

# Agenda Item H – Informational Report



## Groundwater Allocation Project Update – Public Outreach Meetings Summary

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**November 18, 2022**

# Background

- OWRD is developing a groundwater allocation policy, to culminate in rulemaking, that is more sustainable and protective of senior users.
- In September and October 2022, OWRD convened five facilitated public outreach meetings to seek input on reimagining the groundwater allocation decision-making process.

# Public Outreach Meetings

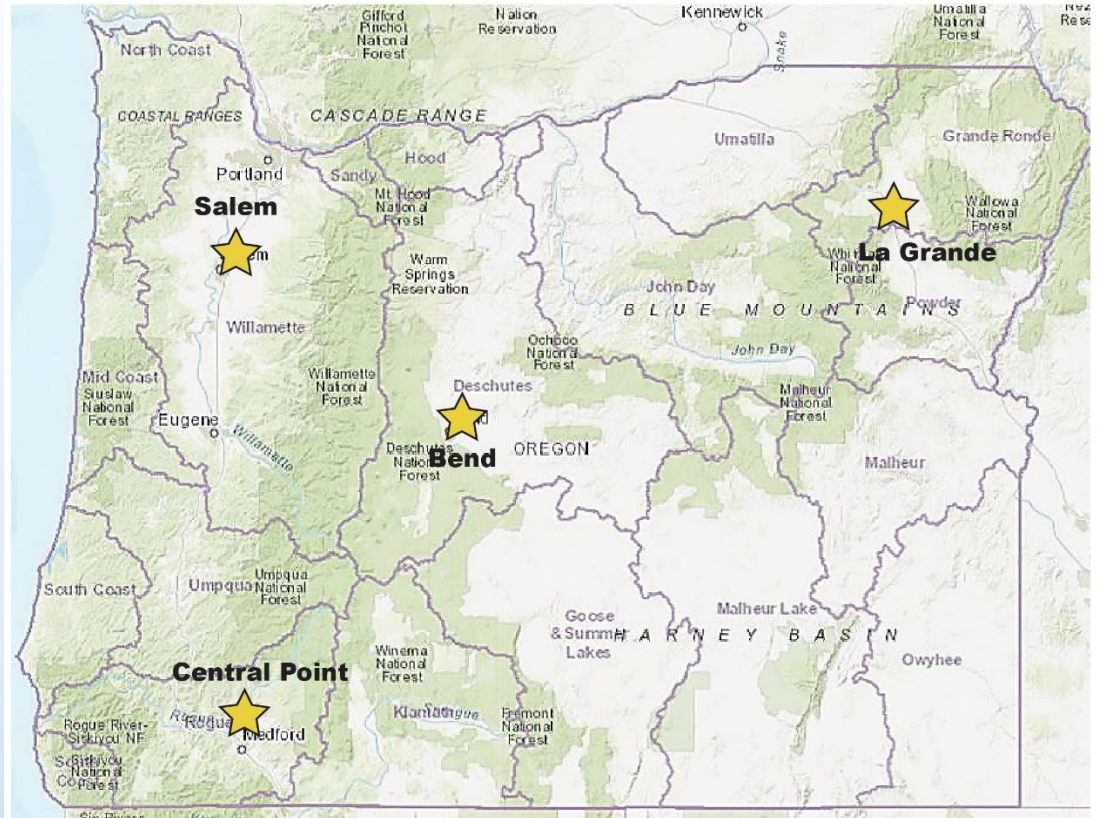


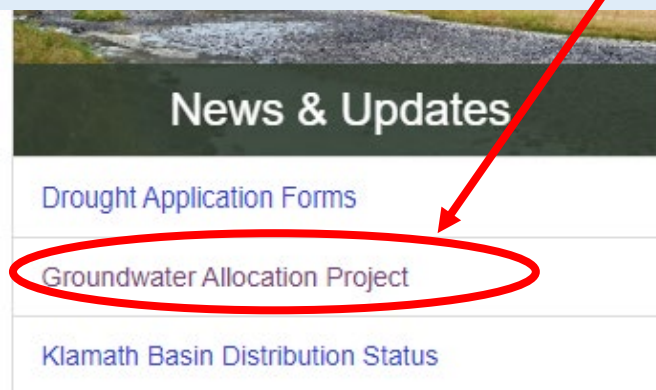
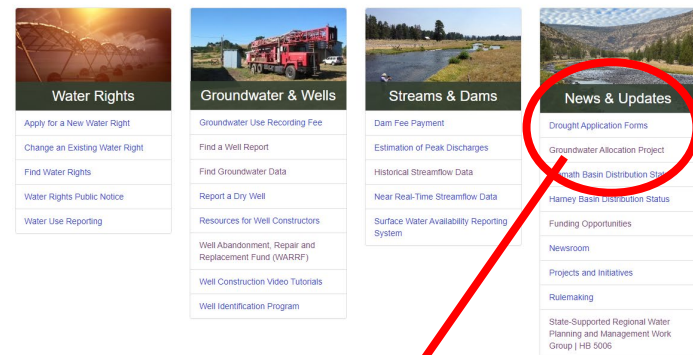
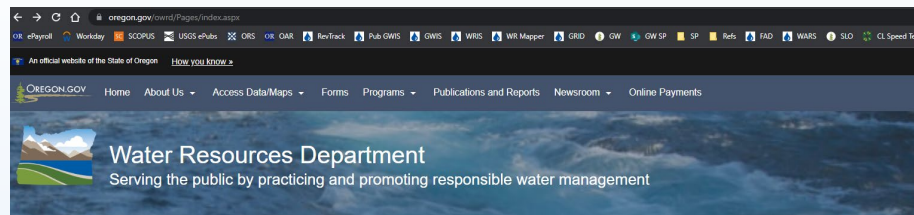
Figure 4. Map of Oregon depicting administrative water basins and cities where outreach meetings occurred.

# Outreach Meeting Agenda

Time	Topic
5:30	Venue opens
6:00 p.m.	Welcome and Introductions
6:10 p.m.	Oregon's groundwater allocation process
6:45 p.m.	Public Input Session <ul style="list-style-type: none"><li>• Clarifying Questions</li><li>• Share your Ideas</li></ul>
7:50 p.m.	Next Steps
8:00 p.m.	Adjourn

# Today's Presentation Roadmap

- Key Groundwater Concepts
- Allocation Issues and Potential Solutions
- Input Summary and Survey Responses
- Next Steps





# Key Groundwater Concepts

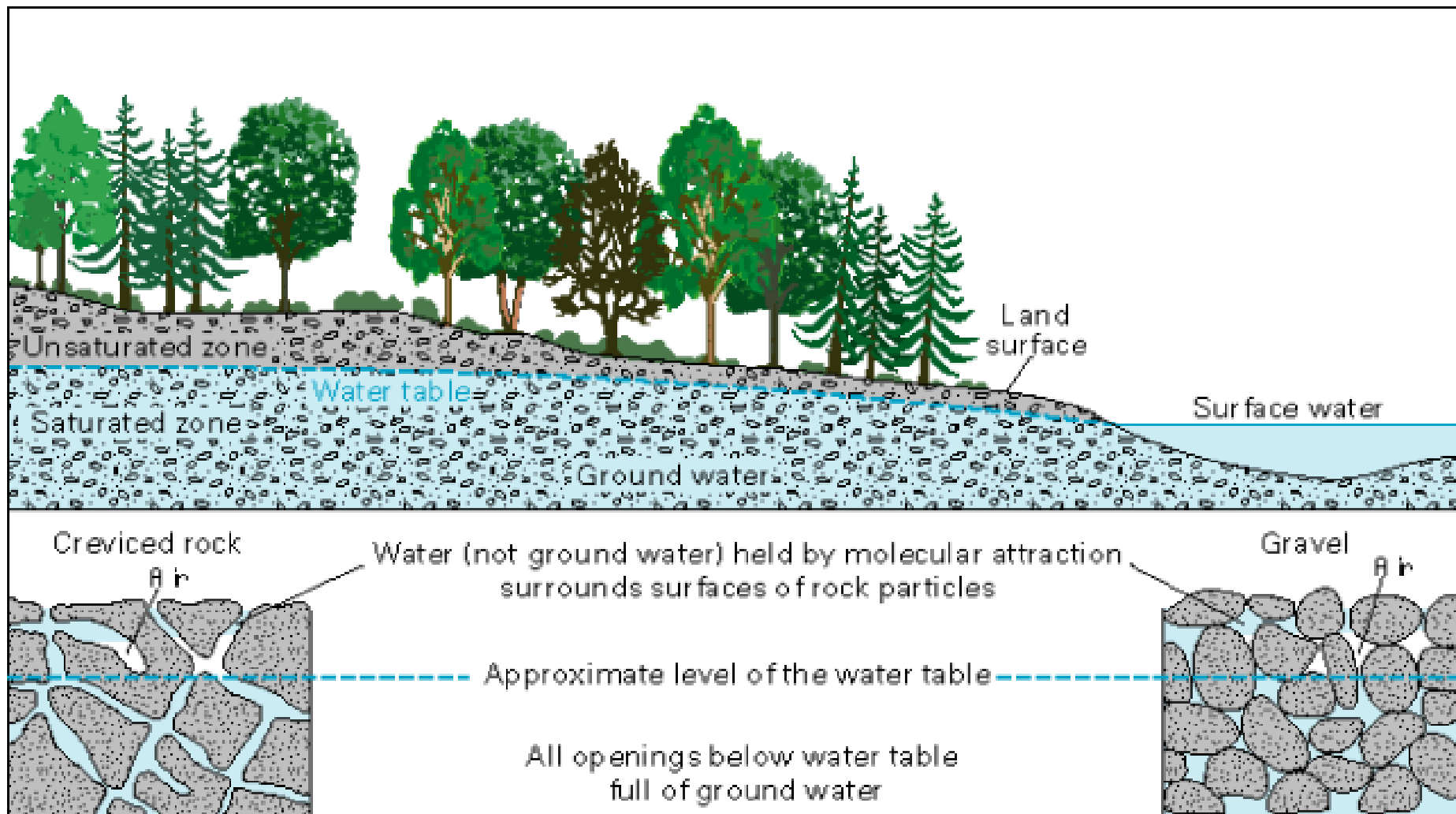


# Section Roadmap

- What is Groundwater
- Groundwater in the hydrologic cycle
- The source of groundwater to wells

