

Groundwater Allocation Notice of Proposed Rulemaking:

Pre-Hearing, Information Only Session

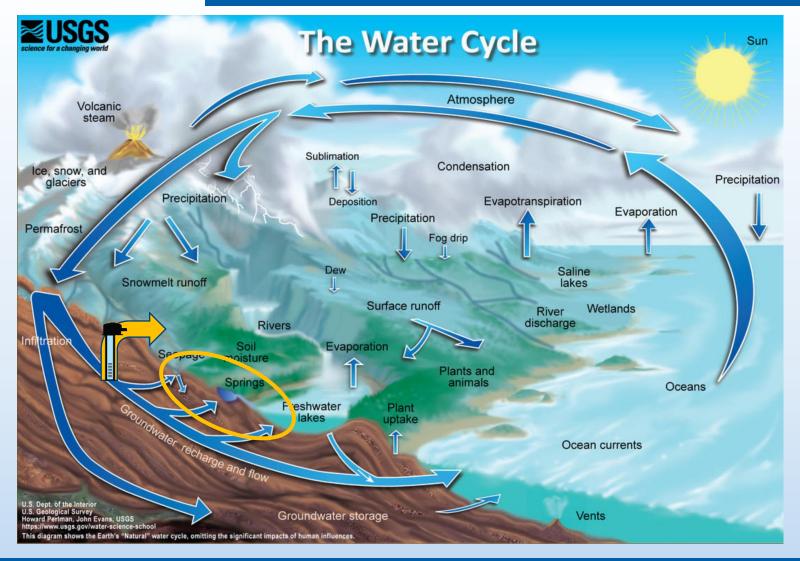
Justin Iverson Groundwater Section Manager

April and May, 2024

Groundwater Development Introduction



Key Groundwater Concept



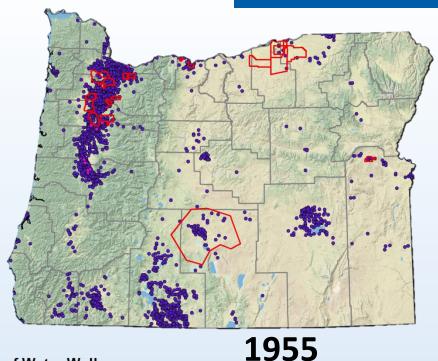


Key Groundwater Concept



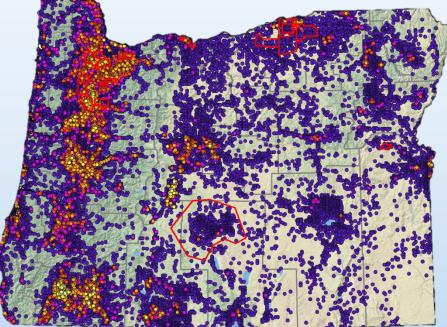


Groundwater Development



4,660 well logs

2016 256,800 well logs



Density of Water Well Logs per 640 Acres

1 - 16 (<= 1 well / 40 acres)

) 17 - 32 (<= 1 well / 20 acres)

33 - 64 (<= 1 well / 10 acres) 65 - 128 (<= 1 well / 5 acres)

129 - 256 (<= 1 well / 2.5 acres)

257 - 320 (<= 1 well / 2.0 acres)

