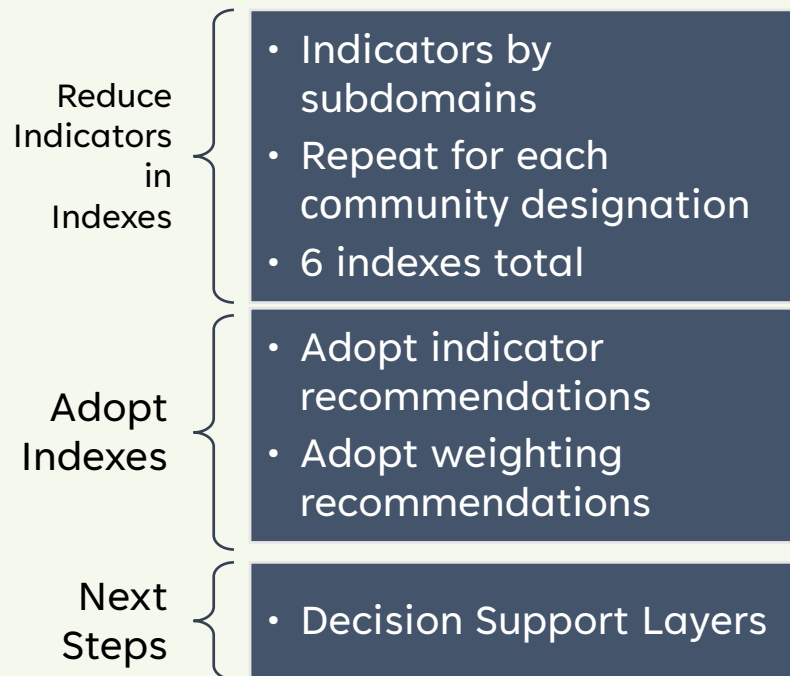


OREGON EJ MAPPING TOOL UPDATES

June 10, 2026



ENVIRONMENTAL JUSTICE MAPPING TOOL INDEXES OVERVIEW



June 10, 2026

Indicator Considerations

- EJC adopted [indicator criteria](#)
- Indicator references in [HB 4077](#)
- [Statistical relationship with life expectancy](#)
- Correlation with other indicators
- Variation in indicator scores
- Contribution to the sub-index
- Community input
- Subject matter expert input
- Opportunities to improve conditions

LIFE EXPECTANCY AT BIRTH RESOURCES

The following resources provide additional context about why life expectancy at birth correlation is being used for indicator recommendations.

Life Expectancy at Birth Mapping

[Life Expectancy: Could where you live influence how long you live?](#)

Life Expectancy at Birth Quote: Robert Wood Johnson

When we talk about the opportunity to live a long life, there are a lot of factors at play: we call these **social determinants of health**. In short, these are conditions relating to where people live and work, such as economic status; access to education, employment, and housing; quality healthcare; and food insecurity, among many others. Health starts at home, at school, and at work—sometimes long before any illness appears.

One in five Americans live in neighborhoods with high rates of crime, pollution, inadequate housing, lack of jobs, and limited access to nutritious food. Here are a few ways in which social determinants of health affect these communities:

SUBDOMAINS

The subdomains adopted for the EJMT reflect the definition of “Environmental Justice Communities” in HB4077 and is consistent with other state EJ mapping tools.

