www.allianceforagroecology.org

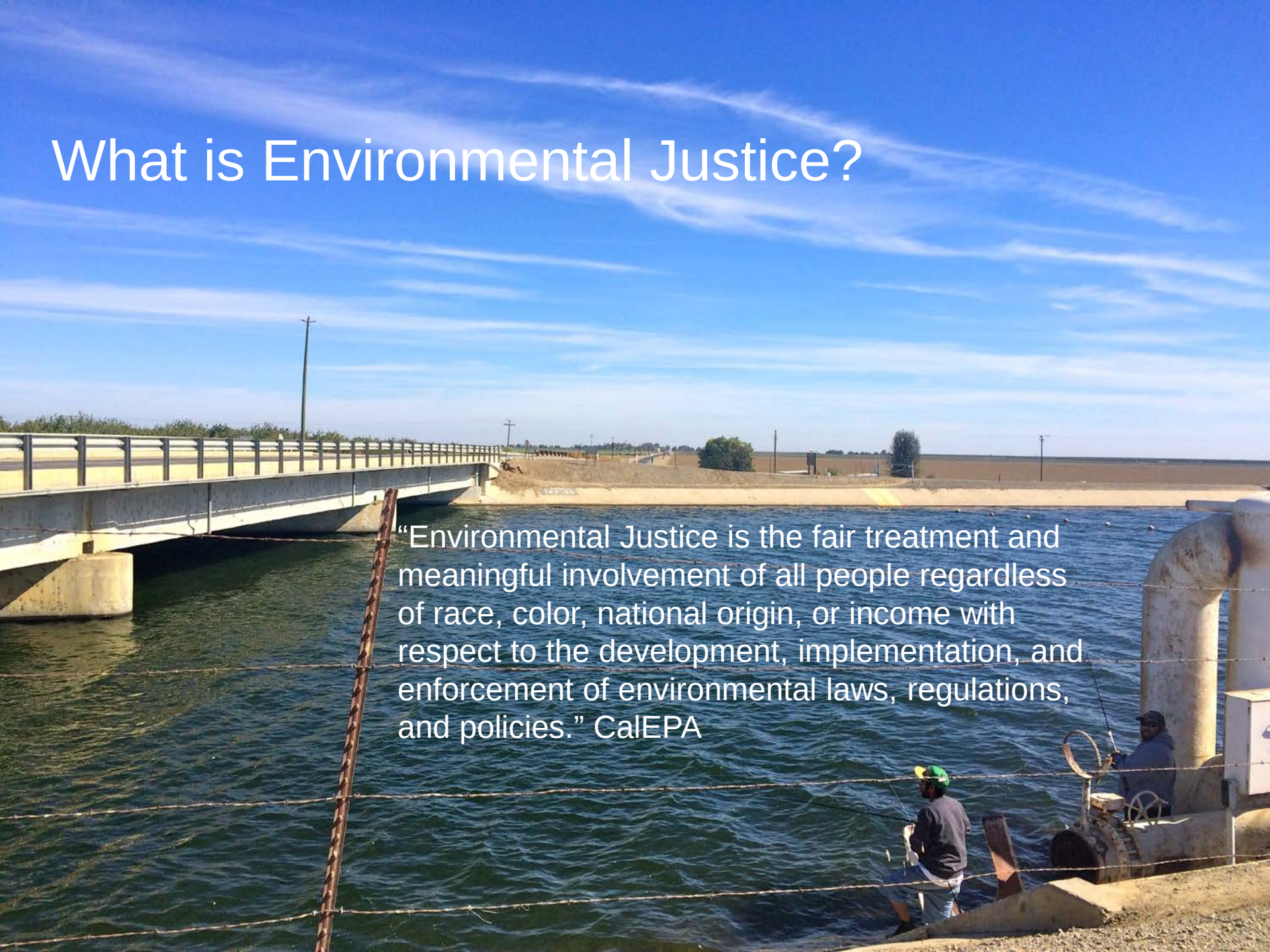
1012 Jefferson Street

Delano, CA 93215

(760) 613-2936

Jan 25th, 2017

What is Environmental Justice?



