Measuring Travel Time Reliability in the Miami Valley: July 2011 - June 2012

Travel Time reliability is the consistency or dependability in travel times, as measured from day to day and/or across different times of the day.

MVRPC conducted a Travel Time Reliability Analysis on ten freeway segments of the Region based on Freeway Management System data provided by the Ohio Department of Transportation. This analysis will be used to make hourly, monthly and annual travel time reliability comparisons as well as determine project impacts on travel times based on pre- and post construction data.

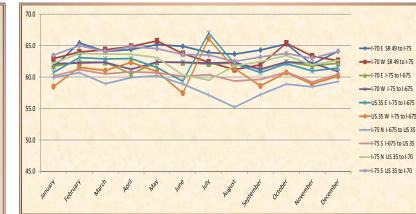
Some of the key travel time reliability measures are: 95th Percentile Travel Time: how much delay will be on the heaviest travel days

Free Flow Travel Time: travel time when there is no congestion delay Travel Time Index: average time it takes to travel during peak hours compared to free flow conditions

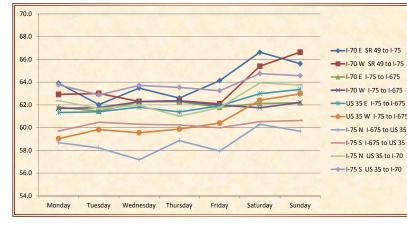
Buffer Index: extra time so one is on time most of the time

Planning Time Index: total time needed to plan for an on-time arrival 95% of the time