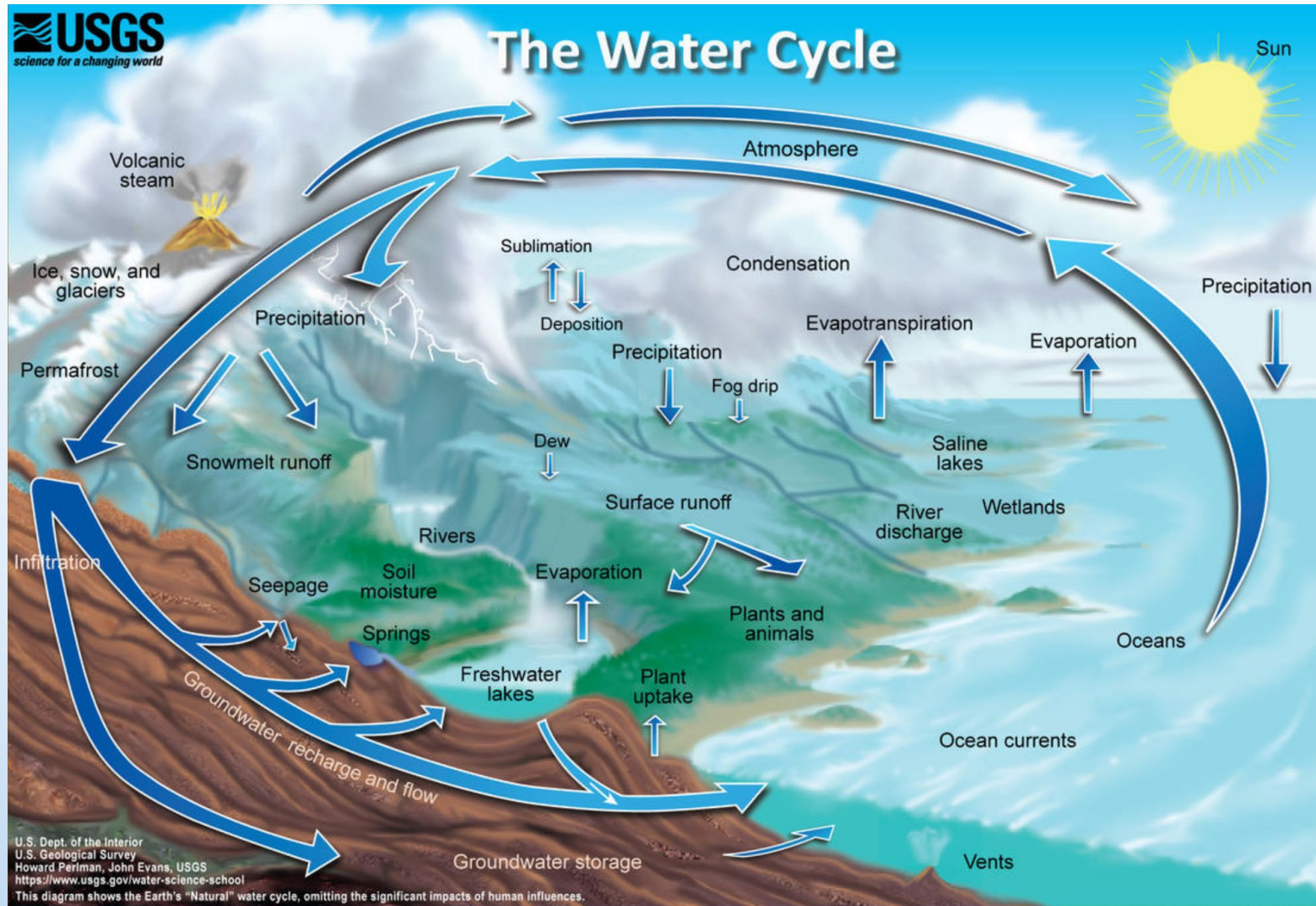


# What is Groundwater?



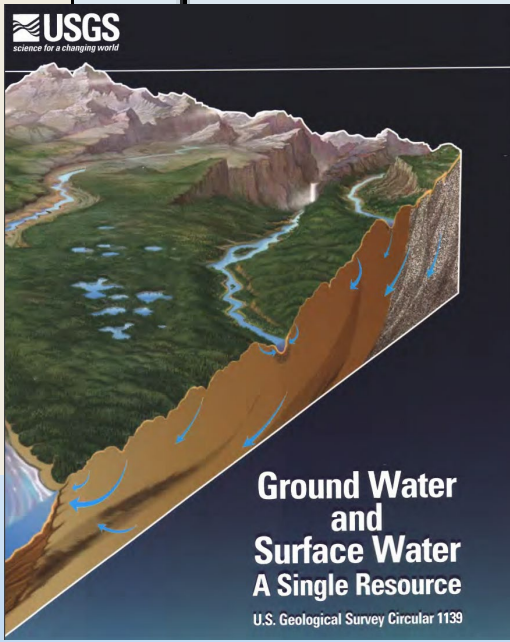
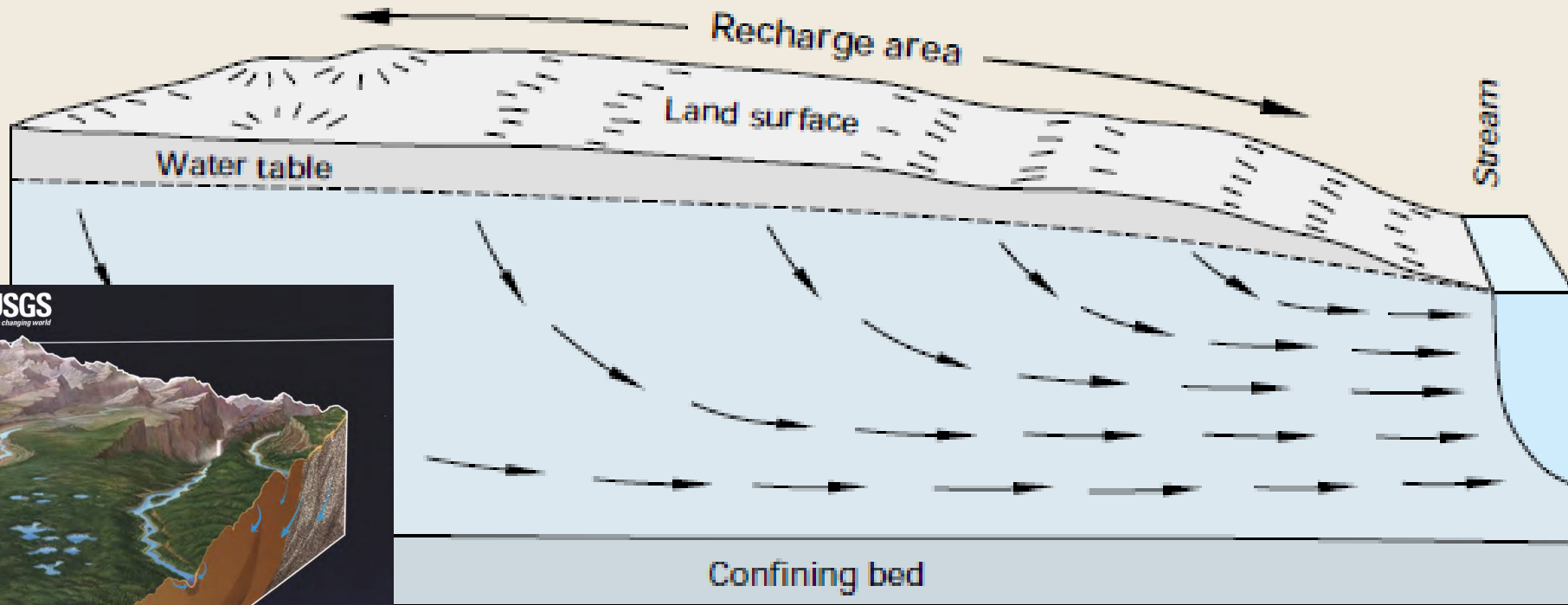


