OREGON



WATER RESOURCES D E P A R T M E N T

Overview of the Harney Basin and Agency Work in the Basin

Oregon Water Resources Commission September 28, 2023



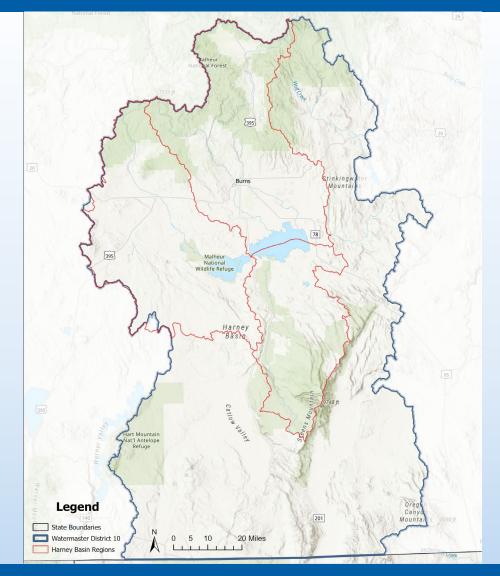
Presentation Overview

- Surface Water Distribution and Regulation
- Groundwater Challenges in the Basin
- Dual Approach to Stabilize Groundwater Level Declines
- Harney Community Based Water Planning Collaborative
- Financial Assistance for Domestic Dry Wells



Watermaster District 10

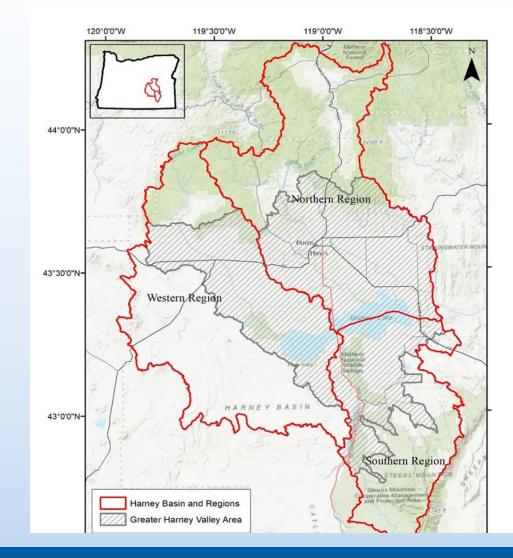
- Malheur Lake Basin
- Borders Nevada to the South and Malheur Basin (District 9) to the East.
- Largest Watermaster District in Oregon (11,700 Square Miles)





The Harney Basin

- Located in southeastern Oregon in the Northern Great Basin
- Closed basin
- GHVGAC Designation
- Malheur and Harney Lakes lie in the center of the basin and receive water from all the streams in the basin



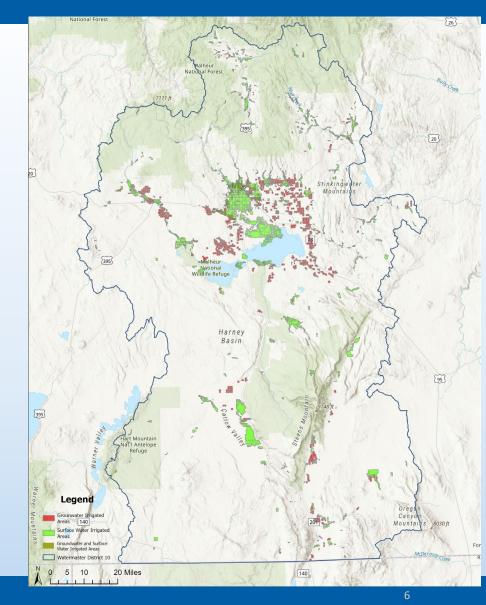


Surface Water Distribution and Regulation



Irrigation in District 10

- Major surface water sources: Silvies River, Silver
 Creek, Donner Und Blitzen River, and N.F. Malheur
 River (Malheur Basin)
- Regulation occurs primarily on Silvies River and Silver Creek early in the year, then N.F. Malheur mid-summer

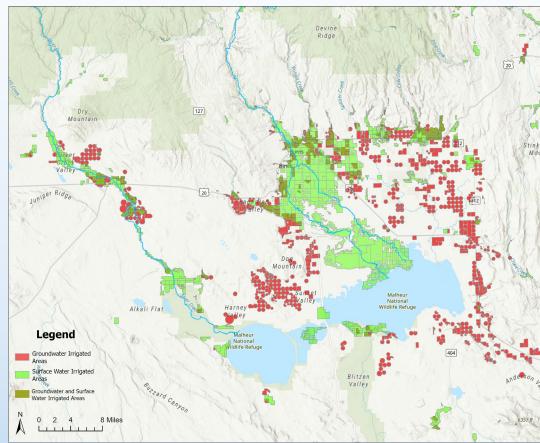




District 10 - Regulation

Watermaster Staff have been working with local stakeholders to improve regulation/distribution on the system including:

