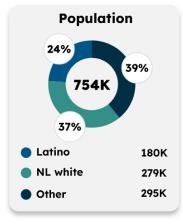
# AIR POLLUTION

# UCLA Latino Policy & Politics Institute Climate & Health Dashboard

# San Mateo County

## **County Statistics**

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



Median
Age
Latino: 33 yrs
NL white: 48 yrs

Noncitizen Population

Latino: 23% NL white: 6% AZ Limited English

Proficiency
Latino: 28%

NL white: 4%

Households Latino: 58% NL white: 34% H

Rate Latino: 10% NL white: 5% **(9** 

Median Income (Household)

Latino: \$99k NL white: \$167k



SNAP Benefits

Latino: 10% NL white: 2%



Insecurity Latino: 21% NL white: 11%



Latino: 9% NL white: 2%



Health Status Latino: 12% NL white: 6%

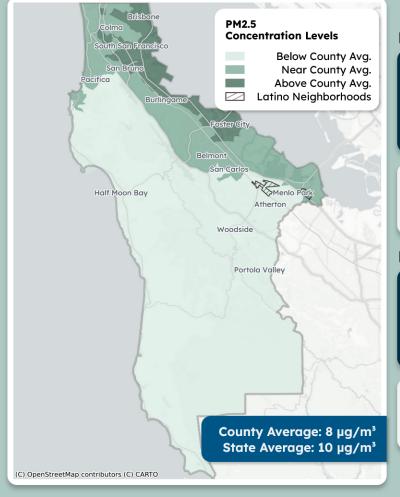


Latino: 86 yrs NL white: 83 yrs

# **Neighborhood Statistics**

## **Air Pollutants**

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



Note:  $\mu$ g/m³ = 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/m³, while the federal standard is 9  $\mu$ g/m³. 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 <u>bloodstream and</u> worsen conditions like asthma and heart disease.

Latino neighborhoods had <u>the same exposure</u> to PM2.5 as NL white neighborhoods.

8 μg/m³ Latino neighborhoods

8 μg/m³ 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 <u>higher exposure</u> to diesel PM than NL white neighborhoods.

**0.31** tons/year Latino neighborhoods

0.08 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

## Hazardous waste facilities are

treatment, storage, and disposal sites. They can release toxic substances such as carcinogens, mercury, and asbestos into the air, water, and soil.

#### **Exposure Score**

1.4 0.5

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**

0.0 0.0

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

4% 19%

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

14%

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

Traffic density measures the concentration of

#### Vehicle kilometers per hour

1189 km/hr 715 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% 22%

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

4%

Latino **NL** white neighborhoods neighborhoods

**Coronary Heart Disease** 

10% Latino

9% 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

4%

**NL** white neighborhoods

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

10

Latino **NL** white neighborhoods neighborhoods

**Heart Attacks** 

**57** 

26

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

25%

Latino neighborhoods

0% **NL** white neighborhoods