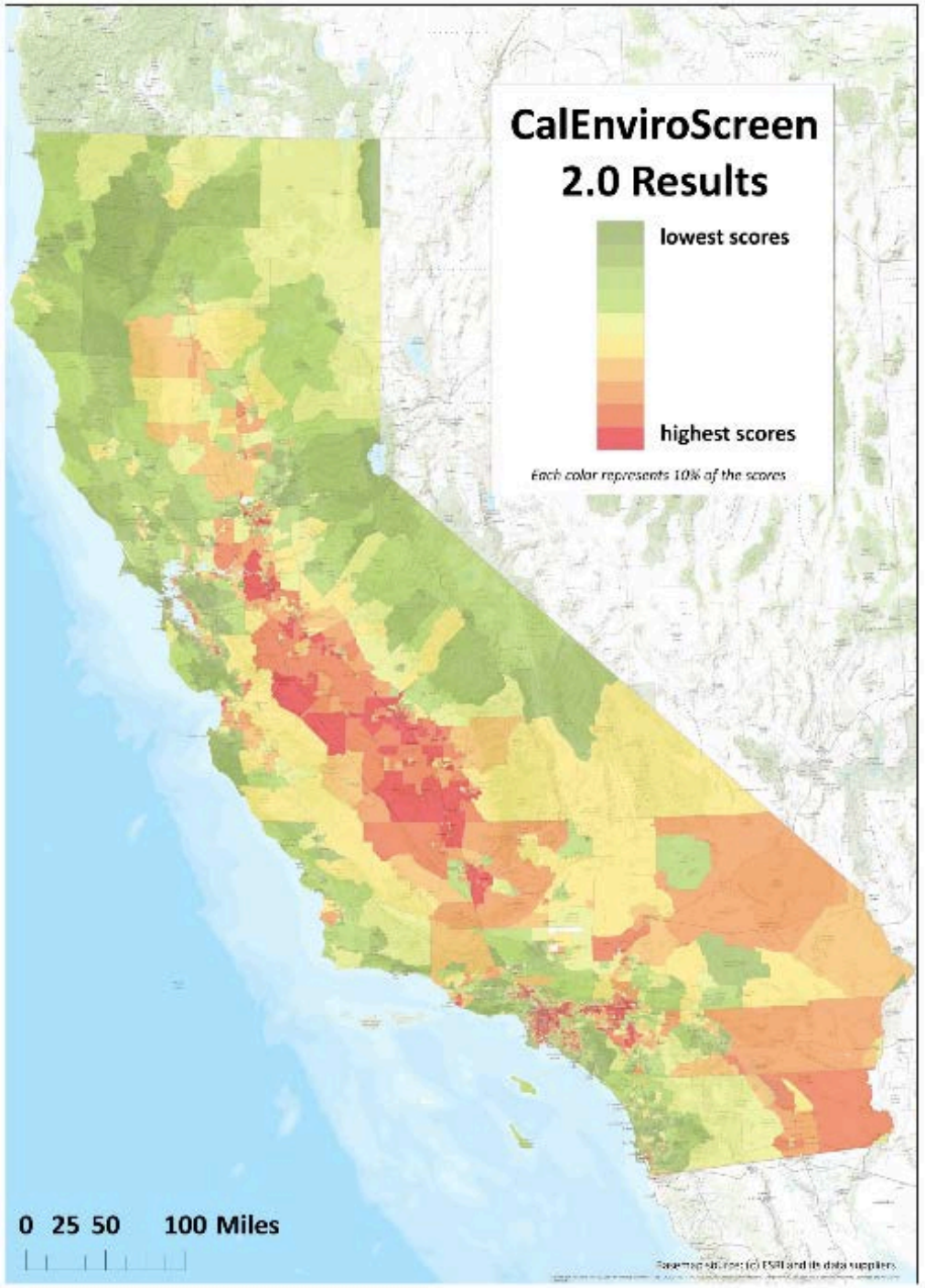
"Environmental Justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies." CalEPA

