

Travel Performance Reports

We have provided new reports to aid input validation and results tracing and to analyze the benefits of investment alternatives at a per-trip level. Refer to the TREDIS User Manual for more details on the attributes of each report beyond the information provided here.

These features were designed in collaboration with Michigan DOT and funded by the State of Michigan.

Overview of Travel Report

The new Overview of Travel report shows performance metrics for travel, including miles per trip, minutes per trip, speed, and fraction of miles traveled in congestion.

Economic Activity

Breakdown

Perspective

Data Year

Overview of Travel Characteristics

Purpose	Total Trips	Total Miles	Total Hours	Trip Length (Miles)	Trip Time (Minutes)	Speed (MPH)	Fraction of Miles in Congestion
Business	3,594	559,869	12,980	0.5	0.5	0.4	-0.003
Region Name	Total Trips	Total Miles	Total Hours	Trip Length (Miles)	Trip Time (Minutes)	Speed (MPH)	Fraction of Miles in Congestion
External Region	0	0	0	0.0	0.0	0.0	0.000
Wayne County	43,320	196,522	46,524	-0.4	0.2	-0.4	-0.002
Segment	Total Trips	Total Miles	Total Hours	Trip Length (Miles)	Trip Time (Minutes)	Speed (MPH)	Fraction of Miles in Congestion
Morning	4,053	62,301	-35,245	0.1	-9.2	1.4	-0.002
Afternoon	39,267	134,221	81,769	-1.0	8.9	-2.5	-0.003
Ingham County	-39,726	363,348	-33,544	1.5	0.6	1.5	-0.003
Commute	-172,179	-1,435,892	-70,212	0.2	5.6	-0.7	-0.008
Personal	-18,548	625,093	13,154	0.8	1.8	0.5	-0.003
Freight	184,150	951,844	359,857	0.3	-0.8	0.4	0.000

The dropdown controls at the top left include a Breakdown and a Perspective dropdown. The Breakdown options include By Purpose and By Mode, while the Perspective options include Vehicle or Passenger/Ton Changes in performance metrics between the base and project scenarios by year.

Benefit per Trip Report

The Benefit per Trip report shows change in benefits per trip -- passenger trips for passenger modes (including Personal, Commute, and Business purposes) and vehicle trips for Freight purposes. When represented as a benefit per trip, it is easier to represent the user experience and understand whether it is improving from the Base to Project alternative. The Change in Trips column indicates whether benefit changes are attracting more trips to a mode.

Data Year

Discount Rate

Benefit Per Trip
All benefits in constant 2021 \$

Mode	Change in Benefit per Trip	Change in Trips	Change in Total Benefit
Passenger Car	2.14	-213,936	-1,794,472.76
Light/Medium Duty Truck	-1.49	5,430	-412,409.72
Tractor Trailer Truck	1.53	17,872	1,400,644.43
Bus Rapid Transit (BRT)	-0.05	26,803	668,807.44