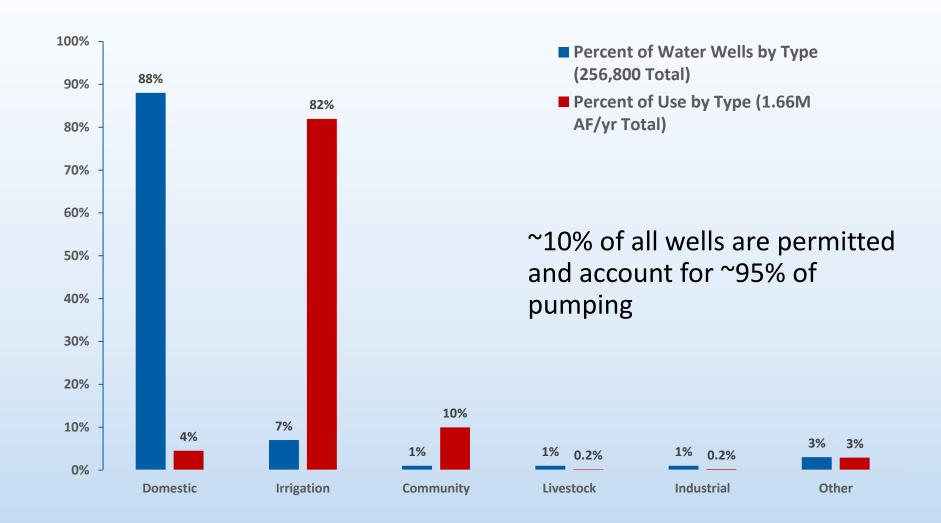
>320 (<= 1 well / 1.0 acres)</p>

Counties

Ground Water Restricted Areas



Wells in Oregon



Need for Rulemaking



Impacts of Over-Allocation

- drying up of wells or increased pumping costs
- reduced streamflow
- curtailment of rights that people have invested in
- deterioration of water quality

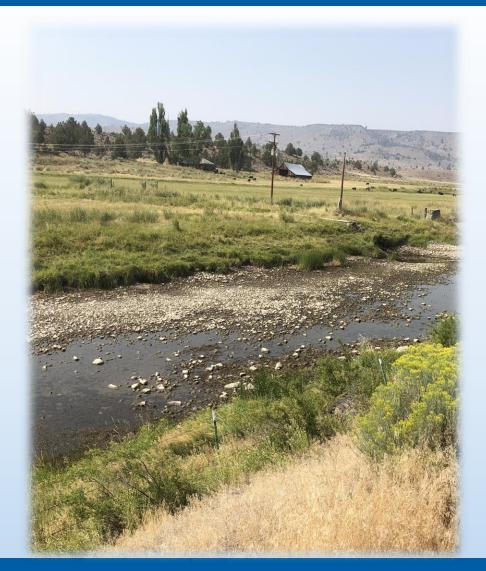
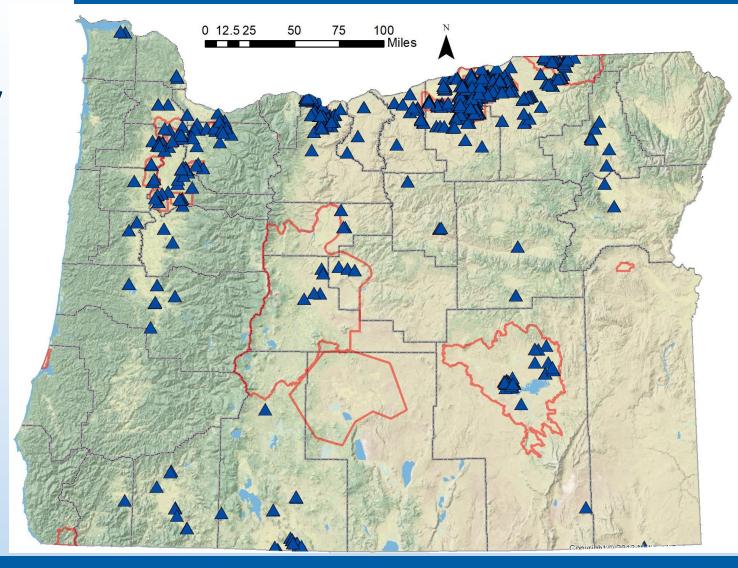


Photo: Crooked River, nearly dry

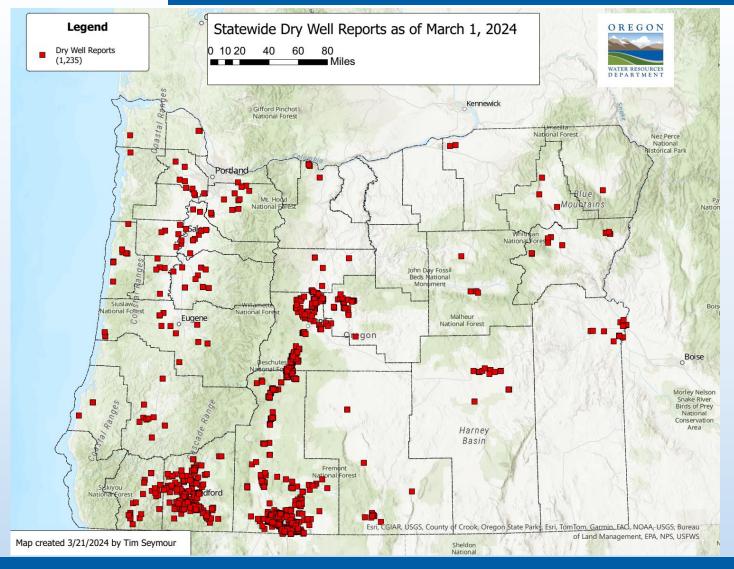


Excessively Declined Water Levels

(>50 ft from highest known)

