

Definition of Metrics in ClearGuide Reports

The aggregate reports for routes allow the user to examine the traffic data at many different levels of temporal aggregation, as well as over time of day and day of week.

There are a number of different quantities that can be selected. The quantities are:

- **Speed**
 - **Average Speed:** The average speed (miles per hour) over the route during the time period of the user-selected granularity (5 minute, 15 minute, 30 minute, hour, day).
 - **Minimum Speed:** The minimum speed (miles per hour) over the route during the time period of the user-selected granularity (5 minute, 15 minute, 30 minute, hour, day).
 - **Maximum Speed:** The maximum speed (miles per hour) over the route during the time period of the user-selected granularity (5 minute, 15 minute, 30 minute, hour, day).
 - **Median Speed:** The median speed (miles per hour) over the route during the time period of the user-selected granularity (5 minute, 15 minute, 30 minute, hour, day).
 - **Free Flow Speed:** The desired speed of drivers in low volume conditions and in the absence of traffic control devices and adverse weather conditions, as reported by the data vendor.
 - **Average Percent of Free Flow:** Average of ratio of speed observations relative to free flow speed within the selected granularity time period.
 - **Median Percent of Free Flow:** Median of ratio of speed observations relative to free flow speed within the selected granularity time period.
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- **Travel Time**
 - **Average Travel Time:** The average of travel time observations over the selected aggregation time period, in minutes, it takes to travel across the route.
 - **Median Travel Time:** The median of travel time observations over the selected aggregation time period, in minutes, it takes to travel across the route.
 - **Delay in Minutes (FF):** This is the amount of extra time spent by a vehicle over and above the time it takes to traverse a route at Free Flow speed.
 - **Delay in Minutes (SL):** This is the amount of extra time spent by a vehicle over and above the time it takes to traverse a route at Speed Limit.
- **Reliability**
 - **Travel Time Index (FF):** The ratio of the average travel time to the free-flow travel time.
 - **Travel Time Index (SL):** The ratio of the average travel time to the speed limit travel time.
 - **Planning Time Index:** The ratio of 95th percentile travel time to the free-flow travel time.
- **Data Quality**
 - **Average Confidence:** Average value of the confidence scores of the records within the specified time interval. The confidence score is provided by the data provider. For HERE data, it ranges between 0.7 and 1. A confidence value of 1 means that there was sufficient real-time sampled devices such that no historical data was used in the speed estimate. A confidence value of 0.7 means that the speed estimate is entirely based on the historical average. A confidence value of 0.5 means the speed estimate is filled in with the speed limit.
 - **Minimum Confidence:** Minimum value of the confidence scores of the records within the specified time interval
 - **Maximum Confidence:** Maximum value of the confidence scores of the records within the specified time interval
 - **# Samples:** Number of speed observations reported in the data feed within the specified time interval