

Draft CalEnviroScreen 4.0 Webinar

March 3, 2021 | 11am-12pm

Welcome!

The program will start shortly. You have entered the webinar in muted mode. Instructions on how to access the Spanish translation will be given shortly.

Trouble Connecting? Use the Q&A box Or Email CalEnviroScreen@oehha.ca.gov



This session is being recorded.
By entering this webinar, you
are agreeing to being recorded.

¡Bienvenidos!

El programa comenzará en breve. Ha ingresado al seminario web en modo silenciado. En breve, se proporcionarán instrucciones para acceder a la traducción en español.

¿Problemas para conectarte? Usa el Q&A o el correo electrónico CalEnviroScreen@oehha.ca.gov

Esta sesión está siendo grabada.
Al unirse a este seminario web,
acepta ser grabado.

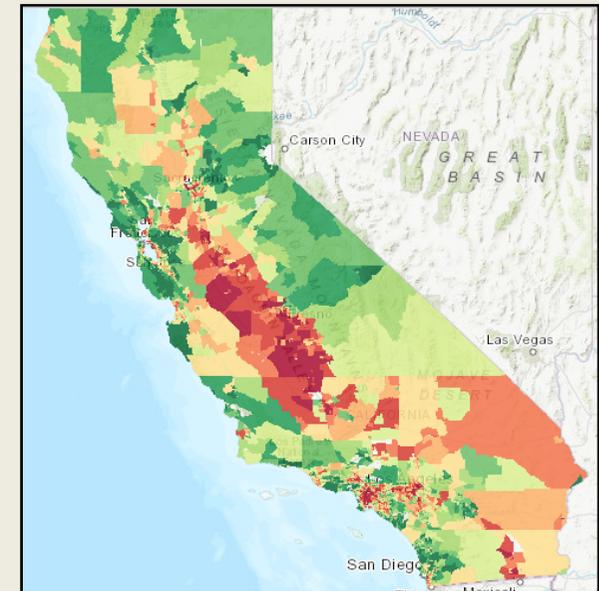


Agenda



CalEnviroScreen 4.0

- Welcome & how to provide input during the webinar
- What is CalEnviroScreen?
- Importance of the tool and its uses
- What changes are proposed in version 4.0?
- Draft CalEnviroScreen 4.0 results
- Race/ethnicity preliminary analysis
- Demo of online materials and resources
- Opportunities for public input
- Webinar Q&A

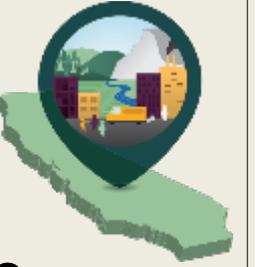




Draft CalEnviroScreen 4.0 Webinar

March 3, 2021





What is CalEnviroScreen?

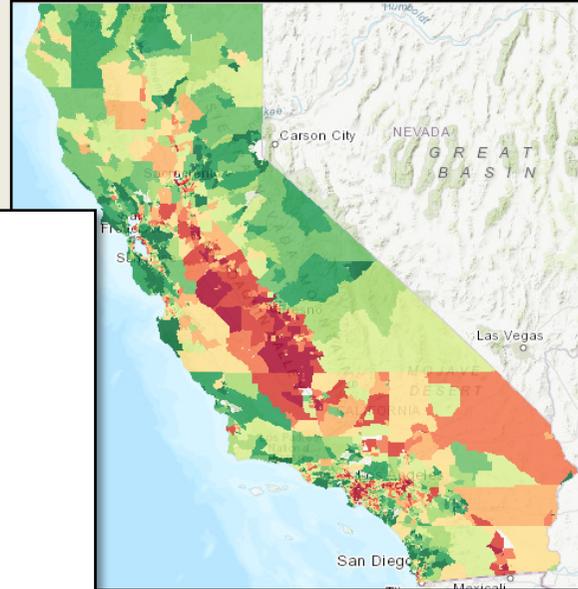
UPDATE TO THE CALIFORNIA
COMMUNITIES
ENVIRONMENTAL HEALTH
SCREENING TOOL:

CALENVIROSCREEN 4.0

PUBLIC REVIEW DRAFT



February 2021



- Spatial analysis of relative burdens in California communities from pollution and population vulnerability
- 21 indicators combined into a single score
- Census tract scale
- The draft of CalEnviroScreen 4.0 was released for public comment



California
EJ Statutes

1999-2000



2004

Advisory
Committee
Recommendations
and CalEPA EJ
Action Plan



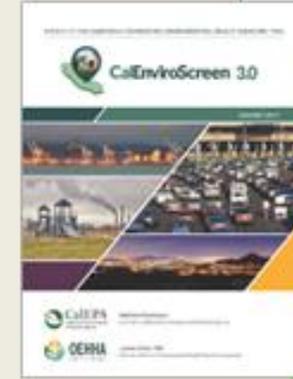
Cumulative
Impacts
Work Group

2008-2013



2010-2018

Workshops and
Consultation
Processes



CalEnviroScreen
Public Versions
1.0-3.0

2013-2017



Uses In Government Statutes

Internal Grant & Investment Programs (e.g., CalRecycle)

