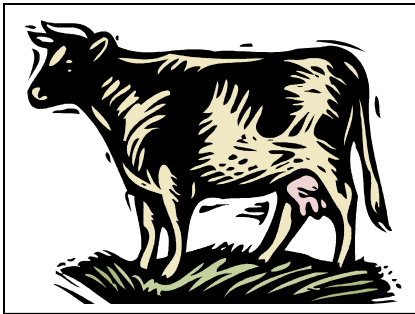




CENTER ON RACE, POVERTY & THE ENVIRONMENT
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Ozone and Fine Particulate Matter Pollution: *Our San Joaquin Valley has the worst air in the U.S.*



What is ozone pollution?

What is fine particulate matter pollution?

Why should I care?

Ground-level **ozone** and fine **particulate matter** are the **air pollutants** making the San Joaquin Valley one of *the most polluted air basins in the U.S.*

- **Ozone** is a summertime pollutant formed by a reaction between volatile organic compounds (**VOC**) and oxides of nitrogen (**NOx**).
- **Fine Particulate Matter** is a wintertime problem, when fine particulate matter from diesel trucks formed in damp, cool air mixes with ammonia, NOx and VOCs create extremely high levels of pollutants.

Why are these types of air pollution important?

- Ozone and fine particulate matter pollution cause premature death, exacerbate respiratory conditions, including asthma, increase hospitalizations and emergency room visits, contribute to cardiac illnesses, and increase school and work absenteeism. (American Lung Association, *State of the Air: 2009*).

TOP Sources of OZONE Pollution (VOCs + NOx):

5 Biggest Sources of VOCs

Category	Tons Per Day	Percentage
Confined Animal Facilities	65.4	14.4 %
Composting Green Waste	51	11.2 %
Car Emissions	31.1	6.8 %
Oil and Gas Production	27.9	6.1 %
Pesticides	23	5.1 %
All Sources	454.1	100 %

5 Biggest Sources of Nox

Category	Tons Per Day	Percentage
Diesel Trucks	234.4	40.7 %
Mobile Off-road Equipment	11.3 %	11.3 %
Mobile Agricultural Equipment	64	10.3 %
Light Duty Trucks	28.9	4.6 %
Cars	21.8	3.5 %
All Sources	624	100 %

Sources: San Joaquin Valley Unified Air Pollution District

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