

DOCKETED	
Docket Number:	22-IEPR-04
Project Title:	Equity
TN #:	245728
Document Title:	Presentation - Pollution and Prejudice
Description:	2. ABC Kevin Olp, Jaimie Huyn, Jennifer McGovern
Filer:	Raquel Kravitz
Organization:	Bay Area Air Quality Management District
Submitter Role:	Public
Submission Date:	8/29/2022 3:30:49 PM
Docketed Date:	8/29/2022



Pollution and Prejudice

Redlining and Environmental Injustice in California

Kevin Olp, BAAQMD

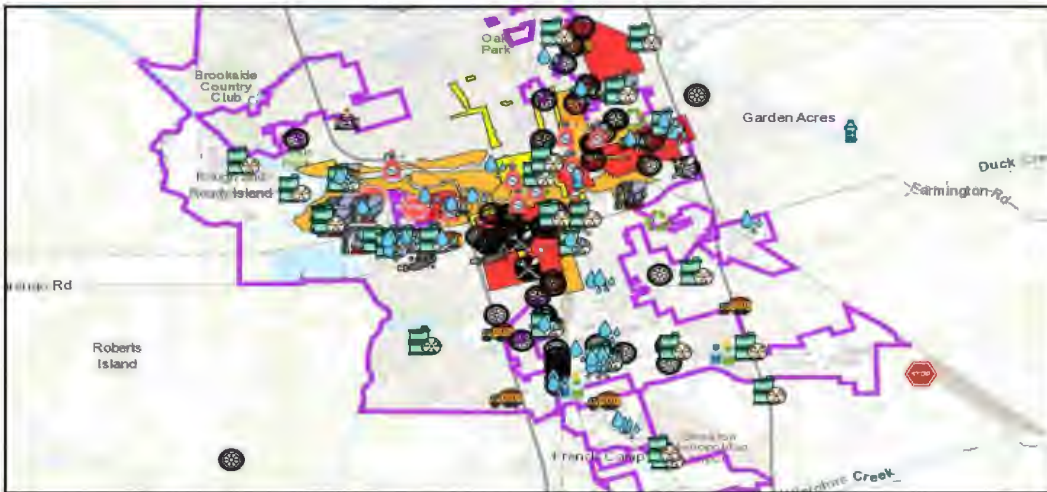
Jennifer McGovern, SWRCB

Jaimie Huynh, CalEPA



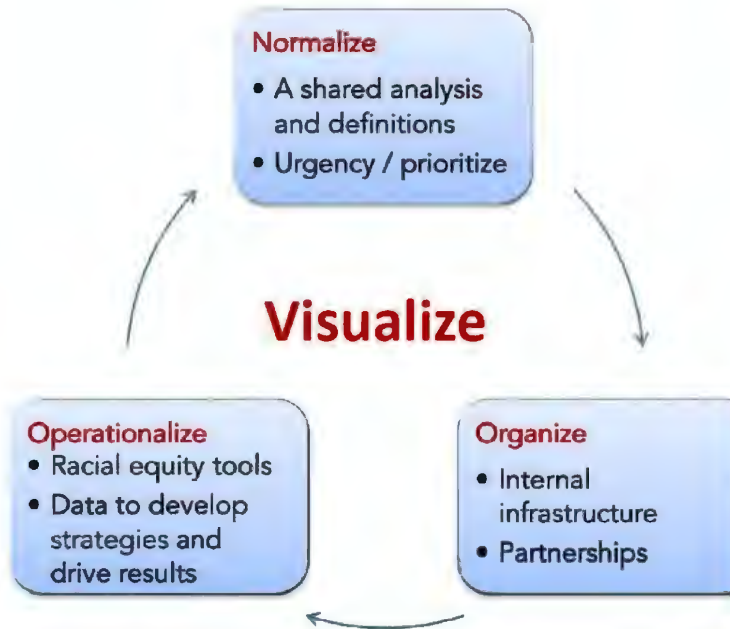


<https://twitter.com/LordAshcroft/status/1269639037737938944>



THE BEGINNING: POLLUTION AND REDLINING IN STOCKTON

CalEPA's Commitment to Racial Equity





Lack of sewers

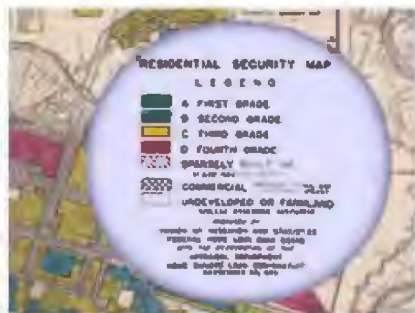
Heterogeneous population and improvements. Surrounded by industrial and business areas. Mormon Channel traverses

area is infested with subversive racial influences, it has wide, well improved streets

extreme age and poor maintenance. There is a concentration of Mexican residents in the area, as well as many negroes and orientals. The best that can be hoped for this area, is that it will develop into a business or industrial section. The area is graded low red.

CalEPA Racial Equity Team

Storymap released February 1, 2021



[Pollution and Prejudice: CalEPA Releases Redlining StoryMap](#)

