



State of Oregon Environmental Justice Data Inventory Staff Report

February 28, 2025

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Purpose and Timeline

In spring 2023, Enterprise Information Services (EIS) initiated monthly meetings with natural resource agencies to create a comprehensive inventory of existing datasets that may be relevant to the Environmental Justice Mapping Tool outlined in House Bill 4077 (HB 4077).

EIS formed a Data Inventory Workgroup with representatives from natural resource agencies identified in HB 4077. The Data Inventory Workgroup collaborated with the Environmental Justice Liaisons lead by the Oregon Department of Environmental Quality in 2023 to request all natural resource agencies listed in HB4077 submit an inventory of data elements their agency create, use, or rely on for environmental justice purposes.

The initial request included links to HB 4077, project information, frequently asked questions, and an excel template for agencies to use for their initial inventory focusing on data that agencies currently use or rely on for environmental justice. Upon completion, individual inventories were compiled into a statewide environmental justice inventory. The milestones and timeline required to develop the statewide data inventory are outlined in Table 1.

Table 1. Environmental Justice Data Inventory Workgroup Milestones and Timeline

Timeline	Inventory Workgroup Tasks
Apr 2023	Form Data Inventory Workgroup
Apr – Jul 2023	Develop template
Aug 2023	Meet with EJC Liaisons to coordinate EJ inventory request to agencies
Sept 2023	Agencies submittals of initial inventory
Oct 2023	Compile draft comprehensive statewide inventory
Sept 2024	Cross-Reference Water Data Portal and Open Data Portal Inventories
Oct 2024	Agencies review and update inventory
Oct – Nov 2024	Add Data Value, Data Readiness, and Overall Priority fields
Nov – Dec 2024	Agency meetings with Open Data Coordinators
Jan 2025	Agency final review of statewide data inventory
Feb 2025	Submit EJ Data Inventory to EJC

Participating Agencies

All natural resource agencies listed in HB 4077 have submitted data for the statewide environmental justice inventory. Additional agencies such as Oregon Department of Human Services, Oregon Housing and Community Services, Occupational Safety and Health Administration, Business Oregon, and Oregon Department of Employment were also encouraged to participate. All agencies and organizations that submitted an environmental justice inventory have been listed below:

1. Occupational Safety and Health Administration
2. Oregon Business Development Department
3. Oregon Department of Agriculture
4. Oregon Department of Energy
5. Oregon Department of Environmental Quality

6. Oregon Department of Forestry
7. Oregon Department of Fish and Wildlife
8. Oregon Department of Geology and Mineral Industries
9. Oregon Department of Land and Conservation Development
10. Oregon Department of State Lands
11. Oregon Department of Transportation
12. Oregon Health Authority
13. Oregon Housing and Community Services
14. Oregon Parks and Recreation Department
15. Oregon Public Utilities Commission
16. Oregon State Fire Marshal
17. Oregon State Marine Board
18. Oregon Water Enhancement Board
19. Oregon Water Resources Department
20. Portland State University – Population Research Center

Statewide Environmental Justice Inventory

The environmental justice inventory is available in two versions: a simplified version and an extended version.

Simplified Version- The simplified version is intended to be an easy-to-read list providing a high-level overview of existing data potentially relevant to Oregon’s Environmental Justice Mapping Tool outlined in HB 4077.

Extended Version- The extended version includes the same list of data with additional attributes such as data extent, value, update schedule, lifecycle information, and flags any restricted data.

All fields listed in both the simplified and extended version are defined in Table 2.

Table 2. Fields and definitions used in Oregon’s Environmental Justice Data Inventory

Fields	Description
Simplified Version	
Index	Identification field assigned as inventories were submitted. Index is created by Agency ID and number of items submitted (example format AGENCY-001).
Subdomain	Sub Domains as adopted by the Environmental Justice Council in 2024; built environment, climate change risks, environmental exposures, environmental hazards, demographic and social factors, and human health disparities.
Category	General categorization of data for sorting purposes. Categories include air, land, utilities, water and other.
Data Name	Name of data as referenced by agencies.
Description	Generalized description of dataset intended to provide a brief overview.
Purpose or Intent	Narrative provided by agencies to help communicate the potential use of dataset in respect to environmental justice.
Extended Version	
Data Extent	Extent or limit of data coverage (statewide vs. regional)

