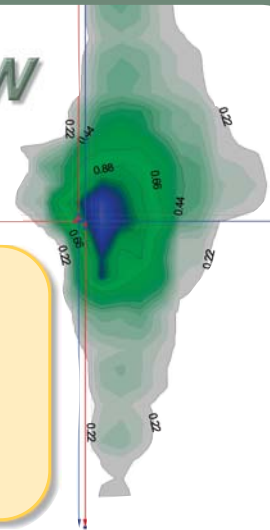


CALRoads View

Traffic Air Dispersion Model



Model Descriptions

CALINE4

CALINE4 predicts air concentrations of carbon monoxide (CO), nitrogen dioxide (NO₂), and suspended particles near roadways. Options are available for modeling near intersections, parking lots, elevated or depressed freeways, and canyons.

CAL3QHC

CAL3QHC estimates total air pollutant concentrations (CO or PM) near highways from both moving and idling vehicles. This model also estimates the length of queues formed by idling vehicles at signalized intersections.

CAL3QHCR

CAL3QHCR is an enhanced version of CAL3QHC, that can process up to a year of hourly meteorological data. Vehicular emissions, traffic volume, and signalization (ETS) data can be specified for each hour of a week.

CALRoads View combines three popular mobile source air dispersion models, CALINE4, CAL3QHC, and CAL3QHCR, into one seamless integrated graphical interface. This package is used for predicting air pollution concentrations of carbon monoxide (CO), nitrogen dioxide (NO₂), particulate matter (PM), and other inert gases from idle or moving motor vehicles.

Interface Features

- ▶ Easy data entry (text mode, graphical mode, import mode, wizard mode)
- ▶ Urban and Rural modes
- ▶ Input/output in meters or feet
- ▶ Import CALINE4, CAL3QHC, and CAL3QHCR input files
- ▶ Annotation tools allow you to customize your input and output views
- ▶ Ability to move, rotate, delete, and resize objects graphically
- ▶ Full control over contouring colors, levels, smoothing, shading and posting
- ▶ Base maps in ESRI Shapefile, DLG, LULC, AutoCAD DXF, Bitmap, JPEG, TIFF, GeoTIFF, and MrSID

Links (roadway)

- ▶ At grade, depressed, fill, bridge
- ▶ Parking lots
- ▶ Intersections/queue
- ▶ Links Grouping
- ▶ Active/inactive feature
- ▶ Import feature

Receptors (unlimited)

- ▶ Discrete receptors or grids
- ▶ Active/inactive feature
- ▶ Import/export feature

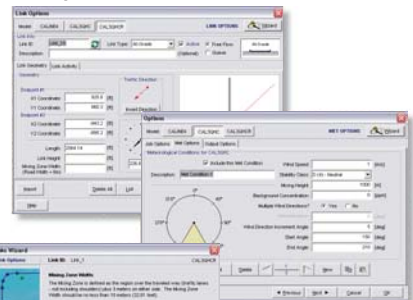
Meteorology

- ▶ Analyze multiple wind directions and met conditions
- ▶ ISC hourly met data (CAL3QHCR)

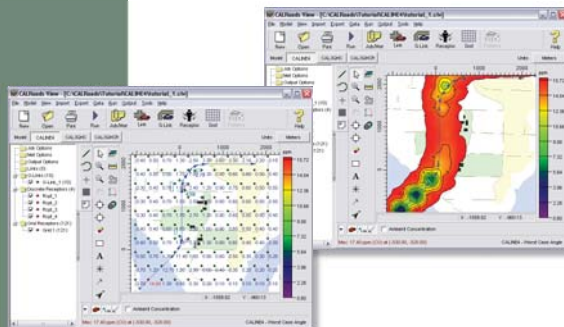
Graphical Tools

- Links
- Link Groups
- Discrete Receptors
- Grid Receptors

Link Options



Meteorology Options



Export Options

- ▶ Bitmap
- ▶ Enhanced Metafile
- ▶ Shapefile