# Groundwater in the Water Cycle



# Groundwater to Surface Water

A



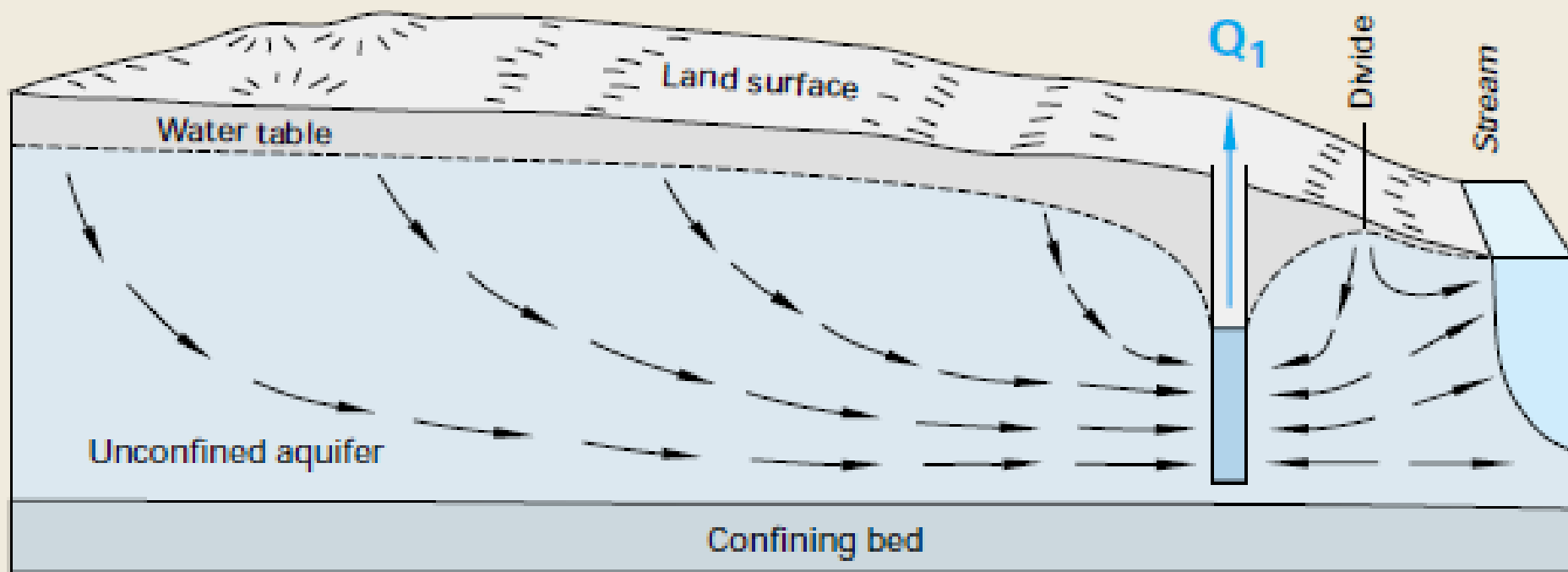


# Baseflow is Groundwater



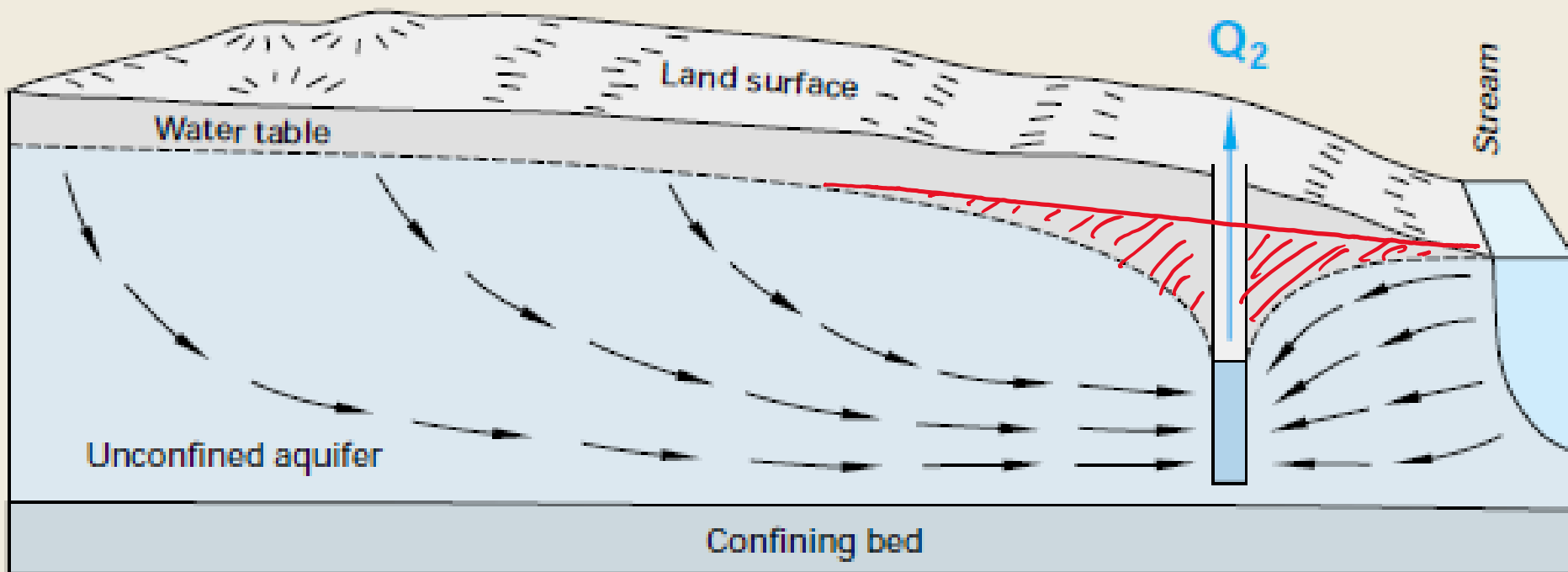
# Groundwater From Wells

**B**



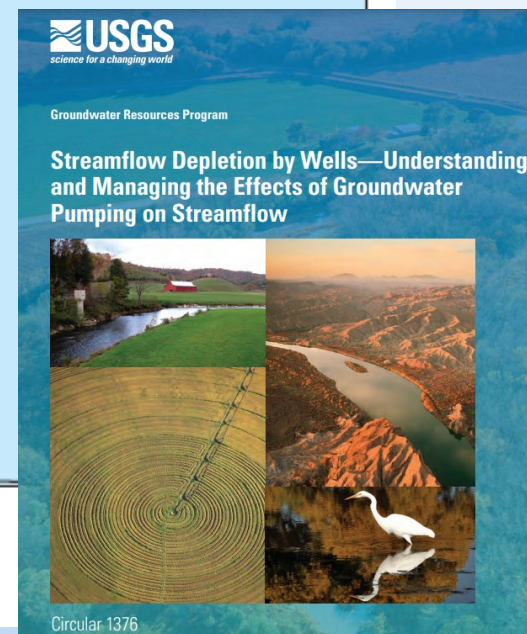
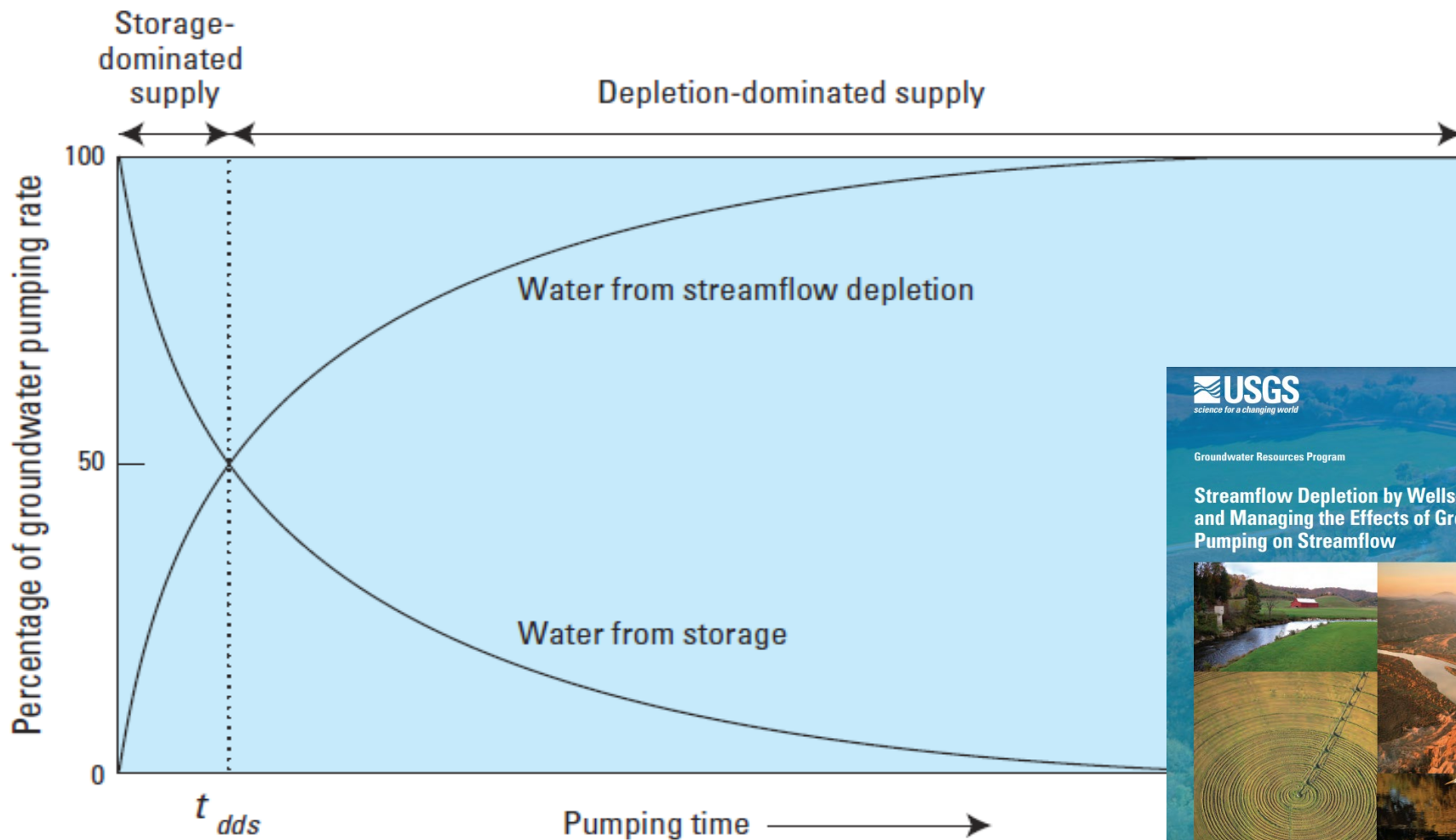
# Streamflow Capture

