



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT



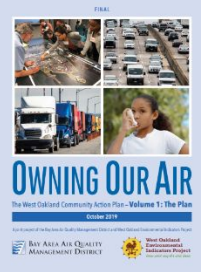
**West Oakland
Environmental
Indicators Project**
know which way the wind blows



Steering Committee

August 7, 2024

**Owning Our Air - West Oakland AB 617
Steering Committee Meeting
Wednesday, August 7, 2024 | 12 pm to 1:30 p.m.**



Time	Item
11:45am - 12pm (15 min)	Lunch!
12pm-12:10 pm (10 min)	Welcome and Follow Up from Previous Meeting
12:10-12:50pm (40 min)	CARB - enforcement
12:50-1:30pm (40 min)	5-Year Progress Report - Community Profile



Welcome and Co-Leads Report

WOCAP 2024 Schedule

Date	<i>Meeting Type</i>
Wednesday, September 4 @ 6:00-8:00pm	PUBLIC Virtual Quarterly Meeting: Five Year Report
Wednesday, October 2 @ 12:00-1:30pm	Steering Committee ONLY. In-Person Work Session
Wednesday, November 6 @ 6:00-8:00pm	PUBLIC Town Hall / Community Celebration



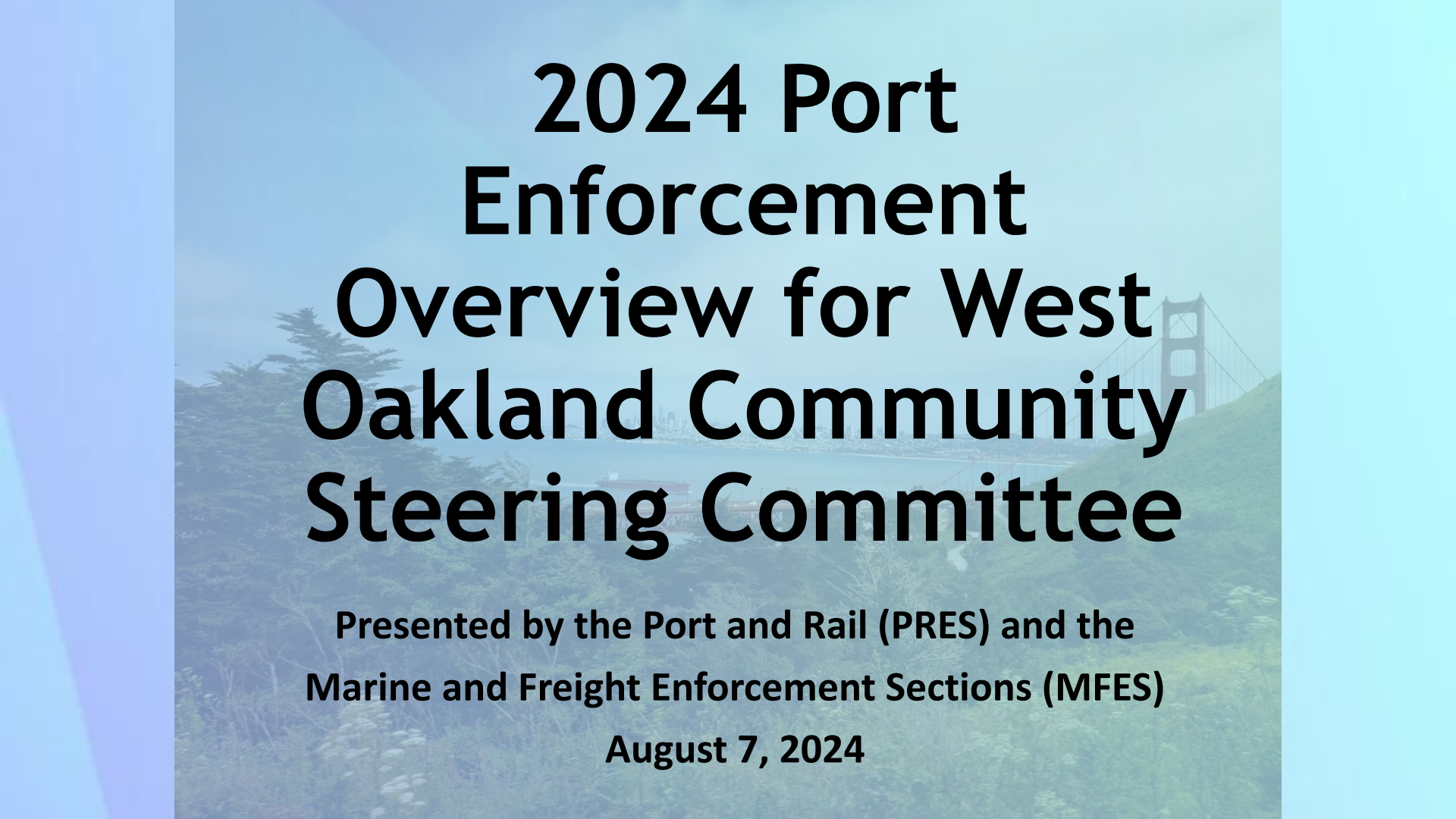
Follow-Up from June and July

July meeting (online)

- Strategy Evaluation Workshops
- 2 sessions
- Special meetings
- Context, revision and path forward

June Meeting (evening Zoom)

- WOCAP Five Year Progress Report
- Emissions Inventory Approach



2024 Port Enforcement Overview for West Oakland Community Steering Committee

**Presented by the Port and Rail (PRES) and the
Marine and Freight Enforcement Sections (MFES)**

August 7, 2024

Related WOCAP Strategies

- **Strategy #60** – CARB develops amendments to the At-Berth Air Toxics Control Measure to further reduce ship emissions at berth by strengthening the regulation to cover more vessel visits and types of ships.
- **Strategy #61** – CARB develops amendments to the Commercial Harbor Craft Air Toxics Control Measure to achieve additional control of harbor craft emissions. The CSC, WOEIP, and the Air District advocate for early compliance of harbor craft operating near West Oakland.
- **Ch. 7 CARB Enf. Strategy #1** - Increase the frequency of compliance inspections with guidance from the CSC.

CARB Enforcement Tools



- Partnering with communities and other CARB divisions
- Investigation and direct enforcement
- Assessing penalties

While it is the responsibility of industry to meet regulatory requirements, CARB works to ensure that regulated industries are aware of, and understand, the requirements of each regulation

Partnering with West Oakland

In 2023 CARB partnered with WOEIP to address community pollution priorities and support emissions reductions.

Priorities include:

- Inspecting every piece of Cargo Handling Equipment (CHE) in 2024, including 17 facilities in West Oakland
- Surveying truck traffic to determine the amount of truck and routes within West Oakland
- In process of installing “No Idling” signs in West Oakland
- Developing a permanent Portable Emissions Acquisition System (PEAQS) installation at the Port of Oakland



Complaints

Companies may be investigated due to complaints from the public

- You are our eyes, nose, and ears!
 - Vehicles, vessels, or equipment that are emitting a large amount of smoke or exhaust
 - CHC without the now required CARB unique vehicle identifier (UVI)
 - Idling locomotives

Example UVI

CARB0001

How To File an Environmental Complaint

Who to report to

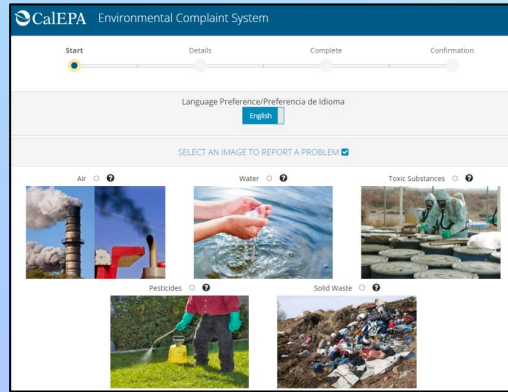
- Local Air District/CARB/CalEPA

What you can report

- Anything you think is affecting the air you breathe

Important elements to include

- Who
- What
- When
- Where

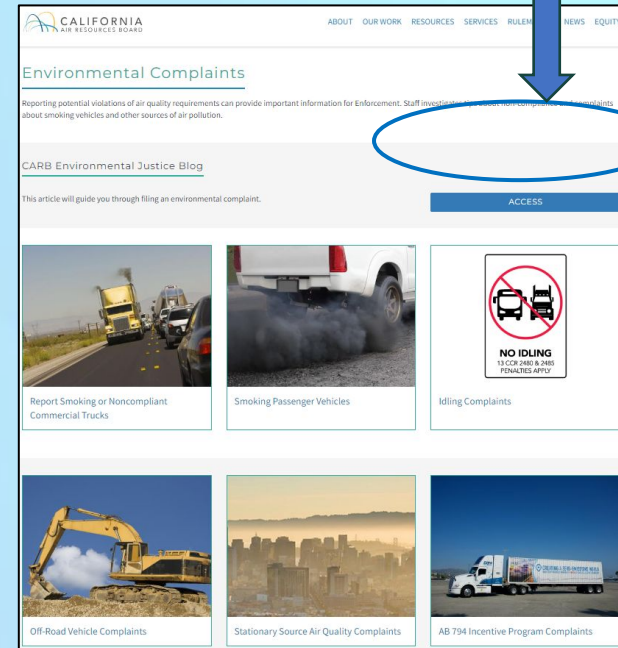


CalEPA Environmental Complaint System:
<https://calepa.ca.gov/enforcement/complaints/>

