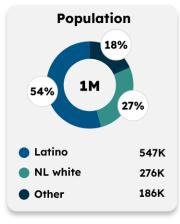
# AIR POLLUTION

#### Latino Policy & Politics Institute UCLA Climate & Health Dashboard

## Fresno County

## **County Statistics**

## **Factors Influencing Exposure to Air Pollution**



Age Latino: 28 yrs NL white: 46 yrs **Noncitizen Population** 

Latino: 16% NI white: 2% **Limited English** 

**Proficiency** Latino: 25%

NL white: 2%



**Households** Latino: 55% NL white: 34%



Rate

Latino: 24% NL white: 11%



**Median Income** (Household)

Latino: \$57k NL white: \$81k



Benefits

Latino: 25% NL white: 10%



**Insecurity** Latino: 23% NL white: 10%



Latino: 9% NL white: 4%



**Health Status** Latino: 18%

NL white: 12%

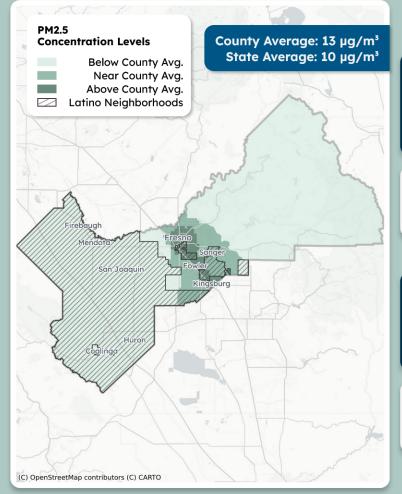


Expectancy Latino: 77 yrs NL white: 77 yrs

# **Neighborhood Statistics**

### **Air Pollutants**

## Latino Neighborhoods and Exposure to Particulate Matter 2.5 (PM2.5), 2015-2017



Note:  $\mu g/m^3$  = one-millionth of a gram per cubic meter of air Note: California's state standard for PM2.5 is an annual average of 12  $\mu$ g/m<sup>3</sup>, while the federal standard is 9  $\mu$ g/m<sup>3</sup>. There is no state or federal or state standard for Diesel PM.

#### PM2.5

PM2.5 is produced from sources like vehicle exhaust, wildfires, and industrial activity. These fine air particles enter the lungs and bloodstream and worsen conditions like asthma and heart disease.

Latino neighborhoods had similar exposure to PM2.5 as NL white neighborhoods.

> **13** μg/m³ Latino neighborhoods

11 μg/m<sup>3</sup>

**NL white** neighborhoods

Annual mean concentration

### **Diesel PM**

Diesel emissions from vehicles and heavy-duty equipment release harmful particulate matter. Exposure to diesel exhaust can raise blood pressure, trigger heart attacks, and worsen lung conditions.

Latino neighborhoods had higher exposure to diesel PM than NL white neighborhoods.

> 0.18 tons/year Latino neighborhoods

0.05 tons/year NL white neighborhoods

**Emissions** 

Latino neighborhoods = Census tracts with 70%+ Latino residents NL white neighborhoods = Census tracts with 70%+ NL white residents

<sup>\*</sup>NL white = Non-Latino white

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## **Neighborhood Statistics (cont.)**

## **Proximity to Major Sources of Air Pollution**

Note: Exposure and proximity scores take into account the number of sites/facilities and their proximity to neighborhoods. Higher scores = more exposure to pollutants for residents.

Cleanup sites, , such as Superfunds, are polluted with materials like lead and asbestos. Examples include old and abandoned processing plants and manufacturing facilities.

#### **Exposure Score**

Latino neighborhoods **NL** white neighborhoods

## into the air, water, and soil.

Hazardous waste facilities are

treatment, storage, and disposal sites.

They can release toxic substances such

as carcinogens, mercury, and asbestos

**Exposure Score** 

0.5 0.2

Latino neighborhoods NL white neighborhoods

RMP facilities are sites where hazardous chemicals—like propane, pesticides, ammonia, and explosives—are present, posing risks to the environment and communities if released.

#### **Proximity Score**

2.0 0.2

Latino neighborhoods **NL white** neighborhoods

## **Vehicle Types and Traffic**

#### Lower-emission vehicles (LEVs)

use battery electric, plug-in hybrid, or hybrid technology to reduce greenhouse gas emissions.

% of LEVs owned

2% 6%

Latino neighborhoods **NL** white neighborhoods

**Clunker vehicles** (vehicles 20 years or older) emit high levels of pollutants because they lack advanced emission-control equipment.

% of clunker vehicles owned

13% 13%

Latino neighborhoods **NL** white neighborhoods Traffic density measures the concentration of vehicles on roads within an area. Neighborhoods near major roadways face greater exposure to harmful emissions released from vehicles.

#### Vehicle kilometers per hour

548 km/hr 403 km/hr

Latino neighborhoods NL white neighborhoods

## **Vulnerable Groups**

Age

Children and older adults are more vulnerable to air pollution and have a higher risk of developing respiratory and cardiovascular diseases.

7% ages 0-5 10%

ages 65+ Latino neighborhoods 5%

19%

ages 0-5 ages 65+ NL white neighborhoods

### Health

Air pollution worsens pre-existing health conditions like asthma and coronary heart disease, increasing emergency visits and health complications. Long-term exposure to air pollution can cause chronic illness and premature death.

#### % of Adults (18+) with Pre-Existing Conditions

6% Latino

**NL** white neighborhoods neighborhoods

**Coronary Heart Disease** 

11% Latino

10% NL white

neighborhoods neighborhoods

**Asthma** 

## Low Birth Weight (LBW) Babies

LBW babies are born under 5 lbs. LBW increases the risk of infant mortality, developmental delays, and chronic health conditions. Exposure to air pollution, such as PM2.5, contributes to higher rates of LBW

babies.

% of Infants

6%

Latino neighborhoods

\*\*\*\*

5%

**NL** white neighborhoods

#### Emergency Department Visits (per 10,000 people)

18

Latino **NL** white neighborhoods neighborhoods

**Heart Attacks** 

94

40

Latino **NL** white neighborhoods neighborhoods

Asthma Attacks

### Disadvantaged Communities

The CA Environmental Protection Agency defines disadvantaged communities based on their environmental pollution burden and population characteristics. Under Senate Bill 535, revenue from CA's Cap-and-Trade Program is partly directed toward these communities through the CA Climate Investments program to reduce pollution, enhance climate resilience, and improve health and economic well-being.

% of Disadvantaged Communities

98%

Latino

0% **NL** white neighborhoods neighborhoods