Cal Enviro Screen 2.0

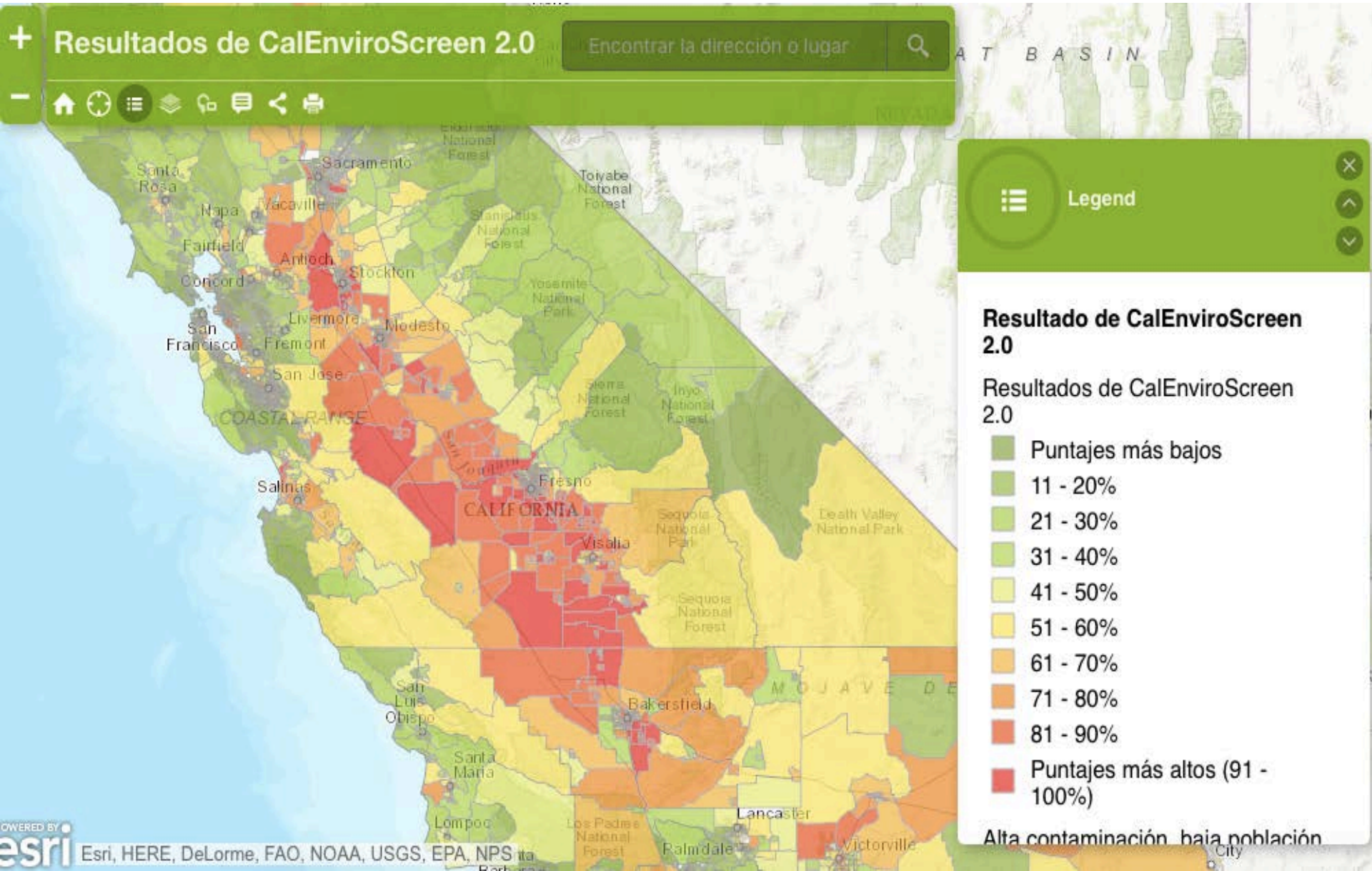
Cal EPA Office of Environmental Health Hazard Assessment

Age
Asthma
Low Birth Weight
Low Education
Linguistic Isolation
Poverty
Unemployment

Groundwater
Hazardous Waste
Impaired Waters
Solid Waste
Ozone
PM2.5
Diesel
Drinking Water
Pesticides
Toxic Releases
Traffic
Cleanups



The San Joaquin Valley:
Kings, Merced, Fresno, Stanislaus, Madera, Tulare, Kern



Public Health Challenges in Disadvantaged Communities (Colonias)