CARB Environmental Complaints:

<https://ww2.arb.ca.gov/environmental-complaints>

<https://carbej.blogspot.com/2020/08/how-to-file-air-pollution-complaints.html>



Inspections

- Field Inspections

- CARB inspectors visit every major California port annually where the activity of large vessels, harbor craft, locomotives, and other diesel equipment is highest
 - OGV fuel inspections
 - Commercial Harbor Craft inspections

- Desk Audits

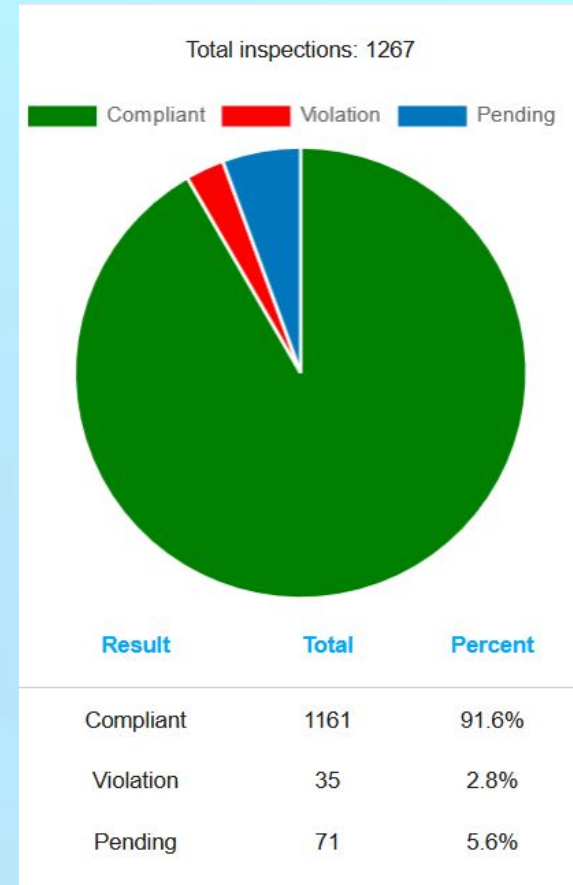
- CARB inspectors audit records to evaluate compliance when field inspections do not show the whole compliance picture
 - At Berth/Shore Power audit process

Enforcement Statistics

Since 2015, 1267 inspections completed at the Port in West Oakland

- Cargo Handling Equipment (CHE) - 458
- Commercial Harbor Craft (CHC) -95
- Ocean Going Vessels (OGV) - 237
- Shore Power - 170
- Transportation Refrigeration Units (TRU) – 307

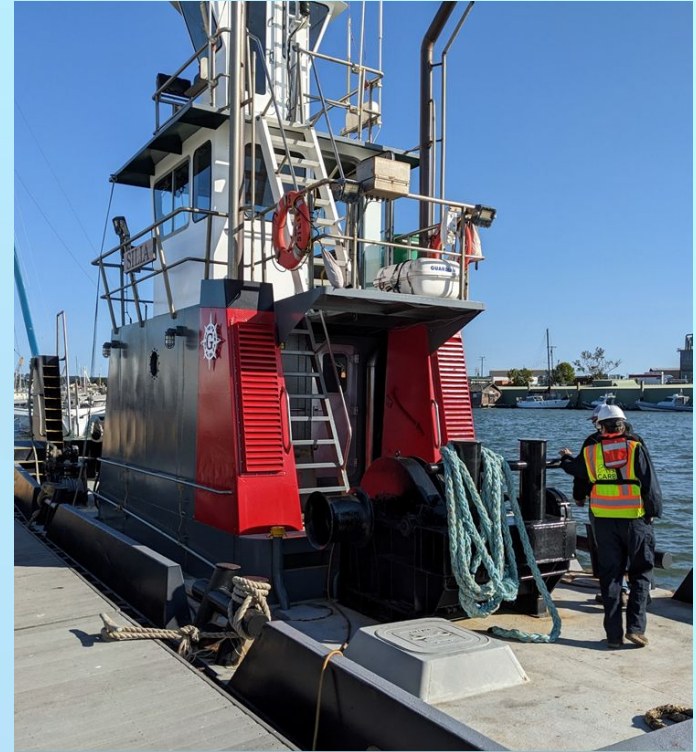
Inspections show over 90% compliance



Noncompliance and Violations

Once a potential violation is identified,
Enforcement staff:

- Notify the company immediately and issue a Notice of Violation
 - CARB does not force equipment operators to stop operating, however, each day of violation constitutes a separate violation and additional penalties
- Achieve compliance through
 - Engine repower
 - Vessel or equipment retirement
 - Equipment repairs
 - Process evaluation



Penalties and Settlement Negotiations

- Settlement negotiations can be lengthy
- Penalties are intended to
 - Remove the economic benefit gained from noncompliance
 - Deter future violations across the industry
- The size of penalties are determined by 8 factors CARB is required to consider by law including impact of the violation(s)
- Up to 50% of penalties may be allocated to a Supplemental Environmental Project (SEP), the remaining portion funds the Air Pollution Control Fund

Extent of harm to public health, safety and welfare

Nature and persistence of the violation

Compliance history

Preventative efforts taken

Innovative nature and magnitude of the effort required to comply

Efforts provide for compliance prior to violation

Cooperation

Financial burden to the defendant



Projects funded in part through the Air Pollution Control Fund

- Clean Vehicle Rebate Project (CVRP)*
- Clean Cars 4 All and Enhanced Fleet Modernization Program (EFMP)- Incentives for retiring older, high-emission vehicles and replacing them with cleaner models funded by \$67 million from the APCF
 - 3,288 replacement vehicles in the Bay Area**
- Community Air Protection Program- Reducing emissions in underrepresented communities disproportionately affected by air pollution***
- Research and grants- Funds research projects aimed at developing new technologies and strategies for reducing air pollution



** CARB approves \$1.5 billion investment — largest to date — in clean cars, trucks, mobility options

", Nov. 2021, <https://ww2.arb.ca.gov/news/carb-approves-15-billion-investment-largest-date-clean-cars-trucks-mobility-options>

**Vehicle data is cited from CARB "Number of Vehicles Purchased with a CC4A and/or EFMP Incentive", March. 2024,

<https://ww2.arb.ca.gov/our-work/programs/clean-cars-4-all/outcomes-and-results-clean-cars-4-all>

***AB 617 Program Funding FAQ, May. 2024, <https://ww2.arb.ca.gov/our-work/programs/resource-center/ab-617-implementation/ab-617-budget>



Supplemental Environmental Projects Funded in the East Bay

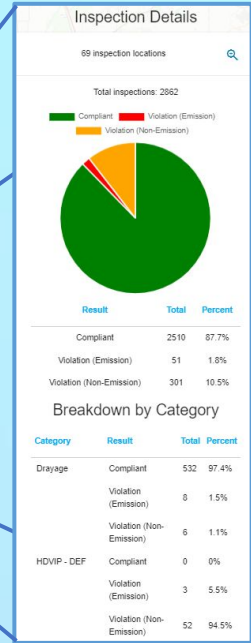
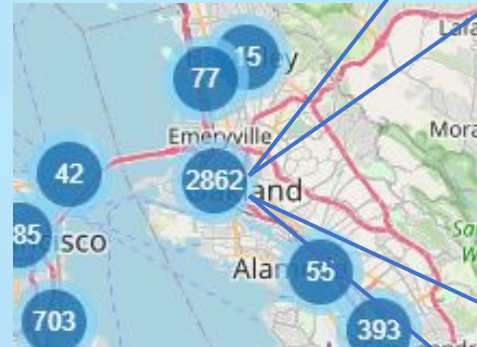


- Six SEP's in the greater Oakland area have been approved by CARB with \$6,369,685 allocated to date
- Examples include:
 - Air Filtration for sensitive receptors in West Oakland schools
 - West Oakland Local Environmental Equity and Empowerment Project (LEEEP)



Community Resources

- [Enforcement Data Visualization System \(EDVS\)](#)
- [Supplemental Environmental Projects \(SEPs\)](#)
- [Enforcement Case Settlements](#)
- [Blueprint 2.0](#)
- [Pollution Mapping Tool](#)
- [Enforcement Policy](#)
- [Community-Focused Enforcement Showcase](#)
- [Bay Area Air Quality Management District](#)



For further questions, please contact:

Helena Victoriano

helena.victoriano@arb.ca.gov

Thank you!