External Grant & Investment Programs (e.g., CPUC)

SB 1000 (EJ in local jurisdictions)

Research Initiatives



SB535/AB1550 (CalEPA/ CARB) Identification of Disadvantaged communities

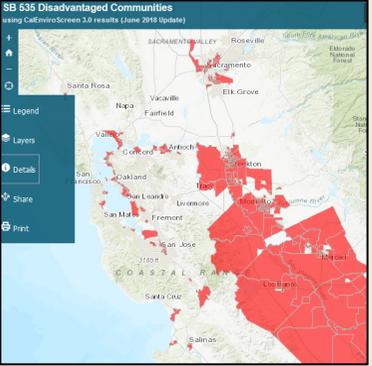
AB 617 (CARB)

AB 617 ELEMENTS • Focus on Community Action

- Community emissions reduction programs
- Accelerated retrofit of pollution controls on industrial facilities
- Community-level air quality monitoring
- Enhanced emissions reporting
- Increased penalty provisions
- Grants to local community groups

A model for other regions

Prioritizing Hiring



All GGRF/CCI administering agencies

SB 673 (DTSC)

Local Resident – 30% of journey level hours	Tier 1 Local Residents and Tier 2 Local Residents.
New Apprentice – 40% of apprentice hours	A Local Resident who first enrolled in a state-registered apprenticeship program at time of commencement of Project Work, or within 12 months prior to commencement of project work.
Tier 1 Local Resident	A person residing in the City of Fresno and in the top 5% of disadvantaged communities per CalEnviroScreen 2.0. (See attached map.)
Tier 2 Local Resident	A person residing in Fresno County or Madera County and in the top 5% of disadvantaged communities per CalEnviroScreen 2.0. (See attached map.)



Other Uses



Exposures:
Direct contact with
pollution



**Environmental
Effects:**
Adverse environmental
conditions caused by
pollutants



CalEnviroScreen Components



Sensitive Populations:
Populations with
physiological conditions
that result in increased
vulnerability to pollutants



Socioeconomic Factors:
Community characteristics
that result in increased
vulnerability to pollutants



Draft CalEnviroScreen 4.0 Indicators



Pollution Burden		Population Characteristics	
Exposures	Environmental Effects	Sensitive Populations	Socioeconomic Factors
 Ozone  PM2.5  Diesel Particulate Matter  Drinking Water Contaminants  Toxic Releases from Facilities  Traffic  *New* Children's Lead Risk from Housing  Pesticide Use	 Solid Waste Sites and Facilities  Cleanup Sites  Groundwater Threats  Impaired Water Bodies  Hazardous Waste Generators and Facilities	 Asthma  Cardiovascular Disease  Low Birth Weight Infants	 Educational Attainment  Housing Burden  Linguistic Isolation  Poverty  Unemployment

What's New in Draft CalEnviroScreen 4.0?



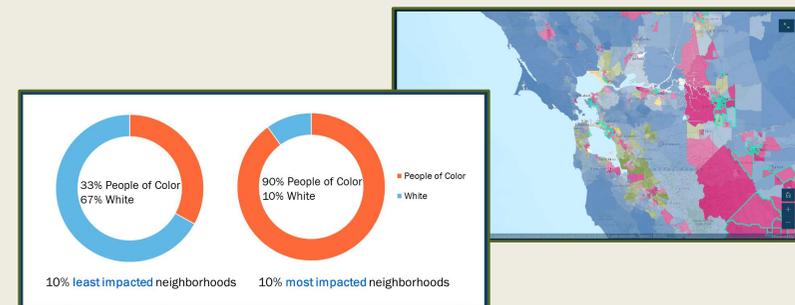
Indicator Data Updates



New Indicator:
Children's Lead Risk in Housing



CalEnviroScreen Hub Site



Race/Ethnicity Preliminary Analysis

CalEnviroScreen 4.0 Indicator Major Updates



Updated contaminants and service boundaries for the **Drinking Water** indicator



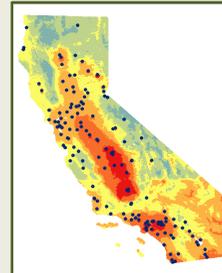
Incorporation of additional pesticides in the **Pesticide Use** indicator



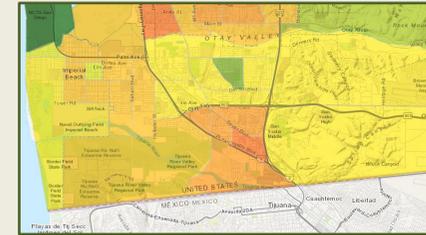
Addition of dairies and feedlots to the **Groundwater Threats** indicator



