

Emission Inventory Overview

Types of Inventories

- Annual Average
- Planning
 - Summer Ozone Planning
 - Winter CO Planning
- Forecasted
- Gridded / Modeling

Criteria Pollutants

TOG: Total Organic Gases

ROG: Reactive Organic Gases

CO: Carbon Monoxide

NOX: Oxides of Nitrogen

SOX: Oxides of Sulfur

PM: Particulate Matter

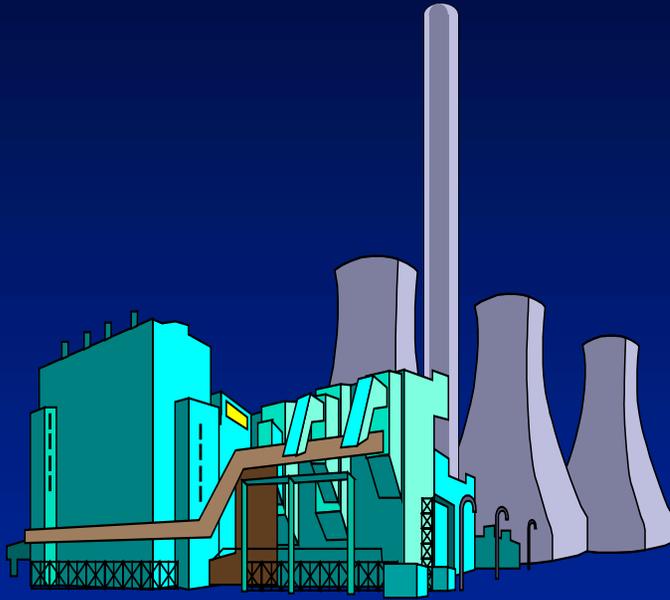
PM10: Particulate Matter \leq 10 Microns

PM2.5: Particulate Matter \leq 2.5 Microns

Types of Sources

- Stationary
- Area-Wide
- Mobile
- Non-Anthropogenic

Stationary Sources



Point

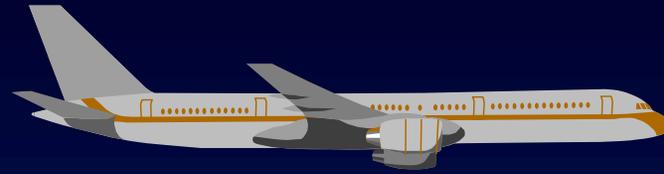


Aggregated
Point

Area-Wide



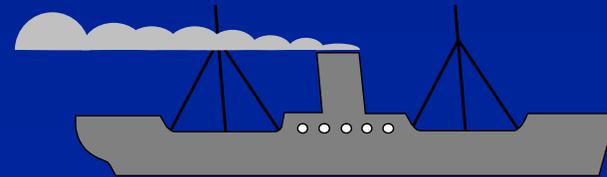
Mobile



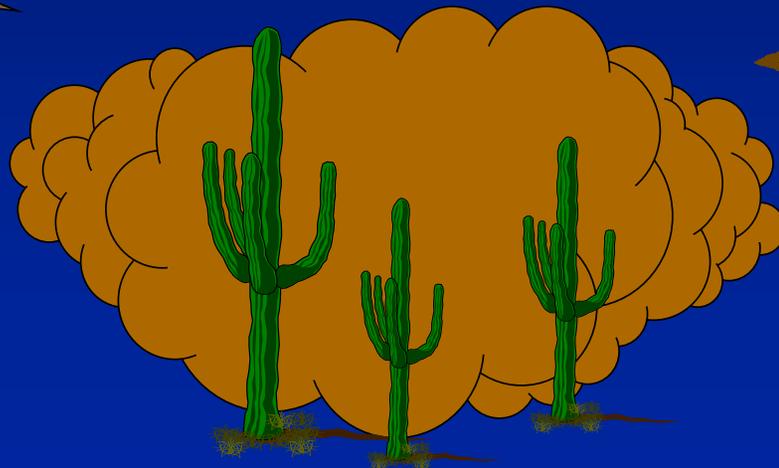
Non-Road



On-Road



Non-Anthropogenic



How Do We Identify and Categorize Sources?

- Point Sources
 - Combination of SCC and SIC Codes
 - Each SCC/SIC Combination is Mapped to an EIC
- Area Sources
 - Each category is assigned a unique EIC

How Do We Estimate Emissions?



Emission Calculation

**Process Rate
(Activity)**

Emission Factor

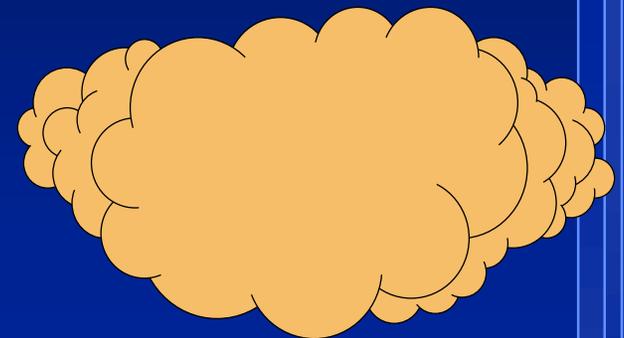
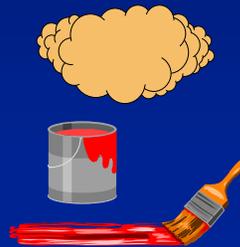
Number of
Units

x

Emissions
per Unit

=

**Total
Emissions**



Responsibilities

- Local Districts
 - Develop Local Point Source Inventory
 - Estimate Emissions for 1/3 of Area Source Categories
- ARB
 - Estimate Mobile Source Emissions
 - Estimate Emissions for 2/3 of Area Source Categories
 - Develop and Report Statewide Inventory

CEIDARS

- The California Emission Inventory Development and Reporting System
- A Relational Database System
- Stores Annual Average Emissions for All Source Types

CEIDARS

- Reconciles Point and Area Source Emissions
- Also Stores Temporal and Spatial Data
- Provides Base Year Inventories for CEFS