West Oakland Community Description

2019-2024 Update



Introduction

- This is an update to the demographic and health indicators from the original WOCAP
- We have added some new indicators
- This is NOT a comprehensive community health profile; We are presenting *selected* health data that are partly influenced by air quality

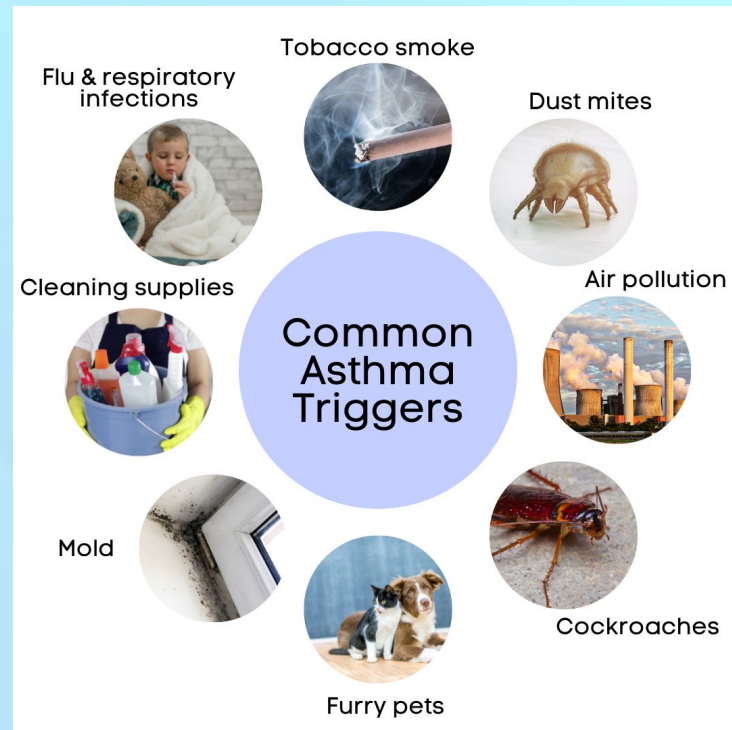
Contents

- Population by Race/Ethnicity
- Education
- Poverty
- Unemployment
- Life Expectancy
- Mortality Rates
- Low Birth Weight
- Pre-Term Births
- Asthma ER and Hospitalization Rate
- OUSD Student Asthma

Caveats and Limitations

1. This is a community profile data update. With the data available, we can NOT attribute any causality from WOCAP implementation.

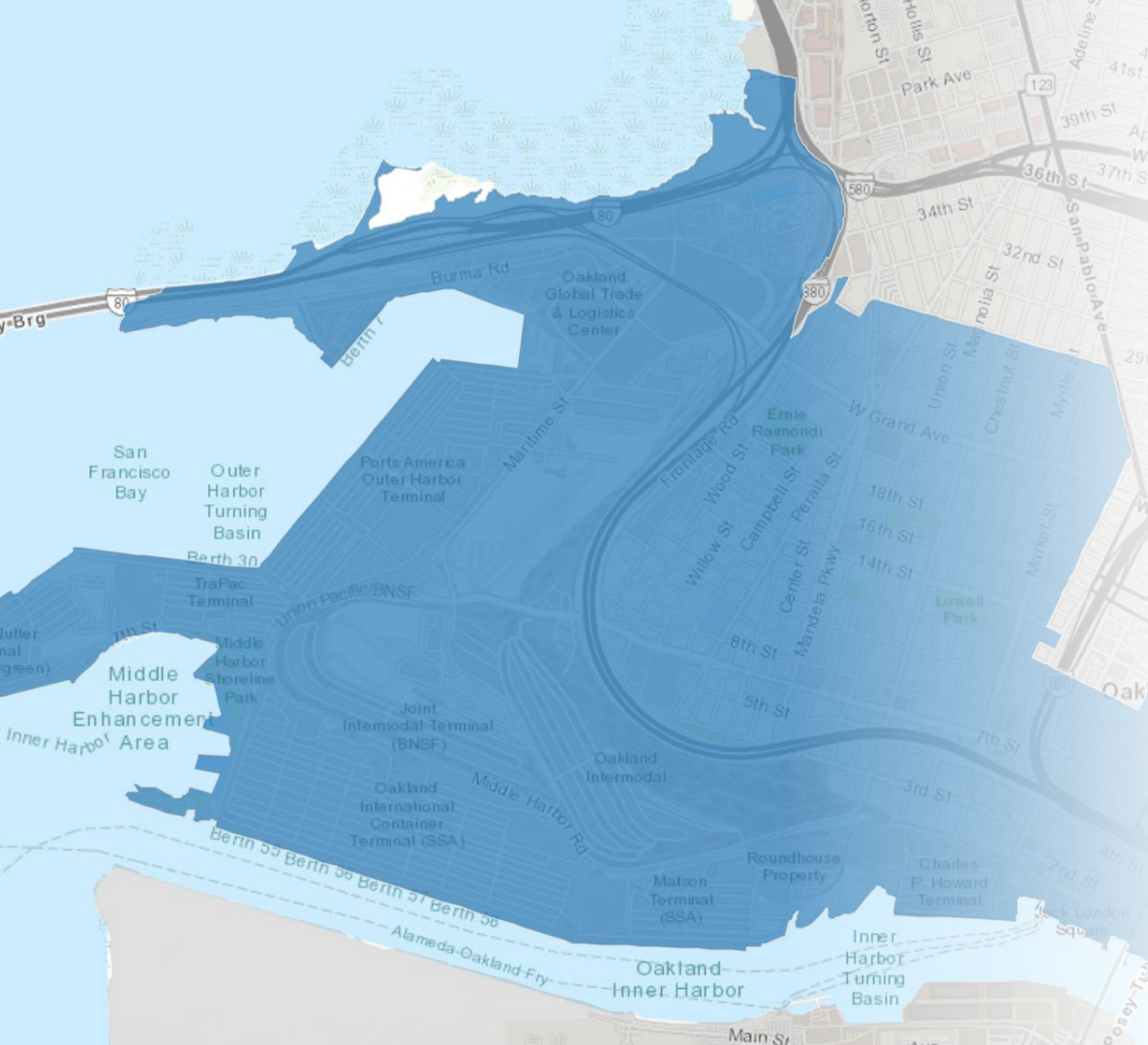
- Most changes in health outcomes take a long time to see
- Many other factors influence health outcomes beyond the potential emission reductions from WOCAP



Caveats and Limitations

2. Different indicators are available at different geographic levels, and they don't always perfectly line up with the WOCAP boundary (*this was also true for the original community description*)

- The demographic data is mostly created by combining all the West Oakland Census Tracts.
 - The Census boundaries have slightly changed (2010 vs. 2020) so the geographic comparisons within West Oakland are not exact.
- The Health data is mostly ZIP-code level (94607)
 - The 94607 ZIP code includes West Oakland as well as Old Oakland, Chinatown, Jack London, and Lake Merritt BART/Oakland Museum Area



Caveats and Limitations (cont'd)

3. **Time periods did not always align with WOCAP pre-plan phase vs. implementation phase due to different "lag times" on data releases**
 - Data is pooled for multiple years due to unstable/small number issues when we go down to the ZIP code and Census Tract levels
 - Specifically, Life Expectancy 2016-2018 and 2020-2022

July 2018 – August
2019 – WOCAP
Planning

October 2019 –
WOCAP Adoption

2020-2024 – 5 Year
implementation
phase

Caveats and Limitations (cont'd)

4. The COVID-19 pandemic impact on behavior, health, and the environment adds another reason why we cannot make any causal inferences about our data.
 - Traffic-related emissions decreased because of shelter-in-place
 - People everywhere decreased their usage of preventative care and care for non-COVID related health conditions and avoided hospitals
 - COVID-19 infections worsened some other health conditions and lead to excess mortality and morbidity (this was unevenly distributed across all places and population groups)



Questions to Keep in Mind

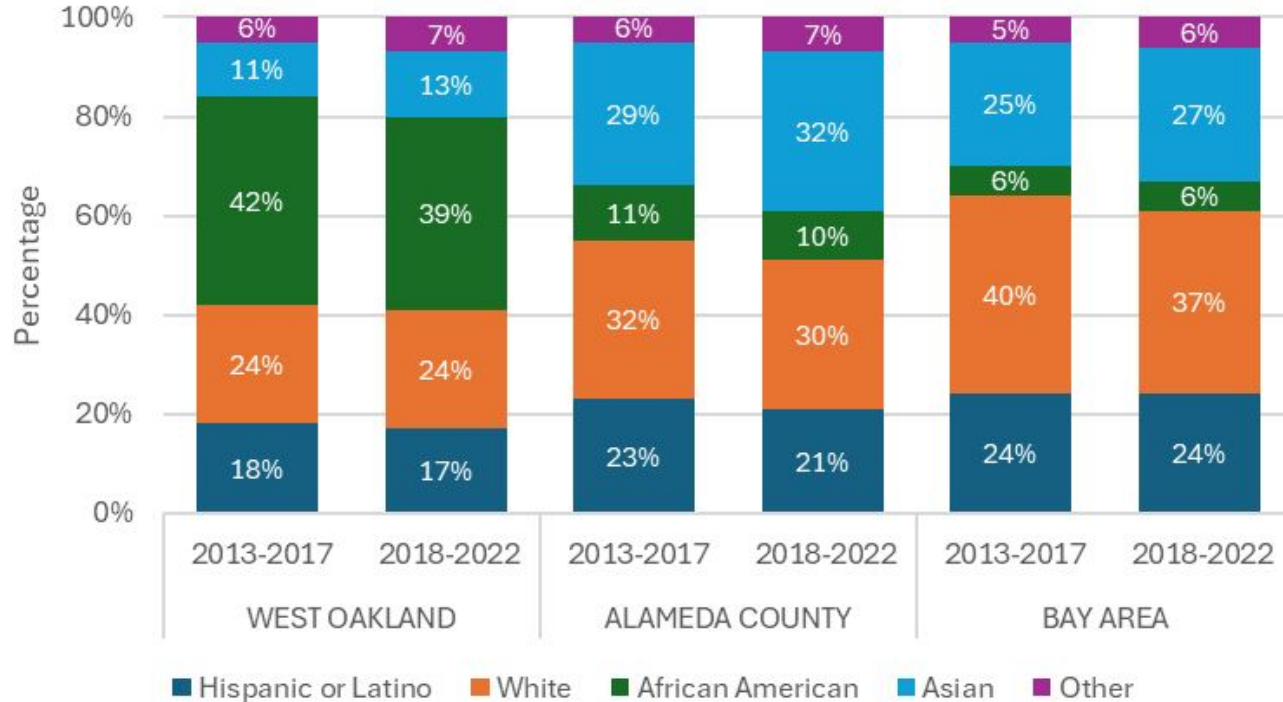
1. Are the visuals and key takeaways clear?
2. Are you surprised by any of the findings?