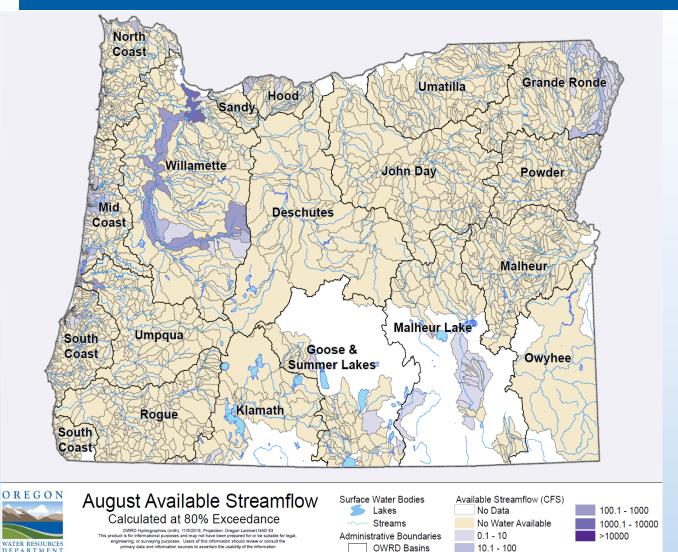








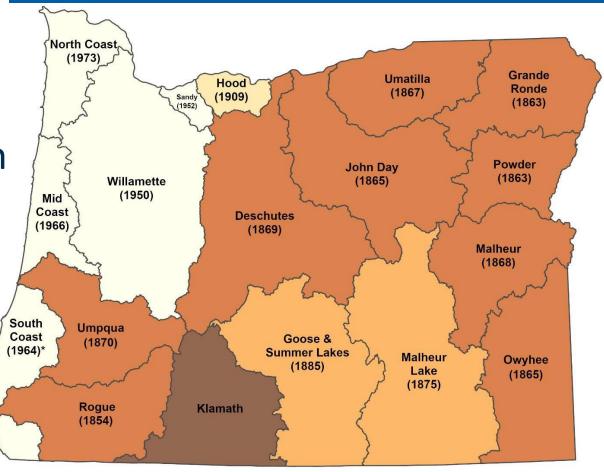
Surface Water Availability in August





Surface Water Regulation (earliest in each Administrative

Basin)



Earliest Priority Date to Which Surface Water Rights Regulated (2018 - 2020)



Surface Water regulation by administrative basin

senior water right)

1871 - 1885 1886 - 1912 1913 - 1976 Time Immemorial (most *Regulatory years fall outside standard years selected for this map

0 10 20 30 40 50 Oregon Lambert Coordinate Reference System (EPSG #2992)

Map prepared by OWRD GIS (rh), 9/26/2022 (state_2022_SWregulationdatebyAdminBasin.aprx)

and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this ascertain the usability of the information

This product is for informational purposes information should review or consult the primary data and information sources to



Groundwater Allocation Rulemaking



Rulemaking Objective

Update groundwater allocation rules to be more sustainable and protective of existing water right holders, both instream and out-of-stream.





Allocation in Statute

ORS 537.621(2)(a), the "fourpart test":

- Use is allowed in the basin
- Water is available
- Existing rights will not be injured
- Meets additional Commission standards and rules

...and (2)(b) Other public interest criteria in statutory policy can be addressed as needed





Water is Available if...

Current Rules:

Requested source is available if not overallocated:

- Allocate up to the full annual recharge volume
- Avoid short-term, acute impacts to surface water; while allowing long-term and cumulative impacts

Proposed Rules:

Requested source is available only if:

- Groundwater level trends are Reasonably Stable
- Hydraulically connected surface water is available for further appropriation
- Aquifer physically capable of producing the requested rate



GW Allocation Rulemaking

Extensive Public Involvement:

- Commission agenda items since December 2021
- GWAC engagement 8 meetings since March 2022
- Public outreach 5 meetings in Fall 2022
- RAC meetings 8 meetings since April 2023
- RAC technical information sessions 2 meetings in January 2024
- Additional outreach and meetings as requested

All rulemaking information and public meeting recordings are available on the Department's website.