- Lack of Access to Water and Sewer Services
  - Safe potable drinking water
  - Wastewater infrastructure
  - Plumbing
- Housing
  - Often built with materials on hand
  - Often built by hand without use of an engineer
  - Lack of fire protection
- Personal Health and Disease Transmission
  - Dilapidated homes lead to asthma and other respiratory illness
  - Lack of appropriate drainage systems leads to disease spread
  - Lack of access to fresh foods leads to diabetes, obesity and chronic disease
- Places of employment
  - Agricultural work
  - Packing and Processing
  - Industry (Oil, Gas and Mining)
- Lack of governance
  - Poor emergency response
  - Lack of fire and police protection
  - Adversarial water districts and utilities districts
  - Language access in case of emergency

Maps of Valley Disparity

Regional Opportunity Index

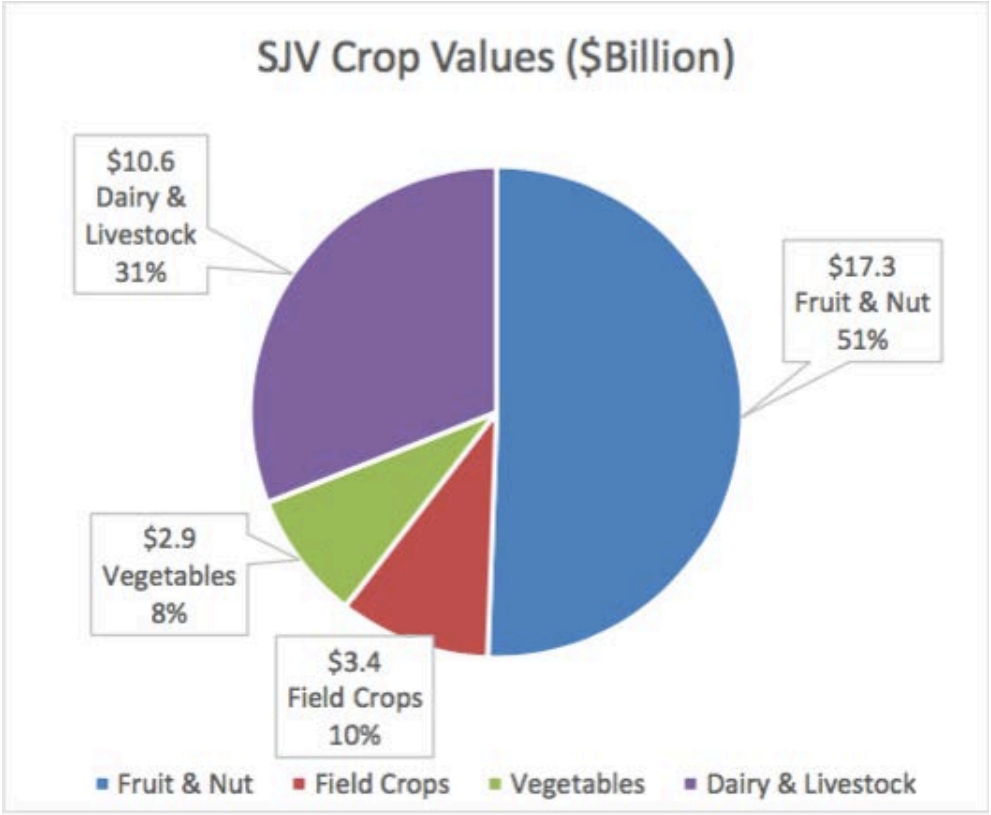
http://interact.regionalchange.ucdavis.edu/roi/webmap/webmap.html

Cal Enviro Screen

http://oehha.maps.arcgis.com/apps/MapJournal/index.html?appid=4b03ebe3789a445b90cb166dbbabf821&webmap=279ecb0d5c7d470496d116a6ab6586c0

Department of Gas and Geothermal Resources

http://maps.conservation.ca.gov/doggr/index.html#close



-SJV agriculture generated $35.6 billion in farm-gate receipts in 2013 on 6.3 million acres

-Dairy industry alone accounts for approximately 25% of the valley ag economy

-The SJV's 25,000 farms are led by fewer than 2,000 people

-SJV County Ag Commissioners' 2013 Crop & Livestock reports , CDFA Dairy Statistics Annual 2013, USDA 2012 reports on Farm Size and Farm Crops

Water Access Disparity

-$39 billion dollar agricultural economy based in the central Valley

-Intensive fertilizer and pesticide application and mega dairies has severely impacted aquifers

-95% of residential water sources in the San Joaquin Valley are ground water sources