As part of its commitment to racial equity, CalEPA has released a draft StoryMap highlighting the connection between racist land use practices of the 1930s and environmental injustice, as reflected by CalEnviroScreen scores. Redlining practices systematically included both race and environmental factors as criteria in assessing the credit-worthiness of neighborhoods.

Explore the [StoryMap: Pollution and Prejudice](#) | [Contaminación y Prejuicio](#)
(Download [English](#), [español](#)) (02/01/21)

Project Team:

- Greg Gearheart, State Water Resources Control Board
- Beti Girma, State Water Resources Control Board
- Jaimie Huynh, CalEPA
- Maraid Jimenez, State Water Resources Control Board
- Charles Lee, USEPA Office of Environmental Justice
- Jennifer McGovern, State Water Resources Control Board
- Kevin Olp, Bay Area Air Quality Management District
- Deldi Reyes, California Air Resources Board
- Amy Schwanhausser, former CalEPA Intern
- Walker Wieland, Office of Environmental Health Hazard Assessment
- Angie Ye, former CalEPA Intern

Background – History

- FDR and The New Deal- 1930s
 - Housing crisis relief
 - Created Home Owners' Loan Corporation (HOLC)
 - Evaluated mortgage lending risk maps
 - **Green - “Best”**
 - **Blue - “Still Desirable”**
 - **Yellow - “Declining”**
 - **Red= “Hazardous”**

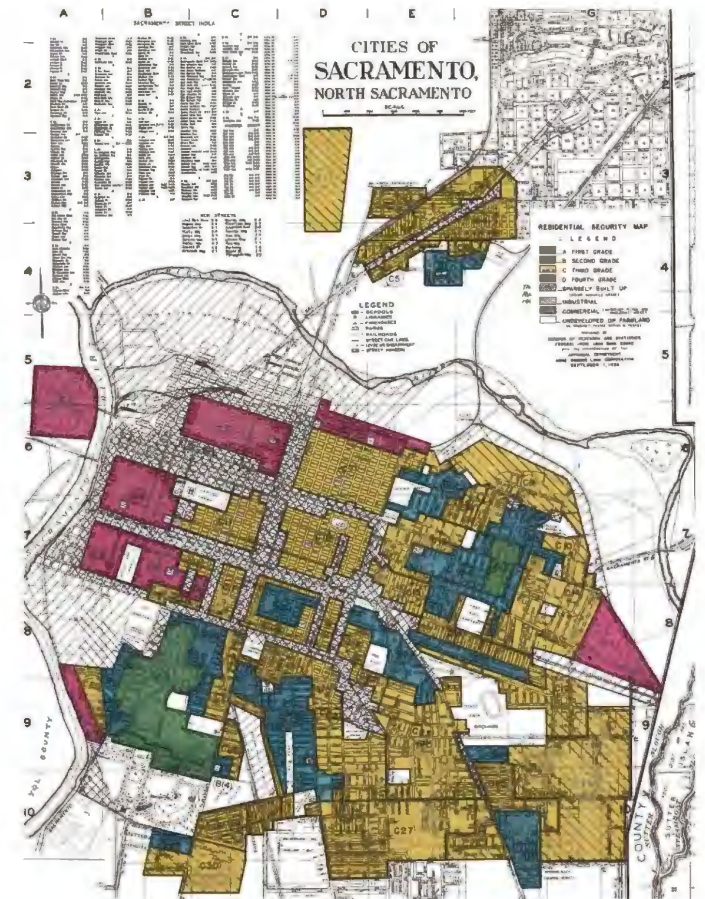
“A neighborhood earned a red color if African Americans lived in it, even if it was a solid middle-class neighborhood of single family homes.”