RAC Roster

47th Ave Farms

Anderson Perry & Associates

Applied Economics, OSU

Association of Oregon Counties

Atmospheric Science, OSU

Central Oregon Cities Organization

Citizen-at-Large

Confederated Tribes of the Umatilla Indian Reservation

Deschutes River Conservancy

Dunn Carney/Oregon Cattlemen's Association

Environmental Law, Willamette University

Exempt Well User

Grown Rogue

GSI Water Solutions

Jefferson County Commission

Klamath Irrigation District

Klamath Tribes

League of Oregon Cities

Northwest Groundwater Services

Oregon Association of Nurseries

Oregon Environmental Council

Oregon Farm Bureau

Oregon Lakes Association

Oregon Water Resources Congress

Pacific Hydro-Geology, Inc.

Rancher

Seven Hills Winery

The Nature Conservancy

Verde

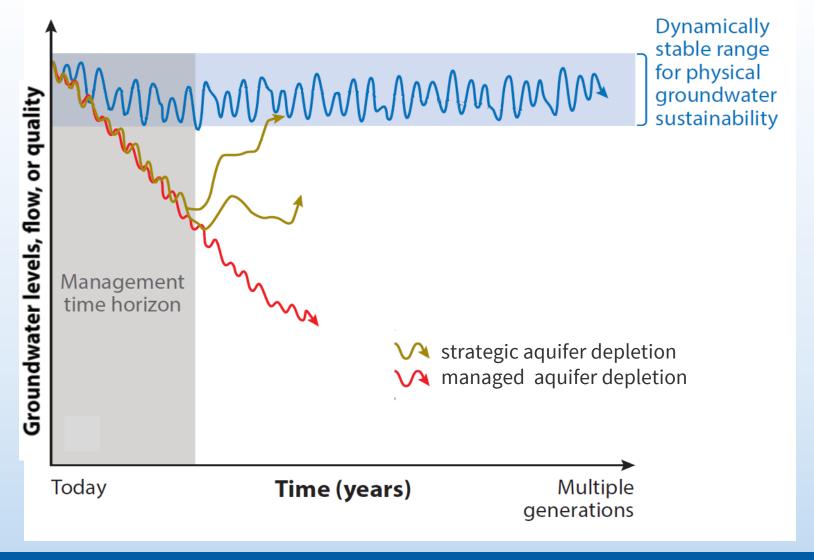
WaterWatch

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Key Issue 1: Defining Reasonably Stable Groundwater Levels

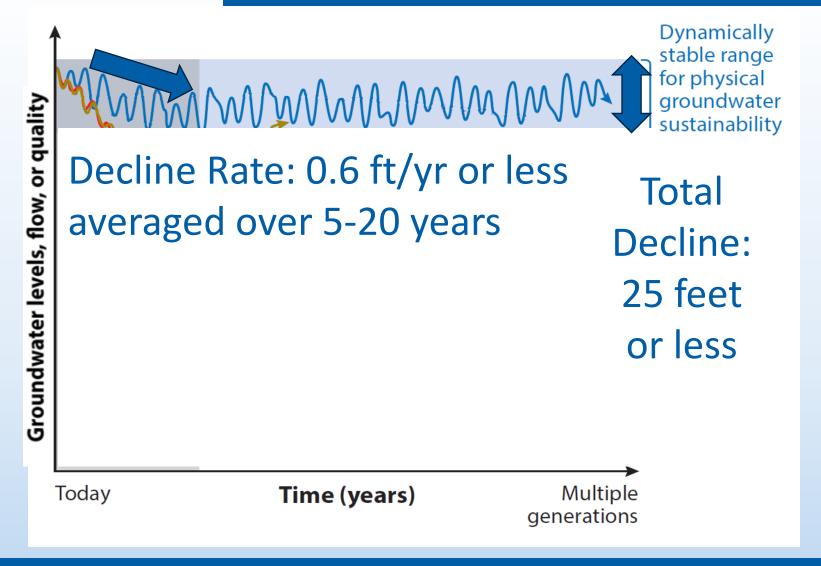


Reasonably Stable Groundwater Levels Science-Based Framework





Reasonably Stable Groundwater Levels Data-Driven Threshold Definitions





Reasonably Stable Groundwater Levels Proposed - OAR 690-008-0001(9)

