

Appendix J: Data Processing Tools Inventory

Oregon Water Data Portal Phase 2

The below list was collected for the 2023 Stage 1 Final Report and has not been updated. The list is an initial assessment by the OWDP team of data processing tools currently used or that could be potentially utilized in Oregon for water data.

Name	Type	Description	Owner(s)	Geography	Contact	Access
Drinking Water Mapping Application to Protect Source Waters (DWMAPS)	Maps	Locate drinking water providers, potential sources of contamination, assessed waterways, projects, and source water collaboratives.	U.S. EPA	United States		Link
Water Quality Portal	Data	Download water quality data from the Water Quality Exchange (EPA), NWIS Web Database (USDA), and STEWARDS (Sustaining The Earth's Watersheds - Agricultural Research Database System) (USDA ARS)	U.S. EPA	United States		Link
Geoconnex.us	Registry, Maps, API	Index registry of data sources with searchable linked data.	IoW, Duke	United States	Kyle Onda	Link
Pesticide Stewardship Partnership Data Viewer	Maps, Charts	The tool provides access to current and historic pesticide water quality data that DEQ and the Oregon Department of Agriculture use to inform the management of the program, which monitors for more than 130 chemicals in Oregon surface waters.	DEQ	Oregon		Link
Ambient Water Quality Monitoring System (AWQMS)	Data, Charts	DEQ data and data provided from partner groups, such as watershed councils, is available to view, query, chart, graph, and download	DEQ	Oregon		Link
Drinking Water Protection Interactive Map Viewer	Maps	Identify land uses and potential sources of pollutants identified on regulatory databases within public drinking water source areas (DWSAs)	DEQ	Oregon		Link

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Oregon Drinking Water Advisories	Maps	Map displays active system-wide drinking water advisories in Oregon, as well as partial advisories that affect a significant portion of the population served.	OHA	Oregon		Link
Oregon Public Water Systems	Maps	Map displays active public water systems in Oregon. Points represent approximate center of service area	OHA	Oregon		Link
Oregon Water Resources Department Near Real Time Hydrographics Data	Data, Charts	View near real-time and historical stage, discharge, and lake level data.	OWRD	Oregon		Link
Oregon Water Resources Department Historical Streamflow and Lake Level Data	Data	Locate surface-water measuring sites around the state, download data, and view statistics.	OWRD	Oregon		Link
Oregon Water Resources Department Water Availability Reporting System	Data	Water availability calculated at the pour points (i.e., mouths) of all WABs (Water Availability Basins) within each of the eighteen OWRD administrative basins.	OWRD	Oregon		Link
Oregon Water Resources Department Groundwater Information System	Data, Reports, Maps	Allows you to explore subsurface data managed by the state (Well Report Database, Groundwater Mapping Tool, Search for a Groundwater Site)	OWRD	Oregon		Link
Oregon Water Resources Department Water Rights Information System	Data, Reports, Maps	Warehouse of information pertaining to water right applications, permits, certificates, transfers, leases and related information (Water Rights Information Query, Platcard Report, Water Rights Place of Use Summary Report, Point of Diversion Summary Report, and Interactive Water Rights Maps).	OWRD	Oregon		Link
Oregon Water Resources Department Peak	Maps, Reports	Estimate the magnitude of peak discharges (highest stream flows) for rural, "unregulated streams" in Oregon, which refers to areas where	OWRD	Oregon		Link

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Discharge Estimation Mapping Tool		Flows are not affected by in-channel storage projects				
Oregon Water Map Viewer	Maps, Charts, Report	Aggregates water data for a selected area of interest.	OWRD/OSU	Oregon	Oregon Explorer	Link
Oregon Watershed Restoration Inventory Tool	Maps, Reports	Watershed restoration data since 2005. OWEB data; tool developed by Oregon Explorer	OWEB/OSU	Oregon	Oregon Explorer	Link
Oregon Watershed Investment Inventory Tool	Maps, Reports	Watershed restoration investment data. OWEB data; tool developed by Oregon Explorer	OWEB/OSU	Oregon	Oregon Explorer	Link
Atlas of Oregon Lakes	Maps, Reports	Includes lake photos, links to the Oregon Department of Fish and Wildlife's recreational fishing web pages, bathymetric maps, links to the Oregon Marine Board facilities database, EPA National Lake Survey summary pages, and information about aquatic invasive plants and animals.	PSU	Oregon	Center for Lakes and Reservoirs	Link
Oregon Water Atlas	Maps, Charts	Maps of precipitation, groundwater, surface water, flooding, infrastructure, water use, drinking water, water rights, and fish	OSU	Oregon	Institute for Water and Watersheds	Link
Estuary Mariculture Shellfish Tool	Maps, Reports	Developed to assist in pre-application for shellfish mariculture site assessments. ODA, DLCD, ODFW	DLCD OCMP/ODA/OSU	Oregon	Oregon Explorer	Link
PRISM Climate Data	Data, Maps	Provides 30-yr normal precipitation, temperature data	OSU, PRISM Climate Group	United States	Dylan Keon	Link
Regional Aquatic Prioritization and Mapping Tool	Maps, Scenarios	Decision support system. Automated analytical tool that is used to evaluate a wide array of watershed priorities given different species of concern and optional priority constraints such as watershed condition, climate change, and aquatic invasive species.	USFWS/ECOTRUST	Oregon, Washington, Idaho		Link
Water Utility Service Area Map	Maps, Reports	Developed to estimate water service area boundaries	Environmental Policy Innovation Center?	Oregon		Link