—Richard Rothstein, *The Color of Law: A Forgotten History of How Our Government Segregated America* (2017)

Background – History

1930s “Residential Security” maps of major cities across the country (population >40,000), including 8 in California:

- Fresno
- Los Angeles
- Oakland
- Sacramento
- San Diego
- San Francisco
- San Jose
- Stockton



10-1-37

AREA DESCRIPTION - SECURITY MAP OF Sacramento, Cal.

1. AREA CHARACTERISTICS:

a. Description of Terrain. Level with favorable grade and no construction hazards.

b. Favorable Influences. Convenience to transportation, schools, churches, trading and amusement areas. Nearness to city center. Proximity to centers of commercial and industrial employment.

c. Detrimental Influences. Highly congested population whose density greatly exceeds city's average. Presence in large numbers of subversive racial elements. Encroachment of commerce and business.

d. Percentage of land improved 95 %; e. Trend of desirability next 10-15 yrs. Do-
clining

2. INHABITANTS: All groups from relief to

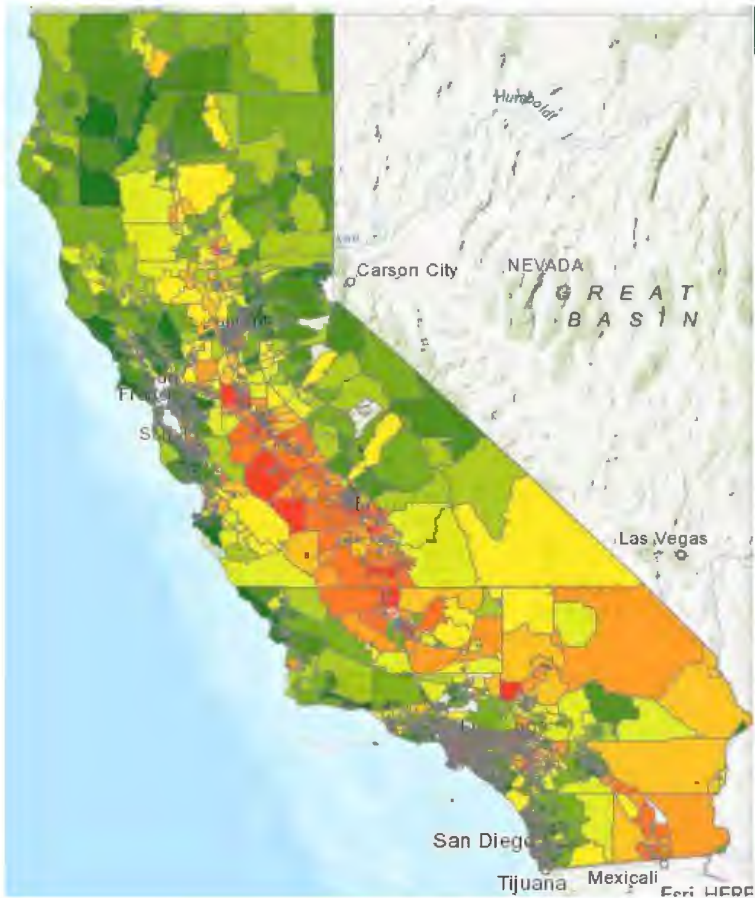
a. Occupation Oriental business and professional men & executives b. Estimated annual family income \$ Relief to
3600





