Addition of chrome metal plating facilities to the **Hazardous Waste** indicator



Improvements in the methodology for **PM 2.5** and **Diesel PM** indicators

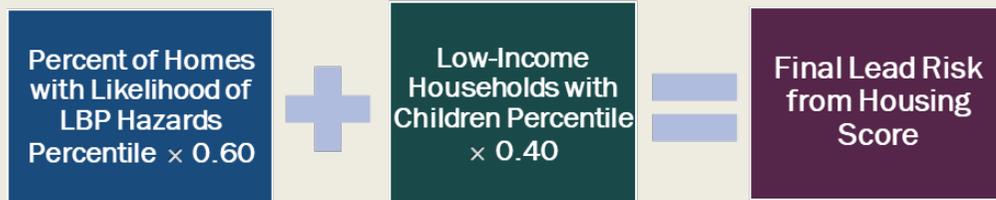


Incorporates better data at the **California-Mexico border**

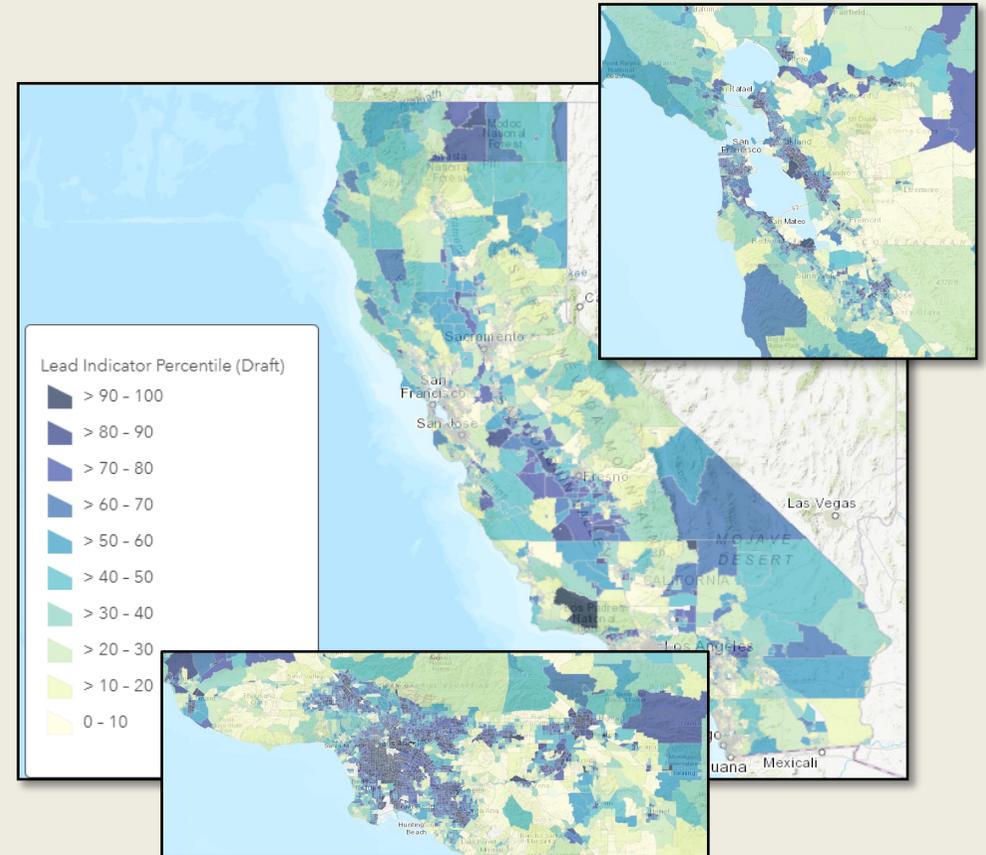


New Indicator: Children's Lead Risk from Housing

- Lead house paint remains the most significant source of lead exposure in children.
- Other sources of environmental lead exposure are already included in CalEnviroScreen (Toxic Releases, Drinking Water, Cleanup Sites, and Hazardous Waste).
- The indicator incorporates two measures of known risk factors: age of housing and low-income households and focuses on the vulnerable population - children.



- The indicator identifies communities that have the highest potential for lead exposure due to old housing.