C



Groundwater removed from storage (drained pore space) at early pumping time.

# The Source of Water to Wells



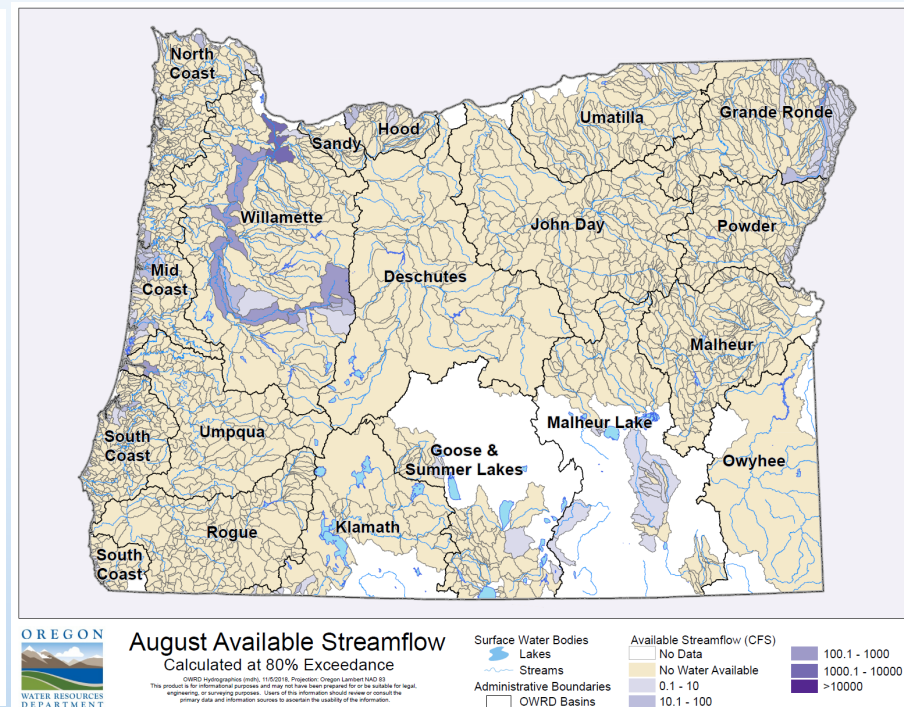
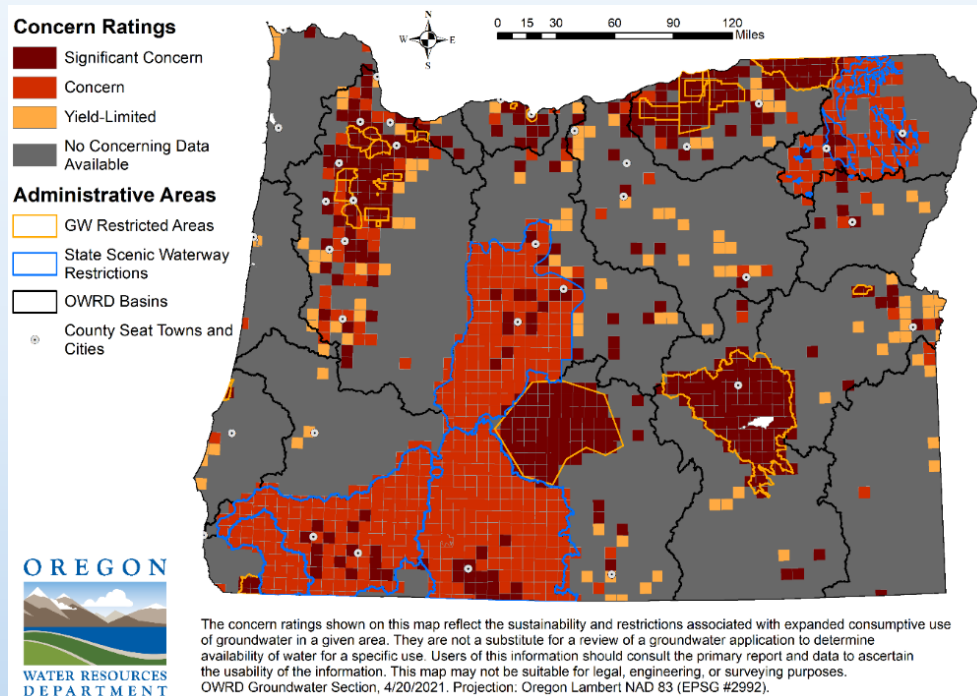
# Groundwater From Wells

“From the standpoint of groundwater conservation and statutory or other regulation, the following point should be emphasized: All water discharged by wells is balanced by a loss of water somewhere.”

- C.V. Theis, 1940: The Source of Water Derived From Wells

# New Groundwater Allocation has Impacts

Groundwater allocation over the past 65+ years has contributed to reduced surface water baseflow and groundwater level declines; both at the expense of existing users.





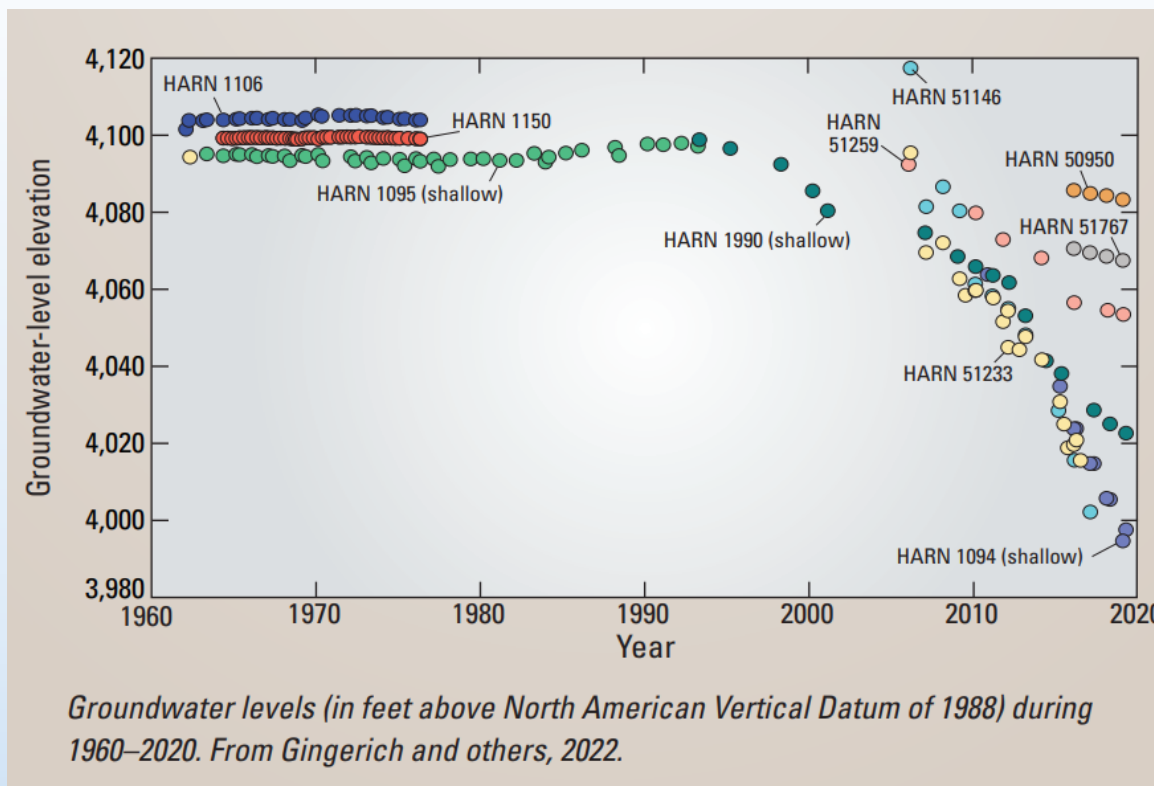


# Allocation Issues and Potential Solutions



# Section Roadmap

- Issues arising from existing allocation process
- Initial ideas for updating the allocation process