c. Foreign-born families 75 %; Latin and Japanese predominating; d. Negro Yes ;
10%

e. Infiltration of Orientials has oc- curred; f. Relief families Many

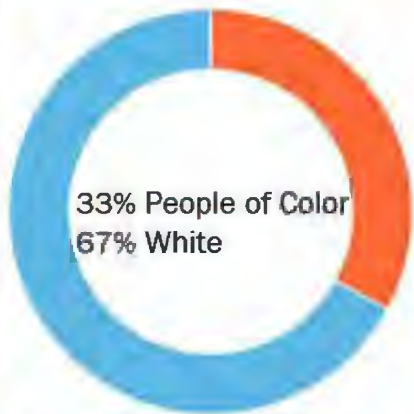
g. Population is increasing Yes ; decreasing ; static

CalEnviroScreen 3.0

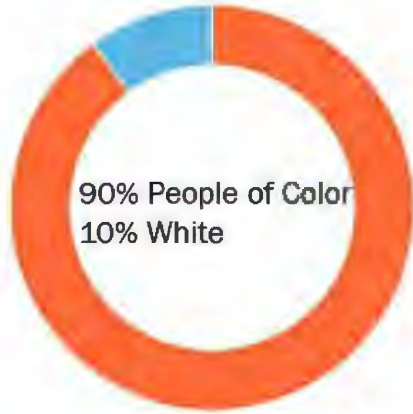


Pollution Burden	Population Characteristics
<p>Exposures</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around;"> <div style="text-align: center; margin: 5px;">  Ozone </div> <div style="text-align: center; margin: 5px;">  PM2.5 </div> <div style="text-align: center; margin: 5px;">  Diesel PM </div> <div style="text-align: center; margin: 5px;">  Pesticide Use </div> <div style="text-align: center; margin: 5px;">  Traffic </div> <div style="text-align: center; margin: 5px;">  Drinking Water Contaminants </div> <div style="text-align: center; margin: 5px;">  Toxic Releases from Facilities </div> </div>	<p>Sensitive Populations</p> <div style="display: flex; flex-direction: column; align-items: center; margin-top: 10px;"> <div style="text-align: center; margin-bottom: 10px;">  Asthma </div> <div style="text-align: center; margin-bottom: 10px;">  Cardiovascular Disease </div> <div style="text-align: center;">  Low Birth-Weight Infants </div> </div>
<p>Environmental Effects</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center; margin: 5px;">  Solid Waste Sites and Facilities </div> <div style="text-align: center; margin: 5px;">  Cleanup Sites </div> <div style="text-align: center; margin: 5px;">  Groundwater Threats </div> <div style="text-align: center; margin: 5px;">  Impaired Water Bodies </div> <div style="text-align: center; margin: 5px;">  Hazardous Waste Generators and Facilities </div> </div>	<p>Socioeconomic Factors</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center; margin: 5px;">  Poverty </div> <div style="text-align: center; margin: 5px;">  Unemployment </div> <div style="text-align: center; margin: 5px;">  Educational Attainment </div> <div style="text-align: center; margin: 5px;">  Linguistic Isolation </div> <div style="text-align: center; margin: 5px;">  Housing Burdened Low Income Households </div> </div>

