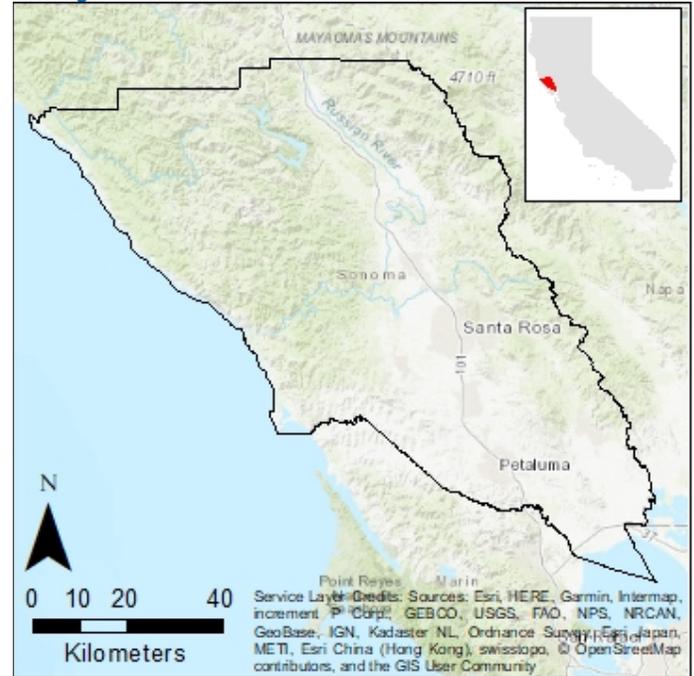




Sonoma County, CA and vicinity

Towns and cities rely on clean air, clean water, green space, and other natural amenities for economic sustainability and quality of life, yet their benefits are not always fully understood or considered in local decisions. EPA and its partners are producing EnviroAtlas to help communities better use environmental assets for public good.

EnviroAtlas includes an online interactive mapping application that anyone can use. The interactive map contains over 300 maps available for the U.S., as well as 100+ fine-scale maps for selected U.S. communities about existing and potential benefits from the local natural environment. The EnviroAtlas community component is based on 1-meter resolution land cover data. Information derived from these data is summarized by census block groups; more spatially explicit map layers are also provided. This fact sheet highlights some of the many community data layers available for the featured area of Sonoma County, California.



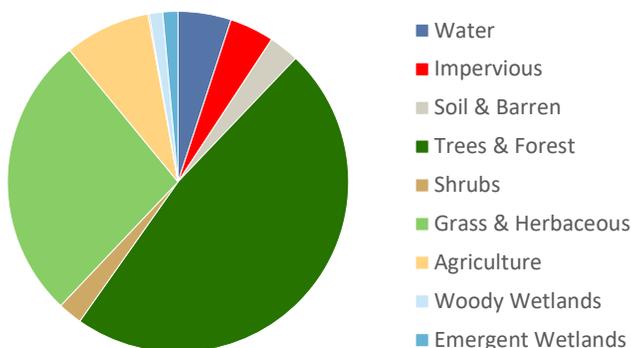
Background

The EnviroAtlas boundary for this area was determined using the Sonoma County boundary. It includes the cities of Santa Rosa, Petaluma, and Rohnert Park. The area measures 4,198 square kilometers, and encompasses 386 census block groups.

The area is in the Coastal Range and Central California Foothills and Coastal Mountains ecoregions. Due to its position along the coast and high elevation range, many microclimates exist across the county. The vegetation ranges from coastal shrubland and marshland to

undisturbed oak and redwood forests, although much of the natural vegetation has been cleared for cultivation and urbanization. Agriculture, namely viticulture and winemaking, and hospitality are major industries in Sonoma County. The County of Sonoma, Kaiser Permanente and Santa Rosa Junior College are among the largest employers. The demographics of the area indicate that the potential exists for income and other disparities in the distribution of environmental assets. EnviroAtlas includes demographic maps that can help screen for potential health and well-being disparities resulting from disproportionate distribution of urban greenery.

