LineSum Quick Reference

Version 4.0.11

Revision History
1/8/2010 Edited by AECOM Consult, Inc.
4/15/2010 Edited by RSG, Inc.

Syntax:

LineSum [-flag] [control_file]

Purpose:

1. Generate transit line summary reports including total riders and maximum load point by user-specified time periods by line and/or line group;
2. Generate line ridership reports showing boardings, alightings, and riders by time period and stop given multiple sets of line selection criteria;
3. Line selection criteria combinations of time period, mode number, route number, and subarea polyon;
4. Generate transit performance reports showing vehicle miles and hours, transit boardings and alightings, passenger miles and hours, and passengers per mile, hour, and vehicle for each time period by selection total or line group; and
5. Generate transit stop reports showing boardings and alightings by bus and rail for individual stops, stop groups, or time periods.
6. Generate screenline ridership reports showing riders and routes using selected links.

Required Keys

NET_LINK_TABLE	[net_directory]*filename*
NET_NODE_TABLE	[net_directory]*filename*
NET_TRANSIT_STOP_TABLE	[net_directory]*filename*
NET_TRANSIT_ROUTE_TABLE	[net_directory]*filename*
NET_TRANSIT_SCHEDULE_TABLE	[net_directory]*filename*
NET_TRANSIT_DRIVER_TABLE	[net_directory]*filename*
RIDERSHIP_FILE	[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)}

NET_DIRECTORY	*Pathname*
SELECTION_DESCRIPTION	Text
SUMMARY_TIME_PERIODS	All (1)
SUMMARY_TIME_INCREMENT	Daily {time duration}
TIME_PERIOD_METHOD	RUN_MIDPOINT {(3)}
SELECT_TRANSIT_MODES	All {list of type strings (6)}
SELECT_TRANSIT_ROUTES	All {list of type strings (2)}
SELECT_SUBAREA_POLYGON	[project_directory]*filename.shp*
SELECTION_DESCRIPTION_* (5)	Text
SUMMARY_TIME_PERIODS_*	All (1)
SUMMARY_TIME_INCREMENT_*	Daily {time duration}
TIME_PERIOD_METHOD_*	RUN_MIDPOINT {(3)}
SELECT_TRANSIT_MODES_*	All {list of type strings (6)}
SELECT_TRANSIT_ROUTES_*	All {list of type strings (2)}
SELECT_SUBAREA_POLYGON_*	[project_directory]*filename.shp*
STOP_EQUIVALANCE_FILE	[project_directory]*filename*
LINE_EQUIVALANCE_FILE	[project_directory]*filename*
LINK_EQUIVALANCE_FILE	[project_directory]*filename*
NET_DEFAULT_FORMAT	[default_file_format] {(4)}
NET_LINK_FORMAT	[net_default_format] {(4)}
NET_NODE_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_STOP_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_ROUTE_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_SCHEDULE_FORMAT	[net_default_format] {(4)}
NET_TRANSIT_DRIVER_FORMAT	[net_default_format] {(4)}
RIDERSHIP_FORMAT	[default_file_format] {(4)}
VEHICLE_TYPE_FILE	[project_directory]*filename*
VEHICLE_TYPE_FORMAT	[default_file_format] {(4)}
NEW_RUN_SCHEDULE_FILE	[project_directory]*filename* (7)
NEW_RUN_CAPACITY_FILE	[project_directory]*filename* (8)

Reports

LINESUM_REPORT_#	LINE_RIDERSHIP_REPORT
	LINE_SUMMARY_REPORT
	TRANSIT_PERFORMANCE_REPORT
	LINE_RIDERSHIP_REPORT_* (5)
	LINE_SUMMARY_REPORT_* (5)
	TRANSIT_PERFORMANCE_REPORT_* (5)
	CAPACITY_CONSTRAINED_REPORTS_* (5)
	TRANSIT_STOP_GROUP_SUMMARY

	TRANSIT_STOP_GROUP_DETAILS
	TRANSIT_STOP_GROUP_BY_STOP
	PRINT_STOP_EQUIVALENCIES
	LINE_GROUP_SUMMARY_REPORT
	LINE_GROUP_PERFORMANCE_REPORT
	PRINT_LINE_EQUIVALENCIES
	TRANSIT_LINK_GROUP_SUMMARY
	PRINT_LINK_EQUIVALENCIES

Notes

1	Time Range (e.g., 0:00..6:00, 18:00..23:00)
2	ID Range (e.g., 1000, 2000, 3000..3100)
3	RUN_START, RUN_MIDPOINT, RUN_END, SCHEDULE_START, SCHEDULE_MIDPOINT, SCHEDULE_END
4	{VERSION3, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, LANL, SQLITE3}
5	The "*" is replaced by an integer selection group that corresponds to the report with the same selection group number.
6	BUS, LOCAL_BUS, EXPRESS, EXPRESS_BUS, TROLLEY, STREETCAR, LIGHTRAIL, RAPIDRAIL, REGIONRAIL
7	The new schedule summary file includes the number of transit runs that start and end by time period increment.
8	The new run capacity file includes a summary of the number of runs in each route and time period that have ridership demand exceeding transit vehicle capacity. VEHICLE_TYPE_FILE is required for this summary.