CalEnviroScreen 4.0



Top 10% least polluted neighborhoods are 67% white



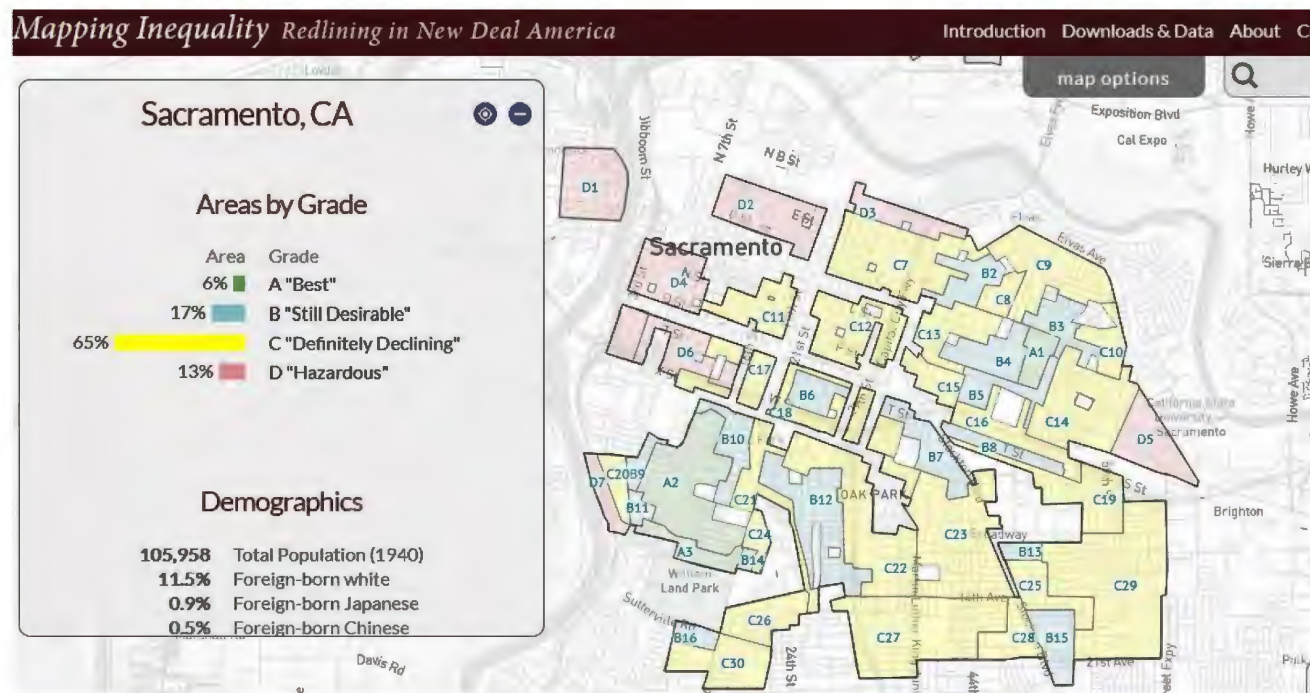
Top 10% most polluted neighborhoods are 90% people of color

■ People of Color
■ White



Figure 3. Racial Makeup of Each Decile of the Draft CalEnviroScreen 4.0 Score.

Analysis-Digitized Redlining Maps



Translating CalEnviroScreen Scores to Redline Maps

Zoom To:

Oakland

CalEPA Regulated Sites:

Site Selection Options:

None

Redlining Data:

Filter For Sites By HOLC Grade or Location:

OFF

Environmental, Public Health, & Socioeconomic Data:

Select CalEnviroScreen (CES) Parameter:

CES 3 Percentile

Filter Sites By Score of Selected CES Parameter:



