SEPTEMBER 30, 2019

WASHINGTON ENVIRONMENTAL HEALTH DISPARITIES MAP

PARTNERS

ENVIRONMENTAL & OCCUPATIONAL HEALTH SCIENCES

UNIVERSITY of WASHINGTON | SCHOOL OF PUBLIC HEALTH

FRONT AND CENTERED



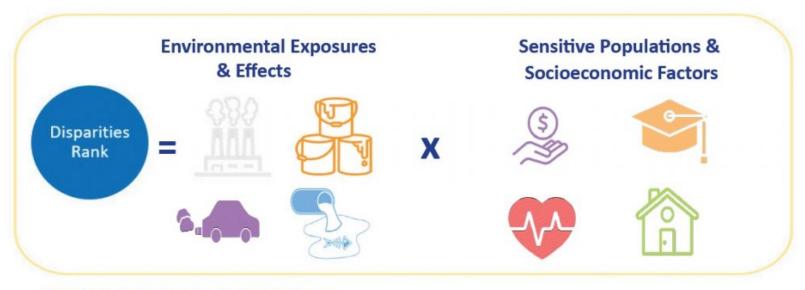
pscleanair.org Puget Sound Clean Air Agency







FRAMEWORK



*Icons shown do not represent all 19 indicators on the map.

LISTENING SESSIONS

- × Involved Front & Centered Partner Organizations
- Multi-cultural/lingual conversations about pollution, climate change, sensitivity, and resilience.

What kinds of pollution, if any, are impacting your life or work and that of your family and community?

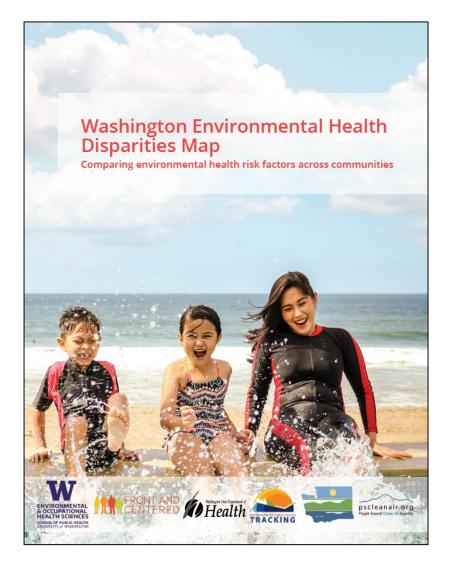
What factors best show if your community is healthy or doing well compared to other communities?

Organization	Date	Location	Participant Information	Participant Count	Language	Issues
OneAmerica	7/31/2017	Vancouver	Latinx from Fruit Valley and surround- ing neighbor- hoods	20	Spanish/ English	Pollution, Climate, Puget Sound
Chaplains on the Harbor	8/15/2017 8/20/2017	Westport & Aberdeen Homeless, Incarcerated, Native, Latinx, from Grays Harbor County		9	English	Pollution, Climate, Puget Sound
Community to Community	8/17/2017	Bellingham	Farm Work- ers, Latinix, Youth from Whatcom and Skagit County.	15	Spanish	Pollution, Climate, Puget Sound
Latino Commu- nity Fund	8/18/2017	Ellensburg	Latinx youth, from central Washington	29	Spanish/ English	Pollution, Climate, Puget Sound
Entre Her- manos	8/23/2017	Seattle	Latinx from Seattle metropolitan area	12	Spanish	Pollution, Climate, Puget Sound
Na'ah Illahee Fund	8/25/2017 9/7/2017	Port Angeles & Yakima	Native, from Peninsula, central and eastern Wash- ington	7	Various/ English	Pollution, Climate, Puget Sound
Mother Africa	8/25/2017	Kent	North African / Arab from south King County	12	Arabic/ English	Pollution, Climate
NAACP Sno- homish	9/9/2017	Everett	African Amer- ican, various from Snohom- ish County	10	English	Pollution, Climate
Asian Pacific Cultural Center	11/13/2017	Pierce Coun- ty	Asian Pacifica Islanders from Pierce County	44	Korean/ English	Pollution, Climate, Puget Sound