Environmental Exposures

Environmental Hazards

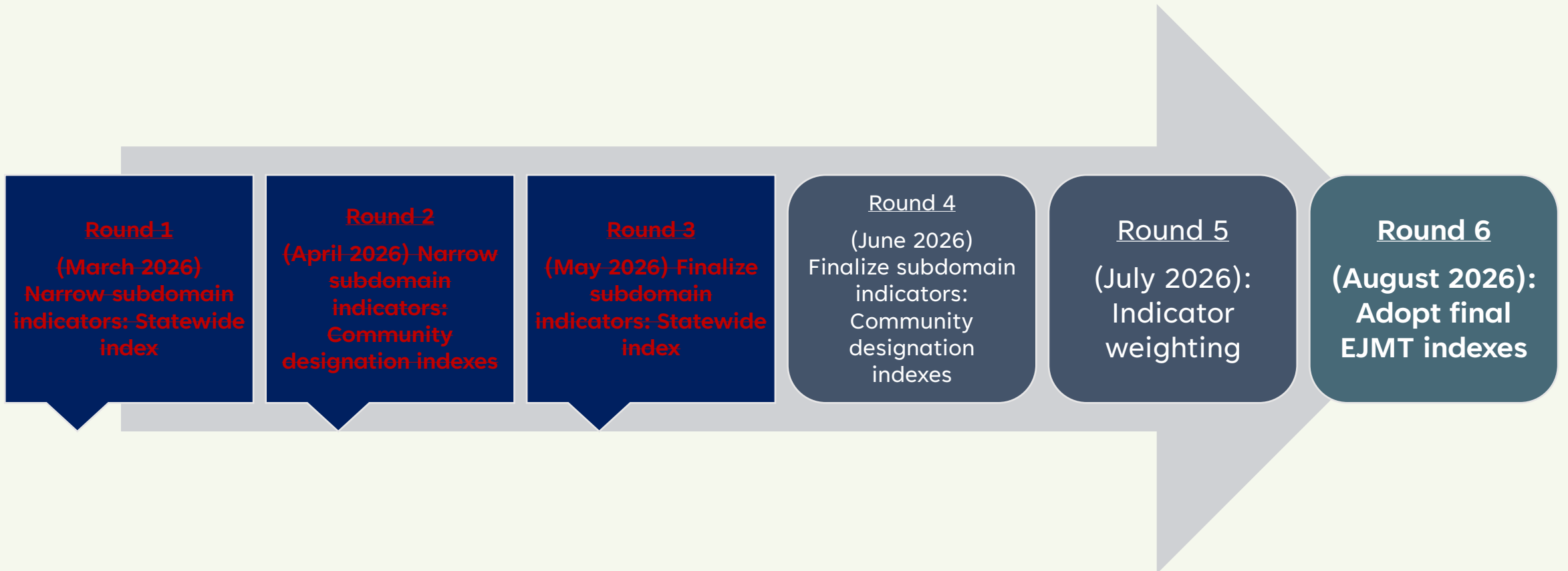
Climate Change Risk

Built Environment

Human Health

Demographic & Social Factors

EJMT NEXT STEPS



ENVIRONMENTAL EXPOSURES SUBDOMAIN BY INDEXES

Dropped Indicators

None

Indicator	All Designations
Air Quality Index (AQI) Unhealthy Days	✓
Cancer Risk for Diesel Particulate Matter (PM)	✓
Drinking Water Contaminants Index	✓
Transportation Noise Pollution	✓
Lead Exposure Index	✓
Cancer Risk minus Diesel PM	✓
Permitted Air Pollution Sites	✓
TOTALS BY SUBDOMAIN	7

ENVIRONMENTAL HAZARDS SUBDOMAIN BY INDEXES

Dropped Indicator

Residential Buildings in
Wildfire Burn Areas
(small city only)

Indicator	Small City	All Other Designations
Earthquake Risk	✓	✓
Groundwater Threats	✓	✓
Hazardous Material Storage	✓	✓
Hazardous Waste Facilities	✓	✓
Impaired Water Bodies	✓	✓
Residential Buildings in Wildfire Burn Areas	—	✓
Wastewater Discharge	✓	✓
TOTALS BY SUBDOMAIN	6	7

DROPPED INDICATOR RATIONALE – ENVIRONMENTAL HAZARDS

Residential
Buildings
in Wildfire
Burn Areas

- There are no residential buildings in wildfire burn areas in small city tracts between 2020-2024.

CLIMATE CHANGE RISKS SUBDOMAIN BY INDEXES

Coastal Only Indicators

Crab and Shellfish
Harvest Closures

Extreme Wind Events

Indicator	Coastal	All Other Designations
Crab and Shellfish Harvest Closures	✓	—
Days Below 32°F	✓	✓
Days with Max Temp $\geq$ 90th Percentile	✓	✓
Drought	✓	✓
Extreme Wind Events	✓	—
Fire Weather Index Events	—	✓
Flood Risk	✓	✓
Heat Index Days > 90°F	—	✓
Wildfire Risk	✓	✓
TOTALS BY SUBDOMAIN	7	7

COASTAL INDICATOR RECOMMENDATION RATIONALE – CLIMATE CHANGE RISKS

Crab & Shellfish Harvest Closures

Ocean hypoxia, or dangerously low oxygen levels, severely impacts the Pacific Northwest's valuable Dungeness crab fishery. Occurring primarily during late summer and early fall, these localized "dead zones" cause massive die-offs in crab pots, forcing commercial fishermen to adapt their operations.

Ocean acidification harms shellfish by increasing seawater acidity and depleting carbonate ions, which marine species like oysters, clams, and crabs need to build their shells. In the Pacific Northwest, upwelling brings corrosive waters to the surface, severely threatening regional hatcheries and wild populations and prompting closures.

Extreme Wind Events

Extreme winds in coastal communities frequently cause severe uprooting trees and stripping canopies. This sudden damage impacts local infrastructure, destabilizes soils, and fundamentally alters the coastal ecosystem, creating both immediate hazards and long-term ecological shifts.

DROPPED COASTAL INDICATOR RATIONALE – CLIMATE CHANGE RISKS

Dropped indicators for any of the subdomains may be considered as a Decision Support layer not tied to any of the indexes.

Fire Weather Index Events

- Fire weather index events are important contributors to wildfire risk. However, extreme wind events are more frequent in coastal communities than inland areas contributing to hazardous conditions from “blowdowns” and “windthrows” and severe damage to infrastructure including homes.

