

## **TripSum Quick Reference**

#### **Version 4.0.19**

#### **Revision History**

1/8/2010 Edited by AECOM Consult, Inc.

4/15/2010 Edited by RSG, Inc.

#### Syntax:

## TripSum [-flag] [control\_file] [partition]

#### Purpose:

- 1. Summarize trip or activity file records for reports.
- 2. Select trip or activity file records for output to a new file.
- 3. Select and/or summarize by mode, trip purpose, origin or destination zone or polygon.
- 4. Randomly select a subset of trips or activity by origin, destination and time period.
- 5. Generate trip time and distance distributions by mode and trip purpose.
- 6. Produce zone or district trip tables by mode and time of day.
- 7. Summarize trip ends by link, location, and/or zone.
- 8. Generate demand/capacity ratio reports by link and time of day.
- 9. Create diurnal distributions of the start, end, and mid-trip times.
- 10. Expand travel statistics from survey activities to the total population.

## Required Keys

TRIP_FILE (1)	[project_directory]filename
ACTIVITY_FILE (1)	[project_directory]filename

## **Optional Keys**

TITLE	Text
REPORT_FILE	Filename
REPORT_FLAG	FALSE {true/false/yes/no/1/0}
MAX_WARNING_MESSAGES	100,000
MAX_WARNING_EXIT_FLAG	TRUE {true/false/yes/no/1/0}
PROJECT_DIRECTORY	Pathname
DEFAULT_FILE_FORMAT	VERSION3 {(4)}
TRAVELER_SCALING_FACTOR	100 {2100}
NET_DIRECTORY	Pathname
NET_NODE_TABLE	[net_directory]filename
NET_LINK_TABLE	[net_directory]filename
NET_ACTIVITY_LOCATION_TABLE	[net_directory]filename
NET_LANE_USE_TABLE	[net_directory]filename
NET_PROCESS_LINK_TABLE	[net_directory]filename

VEHICLE_FILE (2)	[project_directory]filename
New_Trip_File (2)	[project_directory]filename
New_Activity_File (2)	[project_directory] filename
NEW_VEHICLE_FILE (2)	[project_directory]filename
HOUSEHOLD_LIST	[project_directory] filename[.partition]
HOUSEHOLD_PERSON_COUNT (7)	[project_directory] filename[.partition]
TIME_OF_DAY_FORMAT	SECONDS {(3)}
SUMMARY_TIME_PERIODS	All (4)
SUMMARY_TIME_INCREMENT	15 minutes {0240}
SUMMARY LENGTH INCREMENT	500 meters {102000}
SELECT_TRIP_MODES	All (5)
SELECT_TRIP_PURPOSES	All (5)
SELECT_ORIGIN_ZONES	All (5)
SELECT_DESTINATION_ZONES	All (5)
SELECT_ORIGIN_POLYGON	[project_directory]filename.shp
SELECT_DESTINATION_POLYGON	[project_directory]filename.shp
SELECT_PROBABILITY_FILE	[project_directory]filename
TIME_PERIOD_EQUIVALENCE	[project_directory]filename
RANDOM NUMBER SEED	Computer clock time {>=0}
CREATE_INDEPENDENT_TRIPS	FALSE {true/false/yes/no/1/0} (8)
STARTING_HOUSEHOLD_ID	1 {>=1}
STARTING_VEHICLE_ID	1 {>=1}
New_Household_List	[project_directory]filename[.partition]
NEW_LINK_TRIP_END_FILE	[project_directory]filename
NEW_TIME_DISTRIBUTION	[project_directory]filename
NEW_TRIP_TABLE_FILE	[project_directory]filename
NEW_TRIP_TIME_FILE	[project_directory]filename
ZONE_EQUIVALENCE_FILE (6)	[project_directory]filename
NEW_TRIP_DISTANCE_FILE	[project_directory]filename
DISTANCE_CALCULATION	STRAIGHT_LINE {(7)}
NEW_LOCATION_TRIP_END_FILE	[project_directory]filename
NEW_ZONE_TRIP_END_FILE	[project_directory]filename
NET_DEFAULT_FORMAT	[default_file_format] {(4)}
NET_NODE_FORMAT	[net_default_format] {(4)}
NET_LINK_FORMAT	[net_default_format] {(4)}
NET_ACTIVITY_LOCATION_FORMAT	[net_default_format] {(4)}
NET_LANE_USE_FORMAT	[net_default_format] {(4)}
NEW_LINK_TRIP_END_FORMAT	[default_file_format] {(4)}
NEW_LOCATION_TRIP_END_FORMAT	[default_file_format] {(4)}
NEW_ZONE_TRIP_END_FORMAT	[default_file_format] {(4)}



New_Trip_Table_Format	[default_file_format] {(4)}
SELECT_PROBABILITY_FORMAT	[default_file_format] {(4)}

# Reports

TRIPSUM_REPORT_#	TOP_100_LINK_TRIP_ENDS
	TOP_100_LANE_TRIP_ENDS
	TOP_100_TRIP/CAPACITY_RATIOS
	PRINT_ZONE_EQUIVALENCIES
	TRIP_TIME_REPORT
	TRIP_LENGTH_SUMMARY
	TRIP_PURPOSE_SUMMARY
	MODE_LENGTH_SUMMARY
	MODE_PURPOSE_SUMMARY

## Notes

1	A trip or activity file is required, but not both.
2	If a new trip or activity file is created, an input vehicle and new vehicle files are required.
3	{HOURS, SECONDS, 24_HOUR_CLOCK, 12_HOUR_CLOCK}
4	Time Range (e.g., 0:006:00, 18:0023:00)
5	ID Range (e.g., 1000, 2000, 30003100)
6	The zone equivalence file aggregates trips into summary districts.
7	{STRAIGHT_LINE, RIGHT_ANGLE, SIMPLE_AVERAGE, WEIGHTED_AVERAGE}
8	Enables the program to convert each trip encountered in an input Plan File to a separate household and vehicle. Input and output vehicle files must be specified.