- -nitrate
- -arsenic
- -heavy metals
- -Coliform bacteria
- -dibromochloropropane
- - 1,2,3 TCP
- -trihalomethanes
- -uranium

Source: www.wwd.gov

CALIFORNIA
33
T
EL PROGRESSO

HALFWAY STORE
OPEN

EL PARQUE DE LA
COMUNIDA EL PORVENIR

A climate change vulnerability assessment of California's terrestrial vegetation . Information Center for the Environment University of California, Davis January 2016

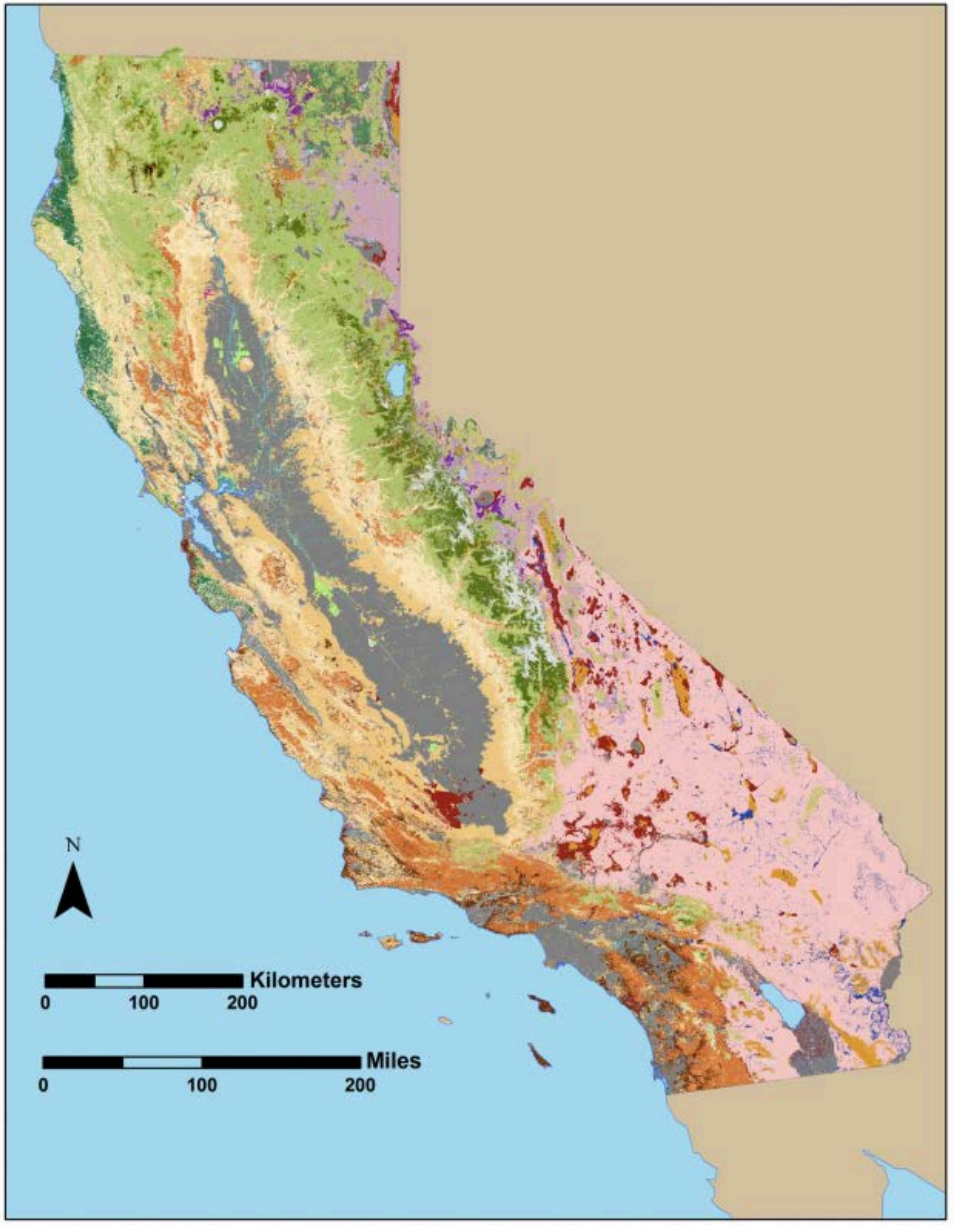
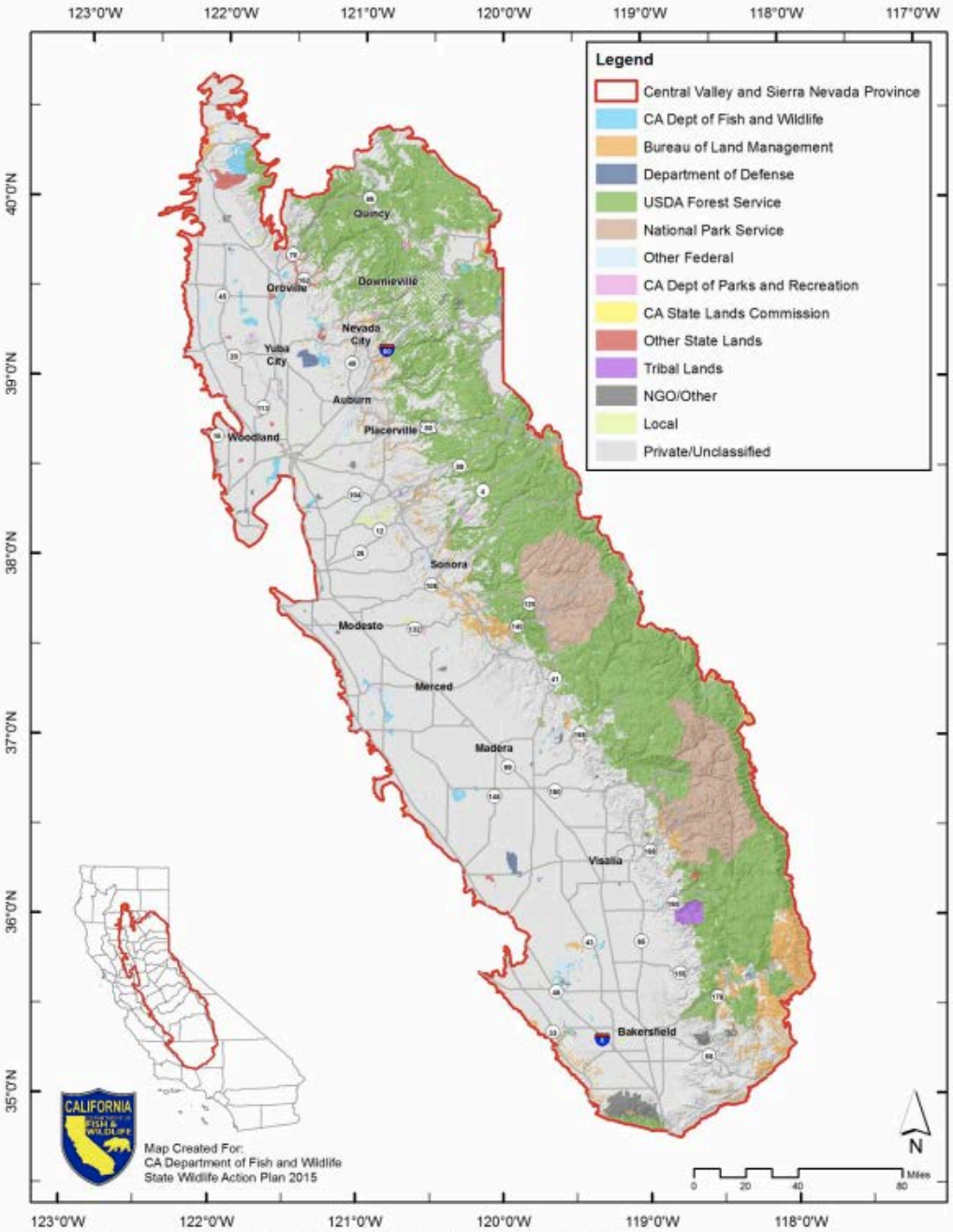