Percent Land Cover in Community Area



Sonoma County Area Demographics 2010 Census	
Total population	483,878
Under 13 years old	15.5%
Over 70 years of age	9.5%
Other than white/non-Hispanic	33.9%
Below twice the U.S. poverty level	25.3%

Ecosystem Services Overview

In EnviroAtlas, the benefits humans receive from nature are grouped into seven categories that demonstrate the interconnectedness of these ecosystem services:

- Clean air
- Clean and plentiful water
- Natural hazard mitigation
- Climate stabilization
- Recreation, culture, and aesthetics
- Biodiversity conservation
- Food, fuel, and materials (data available only for communities with farm land)

Examples of some of the data included in EnviroAtlas are detailed below:

Near-Road Environments

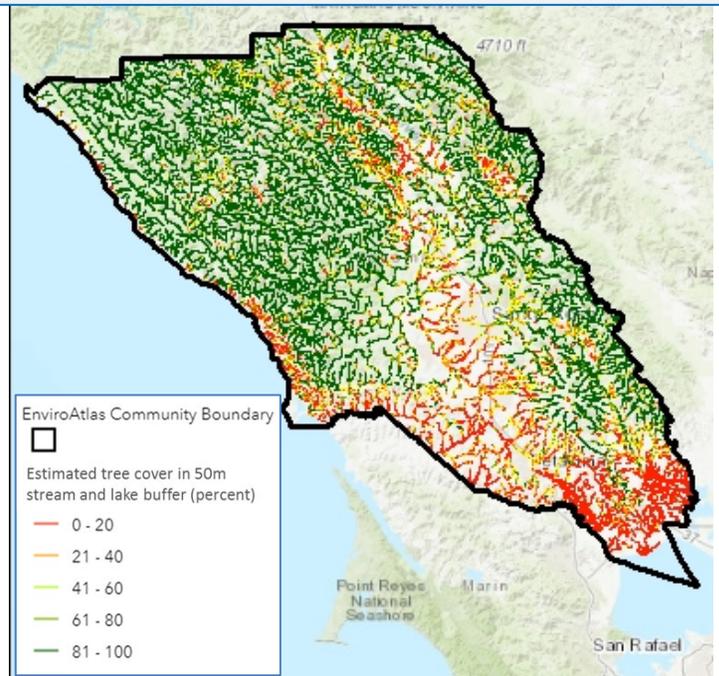
Studies indicate that the capacity of trees to filter and deflect airflow may reduce the health impacts of vehicular pollution on nearby populations. In EnviroAtlas, you can find detailed maps of tree coverage along both high-speed and walkable roads. In the Salt Lake City community area:

- An estimated 58 percent of the population lives within 300 meters of a high-speed roadway. This distance is within the zone of air pollutant drift from unobstructed roadways.
- For 63 percent of the of the estimated population living within this 300-meter zone, nearby high-speed roads have less than 25% adjacent tree cover.
- Depending on local factors, specific areas may benefit from vegetative or other physical barriers to reduce vehicular air pollutant drift.

EnviroAtlas Tools and Features

- Learn more about EnviroAtlas data: <https://www.epa.gov/enviroatlas/enviroatlas-data>
- Search our data layers and access their fact sheets: <https://www.epa.gov/enviroatlas/enviroatlas-dynamic-data-matrix>
- Explore data for the Sonoma County community area in our interactive mapping application: <https://www.epa.gov/enviroatlas/enviroatlas-interactive-map>
- Use our Eco-Health Relationship Browser to explore ecosystems, the services they provide, and their benefits to human health and well-being: <https://www.epa.gov/enviroatlas/enviroatlas-eco-health-relationship-browser>
- Contact us with questions about EnviroAtlas: <https://www.epa.gov/enviroatlas/forms/contact-enviroatlas>

50 Meter Stream and Lake Buffers in Sonoma County, CA



Stream and Lake Buffers

Natural land cover adjacent to streams and rivers, sometimes called the riparian area or zone, helps protect water quality and supply for drinking, recreation, and aquatic habitat. The EnviroAtlas community component quantifies riparian vegetation in both 15- and 50-meter buffers. These reflect water quality and habitat guidelines, respectively, although standards vary across geographies.

- An estimated 5.5 percent of the community land area is within 50 meters of a stream, river or lake.
- 22 percent of these 50-meter buffers contain less than 20 percent tree cover (red lines in the figure above).

EnviroAtlas combines maps, graphs, and other analysis tools, fact sheets, and downloadable data into an easy-to-use, web-based educational and decision-support tool. EnviroAtlas helps users understand the connections between the benefits we derive from ecosystem services and the natural resources that provide them. For more information, please visit www.epa.gov/enviroatlas.