Fields	Description
Data Value	Data value is the relative value or impact of publishing this data as an open dataset.
Data Readiness	Data readiness refers to the current quality and completeness of the data to be published.
Overall Priority	The overall priority reflects the agencies priority based on data value and data readiness.
Last Updated	Year which dataset was last updated.
Expected Update Frequency	Expected updated frequency is intended to help understand the current update schedule for data.
Data Completeness	Data completeness defines where data is in its lifecycle (in progress, complete, final and mature, or unknown)
Public or Restricted	Identifies is data is currently publicly available and flags any data that may be regulated or contain personally identifiable information.
Metadata	Identifies level of current documentation for dataset (none, some documentation, complete metadata, unknown)

Extended Version Reference Guide

Additional fields in the extended version have been color-coded to differentiate data that could be considered ready-to-use from data that is likely to require more research, quality control or data updates before being considered ready-to-use for a statewide environmental justice mapping tool. Table 3 describes how attributes were formatted to help provide general context to the reader.

Table 3. Extended Version Color Code Reference Guide

	Ready for EJ tool development.	Requires further analysis/discussion prior to use.	Not recommended at this time.	Unknown or N/A
Statewide vs. Regional	Statewide	Regional	--	Unknown
Data Value	High	Medium	Low	Unknown, N/A
Data Readiness	High	Medium	Low	Unknown, N/A
Overall Priority	High	Medium	Low	Unknown, No Priority
Last Updated	2020-Current	2010-2019	Prior to 2010	Unknown, No Priority
Update Frequency	Continuous, Annually, Biannually, 2-3 Years	3-5 Years, Ad Hoc/As Needed	--	Unknown
Completeness	Complete, Final and Mature	In Progress, Beta Version	--	Unknown
Public or Restricted	Public	Restricted	--	Unknown

	Ready for EJ tool development.	Requires further analysis/discussion prior to use.	Not recommended at this time.	Unknown or N/A
Metadata and Documentation	Complete Metadata	Some Documentation	None	Unknown

Existing Data Gaps

Throughout the inventory process, agencies acknowledged data gaps and limitations. Identified data gaps are listed in Table 4.

Table 4. Existing Data Gaps

Sub Domain	Data Name	Description
Built Environment	Address Points	Address point locations for residential and commercial locations. Statewide database is in progress and expected in 2025.
Built Environment	Agricultural Housing	Oregon Department of Agriculture does not maintain data related to agricultural housing. Oregon Department of Agriculture does not oversee or have authority over agricultural housing.
Built Environment	Broadband	GIS Point data related to state network backbone, Link Oregon data, and Oregon Broadband Advisory Council data. Oregon broadband map is available online; however, data is not available due to very restrictive license agreement or is not currently ready for distribution.
Built Environment	Transit Connectivity and Performance	Public transit connectivity and reliability.
Built Environment	Transit Gaps	Identified gaps in public transportation.
Built Environment	Walkability	Statewide accessibility/walk ability index/measure.
Environmental Exposures	Drinking water contaminant index	This drinking water contaminant indicator is a tool that compares census tracts across Oregon based on the areas' reported drinking water contaminant concentration data. This analysis considers information on whether multiple contaminants are present, the measured level of contaminants in water, and whether the water system has received violations in the past.
Environmental Exposures	Pesticide Exposure	Estimation of pesticide exposure.
Environmental Exposures	Pesticide Exposures	Oregon Department of Agriculture does not maintain data on or confirm human pesticide exposures reported. Oregon Health Authorities Pesticide Exposure, Safety and Tracking Program tracks and investigates health effects by individuals reporting pesticide exposures.
Environmental Exposures	Pesticide Usage	Oregon Department of Agriculture does not collect or maintain pesticide usage data. Pesticide products are publicly available and used by both licensed pesticide applicators and the public.

Next Steps

Develop Data Submission Workflow

The Data Inventory Workgroup will collaborate with the Methodology Workgroup throughout March 2025 to develop and define a standardized workflow for the submission of data indicators by agencies. This workflow will outline key submission details, including:

- Acceptable file formats
- Required data schemas and attributes
- Metadata and documentation requirements
- Update recommendations
- Other relevant submission guidelines

The work of the Data Inventory Workgroup is expected to conclude with the finalization of this standardized workflow. Following this, EIS will continue to support agencies with the submission process, as well as with metadata and documentation requirements.