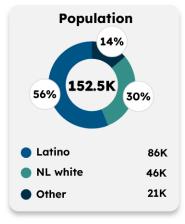
AIR POLLUTION

UCLA Latino Policy & Politics Institute Climate & Health Dashboard

Kings County

County Statistics

Factors Influencing Exposure to Air Pollution



Median
Age
Latino: 28 yrs
NL white: 39 yrs

Noncitizen Population

Latino: 18% NL white: 2% A_Z

Limited English
Proficiency

Latino: 34% NL white: 1%



Households Latino: 52% NL white: 35% H

Rate

Latino: 21% NL white: 9%



Median Income (Household)

Latino: \$57k NL white: \$84k



SNAP Benefits

Latino: 22% NL white: 9%



Insecurity
Latino: 22%
NL white: 10%



Latino: 10% NL white: 4%



Health Status Latino: 18%

NL white: 16%



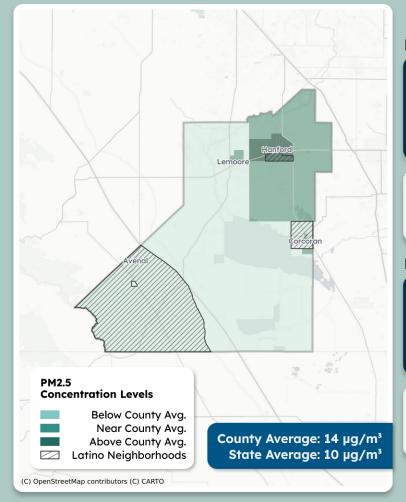
Expectancy

Latino: 78 yrs NL white: 77 yrs

Neighborhood Statistics

Air Pollutants

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



Note: μg/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 μg/m³, while the federal standard is 9 μg/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 bloodstream and worsen conditions like asthma and heart disease.

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

13 μg/m³ Latino neighborhoods **14** μg/m³

NL 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>the same exposure</u> to diesel PM as NL neighborhoods.

0.1 tons/year Latino neighborhoods

0.08 tons/year
NL neighborhoods

Emissions

Latino neighborhoods = Census tracts with 70%+ Latino residents
Non-Latino neighborhoods = Census tracts with 70%+ non-Latino
residents

^{*}NL white = Non-Latino white

Latino Policy & Politics Institute UCLA Climate & Health Dashboard

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** 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

0.3 0.3 Latino neighborhoods **NL** 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

1.1 0.7

Latino neighborhoods **NL** 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

1% 3%

Latino neighborhoods

NL neighborhoods

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

% of clunker vehicles owned

12% 11%

Latino neighborhoods **NL** neighborhoods

Vehicle kilometers per hour

Traffic density measures the concentration of

near major roadways face greater exposure to

harmful emissions released from vehicles.

vehicles on roads within an area. Neighborhoods

324 km/hr 398 km/hr

Latino neighborhoods **NL** 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.

9% ages 0-5 10%

ages 65+ Latino neighborhoods

8% ages 0-5

10% ages 65+

NL 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

neighborhoods neighborhoods

Coronary Heart Disease

11% 10% Latino

neighborhoods neighborhoods

Asthma

Emergency Department Visits (per 10,000 people)

23

Latino NL

neighborhoods neighborhoods

Heart Attacks

77

89 Latino NL

neighborhoods neighborhoods

Asthma Attacks

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

5%

Latino neighborhoods

NL neighborhoods

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

75%

Latino neighborhoods

neighborhoods