100

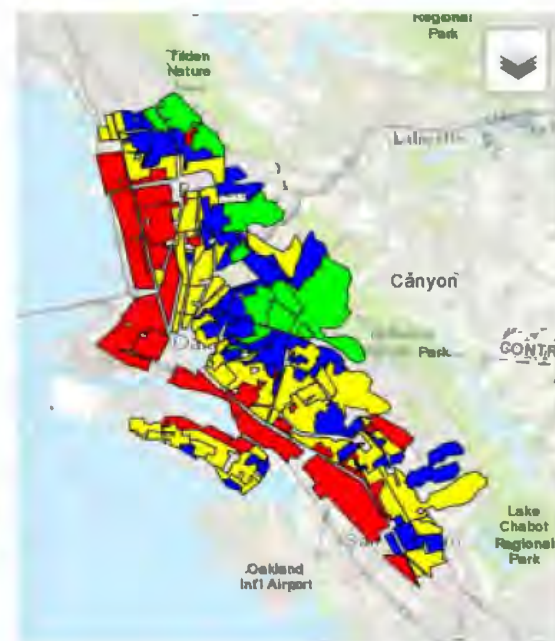
Show/Hide Sidebar

NOTE: Use the left side map to pan/zoom, and use the button in the upper right corner of each map to toggle layers on or off (some map layers must be activated in the sidebar on the left first). Tabular data for the selected sites is available to view/download below the maps.

CalEPA Data:



HOLC (Redline) Data:



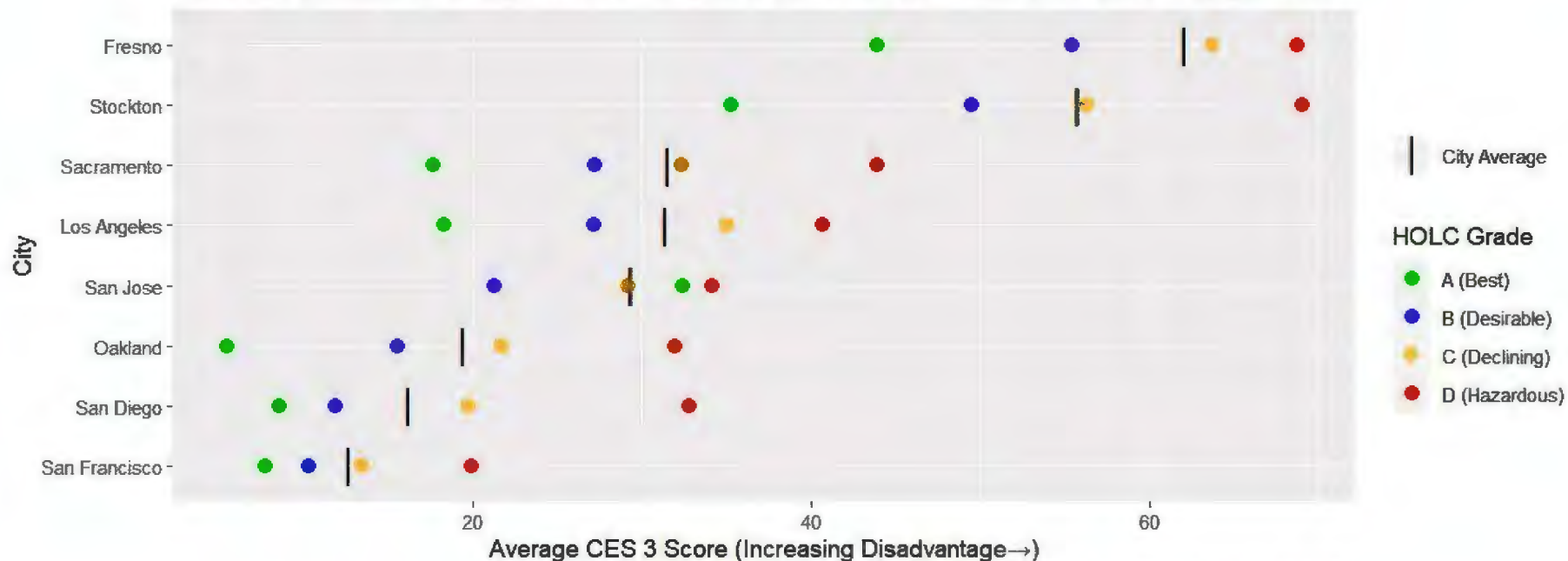
Demo

<https://storymaps.arcgis.com/stories/f167b251809c43778a2f9f040f43d2f5>

Results – CalEnviroScreen Scores by City & Grade

Average CES 3 Score by City and HOLC Grade for Neighborhoods in California Cities Assessed by the HOLC in the 1930s