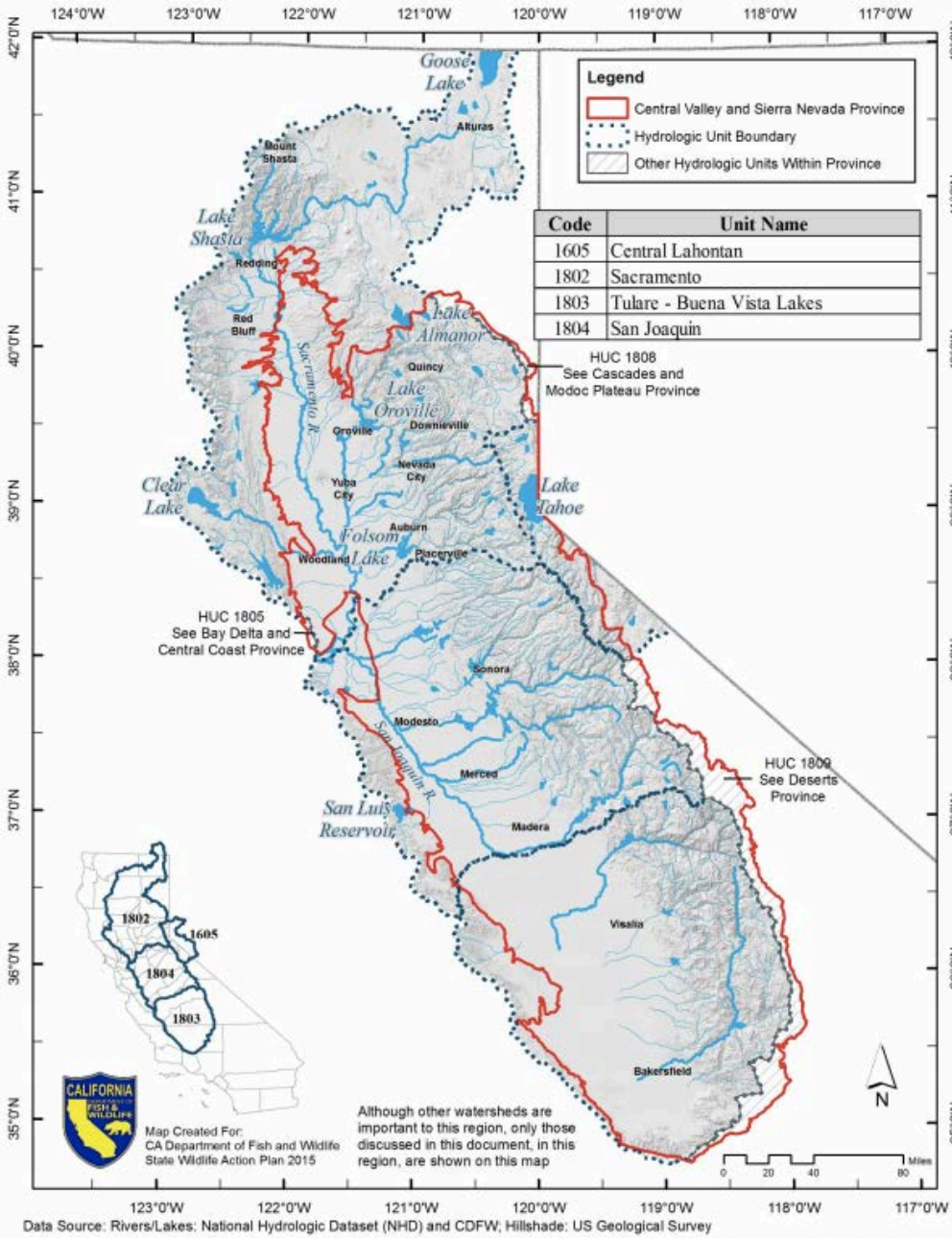
Figure 9. Statewide Vegetation (Macrogroup) Map. The statewide vegetation map used for the climate exposure analysis in this report. This image portrays the distribution of macrogroups which are analyzed. Note that some areas in the central valley and urban centers are in grey, indicating zones that were excluded from this analysis. The natural vegetation in the central valley that is mapped is visible as small extents of vegetation.

Figure 10. Macrogroup Map Legend. The legend for the macrogroup map.



Data Source: California Protected Areas Database; US Geological Survey (hillshade); CDFW Lands.

