

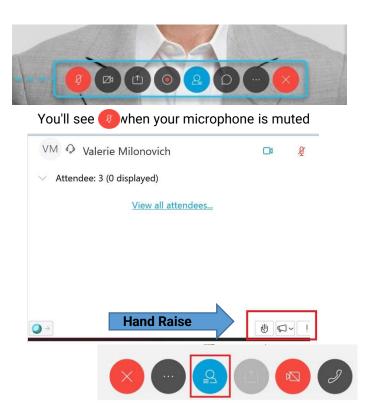
Climate Justice Working Group Draft DAC Criteria Update

July 27, 2021

Meeting Procedures

Before beginning, a few reminders to ensure a smooth discussion:

- Working Group Members should be on mute if not speaking.
 - If using phone for audio, please tap the phone mute button.
 - If using computer for audio, please click the mute button on the computer screen (1st visual).
- Video is encouraged for Working Group members, particularly when speaking.
- In the event of a question or comment, please use the hand raise function (2nd visual). Click the participant panel button (3rd visual) for the hand raise function. Rosa or Alanah will call on members individually, at which time please unmute.





Agenda

- Introductions
- DAC Criteria Timeline
- Considered Indicators
- Draft Scenarios
- Public Presentation & Comment Process
- Next Steps



Upcoming Meetings

- > Potential August 4 (10am-12pm) Prepare for voting meetings, CAC integration analysis, outstanding questions (e.g., methodology)
- > Aug 12 (2-4pm) Consensus-building on indicators; prioritize scoring revisions for Aug 26
- > Aug 26 (2-4pm) Consensus-building on scoring scenarios; preview documentation
- > Potential Sept 9/10 (time TBD) Final review before voting
- > Week of Sept 13 In-person voting from multiple locations (indicators + draft scenarios)



meeting discussion

Indicators for Draft Scenarios

With 45 indicators, adding or changing one doesn't shift scores much

Designation Threshold

(High-scoring tracts to designate as DACs – e.g., top third?)



https://www.clrp.cornell.edu/q-a/272-excavator_certification.html

Factor Importance

(Relative importance of exposures vs. climate, etc.)



https://compactequip.com/excavators

Indicators

(With ~45 indicators, changing one doesn't shift much)



Photo by Andres Siimon on Unsplash

Indicator Weights

(With highly-correlated indicators, weights don't shift results much)



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Questions on Considered Indicators Document?



Indicator Framework

Community Burdens and Potential Risks

Population Characteristics and Vulnerabilities

Potential Pollution Exposures Land use associated with historical discrimination or disinvestment

Potential Climate Change Risks

Sociodemographics Health Impacts & Burdens

Housing, Mobility, Communications

Generally place-based characteristics or conditions

Generally "people" characteristics



Community Burdens and Potential Risks: Indicators in Current Scenario

Potential Pollution Exposures	Land use associated with historical discrimination or disinvestment	Potential Climate Change Risks		
Vehicle traffic density	Historical redlining score	 Extreme heat projections (>90° days in 2050) Flooding in coastal and tidally influenced areas (projected) 		
Diesel truck and bus trafficParticulate Matter (PM2.5)	 Remediation Sites (e.g., NPL Superfund or State Superfund/Class II sites) Regulated Management Plan (chemical) sites 			
Benzene concentrationWastewater discharge	 Major oil storage facilities (incl. airports) Power generation facilities Active landfills Municipal waste combustors Scrap metal processors 	 Flooding in inland areas (projected) Low vegetative cover Agricultural land 		
		 Driving time to hospitals or urgent/critical care 		

- Industrial/manufacturing/mining land use (zoning)
- · Utility/waste land use (zoning)
- · Housing vacancy rate

STATE OF OPPORTUNITY

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Draft indicator list

Population Vulnerabilities: Indicators in Current Scenario

Sociodemographics

- Pct <80% Area Median Income
- Pct <100% of Federal Poverty Line
- Pct without Bachelor's Degree
- · Unemployment rate
- Pct Single-parent households
- Pct Latino/a or Hispanic
- Pct Black or African American
- Limited English Proficiency

Health Impacts & Burdens

- · Asthma ED visits
- COPD ED visits
- · Heart attack (MI) hospitalization
- Pct without Health Insurance
- · Pct with Disabilities
- Pct Adults age 65+

