

This folder contains metrics for the Origin-Destination trips between the zones of the named analysis and the Origin-Destination with Middle Filter(s) trips between the zones of the named analysis.

TERMS

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Origin zone: Trips analyzed that started in or initially passed through any of the origin zones.

Destination zone: Trips analyzed that ended in or passed through any of the destination zones after starting in or passing through an origin zone.

Middle Filter Zone: Trips analyzed that went through any of the middle filter zones after starting in or passing through an origin zone and before ending in or passing through a destination zone.

Pass-Through: A zone setting indicating how to analyze how trips interact with the zone. Zones marked as pass-through use trips that pass through the zone but do not start or stop in it. Zones not marked as pass-through use trips that start or stop in the zone.

Trip Purpose: This represents whether travelers are making inferred Home-Based Work, Home-Based Other or Non-Home Based trips.

Travel Time: This is the trip time in seconds starting at an origin zone and ending at a destination zone. While the travel time is calculated in seconds, the distribution bins are in minutes.

Trip Length: This is the trip length delivered in the chosen unit of measurement (miles or kilometers) starting at an origin zone and ending at a destination zone. It is dependent on the Trip Type (Unlocked or Locked to Route). Locked to Route trips are generally longer than Unlocked trips.

Trip Speed: This is the average speed delivered in the chosen unit of measurement (mph or kph) for the full length of trips starting at an origin zone and ending at a destination zone. It is dependent on the Trip Type (Unlocked or Locked to Route). Locked to Route trips generally have a slower average speed than Unlocked trips because they are longer.

FILES

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Area_OD.csv, Area_ODMF.csv, MF_OD.csv, Mixed_OD.csv, Mixed_ODMF.csv

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These files contain the OD and ODMF metrics.

The fields are:

- Origin zone Name: Name for the origin zone.
- Destination zone Name: Name for the destination zone.
- Middle Filter Zone Name: Name for the middle filter zone.
- O-D Traffic (sample): The total sample of trips from the origin zone to the destination zone.
- Scaled Trips (sample): The total scaled sample of trips from the origin zone to the destination zone.
- Avg Travel Time (sec): Average time (in seconds) for the trips from the origin zone to the destination zone. Avg Travel Time can sometimes have an N/A value when the origin zone and destination zone are the same, overlapping, or when all the intersecting trips fail StreetLight's data quality checks for travel time.
- Avg Travel Time (sec): The average trip time in seconds for low network factor* trips starting at the origin zones and ending at the destination zones.
- Avg All Travel Time (sec): The average trip time in seconds for all trips starting at the origin zones and ending at the destination zones.

- Travel Time X-Y min (percent): The percent of all trips starting at the origin zones and ending at the destination zones for which the trip time is in the bin from X to Y minutes.**
- Avg Trip Length (mi or km): The average trip length in miles for low network factor* trips starting at the origin zones and ending at the destination zones.
- Avg All Trip Length (mi or km): The average trip length in miles for all trips starting at the origin zones and ending at the destination zones.
- Trip Length X-Y mi or km (percent): The percent of all trips starting at the origin zones and ending at the destination zones for which the trip length is in the bin from X to Y miles.**
- Avg Trip Speed (mph or kph): The average trip speed in mph for low network factor* trips starting at the origin zones and ending at the destination zones.
- Avg All Trip Speed (mph or kph): The average trip speed in mph for all trips starting at the origin zones and ending at the destination zones.
- Trip Speed X-Y mph or kph (percent): The percent of all trips starting at the origin zones and ending at the destination zones for which the average speed is in the bin from X to Y mph.**
- Trip Circuitry X-Y (percent): The percent of all trips starting at the origin zones and ending at the destination zones for which the trip circuitry is in the bin from X to Y.**

The Trip Purpose fields are:

- Purpose HBW (percent): Percent of travel that is home-based work (i.e. home-to-work or work-to-home).
- Purpose HBO (percent): Percent of travel that is home-based other (i.e. from or to home, but not home-based work).
- Purpose NHB (percent): Percent of travel that is not home-based (i.e. not from or to home).

*.(dbf|prj|shp|shx|cpg)

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These files comprise the shapefiles for the analysis's zone sets.

A shapefile consists of the following several files:

.shp file contains the feature geometries and can be viewed in a geographic information systems application such as QGIS.

.dbf file contains the attributes in dBase format and can be opened in Microsoft Excel.

.shx file contains the data index.

.prj file contains the projection information.

.cpg file contains the encoding applied to create the shapefile.

These shapefiles have the following attributes/columns:

- id: Numeric ID for the zone as provided by the user.
- zone_name: Name for the zone.
- is_external: Indicates if the zone is external or not. true = "Yes" and false = "No".
- is_pass: Indicates if the zone is pass-through or not as described above under Terms. true = "Yes" and false = "No".
- geom: Polygon of the zone.
- layer: Indicates if the zone is an area zone, middle filter zone, or pass-through gate zone.

NOTES

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OD Pairs with No Values

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If the output unit values for an OD pair are below StreetLight's significance threshold, no results will be shown in the *.csv file.

Day Part Calculations

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The Day Part calculations are done in relation to the zones used in the analysis.

The O-D Trip Count values Day Parts are calculated in relation to the origin zone. The Day Part is determined when trips either start in the origin zone or pass by the centroid of the origin zone, if the origin zone is designated as pass-through.

The origin zone values Day Parts are also calculated in relation to the origin zone.

The destination zone values Day Parts are calculated in relation to the destination zone. The Day Part is determined when trips either end in the destination zone or pass by the centroid of the destination zone, if the destination zone is designated as pass-through.

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