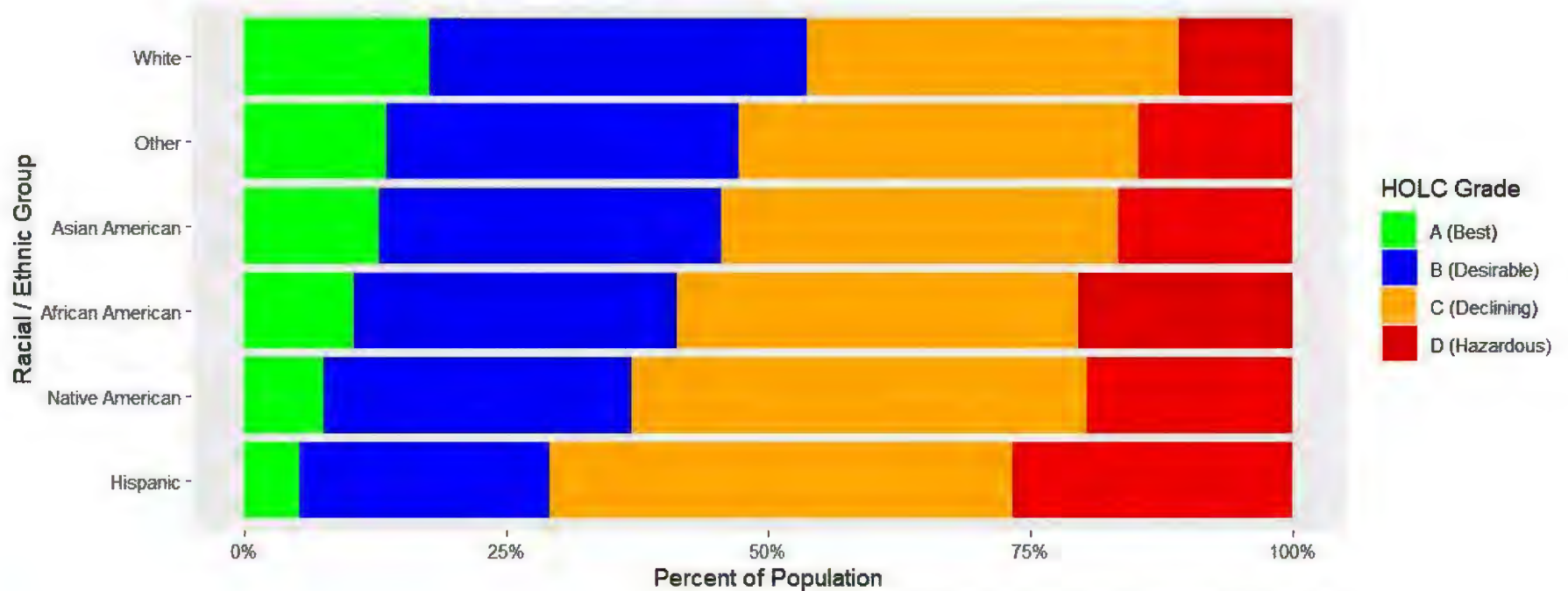
Black lines represent the average CES 3 Score of all neighborhoods assessed by the HOLC in the given city



Note: Higher CES 3 scores indicate greater pollution burden and/or population vulnerability

Results – Present-Day Demographics

Present-Day Distribution of Racial / Ethnic Group Populations Within Neighborhoods Assessed by the HOLC in the 1930s in California



Note: Present-day demographic information is from 2010 U.S. Census data

Where can I find all this information?