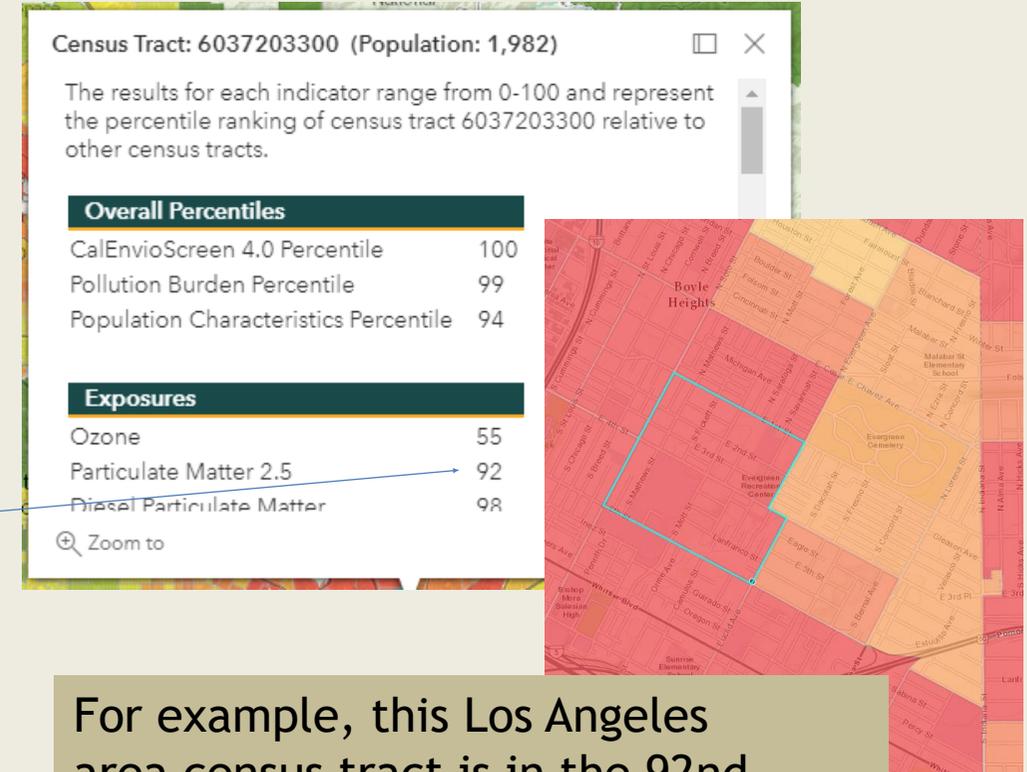
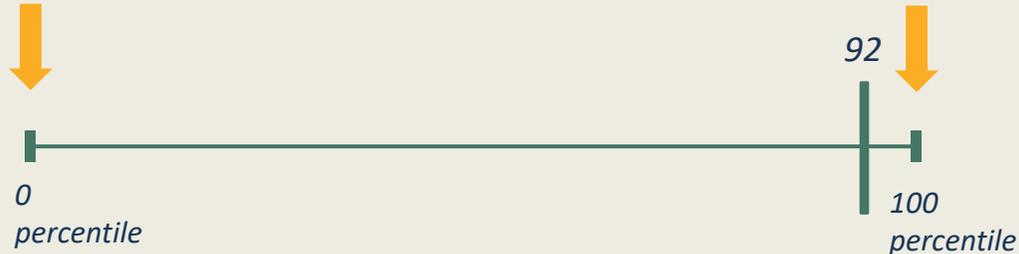


Indicator map is available to view

Indicator Scoring

- Each census tract's raw indicator score is assigned a percentile value based on where it falls among values state-wide
- Percentiles represent relative scores for each of the 21 indicators

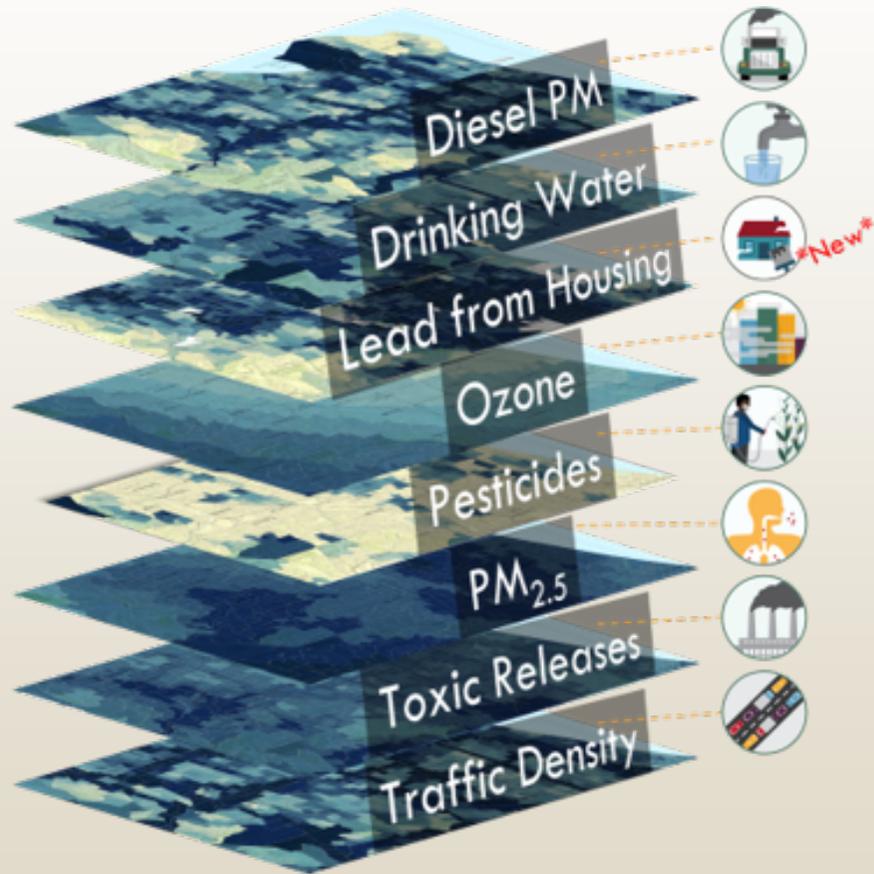
All ~8,000 tracts in California fall somewhere on this line



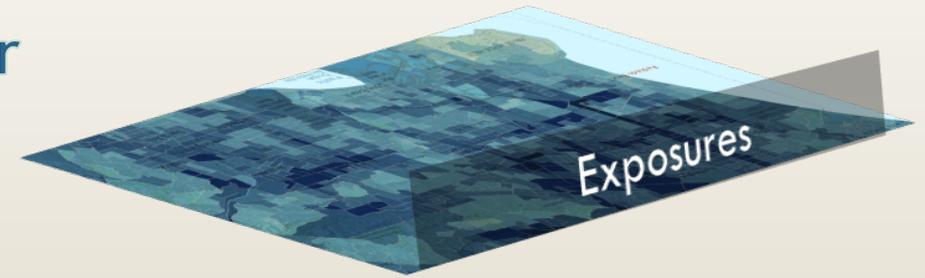
For example, this Los Angeles area census tract is in the 92nd percentile for PM2.5, meaning its value is higher than 92% of all other census tracts in California.