SYMPOISUM



THE REPORT



Contact Information

Access the mapping tool https://fortress.wa.gov/doh/wtn/WTNIBL

UW project website deohs.washington.edu/washington-state-envmap

Email envmap@uw.edu



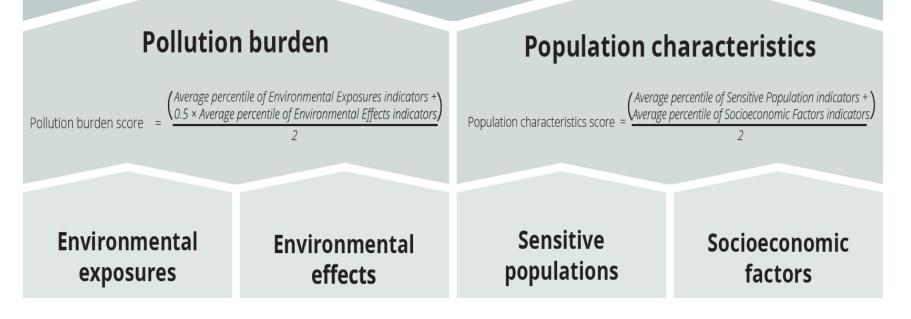
WASHINGTON EH DISPARITIES MAP -THE INDICATORS

Environmental exposures	Environmental effects	Sensitive populations	Socioeconomic factors
Diesel emissions	Lead risk and exposure	Cardiovascular disease	Low educational attainment
Ozone	Proximity to hazardous	Low birth weight	
	waste generators and	-	Housing burden and
Particulate matter 2.5 (PM2.5)	facilities		transportation expense
	Proximity to Superfund		Linguistic isolation
Toxic releases from	sites		
facilities			Poverty
	Proximity to facilities		_ /
Traffic density	with highly toxic substances		Race (people of color)
			Unemployment
	Wastewater discharge		

WASHINGTON EH DISPARITIES MAP

Final composite score

Final composite score = Pollution Burden score × Population Characteristics score





RANKING

Least imp	acted							Most	impacted
1	2	3	4	5	6	7	8	9	10
10% of communities	10% of communities	10% of communities	10% of communities	10% of communities	10% of communities	10% of communities	10% of communities	10% of communities	10% of communities
			of commu less impac				are similarly impacted	20% of cor are more	nmunities impacted



THETOOL

FIND IT AT: <u>HTTPS://FORTRESS.WA.GOV/DOH/WTN/WTNIBL/</u>



WASHINGTON TRACKING NETWORK

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Washington State Department of Health				Home Newsroo	om Publications About
91101111			Topics A-Z	Español Google Custo	m Search
You and Your Family	Community and Environment	Licenses, Permits and Certificates	Data and Statistical Reports	Emergencies	For Public Health and Healthcare Providers
Data and Statistical Reports > En	vironmental Health > V	Vashington Tracking Network (WT	<u>[N)</u>		
Washington Tracking Network (WTN)	×	ngton Tracking			
Air Quality					
Asthma		WTN Data rt, chart and map data for e	environmental and public h	ealth measures. Search	data now
Biomonitoring	,	· · , - · · · · · · · · · · · · · · · ·			
Birth Outcomes					
Body Mass Index	Informa	tion by Location (IBI			1
Cancer		ommunity rankings for topics		s (differences) and lead e	exposure
Carbon Monoxide	risk. view	Information by Location too	DI NOW.		
Climate Change					
Community Characteristics		ashboards			
Drinking Water		I data in a new way. Like ou ou can see these features ir		<u>hooards</u> have maps, char	ts and
Heart Attack					î <u>⊱</u>
Heat Stress		<u>n The Go</u>	now tool for an immediate	booth topics, such as a	
Information by Location		phone or tablet to view our i maps to see data for vour o		i nealin topics, such as ra	