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OpenET	API, Maps, Data, Remote Sensing	OpenET employs several well-established methods to generate daily, monthly, and annual satellite-based ET estimates at the field scale.	DRI	United States	DRI	Link
Oregon Aquaculture Map Viewer	Maps, Report, Financial Planning	Developed for Oregon Aquaculture Association with Business Oregon funds. Includes a site report and financial planning module.	Oregon Aquaculture Association/OSU	Oregon	Oregon Explorer	Link
Mid-Coast Water Planning Map Viewer	Maps, Report	Aggregates data on precipitation, water quality, and water rights for a selected area of interest.	Mid-Coast Water Planning Partnership/OSU	Mid-Coast of Oregon	Oregon Explorer	Link
John Day Basin Partnership Project Tracker	Map	Access information about projects of the John Day Basin Partnership	John Day Basin Partnership	John Day Basin, Oregon		Link
City of Portland Environmental Services WebPortal	Data, Reports, Maps, Charts	Uses the AQUARIUS Web Portal. View maps, export data, create charts	City of Portland	Portland, Oregon		Link
Monitoring Data (per type)		Explore, access and monitor different aspects of water information such as streamflow gauges, water quality, and weather data at a specific location. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia, Alberta		Example
Streamflow Depletion		Estimates the depletion of water from lakes, rivers, and streams due to groundwater withdrawals. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia, Alberta		
Water Use Analytics		Water usage and allocations information for any region. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia, Alberta		Example
Watershed Reporting		Provides a detailed summary of the watershed characteristics such as seasonal water availability, existing water rights, environmental flow needs, elevation, land cover, climatic conditions, as well as predictions of climate change impacts. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia, Alberta		Example

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Cumulative Diversion Analysis		Evaluates the impact of natural variability and existing water demand for a new proposed diversion of surface water. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia		Example
Equivalent Clearcut Area (ECA)		Supports the retrieval and analysis of data describing 40 years of annual disturbance for any watershed, with the ability to account for forest regrowth. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia		Example
Groundwater Reporting		Comprehensive summary of groundwater knowledge for a user-defined area integrating dozens of sources of information. Additional details in Foundry Spatial Modules tab.	Foundry Spatial	British Columbia		Example
Western States Water Data Access and Analysis Tool (WestDAAT)	Maps, Data, Charts	West wide aggregation of state data	Western States Water Council	Western US		Link
StreamBank Toolkit			The Fresh Water Trust?			Link
Tualatin River Watershed Navigator			Tualatin Soil and Water Conservation District & Clean Water Services			Link
Clean Water Services Maps & Data			Clean Water Services			Link
Boundary Sync		Boundary Sync is an open-source tool that enables utilities to create, digitize, and update their service area boundaries.	IoW, Duke			<no link>
CA Freshwater Harmful Algal Bloom (FHABs)		Tool that enables users to view non-profit, tribal government, and state data on FHABs in bodies of water throughout California.	CA? (Open Source)			Link

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NC Water Supply Dashboard		integrates water use data from multiple utilities as well as federal and state data on water availability to improve water management in the state of NC.	NC? (Open Source)			Link
Kisters Web Portal and Query Services	Maps, Data, Charts, API	Integrates water monitoring location and observation (sample and time series data)	Kisters (Commercial off the shelf)		https://www.kisters.net	Example
Network Linked Data Index	API, Metadata	Discover monitoring locations of contributing organizations that are upstream or downstream points of interest according to NHDPlusV2	USGS	CONUS	USGS	Link
National Groundwater Monitoring Network	Data	Provides standardized water level data and monitoring well metadata from 280 sites in Oregon, and many more nationally	USGS, OWRD in OR	United States	USGS	Link
Planet Planetary Variables	Data	Daily soil water content and surfaced temperature data derived from satellite imagery at 100m resolution	Planet	Global	Planet, Center for Geospatial Solutions at the Lincoln Institute of Land Policy	Link
HydroClient	Data, API	Federated access to time series data for a variety of water and meteorological observations and models from over 400 sources	CUAHSI	Global		Link
Oregon Drinking Water Data Online	Tables	Drinking water quality testing data	OHA	Oregon	OHA	Link

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