- 1) Additional Measurement Devices
- 2) Infrastructure Improvements
- Increased Communication with users.
- 4) Proposed Additional gage on the Silvies R.
- 5) Monitoring for unauthorized groundwater use

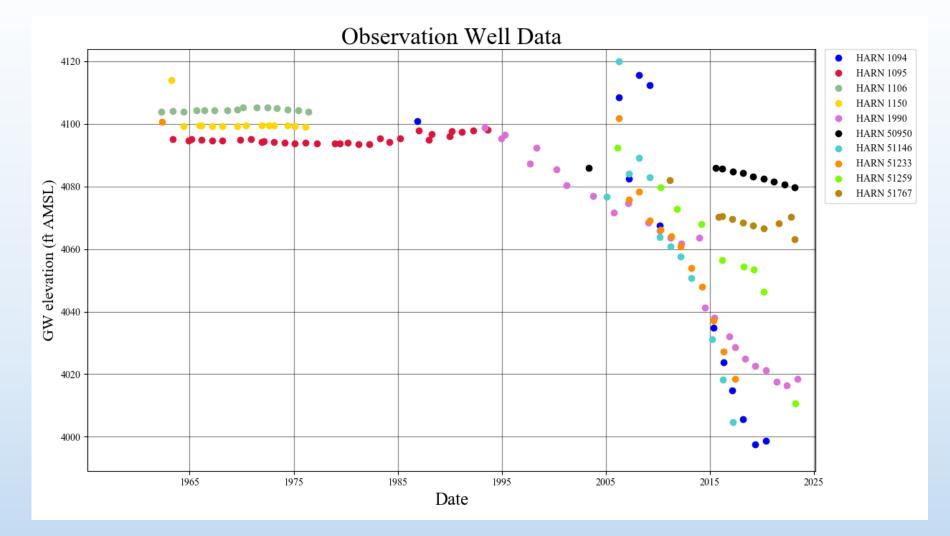




Groundwater Challenges in the Basin



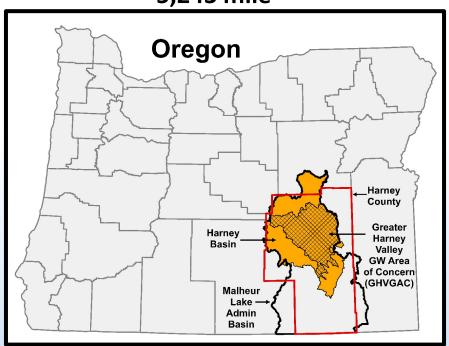
Why a Groundwater Study?