Housing, Mobility, Communications

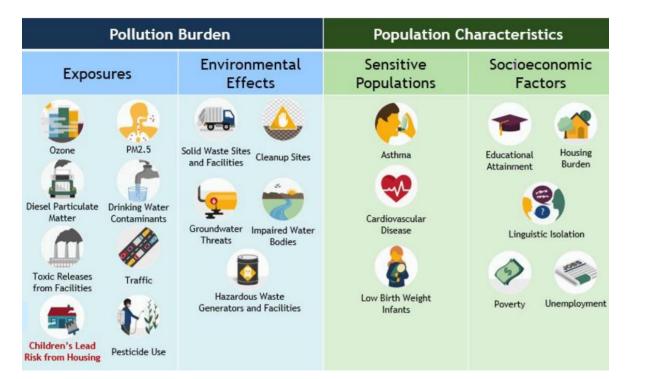
- Pct Renter-Occupied Homes
- Housing cost burden (rental costs)
- Energy Poverty / Cost Burden
- Manufactured homes
- Homes built before 1960*
- Percent without private vehicle
- Pct without Internet (home or cellular)

NOTE: Future data will include Low Birthweight births and Premature Deaths

*Proxy for lead-based paint risk. We may assess alternatives.

Draft indicator list

CalEnviroScreen 4.0 Indicators



- 21 indicators
- Not designed to cover climate change
- Does not include race/ethnicity for legal reasons

https://oehha.ca.gov/media/downloads/calenviroscreen/presentation/calenviroscreen40webinarslidesd12021.pdf

Data update – Still working on a few things

- > Small data updates and QA/QC (low birthweight coming soon!)
- > Adding back in the 138 tracts with very low population & scoring on Burdens alone
- > Adding 19 tracts where >5% of land is Tribal/Indigenous Reservation or owned by Indigenous Governments
- > Analytics around what's driving scores and what indicators aren't contributing much
- > Testing factor weights (e.g., relative importance of environment vs. climate or sociodemographics vs. housing)



Annual Update Process

Document what CJWG and staff team want to improve (future data collection or advanced analysis)

Additional data needs may emerge from public comment – Save time/budget to address

OPPORTUNIT

What will help you prepare to vote?



Draft DAC Definition Scenarios 28

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Recap of last meeting

Discussion

• Income (e.g., DACs with higher income)

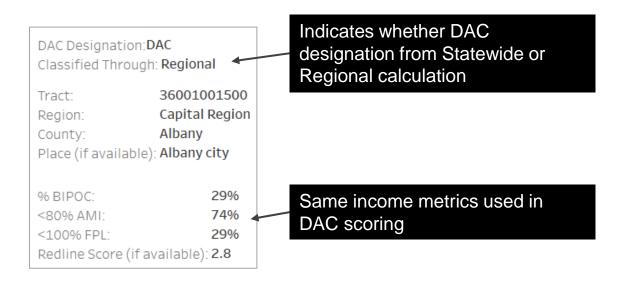
Changes we made

- Display whether designation came from Statewide, NYC or ROS score
- Show same income metrics as in score (<80% AMI; <100% FPL)

We did not make changes to scenario *yet* pending today's discussion



Tract Diagnostics





We learn from every comment

Example:

"This looks higher-income because it gentrified quickly, but it's close to a train station and highway interchange and has a large neighborhood of lowerincome and non-Englishspeaking households"

Example:

"I agree this shouldn't be a DAC because all of the buildings are renovated, there is a park and lots of transportation options"

INSTRUCTIONS

 Click on a tract in the map.
 Fill out form
 Click the "SUBMIT" button. Try clicking the button again if the website does not open.
 Close the website window and .

Name Ramona Ouimby

Tract Number

Should be a DAC? • Yes • No

Brief Explanation

SUBMIT

 Statewide Averages

 Burden Pctl
 40

 Vuln Pctl
 48

 Median Income
 \$74,317

 % BIPOC
 45%

 Redline Score
 3.0

 % PEJA
 47%



Selected Census Tract Details

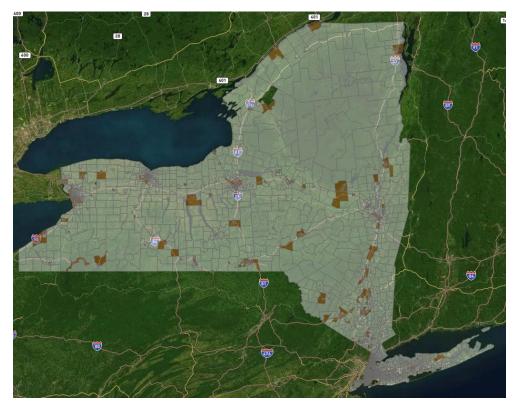
48	Tract	Is a DAC?	Burden Percentile	Vulnerability Percentile	Median Income	% BIPOC	Redline Score	% PEJA
4,317	36061022102	NON-DAC	73	54	\$96,154	79%	4.0	100%
	36061022800	DAC	72	69	\$70,650	85%	4.0	100%
4596	36061023000	DAC	73	79	\$36,124	9296	4.0	100%
	Grand Total		73	67	\$67,643	85%	4.0	100%



Environmental Conservation

Note: Draft maps exclude 138 census tracts (2.8%) with very low population because Vulnerabilities data is missing/unreliable; they will be scored separately on the basis of Burdens alone.