Combined Layers in Exposures Component

EXPOSURE LAYERS



Averaged together



CalEnviroScreen Model



Pollution Burden

EXPOSURES

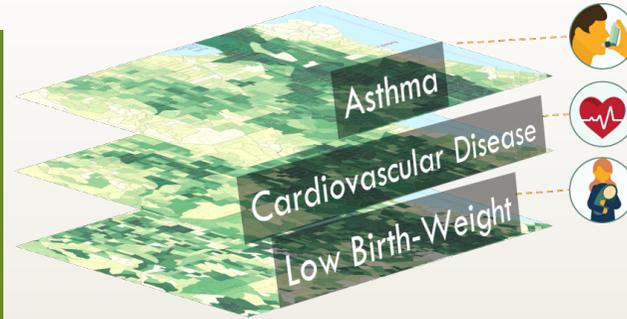


ENVIRONMENTAL EFFECTS (1/2)

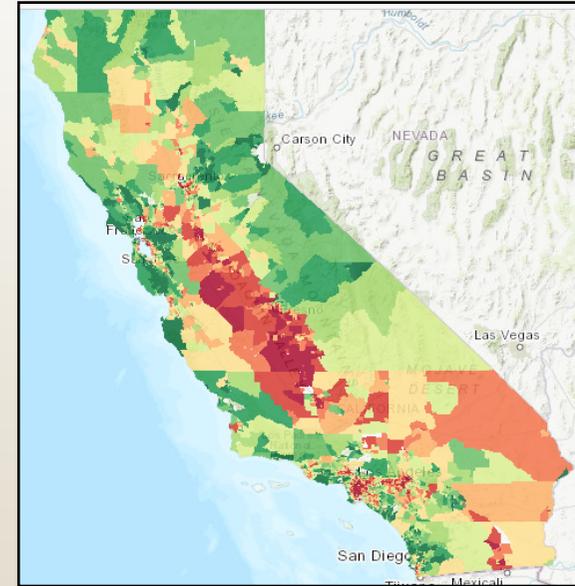
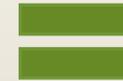