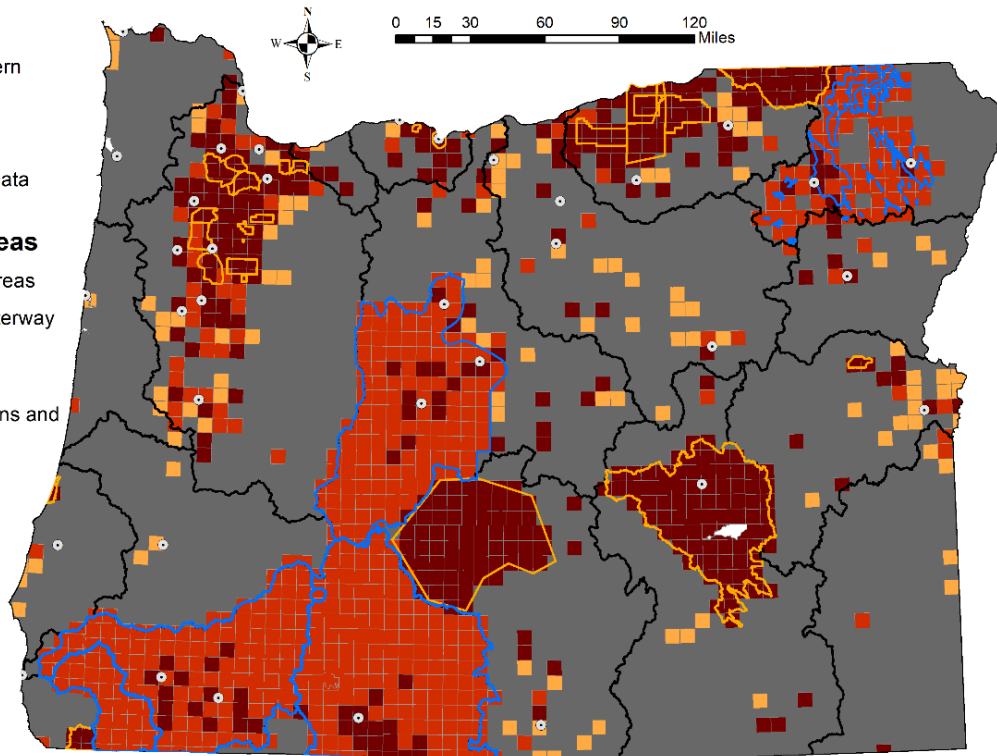
# Existing Allocation Process

## Concern Ratings

- Significant Concern
- Concern
- Yield-Limited
- No Concerning Data Available

## Administrative Areas

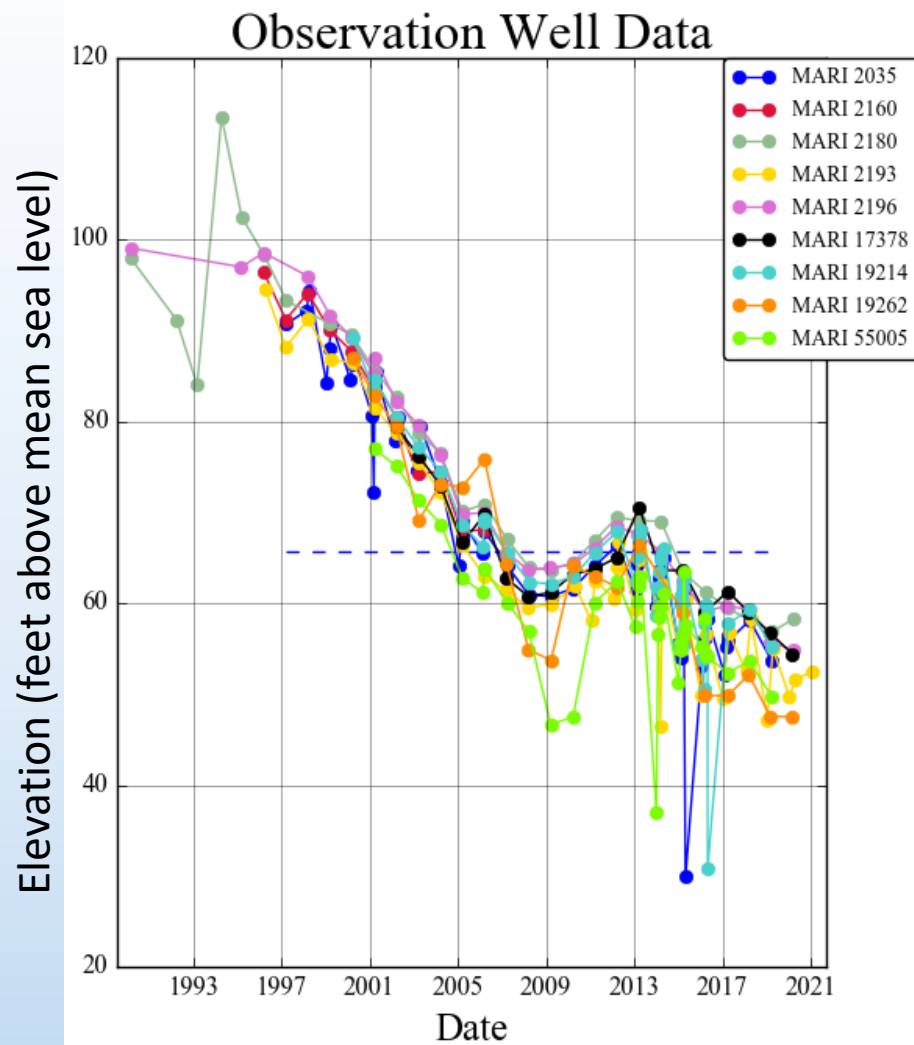
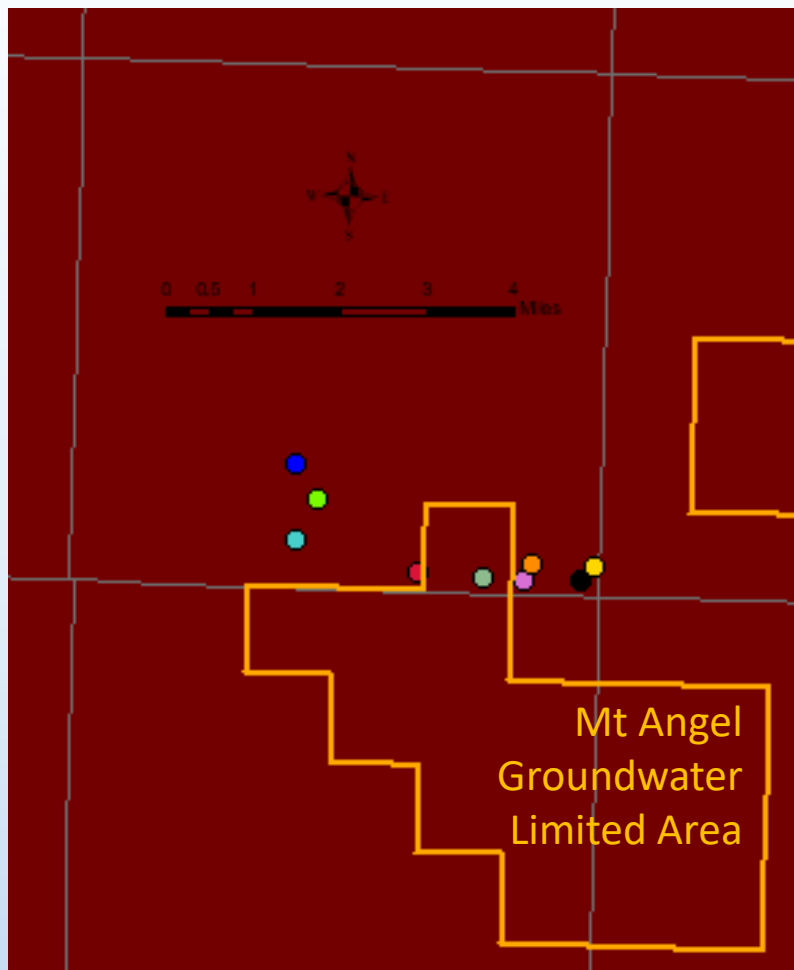
- GW Restricted Areas
- State Scenic Waterway Restrictions
- OWRD Basins
- County Seat Towns and Cities