Zooming Out





Regional Distribution of DRAFT Scenario



change if/when scenario changes In this scenario, 35% of all tracts are DACs, ranging from 9% in LI to 47% in NYC

% Region Designated DAC

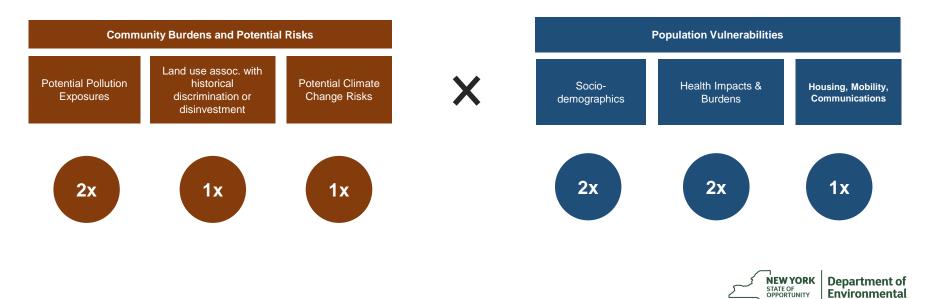
Region	
New York City	47%
Long Island	9%
Mid-Hudson	29%
Western NY	39%
Finger Lakes	27%
Capital Region	27%
Central NY	31%
Southern Tier	27%
Mohawk Valley	24%
North Country	18%
Grand Total	35%



This is a draft distribution that will

Potential lever: Factor Importance



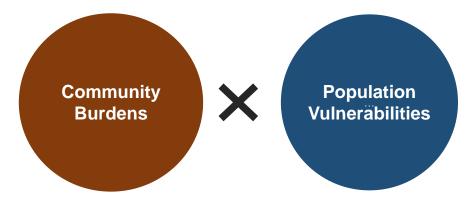


Note: Since Burdens and Vulnerabilities are multiplied, they have equal weight, regardless of how you weight things within them.

Conservation

Post-scoring criteria?

It's possible that some communities that score high on the combined index may be higher-income (or lower BIPOC)...



...Should we apply an additional criteria or filter after scoring? E.g., exclude high-income?

Additional Criteria?



What haven't we looked at together

- Climate-change-vulnerable areas?
- Long Island?
- Rural areas?



Go to Tableau

Note: Draft maps exclude 138 census tracts (2.8%) with very low population because Vulnerabilities data is missing/unreliable; they can be scored separately on the basis of Burdens alone.



What will help you prepare to vote?





Public Meetings and Comment Process

Public Process

Educational Session(s)

Pre-recorded training? Optional "live" session? Public Hearings

"Following the adoption of the draft criteria and disadvantaged communities list, CJWG will hold a minimum of six public hearings." Comment Period

"There will be a 120 day comment period following the release of the drafts"



Department of Environmental Conservation

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Public Hearings

These hearings will be held in locations across the state and available via WebEX.

- 3 Upstate
- 3 Downstate



Next Steps

NENERGY





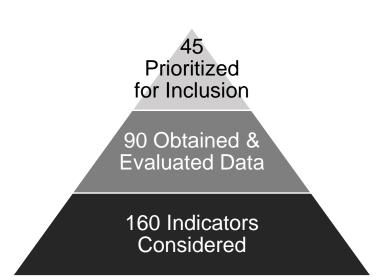
Details on Approach If Interested

Inclusion Considerations

Inclusion decisions consider:

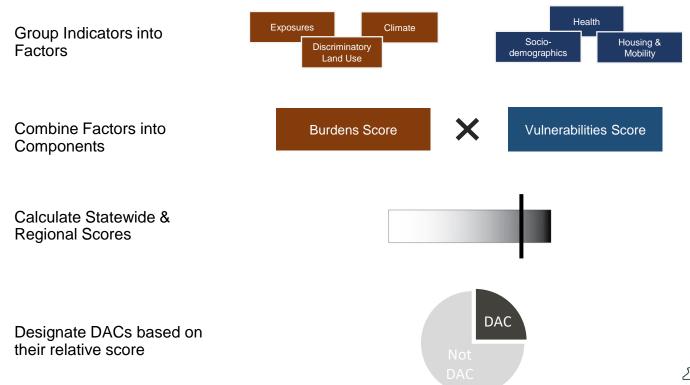
- Data coverage & granularity
- Data quality (e.g., measurement or sampling error)
- Modeled vs. directly-collected or measured data
- Correlations
- Technical guidance (e.g., DEC, DOH, DOS)

