

Category: Misc Portable Equipment

California's Miscellaneous Portable Equipment emissions inventory is an estimate of the amount and types of pollutants emitted from portable equipment used in miscellaneous off-road applications. The equipment that make up this category are from California's Portable Equipment Registration Program and currently only includes diesel engines.

This category has one equipment type that is a catch-all:

Equipment Type	Fuel Type	2000 Population
Misc Portable Equipment	D	92

The annual activity in hours/year is:

Equipment Type	Fuel Type	(hr/yr) Activity
Misc Portable Equipment	D	484

Emissions Inventory:

As with other OFFROAD equipment types, the emissions inventory for Misc Portable Equipment is calculated as the product of the emission rate (in grams per horsepower-hour), engine population, and activity (hours per year) in annual average use hours.

[Calculating Emissions Inventory \(PDF Format\)](#)

For the current emissions inventory (tons/day):

[Air Resources Board Almanac](#)

Input Data Sources:

The input factors used by the OFFROAD Model are obtained from various data sources listed below:

Input Factor	Source of Data
Population (base year 2000)	Statewide Portable Engine Registration Program (2004)
Useful Life	Power Systems Research (1996)
Activity (hr/yr)	Power Systems Research (1996)
Average horsepower	Power Systems Research (1996)
Load factor	Power Systems Research (1996)
Allocation factor	Energy & Environmental Analysis (EEA) document (1995)
Growth factor	DRI/McGraw-Hill employment data (1994)
Survival rate	Power Systems Research (1996)

For more additional background information on the input factors used by the OFFROAD Model: [\(Document Link\)](#)

For tables of input data for Misc Portable Equipment: [\(Document Link\)](#)

Adopted Regulations for Other Portable Equipment:

2005: *(Reflected in OFFROAD Model)* Board approved Regulation to Establish a Statewide Portable Equipment Registration Program. [\(Document Link\)](#)

2004: *(Reflected in OFFROAD Model)* Board approved amendment to California's existing off-road diesel regulations to harmonize with USEPA Tier 4 regulation (40 CFR 1039). [\(Document Link\)](#)

2000: *(Reflected in OFFROAD Model)* Board approved the emissions inventory for off-road large CI engines (≥ 25 hp) from the OFFROAD Model. [\(Document Link\)](#)

Future Improvements to the Misc Portable Equipment Category:

The emissions inventory from the OFFROAD Model strives to accurately represent the 'real-world' as accurately as possible. Therefore, the methodologies and data sources are constantly re-evaluated and updated where applicable. The following items are future improvements for the misc portable equipment category:

- Update population and activity values as new data becomes available
- Revise growth factors using REMI employment data (2001)
- Allocate equipment from the county down to the neighborhood level (GIS)