANCE MANAGEMENT; Michigan Department of Transportation, June 2018