

envitrans®

CALINEpro

An air quality model to predict
pollutant concentration near
highways

CALINEpro is a graphical interface of CALINE3 model by U.S. EPA,
(refer Preferred/Recommended Models)



ENVITRANS® is a specialist environmental service provider in India with key expertise in the fields of scientific software, computational modelling, meteorological data processing, environmental information management systems (EIMS) development and training.

About

CALINEpro is an air quality model used to predict pollutant concentration near highways. Given source strength, meteorology and site geometry, the model can predict pollutant concentrations for receptors located within 500 meters of the roadway. It also has special options for modeling air quality near intersections, bridge and parking facilities. The model is based on CALINE3's algorithm (See U S EPA Preferred/Recommended Models). It divides individual highway links into a series of elements from which incremental concentrations are computed and then summed to form a total concentration estimate for a receptor location.

Better Treatment of Mobile Emission Sources

Downwind concentrations from the element are modelled using the crosswind FLS (Finite Line Source) Gaussian formulation, but σ_y and σ_z are modified to consider the mechanical turbulence created by moving vehicles and the thermal turbulence created by hot vehicle exhaust in the region directly over the highway, region considered as a zone of uniform emissions and turbulence.

Integrated Graphical User Interface

Fully integrated interface, easy to add objects like sources, receptors, plot isopleth, wind rose and reporting.

Visualization: Overlay Outputs

Integrated post-processing with automatic gridding and contouring. Customize isopleth levels, colour, transparency, labels, fonts etc. Customize overlay, base-map, max GLC, GLC at discrete receptor, wind rose etc.



System requirements:

- Windows 7 or Windows 10
- 1.6 GHz or higher
- 4 GB RAM
- Mouse or other pointing device
- Internet Connection
- On network, port 1947 must be open

PAYGo

In our continual effort to serve the environmental professionals better, ENVITRANS has come forward with an economical option to purchase our software via the pay as you go model. This option lets you access software on a quarterly, or annual basis, so you can control your costs and your commitments.



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