So far, we obtained & evaluated data for 90+ indicators (a) on their own, and (b) in combination



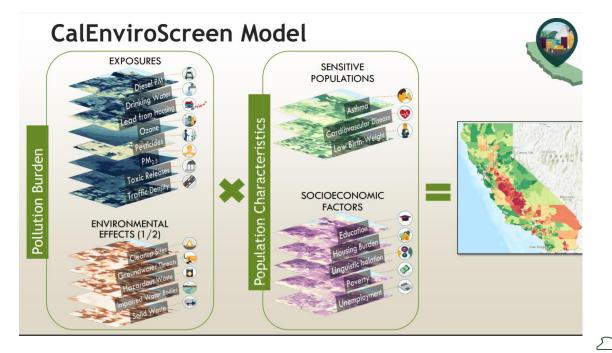


Review: Combining Data





Multiply to represent that Vulnerabilities serve as Effect Modifiers to Burdens



https://oehha.ca.gov/media/downloads/calenviroscreen/presentation/calenviroscreen40webinarslidesd12021.pdf

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Department of Environmental

Conservation

NEW YORK STATE OF OPPORTUNITY

Some decisions move things more than others

Designation Threshold

(High-scoring tracts to designate as DACs – e.g., top third?)



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Factor Importance (Relative importance of exposures vs. climate, etc.)



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(With ~40 indicators, changing one doesn't shift much)



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Indicator Weights

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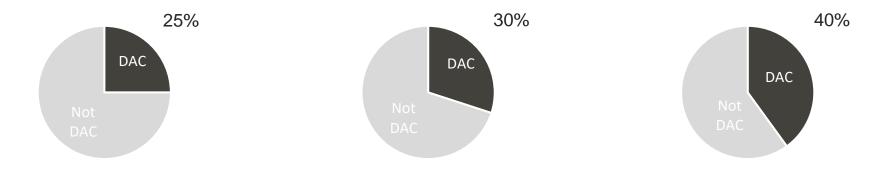


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Critical Question for CJWG: Share of DACs

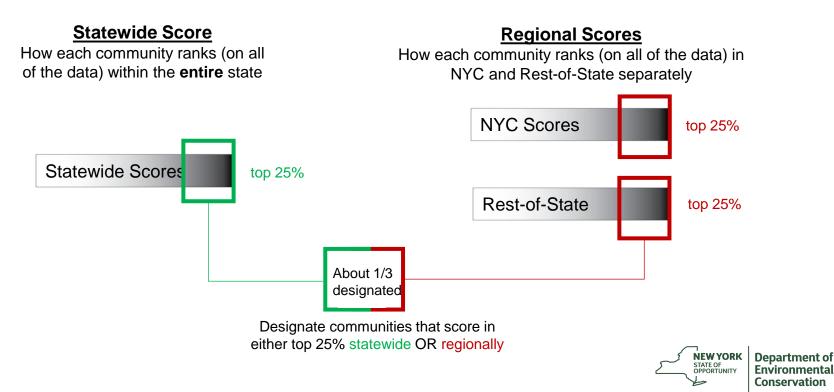
In general, what share of communities (census tracts) should be designated as DACs?



We've discussed the idea of "leave no DAC behind", but we need to operationalize this as the final % will be an arbitrary number.



DRAFT Designation Approach



Future: Include tribal/indigenous land & low-population areas with high burdens

Some decisions move things more than others

Designation Threshold (High-scoring tracts to designate as DACs – e.g., top third?)



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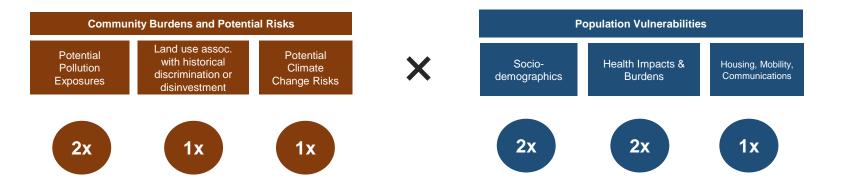


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Starting point for Factor Importance

Draft - Technical team is conducting sensitivity analysis

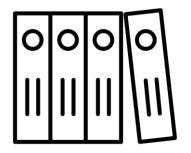




Department of Environmental Conservation

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Indicator Limitations



Documentation (for public comment) will discuss:

- Indicators/data we **considered** but did not pursue, and why
- Data limitations, including Census (e.g., not specific enough to race/ethnicity), public health data (e.g., limited data @ sub-county level), and more
- Recommendations for future/additional community-level data (e.g., migration)
- Potential for periodic indicator review/updates



Legislation allows for continuous improvement

We are cataloging recommendations for data to gather, if possible, and consider in the future.



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