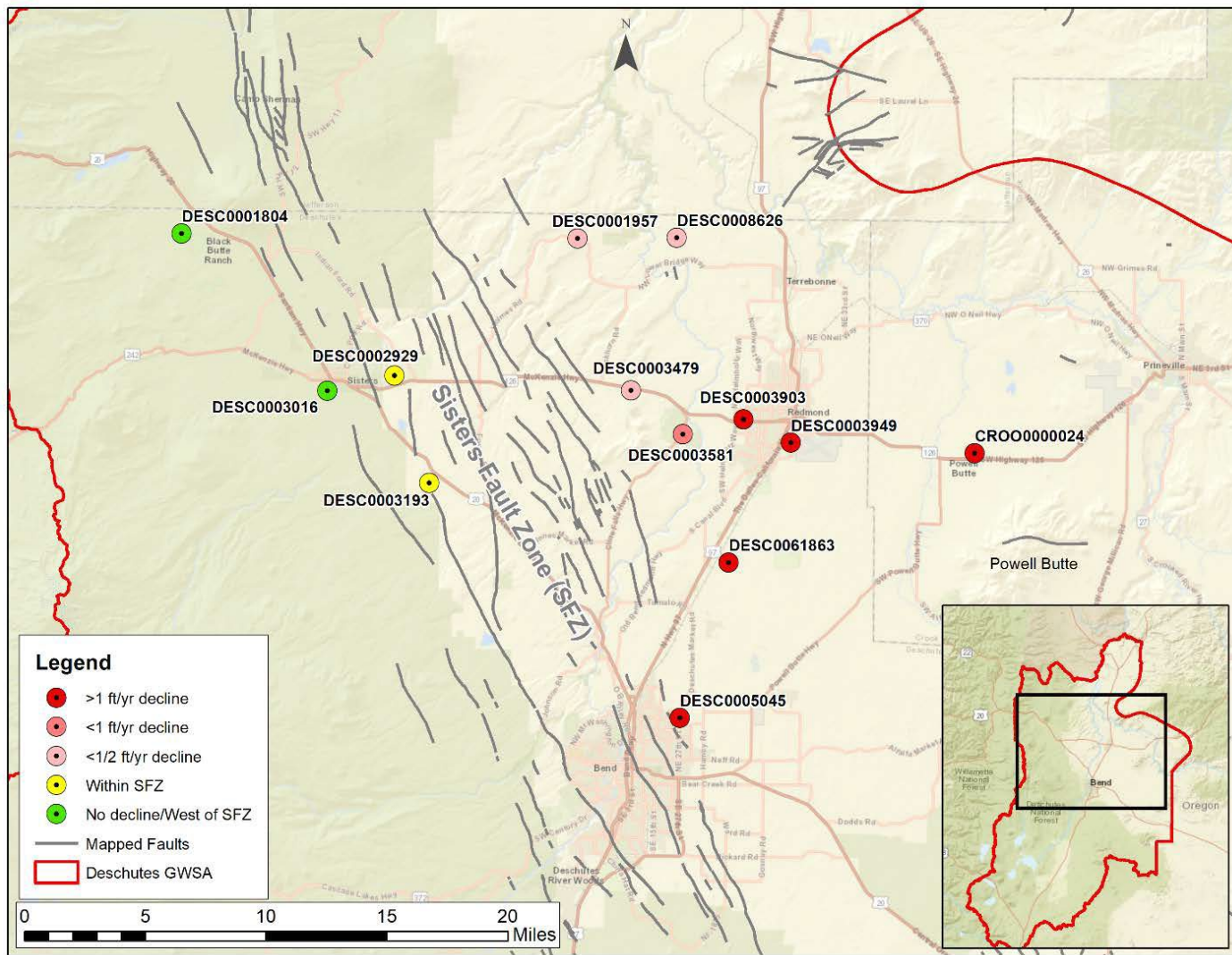
The concern ratings shown on this map reflect the sustainability and restrictions associated with expanded consumptive use of groundwater in a given area. They are not a substitute for a review of a groundwater application to determine availability of water for a specific use. Users of this information should consult the primary report and data to ascertain the usability of the information. This map may not be suitable for legal, engineering, or surveying purposes. OWRD Groundwater Section, 4/20/2021. Projection: Oregon Lambert NAD 83 (EPSG #2992).

- More than 70% of groundwater applications result in a permit
- Approx. 80% of applications in “Areas of Concern” receive permits