Heat Index Days > 90°F

- Heat index days above 90°F is not an appropriate measure of extreme heat in coastal communities because heat related illnesses can increase at lower temperatures due to delayed acclimatization. Fluctuating weather patterns (such as marine cloud cover breaking during inland heatwaves) leave populations completely unprotected, triggering a high risk for heat-related illness because the body is not physiologically or behaviorally prepared

BUILT ENVIRONMENT SUBDOMAIN BY INDEXES

Dropped Indicators

Preservation of
Affordable Housing

Indicator	All Designations
Access to Healthcare (Distance to Healthcare)	✓
Community Design Index	✓
Digital Equity / No Internet Access	✓
Food Insecurity	✓
Park Access	✓
Traffic Injuries & Fatalities	✓
Urban Tree Canopy	✓
TOTALS BY SUBDOMAIN	7

Community Design Index combines walkability index, impervious surfaces, and population density.

HUMAN HEALTH SUBDOMAIN BY INDEXES

Dropped Indicators

None

Indicator	All Designations
*Cancer Mortality	✓
Diabetes Prevalence	✓
Diseases of the Circulatory System	✓
Diseases of the Respiratory System	✓
Frequent Mental Distress	✓
Populations with a Disability	✓
Preterm Births	✓
TOTALS BY SUBDOMAIN	7

*Cancer Mortality replaces Adult Cancers Minus Skin Cancer because it is more comprehensive and captures inequities in access to advanced cancer treatments.

DEMOGRAPHIC & SOCIAL FACTORS SUBDOMAIN BY INDEXES

Large/Small City Indicators

Inheritance Proxy

Coastal/Rural/Remote

Indicators

Employment Hardships

Indicator	Large City/ Small City	Coastal/Rural/ Remote
65+ Living Alone (Social Isolation)	✓	✓
Adults Without a College Degree	✓	✓
Below 150% of the Federal Poverty Level	✓	✓
Employment Hardships	—	✓
Inheritance Proxy (Generational Wealth)	✓	—
Limited English Proficiency	✓	✓
Population Under 5 Years Old	✓	✓
Uninsured Population	✓	✓
TOTALS BY SUBDOMAIN	7	7

INDICATOR RECOMMENDATION RATIONALE – DEMOGRAPHIC & SOCIAL FACTORS

Inheritance Proxy (Ability to Accumulate Generational Wealth)

- Generational wealth and environmental justice are deeply intertwined, as historical disinvestment and systemic racism have left marginalized communities with high pollution burdens, fewer health resources, and diminished ability to build transferable assets.
- Green gentrification with limited opportunities to transfer wealth creates an “environmental paradox” where communities finally gain environmental improvements, only to be forced out by the resulting higher cost of living.

Employment Hardships (High Unemployment & Long Commutes)

- High unemployment and declining industries often trap rural, remote and coastal communities in a cycle of environmental and economic degradation. Lack of economic diversity limits residents' residential options, making low-income areas prime targets for landfills, concentrated animal feeding operations (CAFOs), and toxic waste sites.
- Long commutes in rural and remote communities represent a hidden environmental justice concern. Extended commutes force residents to spend large portions of their income on gas and vehicle maintenance simply to access jobs and essential services due to a severe lack of public transit.

EJ MAPPING TOOL CLIMATE CHANGE RISKS SUBDOMAIN INDICATORS ADOPTION

10 EJC MEMBERS
PRESENT



Motion to Adopt Demographic & Social Factors subdomain recommendations for Coastal, Remote, Rural, Small City and Large City as recommended by staff made by Mike Oxendine



Motion seconded by J'reyesha Brannon



Debate

None



Motion to Close Debate skipped



Aye Vote: rajagopal, Brannon, Herencia, MacFarland, Molina, Soh, Murray, Oxendine, Sanchez, Vincent

EJ MAPPING TOOL DEMOGRAPHIC & SOCIAL FACTORS SUBDOMAIN INDICATORS ADOPTION

10 EJC MEMBERS
PRESENT



Motion to Adopt Demographic & Social Factors subdomain recommendations for Coastal, Remote, Rural, Small City and Large City as recommended by staff made by aparna rajagopal



Motion seconded by Mike Oxendine



Debate

None



Motion to Close Debate skipped



Aye Vote: rajagopal, Brannon, Herencia, MacFarland, Molina, Murray, Oxendine, Sanchez, Vincent

Abstention: Soh

EJMT ENGAGEMENT

Here is a list of EJ Mapping Tool events and meetings since 5/6/2026 with upcoming events included.

5/15/2026

Oregon Climate Action
Commission Presentation
(Public Meeting)

5/29/2026

Coalition of Communities
of Color Energy Convening
(Attendees: CCC Members
only)

6/9/2026

Indoor Air Quality Briefing
(Attendees: State Agency
Staff Only)

7/13/2026

Energy Trust of Oregon
Presentation
(Attendees: Energy Trust
Staff Only)

RESOURCES

[EJ Mapping Tool project page](#)

[Adopted Decision Points](#)

[Indicator Selection Criteria](#)

[EJMT Indicator Subdomain Comparisons as of 4/8/2026](#)

[Adopted EJMT Indicators](#)

[Adopted EJMT Community Designation Map](#)



THANK YOU

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