Average Speed Distribution by Month



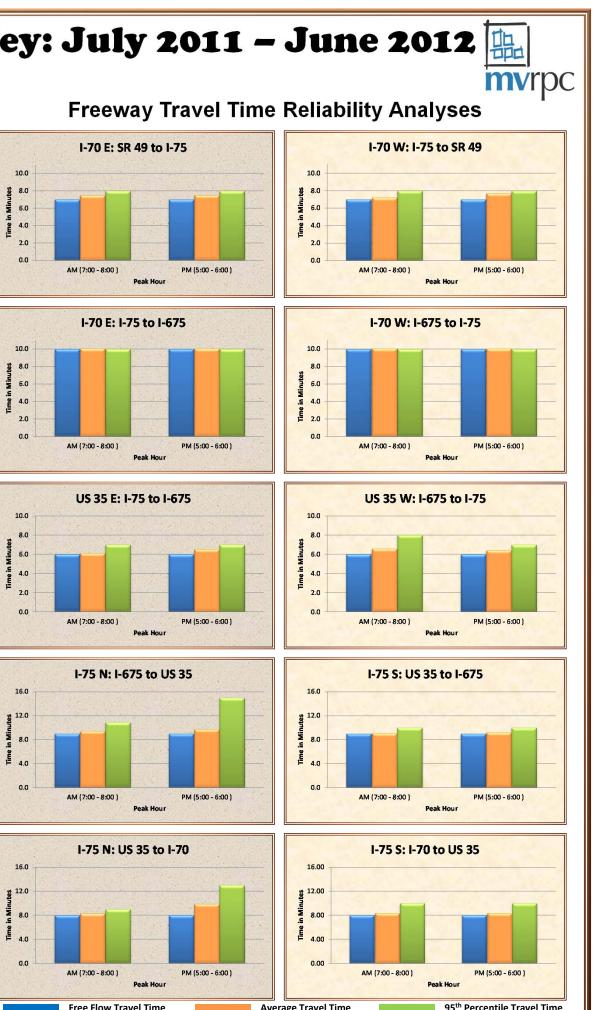
Average Speed Distribution by Weekday

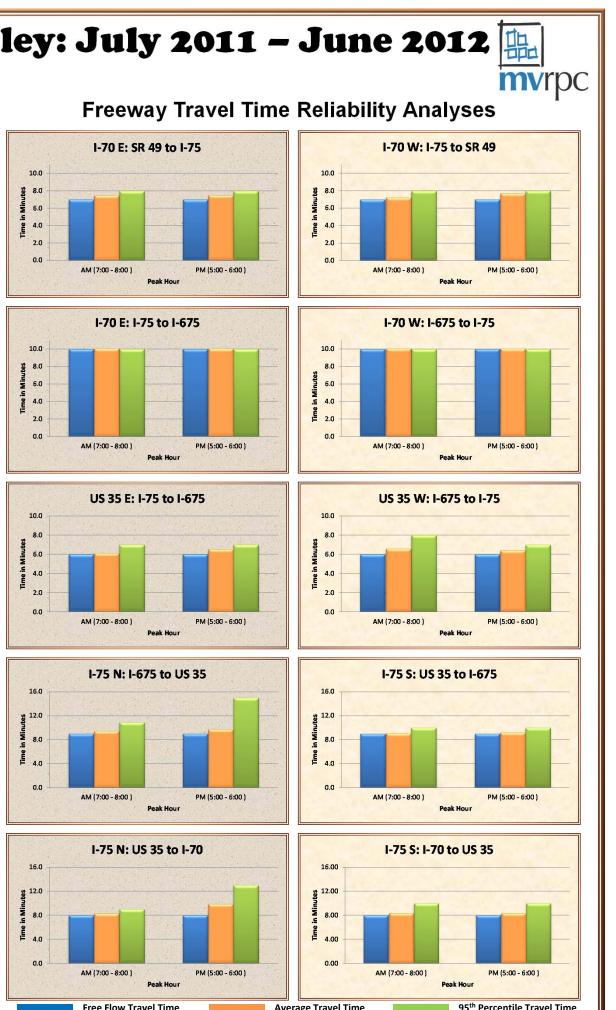


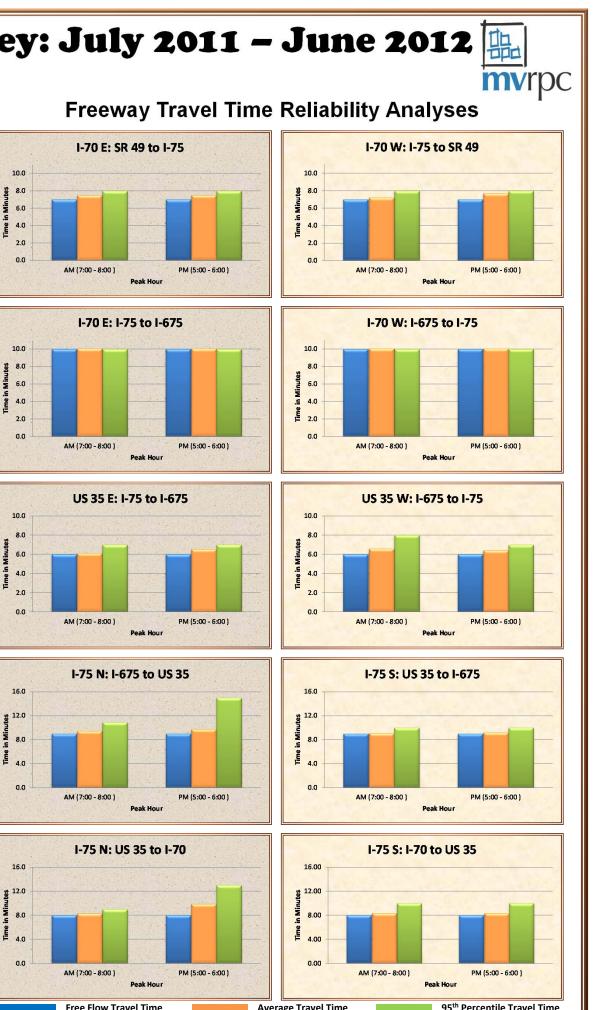
Misery Index

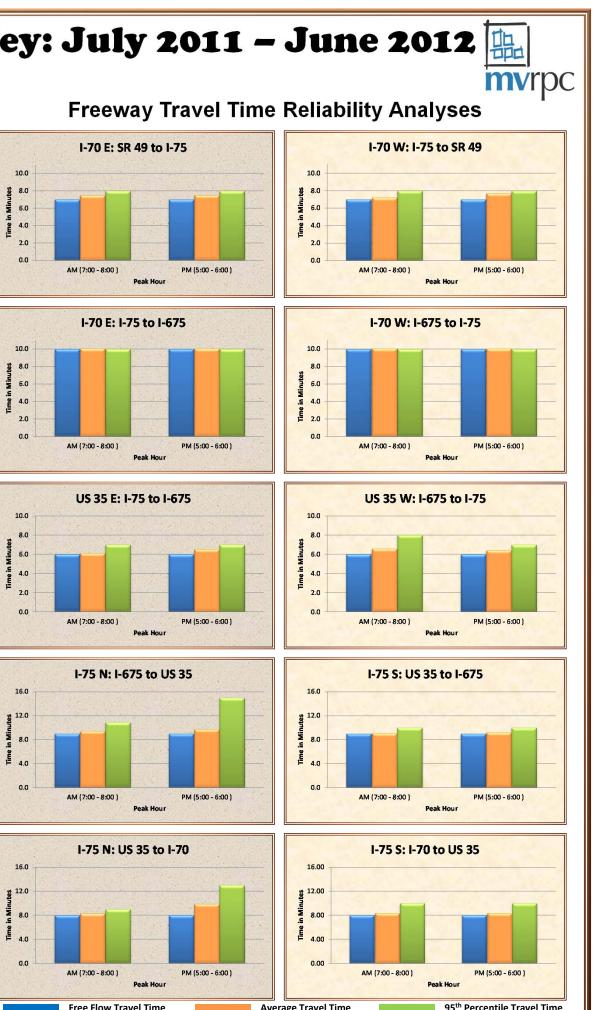
Misery Index seeks to measure the length of delay of only the worst trips. A misery index of 0.5 implies that the slowest trips are 50% longer than the average trip.