# Storage – Reasonably Stable

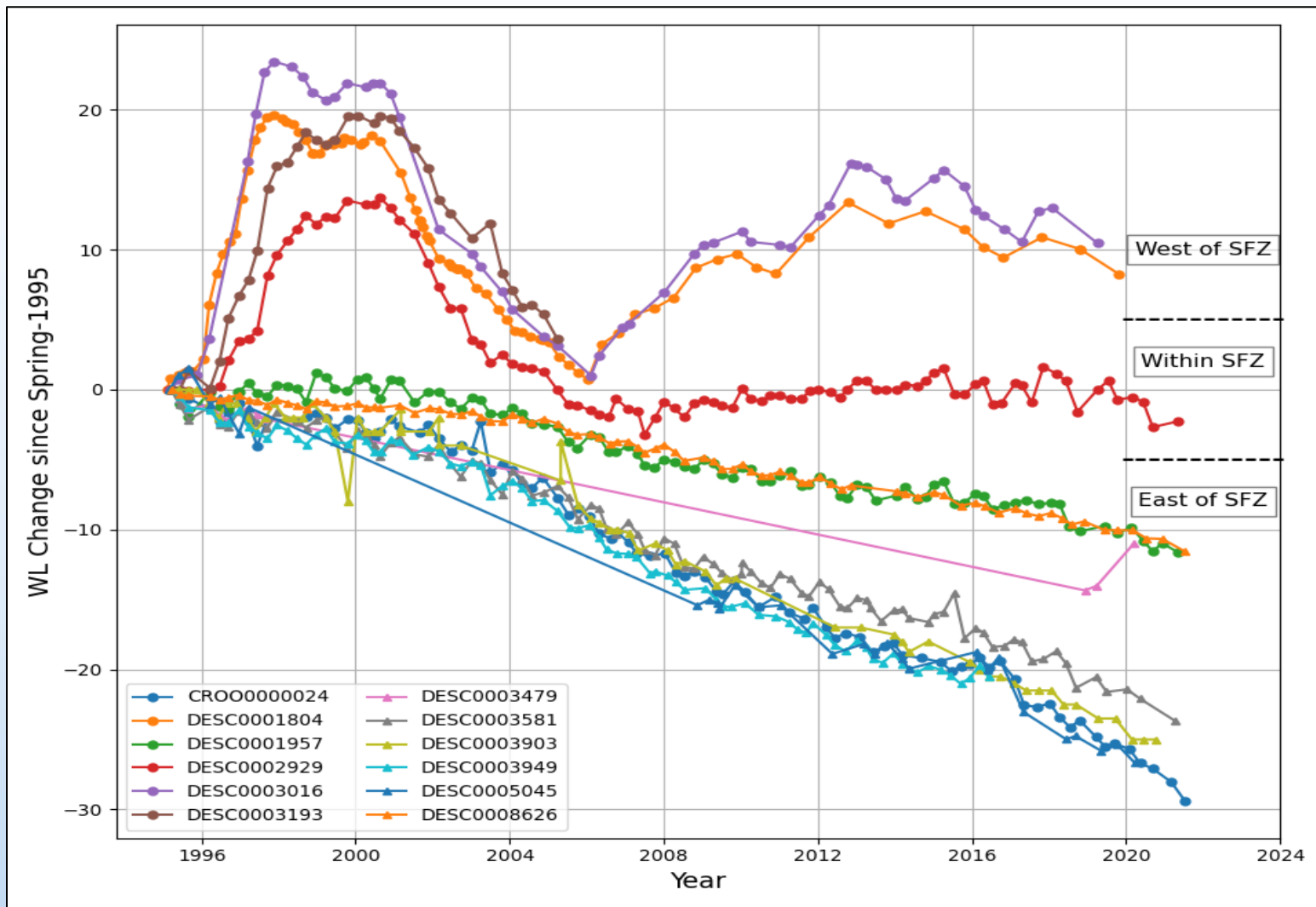


# Storage – Reasonably Stable



Source: O  
Committee

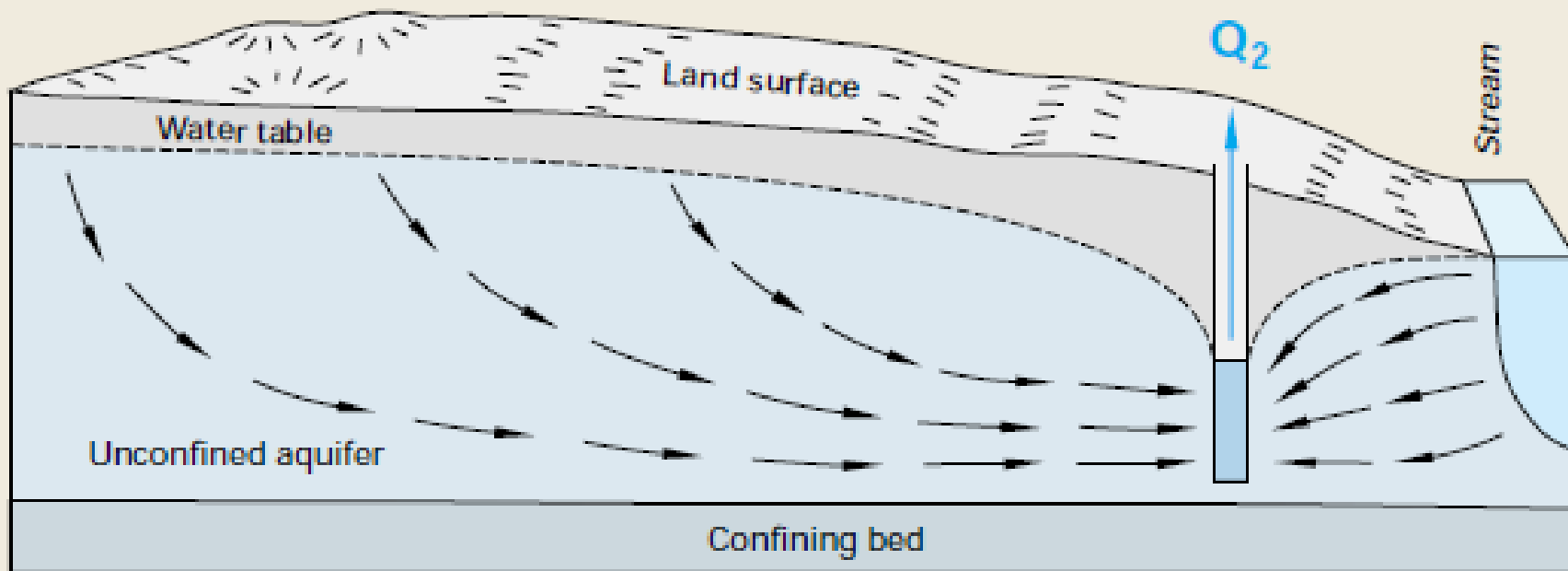
# Storage – Reasonably Stable



# Capture – SW Availability

Over-appropriation defined in Div 400(11)(a)“(B) ... or results in the further depletion of already over-appropriated surface waters.”

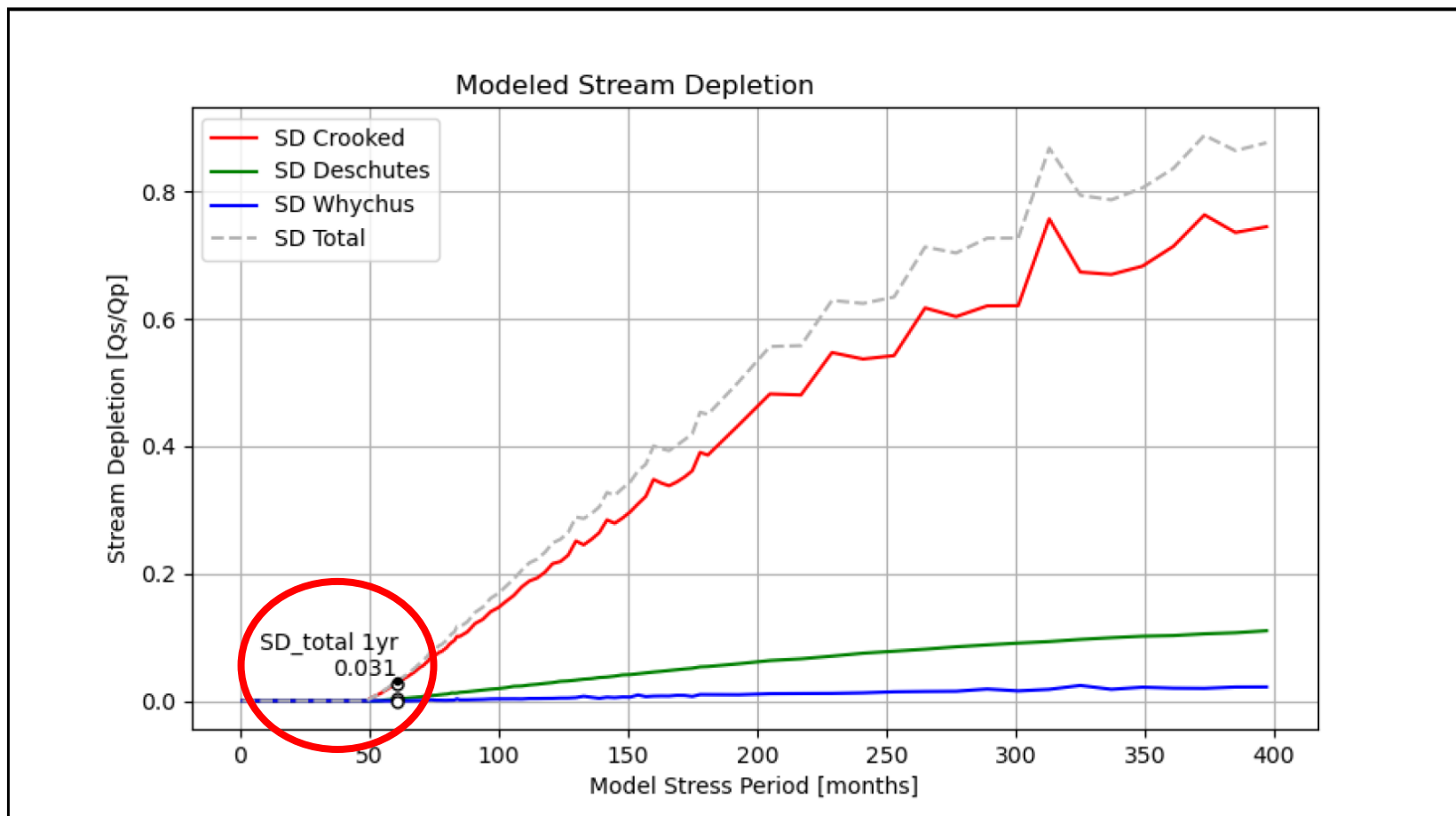
C



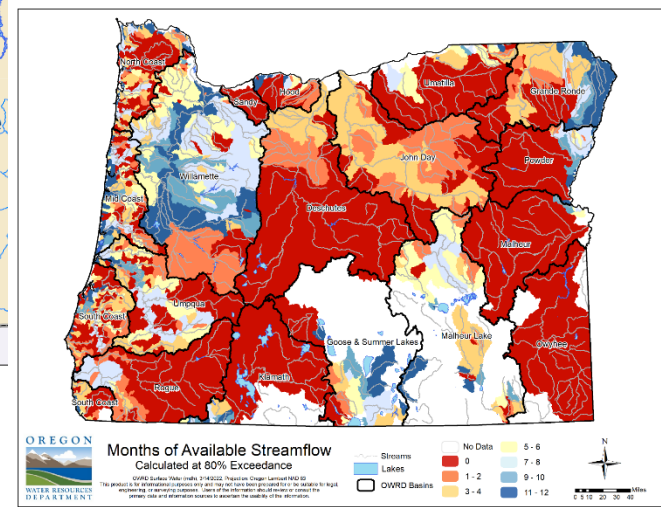


# Capture – SW Availability

Figure 1: Stream-depletion curve, pumping starts at month 49 and continues at a constant rate for 29 years until the end of the model scenario (month 397).