Storymap (ESRI/ArcGIS)- Pollution and Prejudice: Redlining and Environmental Injustice in California

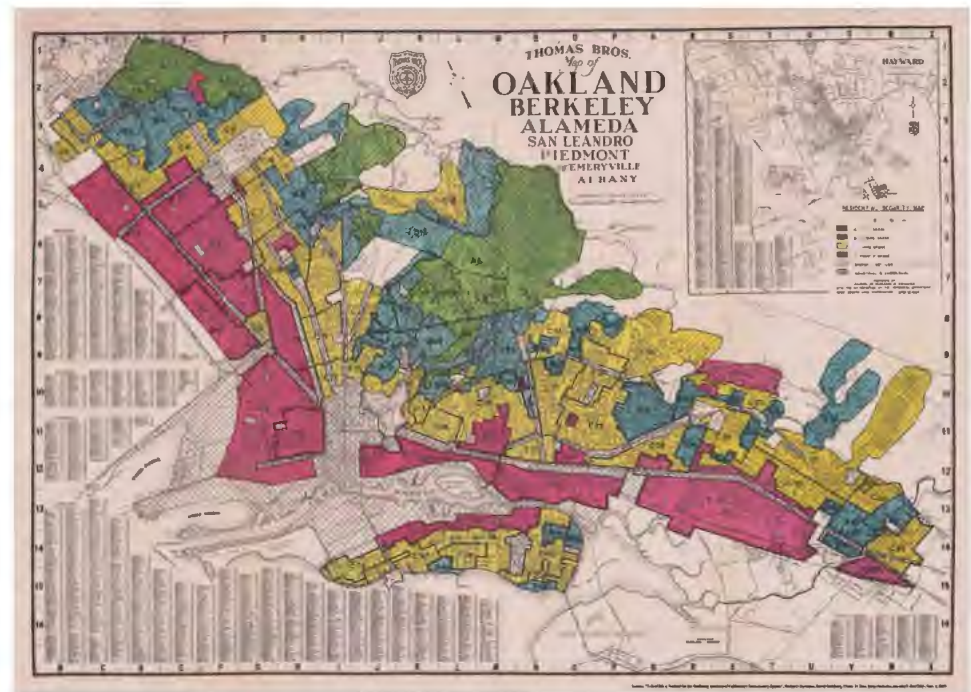
<https://bit.ly/pollutionandprejudice>

Shiny App (R/RStudio)

<https://cawaterdatadive.shinyapps.io/Redline-Mapping/>

Take-Aways and Next Steps

- Combining HOLC maps with CES shows how systemic racism in government policies contributed to the environmental injustices we see today.
- Using a racial equity lens requires the reliance on data-driven approaches.



Breaking the cycle of injustice

Historical injustices led to current inequality
Permeates as implicit bias

Inequality decreases participation

Leads to learned helplessness, individuals have seen they have no control over decisions affecting their health

Lower participation increase cycle of inequality

Pollution manifests in the places of least resistance



Share power, prepare for conflict
Emphasize accountability and transparency

Make environmental justice explicit

Place responsibility for action on equity at the highest level of government

Build meaningful community partnerships

Partner with communities; commit resources and creativity to overcome barriers

proximity to city dump

so strong is the racial threat

Lack of sewers

uring neighborhood. Whether industry invaded
Mexicans encroached upon an industrial district
they are inextricably mixed. The district is

**WHAT DOES THIS
HISTORY MEAN
FOR YOU?**

(out-side city limits).

adjacence to oil wells and industry
inharmonious racial elements, rende:

a residential island in a sea of industry.

along the numerous highways are found scattered groups of
dwellings which house Mexican and Japanese farm laborers.

Contact Information

Kevin Olp

kolp@baaqmd.ca.gov

Jennifer McGovern

Jennifer.McGovern@waterboards.ca.gov

Jaimie Huynh

jaimie.huynh@calepa.ca.gov