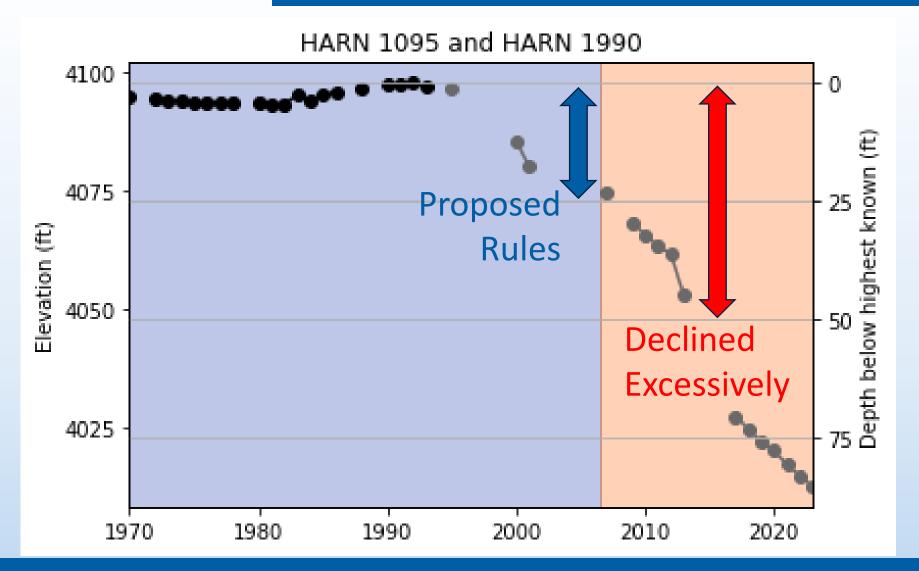
- Water level declines no more than 0.6 ft/yr or 25 ft total
- From highest known water level
- Water level must be available:
 - From the aquifer; can be from a neighboring well
 - 5 years of data minimum
 - Final data point within the past 5 years

Additional Considerations:

- Highest known water level can be set below human-caused water level rises
- Assume reasonably stable if no prior development
- Basin rules can re-define
 - Impacts to existing wells, ecosystems, and longterm sustainability must be assessed



Reasonably Stable Groundwater Levels Harney Basin Example





Impacts of Not Maintaining Reasonably Stable Groundwater Levels

Domestic Dry Wells:

- 1,235 dry well complaints since July 2021
- Average cost to deepen a well is \$26,500
- •\$9M+ in public investments; ongoing demand

State-Wide Risk (all water wells):

- Up to 15,000 wells at risk of going dry given a water level drop of 25 feet
- Up to 55,000 wells at risk of going dry given a water level drop of 50 feet

Key Issue 2: Redefining Potential for Substantial Interference (PSI) with Surface Water



Streamflow in August comes from Groundwater





Groundwater Contributes Flow



Photo: OWRD, Sprague River



Groundwater – Surface Water Interference

Potential for Substantial Interference (OAR 690-009-0040)

- If hydraulically connected
- Over the proposed period of use
- Then the potential for substantial interference exists
- Actual substantial interference exists if...

Substantial Interference (OAR 690-008-0001)

... the surface water source:

- Is already overappropriated
- Is withdrawn or restrictively classified
- Is regulated off to satisfy senior rights
- Has an unmet instream right during any period of the year

Reference: Division 8 and 9 28





Meeting Future Needs

Existing Options:

- Conservation
- AquiferStorage/Recharge
- Water Re-use
- Transfers

<u>Potential New/Future</u> <u>Opportunities:</u>

- Mitigation programs
- Market based approaches
- Outcomes from basin and regional planning



Benefits to Existing Users

- Increases certainty for existing users
- Fewer dry wells
- Lower pumping costs
- Preserved water quality

- Consistent with prior appropriation doctrine
- Reduces future conflict

What's Next



Next Steps

- Multiple public hearings held around state
 - Bend April 4, 2024
 - LaGrande April 18, 2024
 - Central Point May 16, 2024
 - Salem (including online option) May 21, 2024

Information Only Session Time: 5:30 p.m. to 6:30 p.m.

Hearing Time: 7:00 p.m. to 9:00 p.m.

- Written Comments accepted March 1 June 14, 2024
- Evaluation of comments June July, 2024
- Presentation to Water Resources Commission for adoption in September 2024

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More Info Online

Today's information session will be posted online, with other information about our rulemaking:

https://www.oregon.gov /owrd/programs/GWWL/ GW/Pages/Groundwater-Rulemaking.aspx



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