Figure 5.4-1 Land Ownership of the Central Valley and Sierra Nevada Province



Data Source: Rivers/Lakes: National Hydrologic Dataset (NHD) and CDFW; Hillshade: US Geological Survey

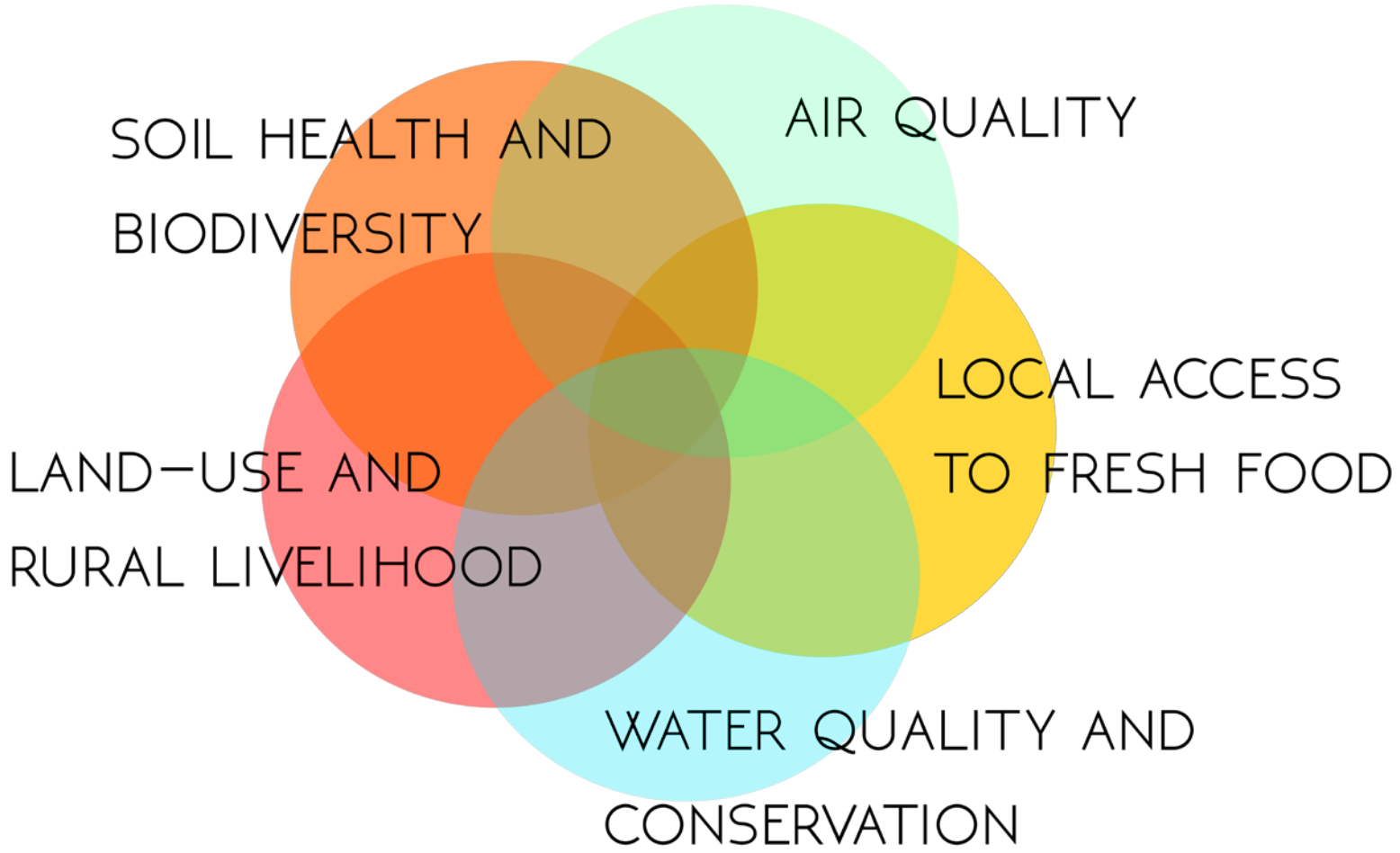
Figure 5.4-3 Hydrologic Units of the Central Valley and Sierra Nevada Province

Wall
of
Joys

TULARE LAKE COMPOST
EXCEPTIONAL QUALITY COMPOST
FOR THE CENTRAL VALLEY

AGROECOLOGY

AGRICULTURE THAT PROTECTS:



Janaki Jagannath
Janaki.anagha@gmail.com
(760) 613 2936
www.allianceforagroecology.org