Population Characteristics Summary

- Since the adoption of the WOCAP the data shows decreases in:
 - The proportion (but increase in number of) Black residents in West Oakland
 - Educational attainment in West Oakland
 - Households at 200% of the Federal Poverty Level across the Bay Area
 - Unemployment across Bay Area.

Race/Ethnicity

Population by Race/Ethnicity



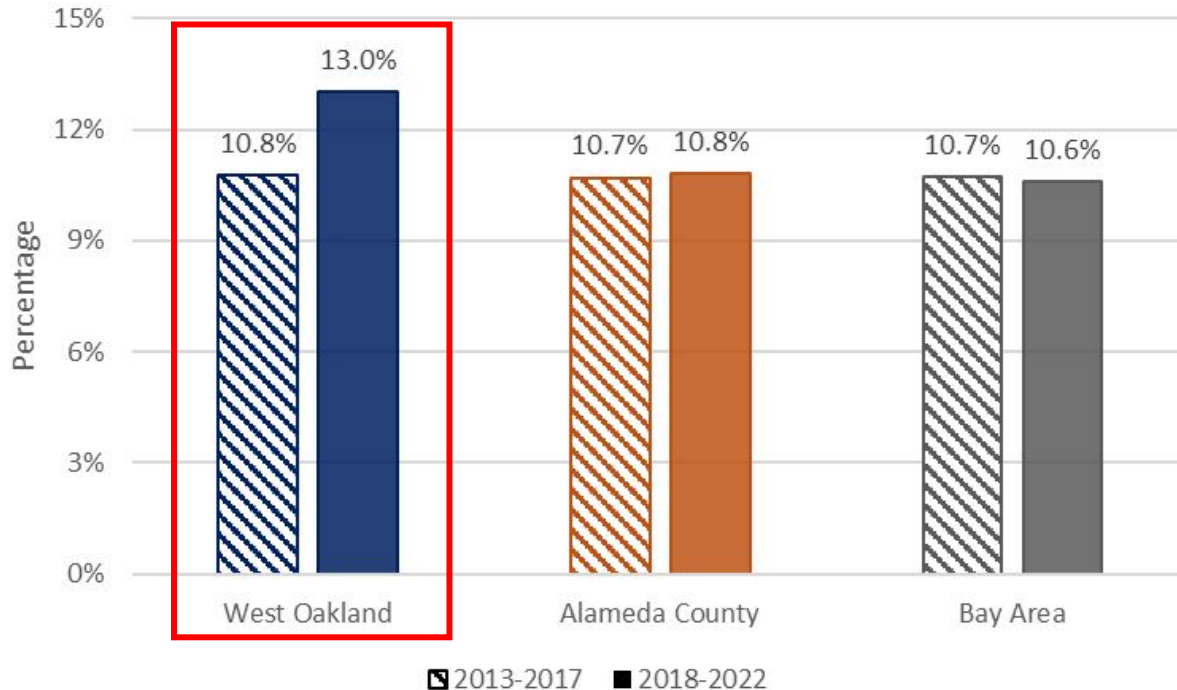
West Oakland's population has increased from 26,000 people to 29,000 people

The Asian and other/multiethnic populations grew at a faster rate than the Black population

West Oakland continues to be a community with a much higher proportion of Black residents than the rest of the Bay Area.

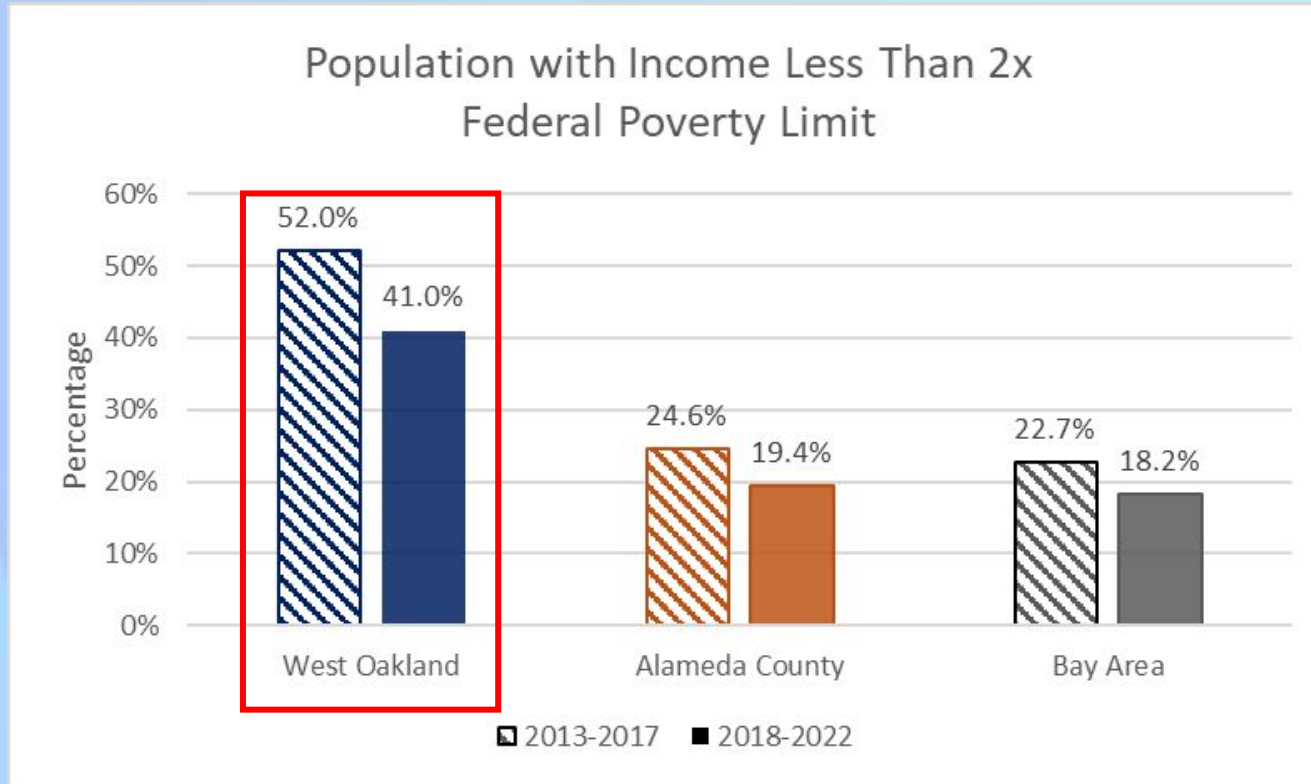
Education - Didn't complete high school

Ages 25 and Up with Less Than a High School Education



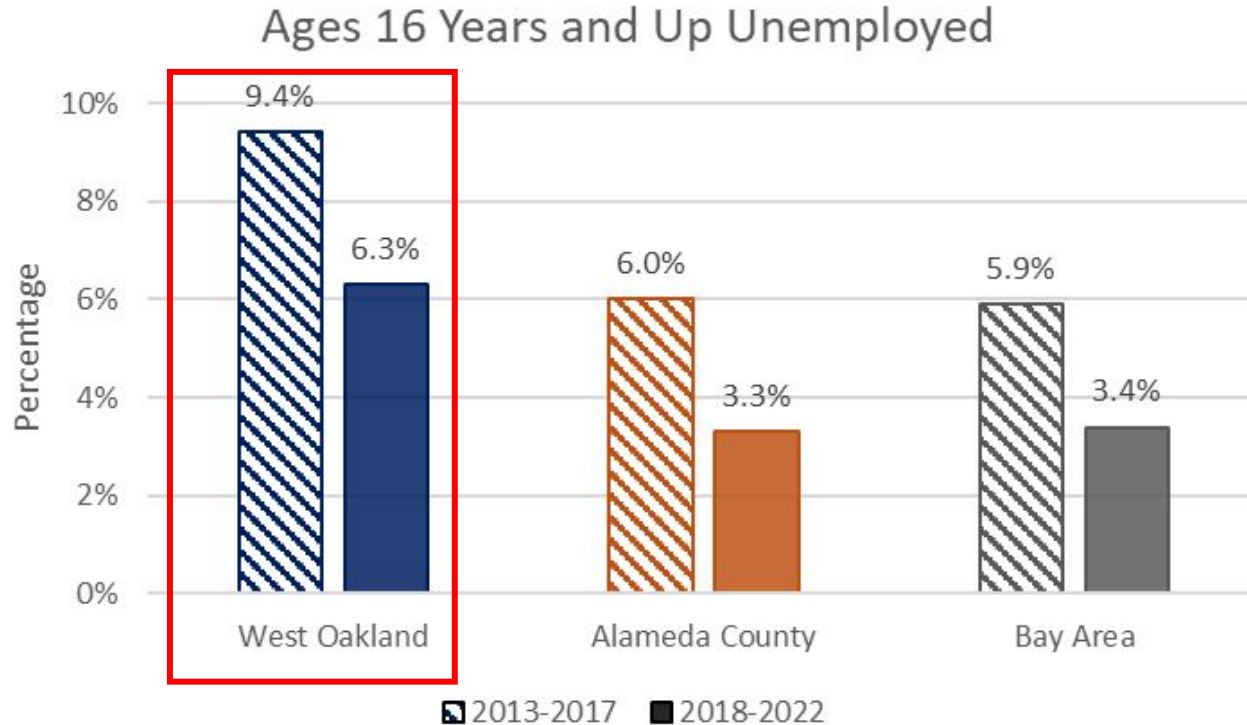
The proportion of West Oakland residents aged 25+ who haven't graduated high school increased by 2% *(while staying constant across the region)*