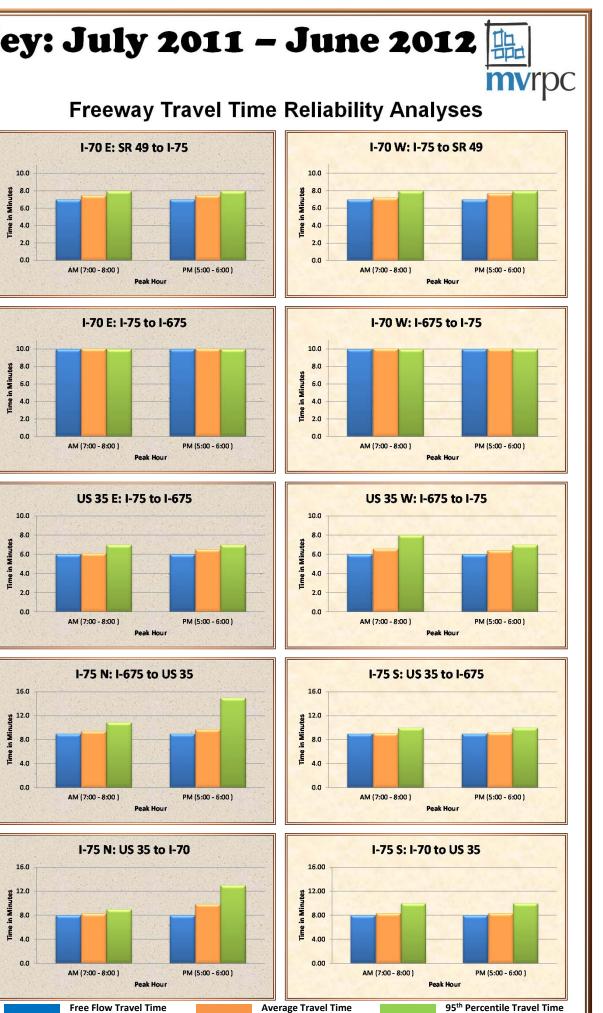
Corridors	Misery Index
I-75: Between US 35 and I-70	0.12
I-75: Between I-675 and US 35	0.13
I-70: Between SR49 and I-75	0.15
I-70: Between I-75 and I-675	0.02
US 35: Between I-75 and I-675	0.18



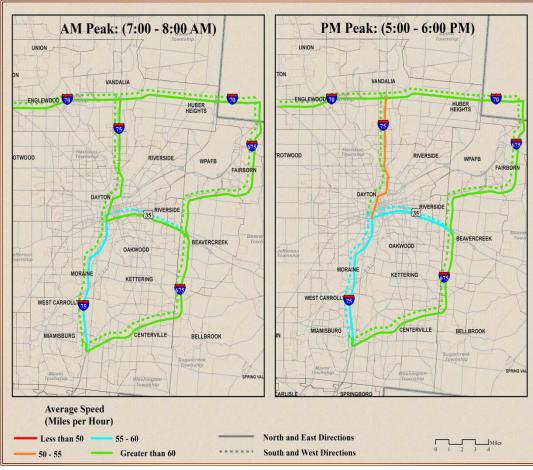








Peak Hour Average Speeds



Corridor Rankings