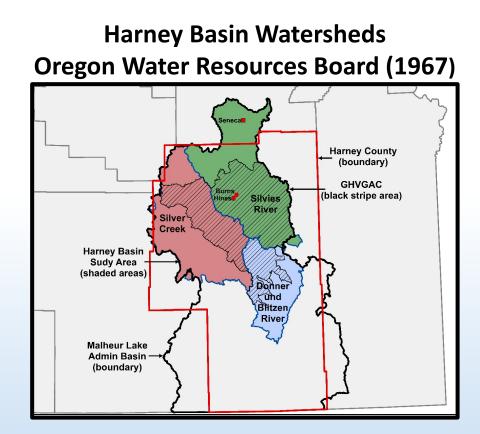




Groundwater Study Area

Harney Basin Groundwater Study Area 5,243 mile²



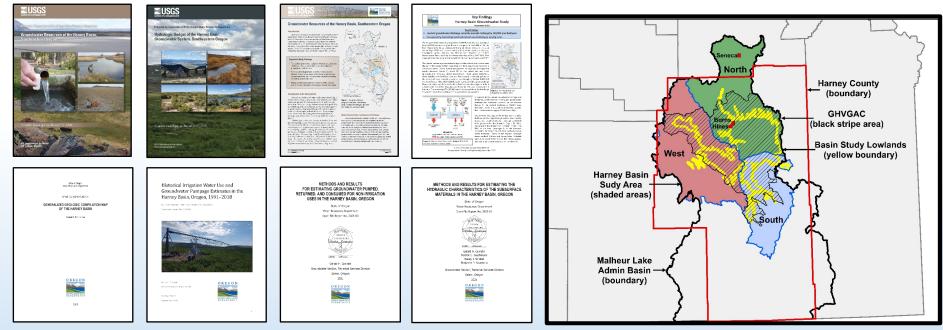




Groundwater Study Reports

Groundwater Reports (6) & Fact Sheets (2) Published 2021-2022

Harney Basin Groundwater Study Area Water Budget Regions & Lowlands

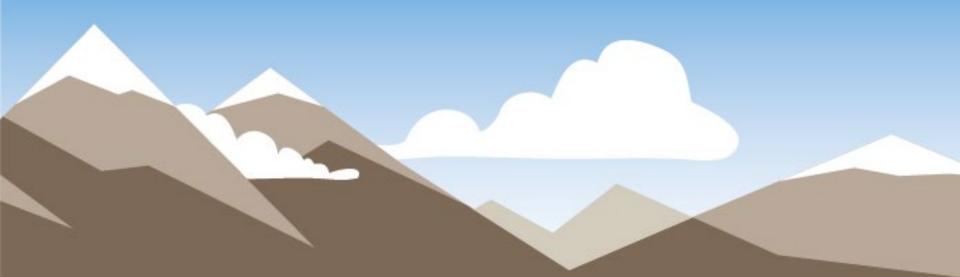


Work in Progress: USGS Groundwater Model & Reports



Key Takeaways

- Most Harney Basin groundwater is ancient (recharged 5,000 to 30,000 years ago), and modern groundwater (recharged after 1953) is limited to a thin, shallow zone beneath recharge areas
- 2. Harney Basin groundwater flows in a single, hydraulically connected system
- Harney Basin groundwater budget balances in the uplands; it does not balance in the lowlands (deficit of 110,000 acre-feet/year)



Approach to Stabilize Groundwater Level Declines



Dual Approach





REGULATORY

VOLUNTARY



Regulatory – Division 512 Rulemaking Overview



Develop Initial Draft Rules

Rules Advisory Committee RAC(s) #2 - #5

Public Comment Period & Hearing(s)

Staff Recommendation & Commission Decision



Regulatory – Division 512 Rules Advisory Committee

32 RAC Members that Represent:

Domestic Well Users

Irrigators

Citizens/Landowners

Local and County Government

Conservation Groups

Tribes

Soil Water Conservation District and Watershed Council

Well Drillers

Federal Agencies

Local Businesses



Regulatory - Division 512 Rulemaking Timeline

April 25, 2023		February 2024 – April 2024		
RAC Number 1		Review Comments and Develop WRC Recommendations		
	August 2023 – January 2024		September 2024	
	RAC Number 2–5		WRC Potential Rule Adoption	



Regulatory - Division 512 Rulemaking

To address groundwater issues WRD has 3 tools available:

- Critical Groundwater Area designation and curtailment
- Serious Water Management Problem Area (SWMPA) designation
- Classification



Voluntary Agreements

What is a Voluntary Agreement?

- A voluntary tool to curtail groundwater use
- Described generally in statute (ORS 537.745)
- Agreement among groundwater users
- Requires approval by the Water Resources Commission
- Has not been used before in Oregon to manage groundwater



Voluntary Agreements

Moving Forward with Voluntary Agreements



OWRD develops guidance/rules



Division 512 RAC discusses information needed



Groundwater users identify scope, interest, and capacity to develop a voluntary agreement



Voluntary Program – CREP

- Payment for voluntary cancellation of groundwater rights
- Incentives for environmentally sensitive areas and well abandonment
- Establishes conservation land and allows for future grazing
- Enrollment scheduled fall 2023





Harney Community Based Water Planning Collaborative

Harney Community Based Water Planning Collaborative

- Final GW Portion of Plan Complete
- Surface Water Step 2 + 3 Reports Review – Complete (18 documents ~220 pages)
- Continued input and technical assistance will be provided on process design and surface water plan development
- Step 5 Report Review Expected in Spring 2024





Financial Assistance for Domestic Dry Wells



Two Financial Assistance Programs

	Well Abandonment Repair and Replacement Fund	Harney Well Fund
Authorized	HB 2145 (2021)	HB 3092 (2021)
Geographic Scope	Statewide	Greater Harney Valley Groundwater Area of Concern
Max Grant Award	\$40,000	\$13,500 (per statute)



Statewide Well Abandonment, Repair and Replacement Fund (WARRF)

Assists households impacted by drought or wildfire to repair or replace and abandon a dry or severely declining well that is no longer sustaining their household.





<u>Since June 2022</u>:

- Received 300 applications from 21 counties
- Approved 180 grants
- Restored water to 127 households

Category	Dollar Amount
Authorized by Legislature	\$5,400,000
Awarded as Grants	\$4,762,742
Reimbursed	\$3,311,537
Available to Award	\$637,258



Harney Domestic Well Remediation Fund

- Authorized by HB 3092 during 2021 session
- Financial assistance for replacing, repairing or deepening domestic personal use wells
- Affected wells within the Greater Harney Valley Groundwater Area of Concern
- Prioritize grants for wells:
 - Owned by or serving persons of lower or moderate income
 - Based on the severity of changes and declines in ground water



Harney Domestic Well Remediation Fund

Fall 2023:

- Establish fund criteria and requirements
- Determine prioritization process
- Stakeholder outreach
- Establish processes and develop application materials

Early 2024:

• Launch the fund

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DEPARTMENT