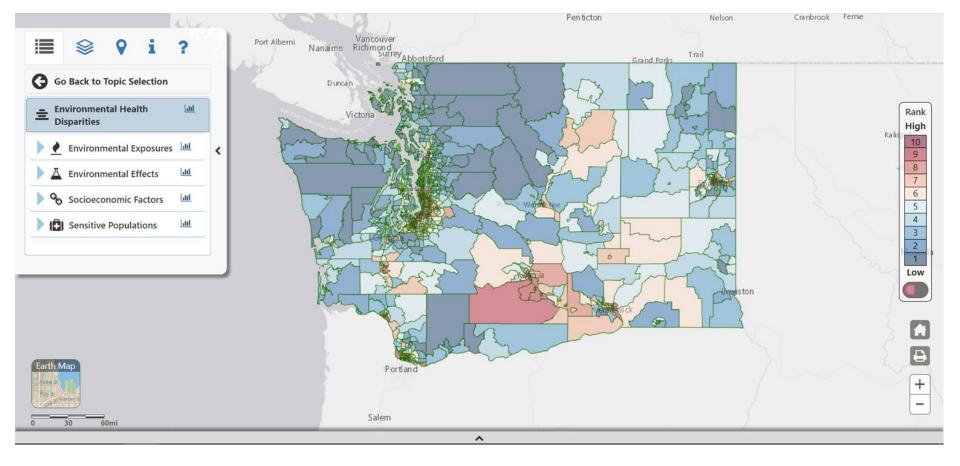




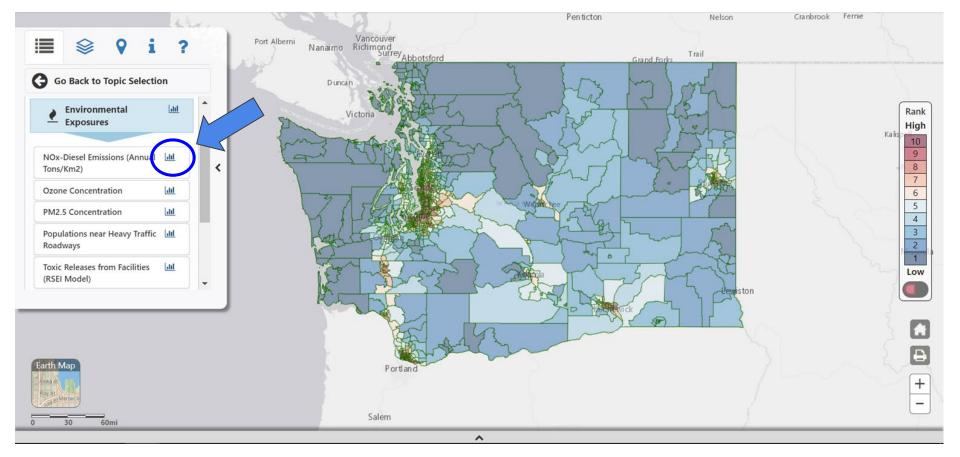














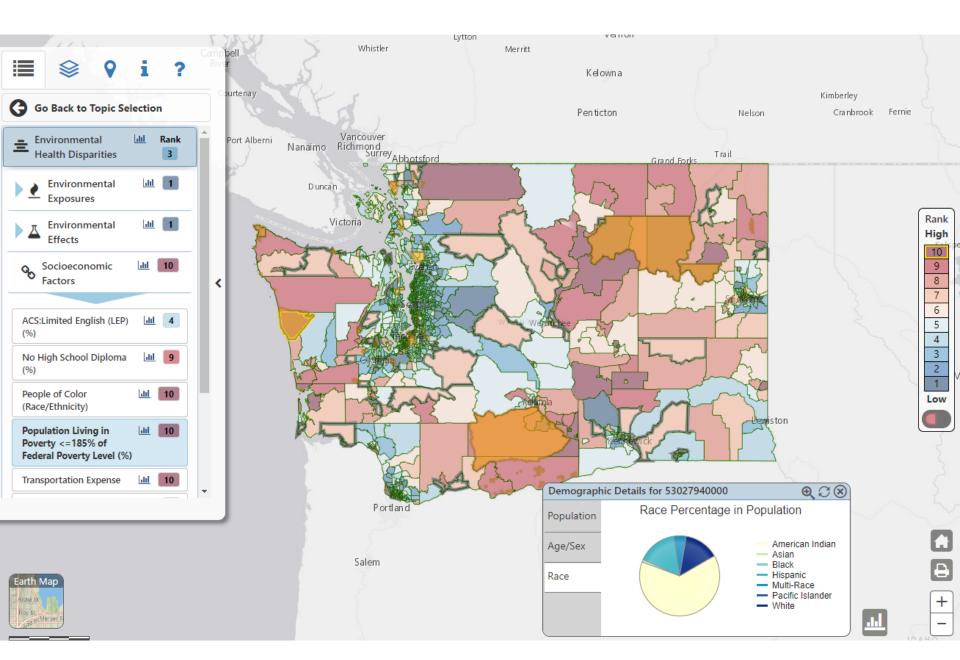
Selection Criteria		Notes Table Chart Map			
View two measures together 🗌 💡					
Measure 1	<	Diesel Emission Levels of	f NOx (A		
Keyword Search	Sel	Information and Resources About	Air Quality		
Search measures	Selection	[
Section	on C	Derivation	Selection Criteria	Notes Table Chart Map	
Environment	Criteria	The basis of the diesel NOx data is Wash AIRPACT-5 modeling domain, which use	View two measures together 🔲 🔽		
Topics	20	sources (e.g. non-point and mobile) wer			
Air Quality 🔹	Filters	emissions to individual grid-cells, based	Measure 1	Diesel Emission Leve	els of NOx (Annua
Sub Topic	SLE	weighted spatial interpolation.	Keyword Search	Geography: Census Tract, Yea	r: 2014
Diesel Emissions 🗸	<	The census tracts and boundaries used i (water-only tracts) and that the boundar	Keyword Search See Search measures ection		
Measure		(shipping channels, ferry routes, and por			
NOx-Diesel Emissions (Annual Tons/K 🔻]	containing all tracts by clicking the char boundaries used in this analysis come fr	Environment	County Name	Census Tract