200% of the Federal Poverty Level



Across the Bay Area, there was an overall decrease in poverty rates during this time. However, West Oakland's decrease was larger with an 11% decrease (compared to Alameda Co. 5% and Bay Area 4%)

Unemployment



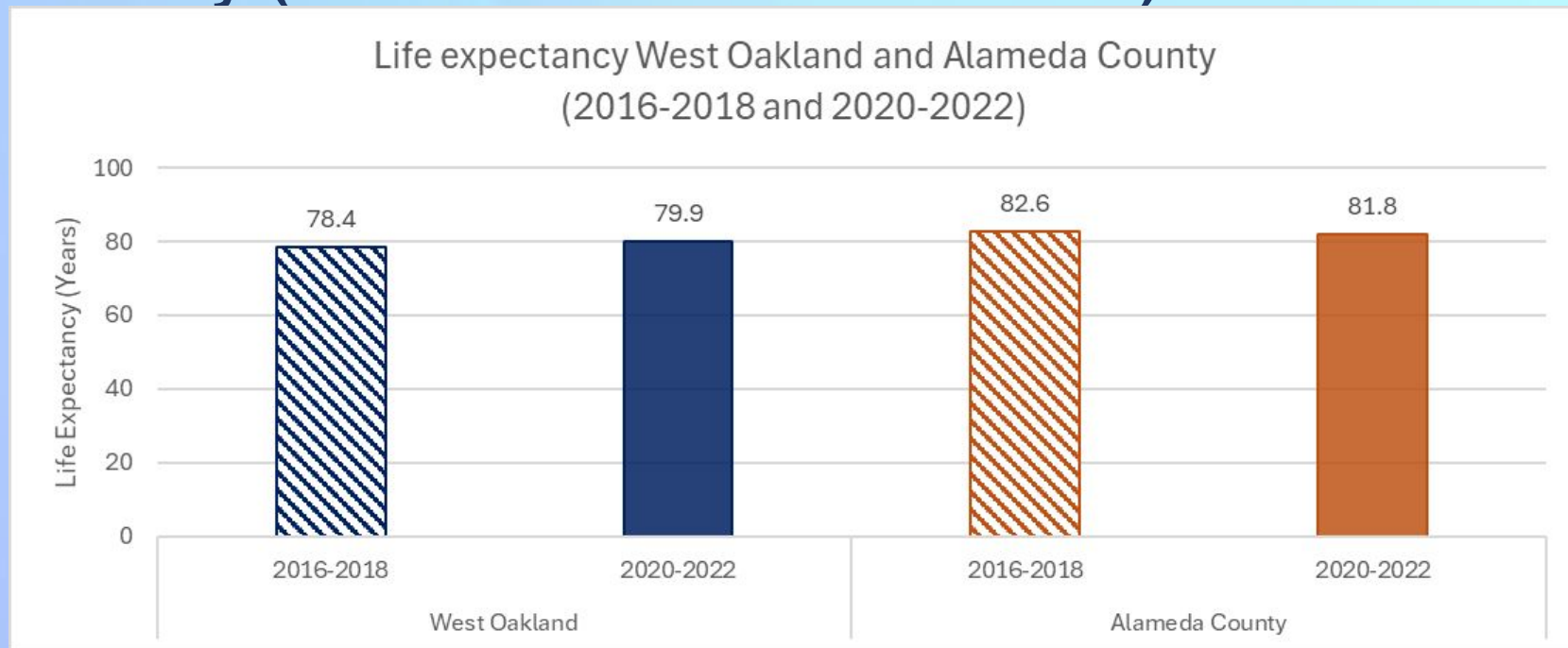
Across the Bay Area, there was an overall decrease in unemployment rates. While W.O. started out higher, it decreased a similar proportion as the County (3ish %).

COVID impacted this. Unemployment = actively searching for work.

Health Indicator Summary

- No changes in all population life expectancy
 - Continued to see lower life expectancy AA/Black residents in West Oakland.
- No changes in mortality rates
- Asthma ED + Hospitalization rates decreased across all ages and children
- Potential increase in low-birth-weight rates in Alameda County
- No changes in pre-term births

Life expectancy West Oakland and Alameda County (2016-2018 and 2020-2022)

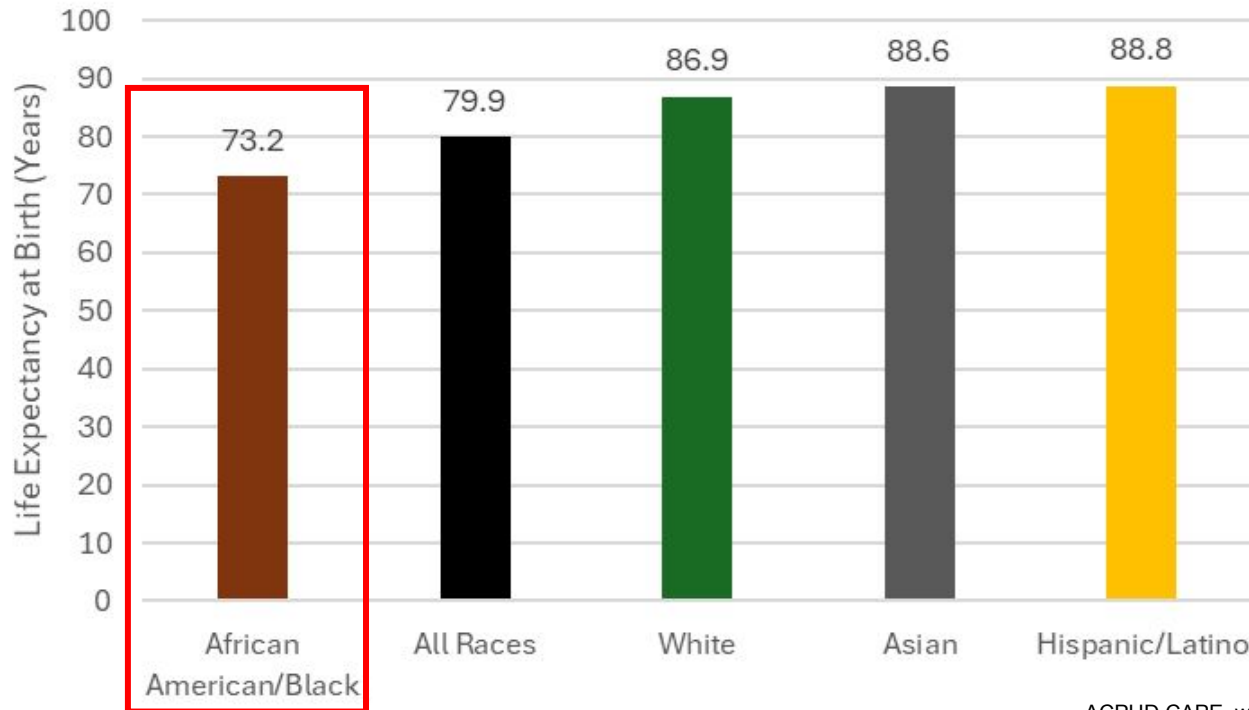


- There were not significant differences between the two time periods (2020-2022 and 2016-2018)
- Life expectancy is significantly lower in West Oakland than in Alameda County in both time periods.



