



2050 Metropolitan Transportation Plan

Appendix E | Summary of Performance Measure Calculations



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E.1 Performance Measure Calculations

Table E-1 through Table E-5 contain details of how select performance metrics were calculated.

Table E-1 | Summary of Safety Performance Measure Calculations

Measure	Calculation
Fatal and Serious injury Crashes	$\sum (Fatal + Incapacitating \text{ Injury Crashes})$
Rate of Fatal and Serious injury Crashes	$\frac{\sum (Fatal + Incapacitating \text{ Injury Crashes})}{100 \text{ million VMT}}$
Non-motorized Fatalities and Serious Injuries	$\sum Pedestrian \text{ Fatalities} + \sum Pedestrian \text{ Serious Injuries} + \sum Bicyclist \text{ Fatalities} + \sum Bicyclist \text{ Serious Injuries}$
Speeding-related crashes	$\sum \text{Speeding related Crashes}$
Average Emergency Response Time	$\frac{\sum \text{Response time}}{\sum Incidents} \times 100$
Average Incident Clearance Time	$\frac{\sum \text{Clearance time}}{\sum Incidents} \times 100$

Table E-2 | Summary of Reliability Performance Measure Calculations

Measure	Calculation
Level of Travel Time Reliability	$\frac{\text{Travel Time (80th percentile)}}{\text{Travel Time (50th percentile)}}$
Percent of Transit System On-Time Performance	$\frac{\sum \text{On-time Routes}}{\sum \text{Routes}} \times 100$
% SHS with Average Speeds Greater than Posted Speeds	$\frac{\sum VMT - (\text{Peak Hour Speed}) / (\text{Posted Speed Limit})}{\sum VMT} \times 100$

Table E-3 | Summary of Connectivity Performance Measure Calculations

Measure	Calculation
Average Transit Frequency	$\frac{\sum \text{Headways}}{\sum \text{Routes}}$
Percent of Population within a Half-mile of transit	$\frac{\sum \text{Population within a half mile of Transit}}{\sum \text{Total Population}}$
Percent of Jobs within a Half-mile of transit	$\frac{\sum \text{Jobs within a half mile of Transit}}{\sum \text{Total Jobs}}$
Vehicle Hours of Delay per Capita	$(\sum \text{Vehicle Volume} \times (\text{Daily or Peak Travel Time} - \text{Travel Time at LOS B})) \div \text{population}$

Table E-4 | Summary of Community Performance Measure Calculations

Measure	Calculation
% Pedestrian Facility Coverage	$\frac{\sum \text{Pedestrian Facility Miles in Urban Areas}}{\sum \text{Non-Limited Access Centerline Miles in Urban Area}} \times 100$
% Bicycle Facility Coverage	$\frac{\sum \text{Bicycle Facility Miles}}{\sum \text{Non-Limited Access Centerline Miles}} \times 100$

Table E-5 | Summary of Prosperity Performance Measure Calculations

Measure	Calculation
Truck Travel Time Reliability	$\frac{95\text{th Percentile Travel Time}}{50\text{th Percentile Travel Time}}$



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