Population Characteristics

SENSITIVE POPULATIONS

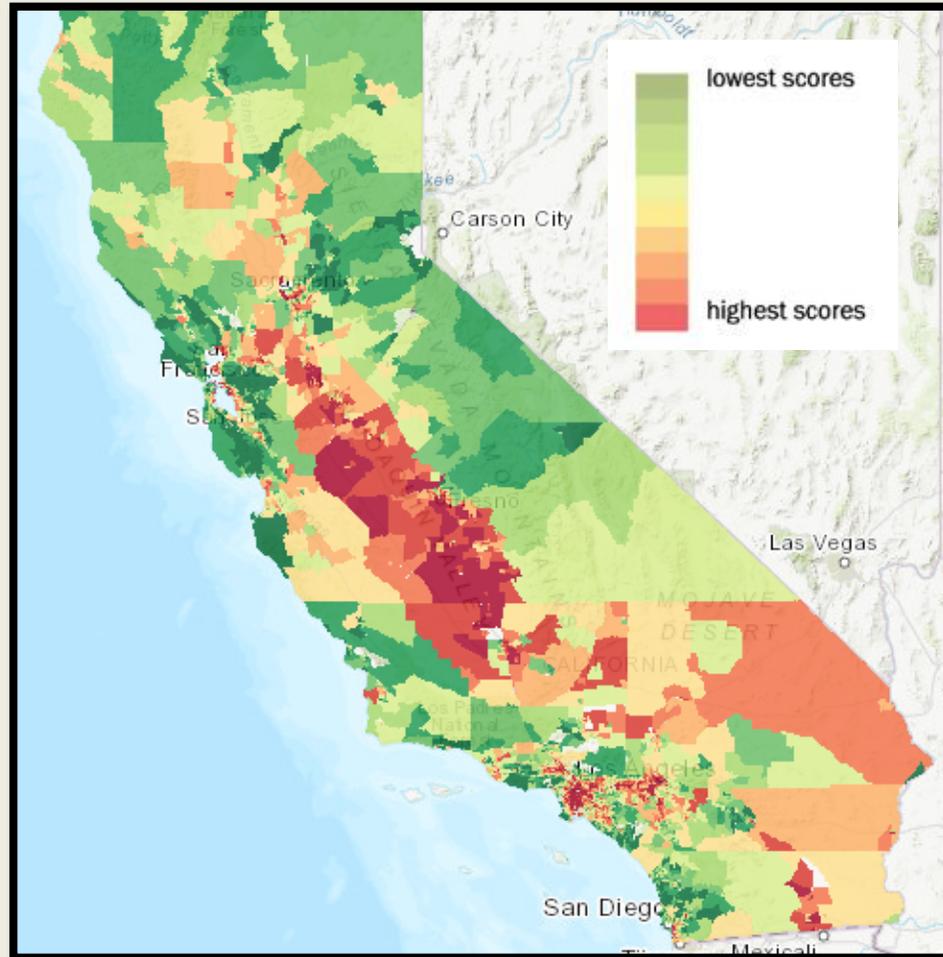


SOCIOECONOMIC FACTORS





Overall Draft CalEnviroScreen 4.0 Results



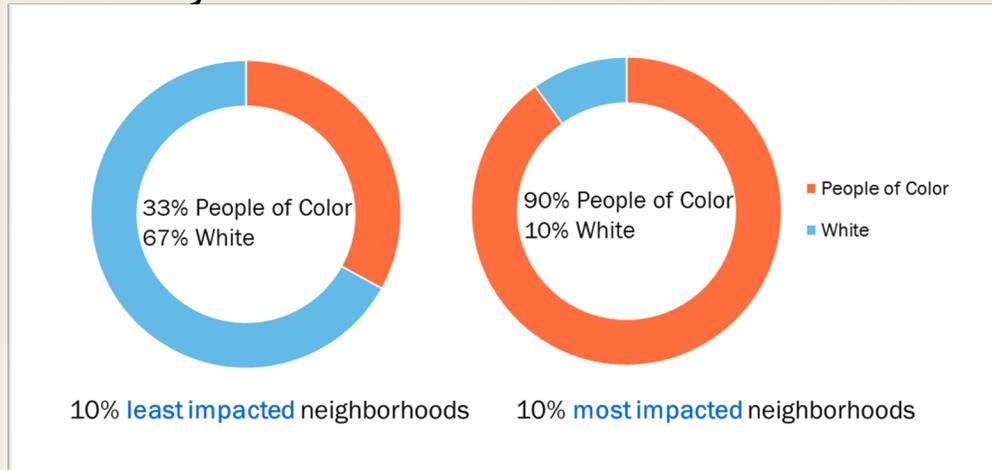
The overall pattern of CalEnviroScreen scores from green to red look very similar to CalEnviroScreen 3.0 results.

Within the highest scoring 25% census tracts, there is a high level of similarity (86%) between versions.

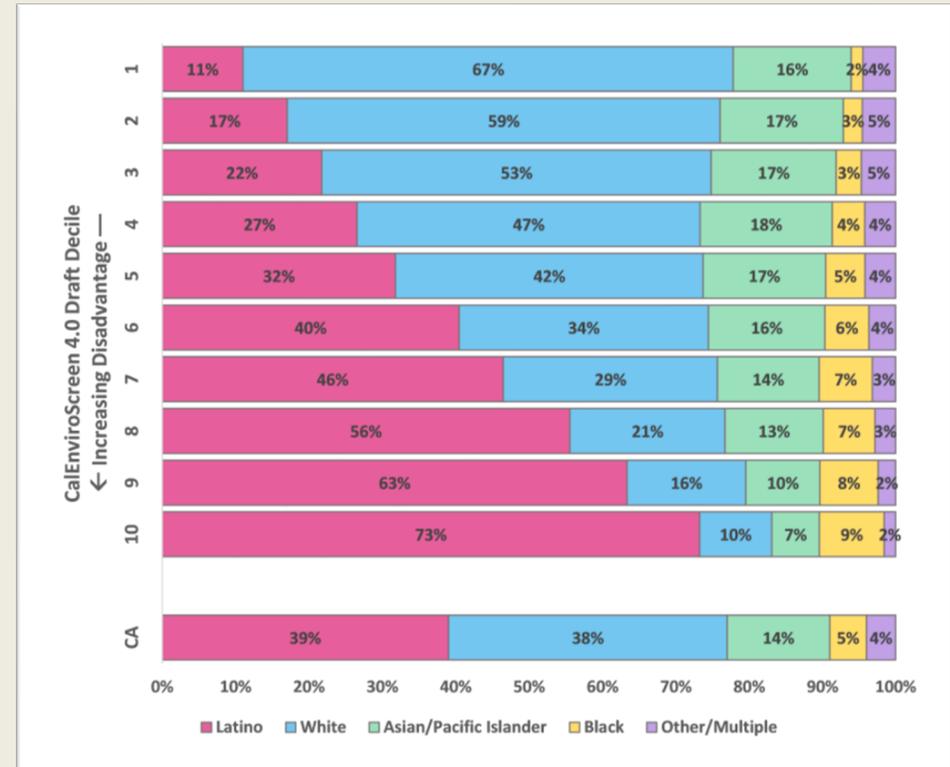


Race/Ethnicity Preliminary Analysis

Race in the least and most impacted census tracts by draft CalEnviroScreen 4.0 decile



Racial makeup of each decile of draft CalEnviroScreen 4.0 scores



Report & Story Map



Demo of online resources:

The screenshot shows the OEHA website with a green header containing social media icons and navigation links. The main content area features a title "Draft CalEnviroScreen 4.0" and a date "Feb 22, 2021". A text block explains the tool's purpose, and a small map of California is visible on the right side of the text.