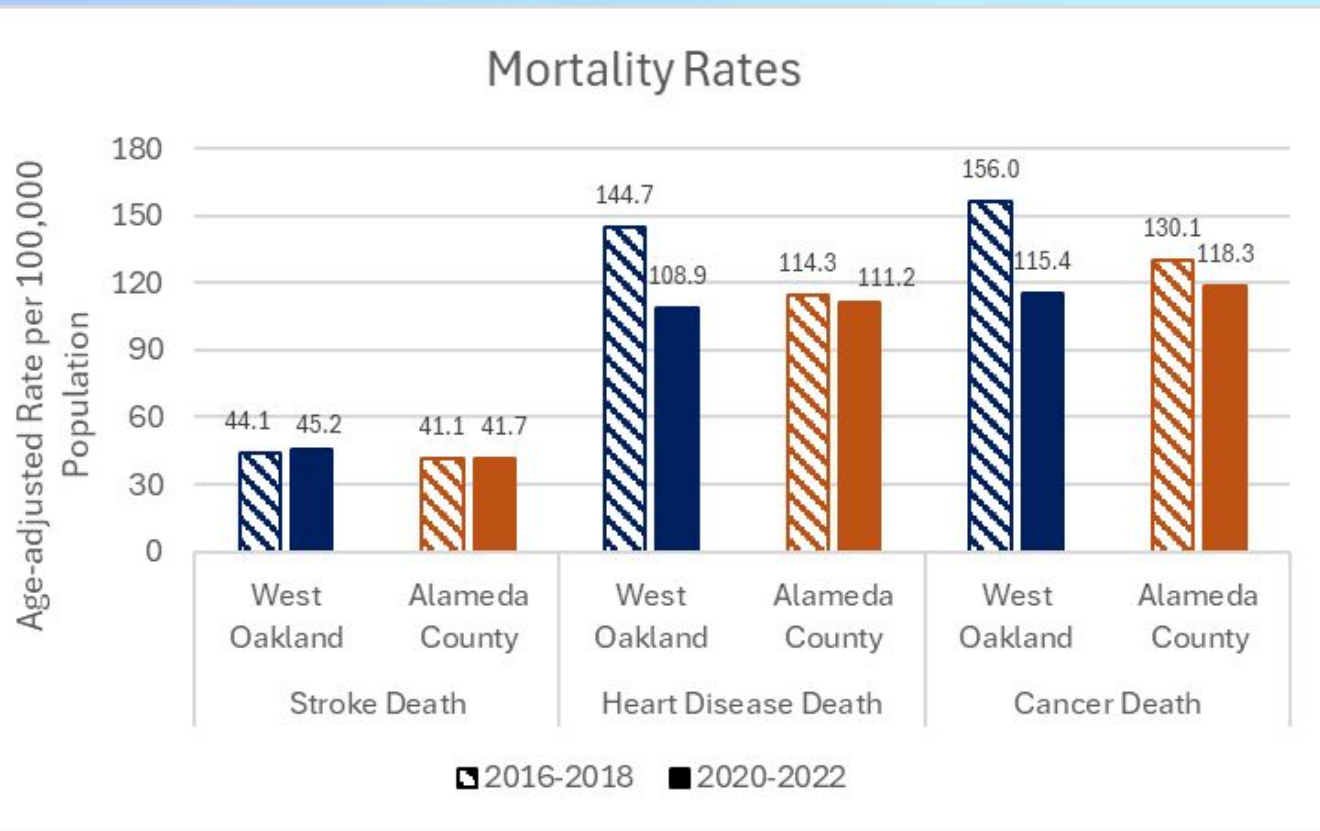
West Oak Life Expectancy by Race/Ethnicity

Life Expectancy in West Oakland by Race/Ethnicity
2020-2022



Life expectancy is significantly lower for West Oakland African Americans residents than for the full West Oakland population. (about 13.7 years shorter!)

Age-Adjusted Mortality Rates

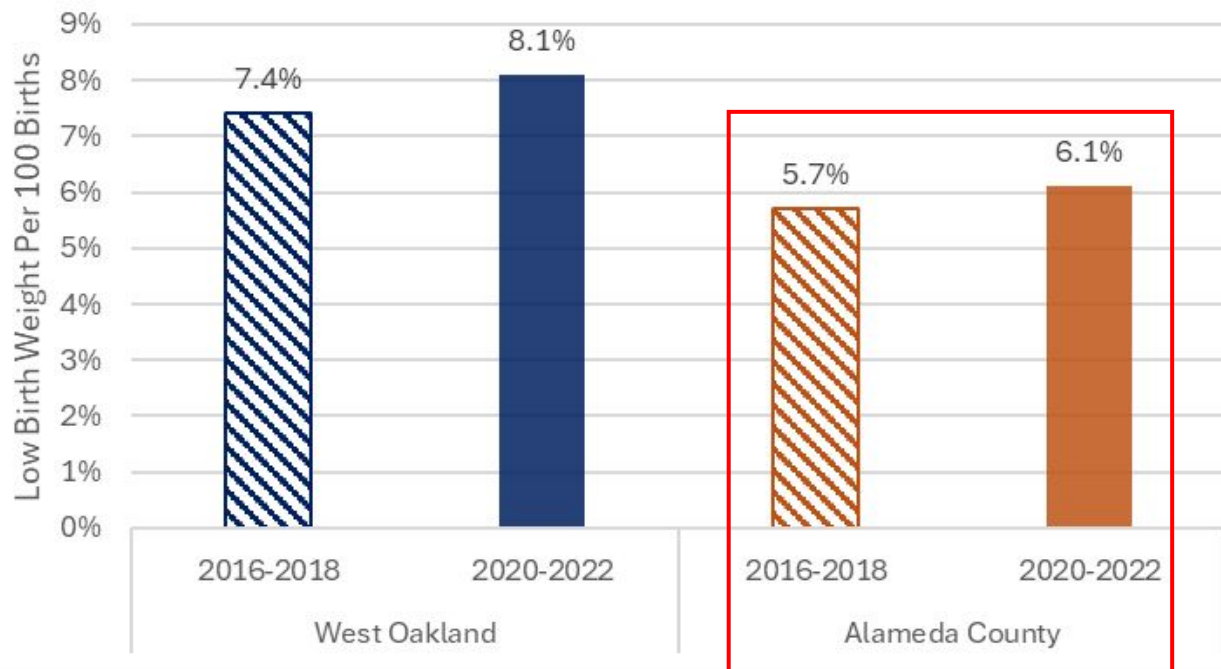


There appeared to be a decrease in the death rates related to heart disease and cancer death for West Oakland that brought them more in line with the county rates.

However, the differences between the two time periods for West Oakland and the County are **not statistically significant.**

Low Birth Weight Rates

Low Birth Weight Rates

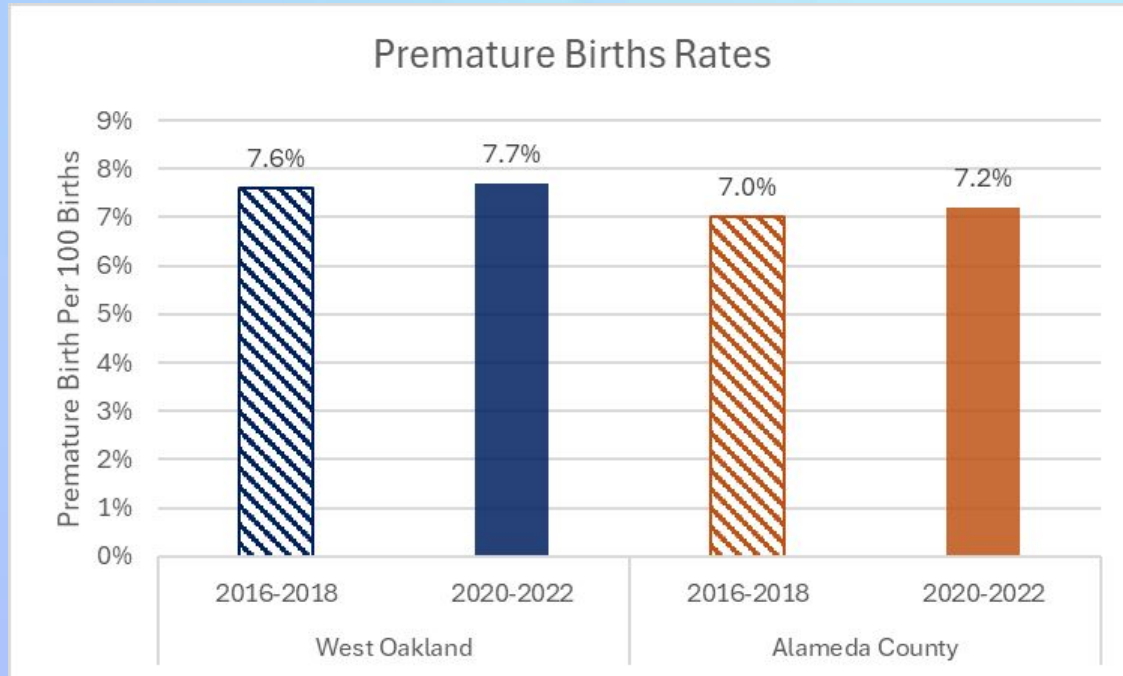


Statistically significant increase in low-birth-weight rates for Alameda County.

The West Oakland increase over time is **NOT** statistically significant.

The differences between West Oakland and Alameda County rates ARE statistically significant

