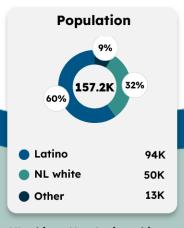
EXTREME HEAT

Latino Policy & Politics Institute UCLA Climate & Health Dashboard

Madera County

County Statistics

Factors Influencing Exposure to Extreme Heat



Median Age Latino: 28 NL white: 50 **Noncitizen Population**

Latino: 21% NL white: 1%

Limited English

Proficiency Latino: 30% NL white: 1%

Households Latino: 46% NL white: 21%

Rate Latino: 24% NL white: 12%

Median Income (Household)

Latino: \$65k NL white: \$80k



Latino: 27% NL white: 11% NL white: 11%



Food Uninsured Insecurity Rate Latino: 23%

Latino: 10% NL white: 4%

Fair/Poor **Health Status**

Latino: 24% NL white: 15%



Life Expectancy

Latino: 78 yrs NL white: 76 yrs

NL white = Non-Latino white

Neighborhood Statisti

Extreme Heat Days

Below County Avg.

Above County Avg.

County Average: 121 days State Average: 51 days

Lating Neighborhoods and Exposure to Extreme Heat Days (≥ 90°F), 2018-2022

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

Extreme heat days are defined as days where the temperature is at or π above 90°F. Exposure to extreme heat poses significant health risks.

Annual Number of Extreme Heat Days (2018-2022)

At 90°F, the risk of heat-related illnesses and conditions increases significantly.

Latino neighborhoods

neighborhoods **133** days **55** days

average days ≥ 90°F annually

Longest Period of Consecutive Extreme Heat Days (2022)

The Federal Emergency **Management Agency** defines a period of extreme heat in most of the U.S. as a period of 2 to 3 days above 90°F.

Latino neighborhoods

NL white neighborhoods

NL white

87 days

28 days

consecutive days ≥ 90°F annually

Projected Number of Extreme Heat Days by Mid-Century (2035-2064)

Looking forward, Latino neighborhoods are projected to experience a greater number of extreme heat days.

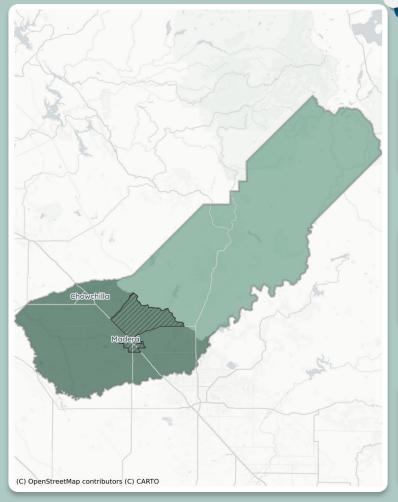
Latino neighborhoods

NL white neighborhoods

143 days

128 days

expected days ≥ 90°F annually





Neighborhood Statistics (cont.)

Barriers and Facilitators To Preventing Heat Exposure

Tree Canopy



Tree canopy is land shaded by trees. Less tree canopy (fewer trees) = **Increased** exposure to extreme heat

% of Land with Tree Canopy

4%

37% **NL** white

Latino neighborhoods

neighborhoods

Impervious Surfaces



Impervious surfaces are water-resistant surfaces such as concrete, asphalt, and

More impervious surfaces (like paved roads) = Increased exposure to extreme

% of Land with Impervious Surfaces

31%

Latino

neighborhoods

1% NL white neighborhoods

Older Housing Units



Older housing units are homes built before 1970 that often have poor insulation and inefficient HVAC systems. More older homes = Increased exposure to extreme heat

% of Older Housing Units

21%

Latino neighborhoods

21% **NL** white neighborhoods

Vulnerable Groups

Age

Children and older adults are at higher risk for heat-related illnesses.

32% 9% ages 0-18 ages 65+ Latino neighborhoods

16% 30% ages 0-18 ages 65+ NL white neighborhoods

Workers in Heat-Exposed Industries

Industries with the highest exposure to extreme heat include agriculture, construction, waste management, and warehousing. Jobs in these sectors carry increased risks of heat-related illnesses such as heat stroke, dehydration, chronic heat stress, and even premature death.

% of Workers in Heat-Exposed Industries

38%

Latino neighborhoods

20% NL white neighborhoods

Health

Extreme heat poses serious health risks, especially for people with conditions like heart disease, asthma, diabetes, and obesity. These individuals are more vulnerable because heat places extra stress on the body, worsening symptoms and increasing the risk of medical emergencies.

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

13% Latino

NL white neighborhoods neighborhoods

Diabetes

38% Latino

32% NL white

neighborhoods neighborhoods

Obesity

Emergency Department Visits (per 10,000 people)

31

Latino **NL** white neighborhoods neighborhoods

Heart Attacks

94

30

NL white Latino neighborhoods neighborhoods

Asthma Attacks

Heat-Related Emergency Department Visits

Heat-related emergency room visits serve as a critical indicator of a

neighborhood's vulnerability to extreme temperatures

and the effectiveness of its heat mitigation

strategies.

per 10,000 people

Latino neighborhoods

1

NL white 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

100%

Latino

neighborhoods

NL white neighborhoods

0%