

LineSum Quick Reference

Version 4.0.8

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 polygon;
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)}

Reports

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