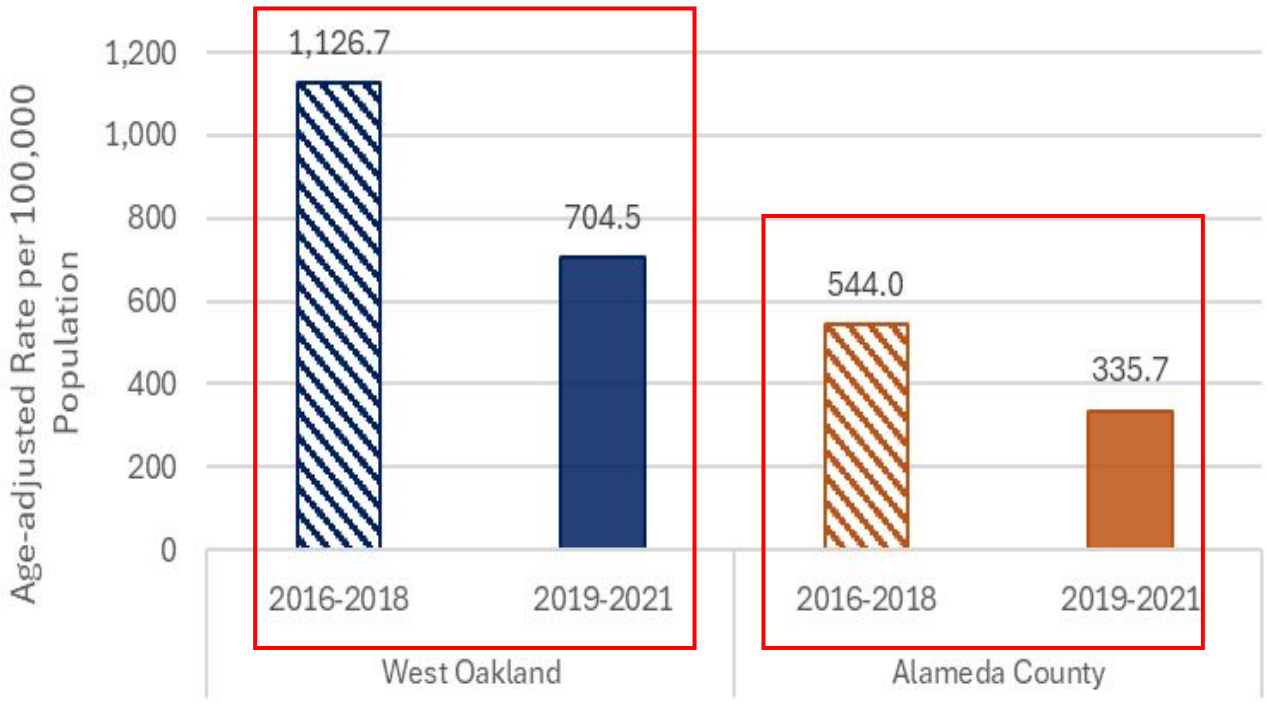
Pre-Term Birth Rate



Not statistically significant for either group across the two time periods.

Asthma Emergency Visits and Hospitalizations

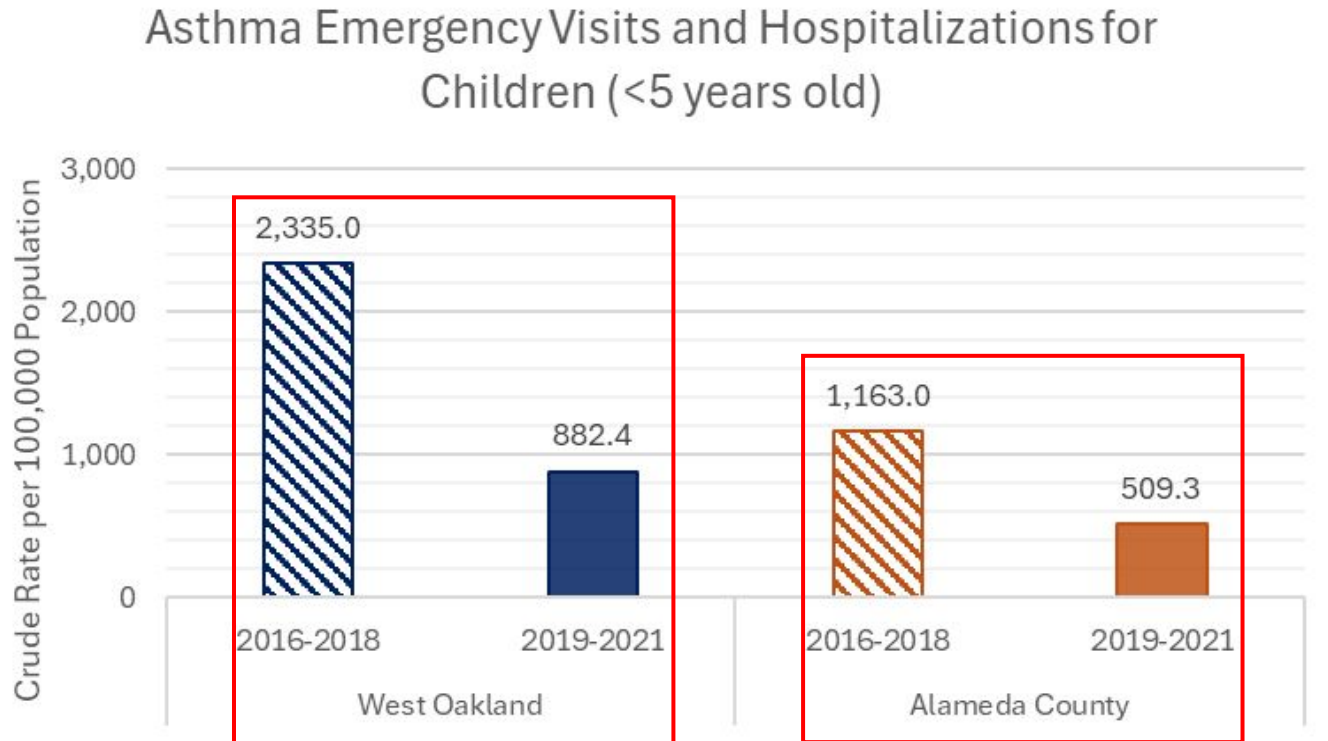
Asthma Emergency Visits and Hospitalizations



Both geographies had ~62% decrease in Asthma ED Visits + Hospitalizations but this is COVID / pandemic related



Asthma Emergency Visits and Hospitalizations (Children Under 5 Years Old)

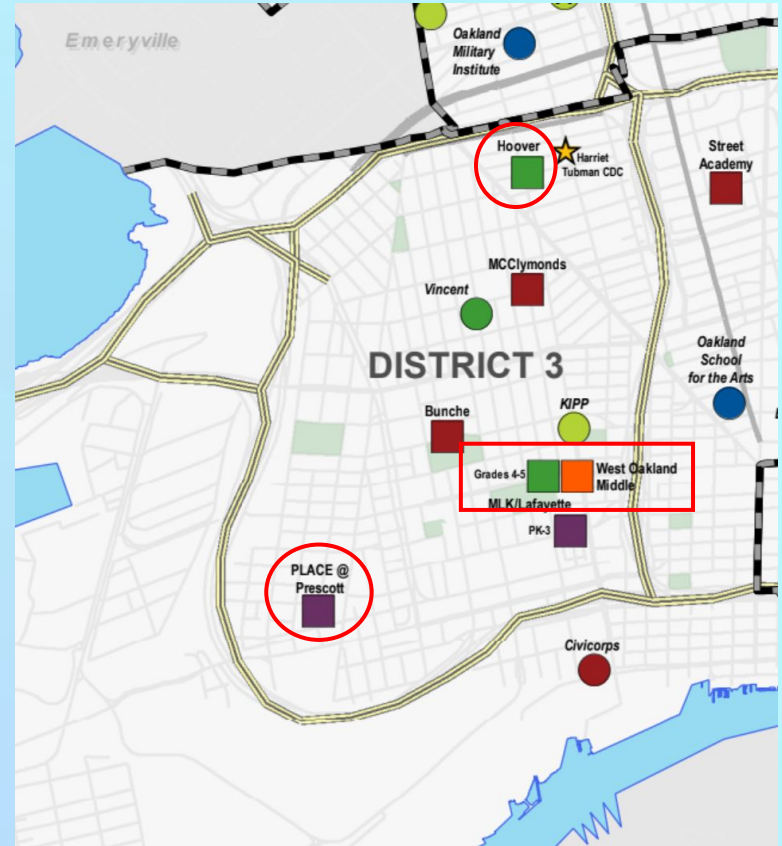


Decreased for both the West Oakland and Alameda County geographies, by approximately 38% and 44%, respectively.