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California Office of Environmental Health Hazard Assessment

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Home | CalEnviroScreen | Draft CalEnviroScreen 4.0

Draft CalEnviroScreen 4.0

Feb 22, 2021

The Office of Environmental Health Hazard Assessment (OEHA) announces the availability of a new draft version of the California Communities Environmental Health Screening Tool: CalEnviroScreen 4.0. CalEnviroScreen is a screening methodology that can be used to help identify California communities that are disproportionately burdened by multiple sources of pollution. [The draft CalEnviroScreen 4.0 is available as a mapping tool.](#)

This draft updates CalEnviroScreen in a variety of ways:

- All indicators contain the most recent available data.
- There are improvements in the way some indicators are calculated to better reflect environmental conditions or population vulnerability to pollution.

<https://oehha.ca.gov/calenviroscreen/>

The screenshot shows the CalEnviroScreen Hub website with a green header and a map of California. The main content area features a title "CalEnviroScreen Hub" and a text block explaining the tool's purpose. A small map of California is visible on the right side of the text.

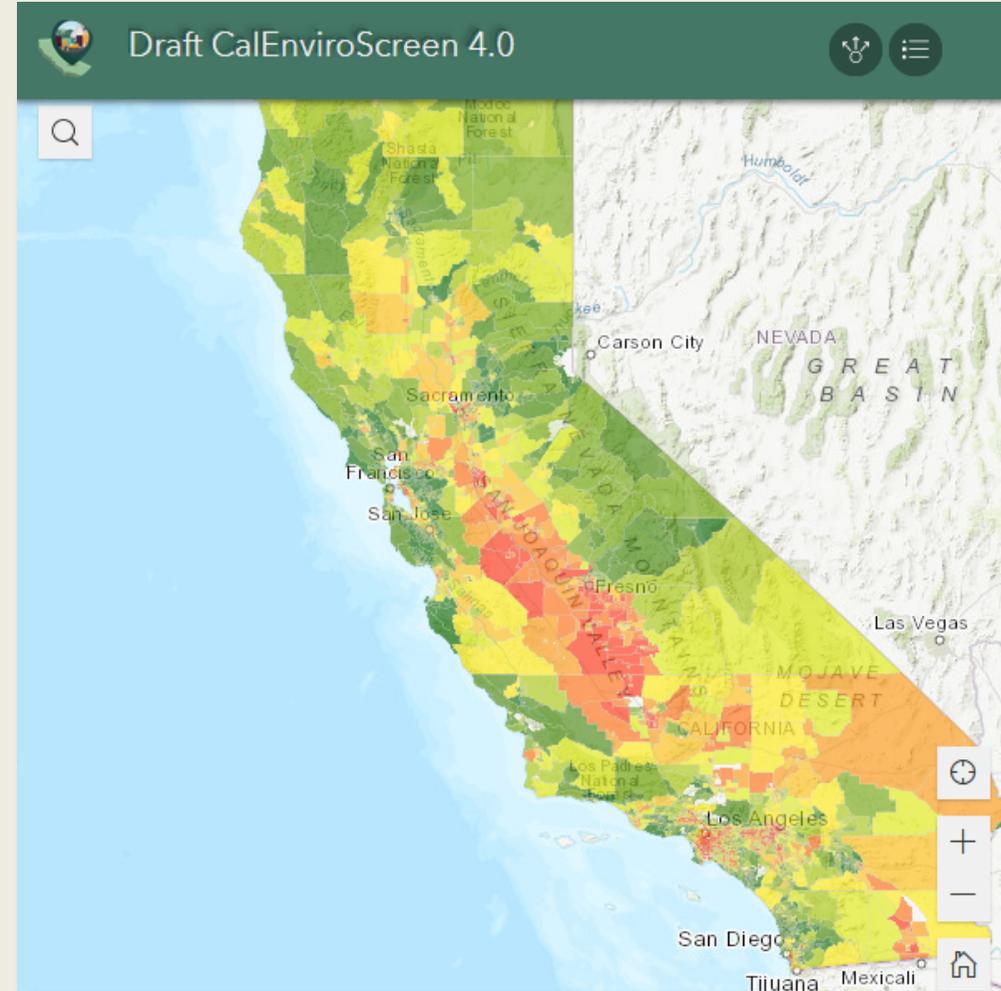
CalEnviroScreen Hub

[Draft CalEnviroScreen 4.0 Map](#) | [Release and Event Timeline](#)
[About CalEnviroScreen](#) | [Reports Downloads](#) | [Data Downloads](#)

The Office of Environmental Health Hazard Assessment announces the availability of a new draft version of CalEnviroScreen.

This hub page contains links to the draft CalEnviroScreen 4.0 report, maps, data, and related mapping tools and reports. It also contains information about upcoming public workshops on CalEnviroScreen. [Click here](#) to view the OEHA website.