Filters		bin/geo/shapefiles/index.php?year=201		n/a	State Total
			Topics ♀ Tit		
Geography Census Tract		The 2014 Comprehensive El data will be	Sub Topic	Adams	53001950100
	J		Diesel Emissions 🔹	Adams	53001950200
		https://ecology.wa.gov/Air-Climate,	Measure	Adams	53001950300
			NOx-Diesel Emissions (Annual Tons/K 🔻	Adams	53001950400
Submit		The US EPA Spatial Surrogate Workbook	Filters	Adams	53001950500
		ftp://ftp.epa.gov/EmisInventory/surroga	Geography	Asotin	53003960100

Census Tract

▼

Geography: Census Tract	, Year: 2014
County Name	Census Tract
n/a	State Total
Adams	53001950100
Adams	53001950200
Adams	53001950300
Adams	53001950400
Adams	53001950500
Asotin	53003960100
Asotin	53003960200
Asotin	53003960300
Asotin	53003960400
Asotin	53003960500
Asotin	53003960600
Benton	53005010100
Benton	53005010201





CONTACT US: ENVMAP@UW.EDU DOH.WTN@DOH.WA.GOV COORDINATORS@FRONTANDCENTERED.ORG ACCESS THE MAPPING TOOL: <u>HTTPS://FORTRESS.WA.GOV/DOH/WTN/WTNIBL/</u> UW PROJECT WEBSITE: <u>DEOHS.WASHINGTON.EDU/WASHINGTON-STATE-ENVMAP</u> FRONT AND CENTERED PROJECT WEBSITE: <u>FRONTANDCENTERED.ORG/EJ-MAP/</u>