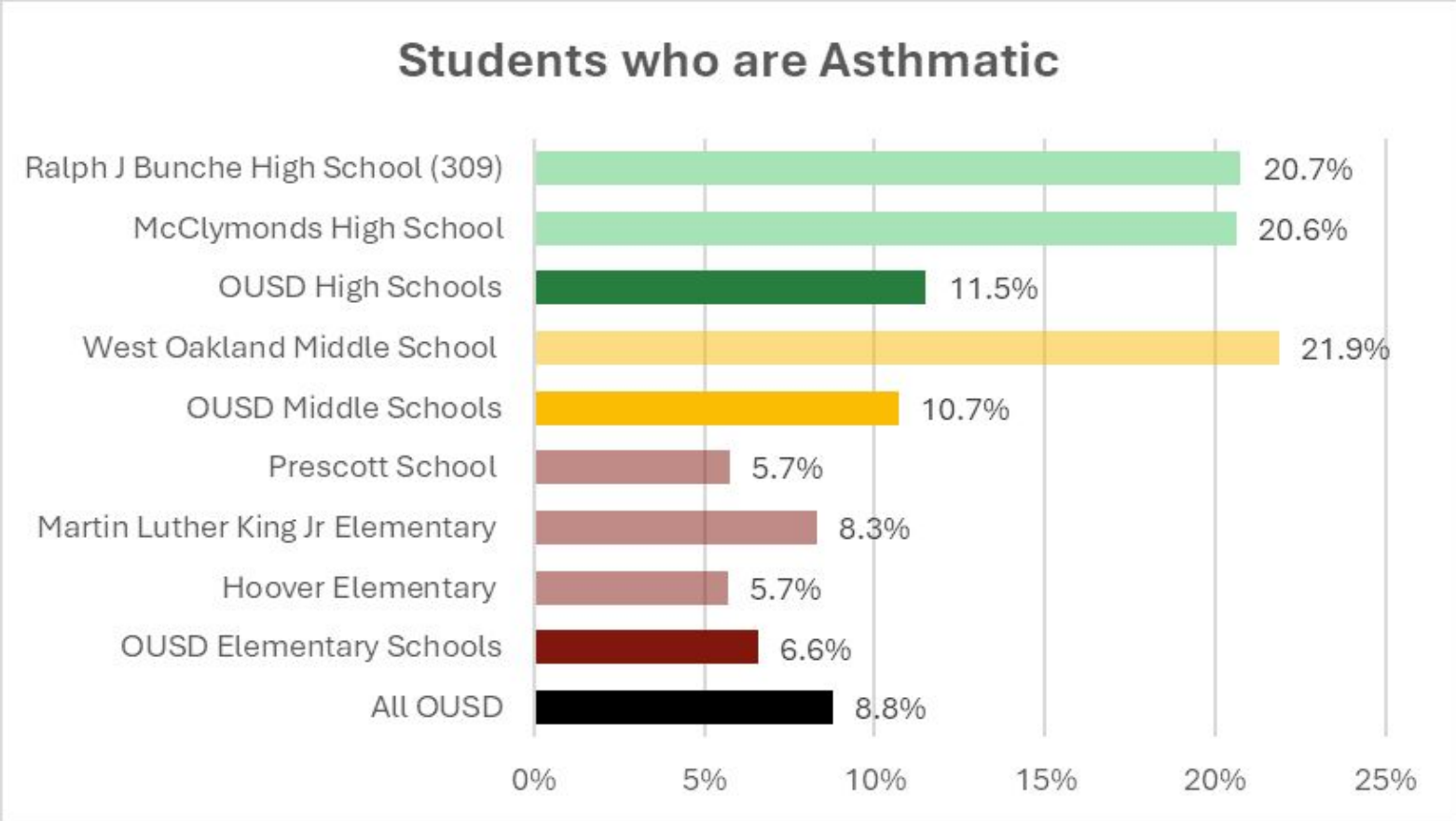


Oakland Unified School District Summary

- Higher rates of asthma at West Oakland Middle School.
- Higher rates of missing school days among asthmatic middle school students
- **Higher asthma medical incidents in West Oakland schools vs. District wide.**

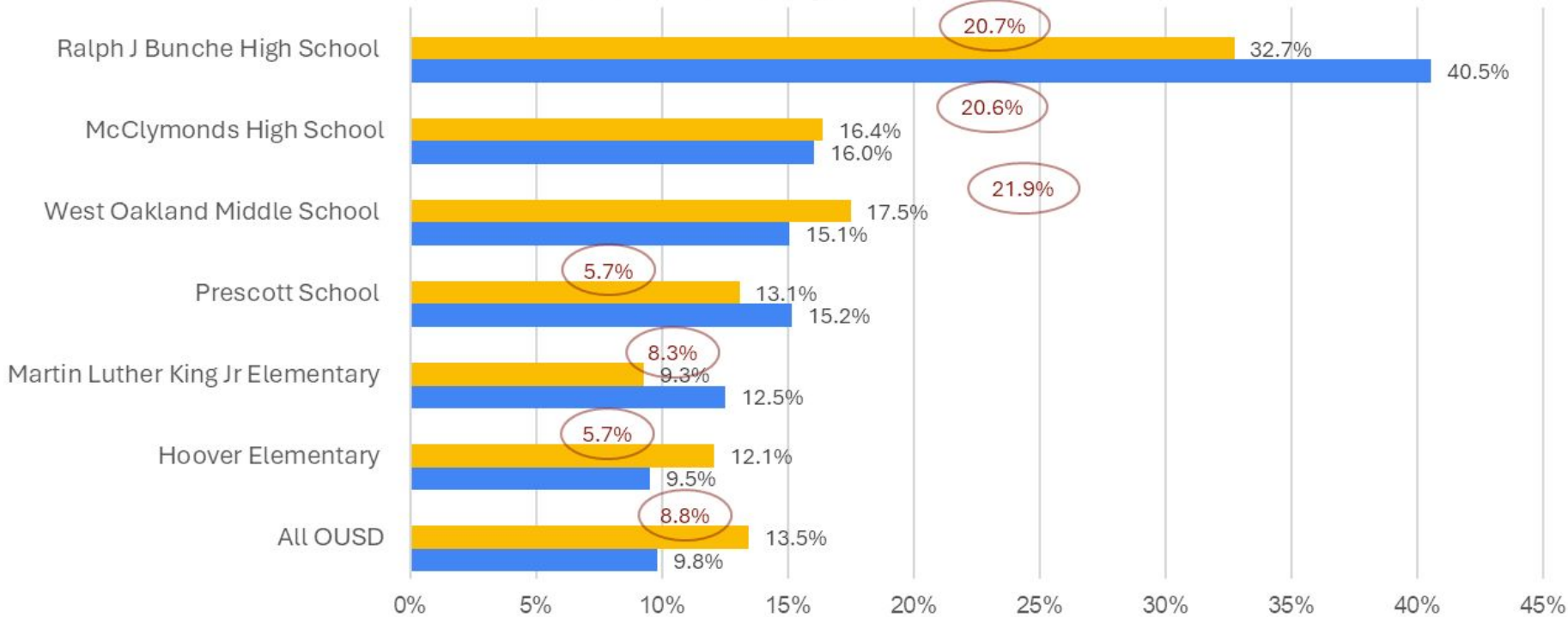


Students Diagnosed with Asthma (2023-24)



Absenteeism Asthmatic vs. Non-Asthmatic Students (2023-24)

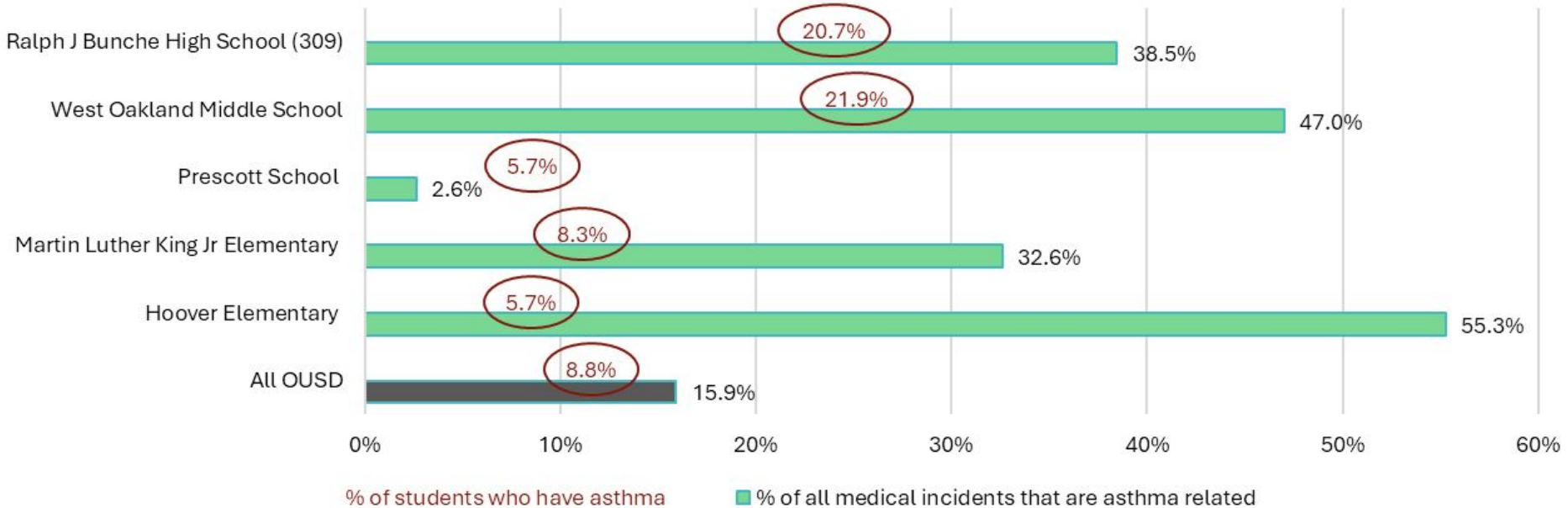
Percent of days Absent



% of Students with Asthma ■ Absense days taken (percent) Asthmatic Students ■ Absense days taken (percent) Non Asthmatic Students

Asthma Medical Incidents at School

% of Medical Incidents During School Day that are Asthma Related: 2023-24



CSC Notes

- How are we tracking wocap impl related to metrics?
 - Suggest that we have OUSD look at the report and get involved.
- Overlay this data on air monitoring data
- Prescott School – has low pollution concentrations in air quality monitoring.
- What is around each school? How do they relate to monitoring/pollution sources? Filtration? Nursing?
- All of the federal funding for clean ports/clean tech. Port is interested in a project with schools to increase air filtration.
 - Port has partnered with CBOs on school filtration but want to do more.
- CEP-funded projects with some schools in west Oakland re air filtration. Reach out to Helena for more info on this grant program.



Evaluation

Monthly Post-Meeting Evaluation Survey

- You have time now to complete the survey
 - www.woeip.org/wocap-sc-survey
- We will also email the link after the meeting

Adjourn



RESERVED
PARKING
ONLY

RESERVED
PARKING
ONLY

New Business

(new standing agenda item)

- No content here this month
- This is a placeholder where every month
 - the Co-Leads can offer information about new items in response to a Steering Committee request
 - Co-Leads can solicit Steering Committee feedback on or assess interest in new items.
 - Be a space for SC to request future agenda items