<https://calenviroscreen-oehha.hub.arcgis.com/>



Virtual workshops

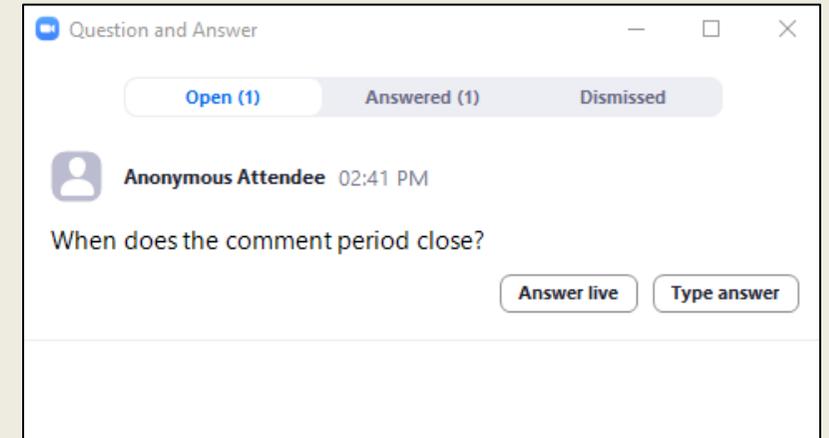
- OEHHA will host virtual workshops using Zoom in March and April.
- The workshops will have a regional focus.
- Dates will be posted on our website and the Hub site soon.
 - <https://oehha.ca.gov/calenviroscreen/report/draft-calenviroscreen-40>
 - <https://calenviroscreen-oehha.hub.arcgis.com/>
- The workshops will provide an opportunity to ask questions, provide comments, and help us ground-truth the tool in your community through breakout room discussions.



Ways to comment on the draft:

- Via Zoom Q&A to send questions today
- Submit comments online:
<https://oehha.ca.gov/comments>
- By email to
CalEnviroScreen@oehha.ca.gov
- Or mail to

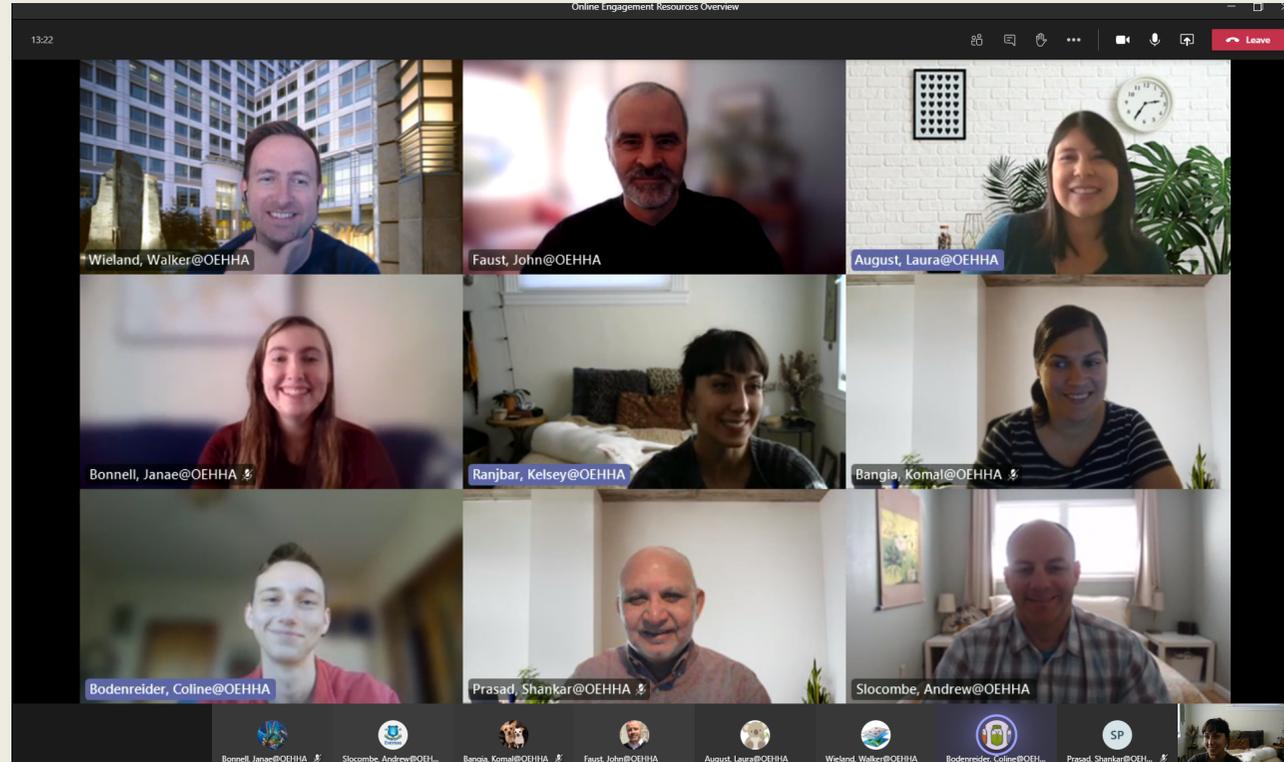
CalEnviroScreen
c/o Sofia Mitchell
Office of Environmental Health Hazard Assessment
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Deadline for public comment
Friday, April 30, 2021



Thank you!



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