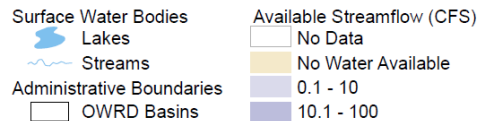


# Capture – SW Availability

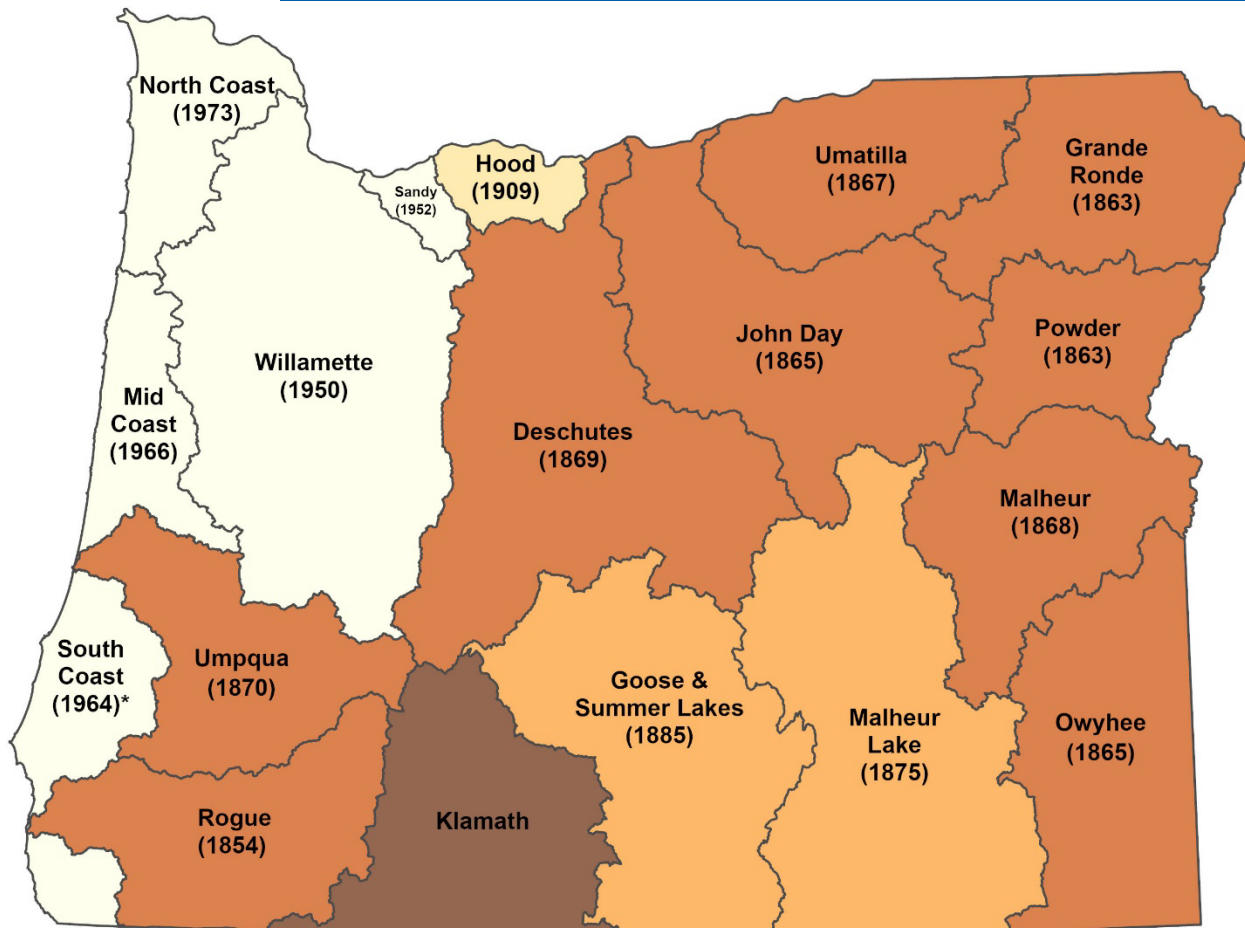


## August Available Streamflow Calculated at 80% Exceedance

OWRD Hydrographics (msh), 11/5/2018. Projection: Oregon Lambert NAD 83  
This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.



# Capture – Regulation History



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



Surface Water regulation by administrative basin

Time Immemorial (most senior water right)

- 1854 - 1870
- 1871 - 1885
- 1886 - 1912
- 1913 - 1976

\*Regulatory years fall outside standard years selected for this map.

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

Map prepared by OWRD GIS (rh), 9/26/2022  
(state\_2022\_SWregulationdatebyAdminBasin.aprx)

**DISCLAIMER**

This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

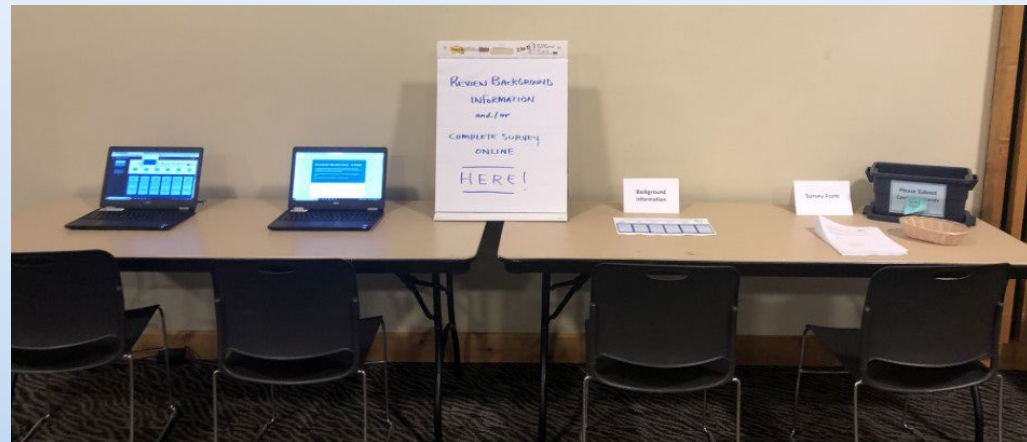




# Input Summary and Survey Responses

# Meeting Input and Feedback

- Feedback sought in multiple ways:
  - During public meetings - questions answered; oral and written comments collected; written surveys collected
  - After the meetings - online surveys and written comments collected (through Oct 25th)
  - Accepted phone and email feedback



# Input Summary - Hopes

- Transparent rulemaking process
- Diverse representation of interests and geographies on RAC
- More one-page summaries of issues and process steps

## Consider:

- Public impacts
- Statewide interests
- Local conditions
- Vulnerable communities
- Rural communities
- Fish, wildlife, GDEs, in-stream rights

# Input Summary - Concerns

- Statewide Rules vs Local Variations that affect impacts of GW development
- \*Exempt Use vs Permitted Use in the future
- \*Apps currently pending (won't be affected by new rules)
- Need for Legislative action, not just rule making
- Deschutes Mitigation Program is
  - Working, don't change
  - Not working, change
- Drought/short term permits

# Input Summary – Data and Info

- Minimal data, and
- Default decision where impact “cannot be determined”
- Gather more groundwater level data (obs wells)
- Consider climate change projections
- Create data and information communication tools (maps, real-time data)



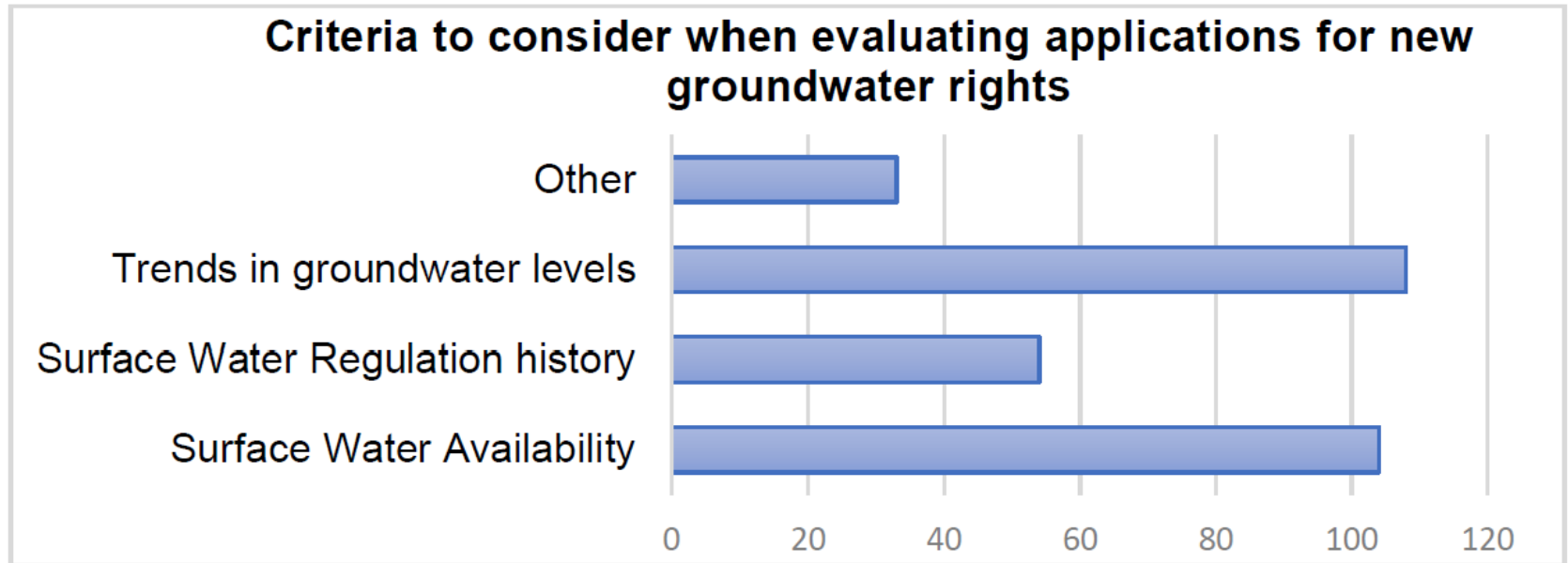
# Input Summary – Bonus

## Support/Develop:

- Water conservation and efficiency
- Artificial groundwater recharge
- Defined mitigation program(s)



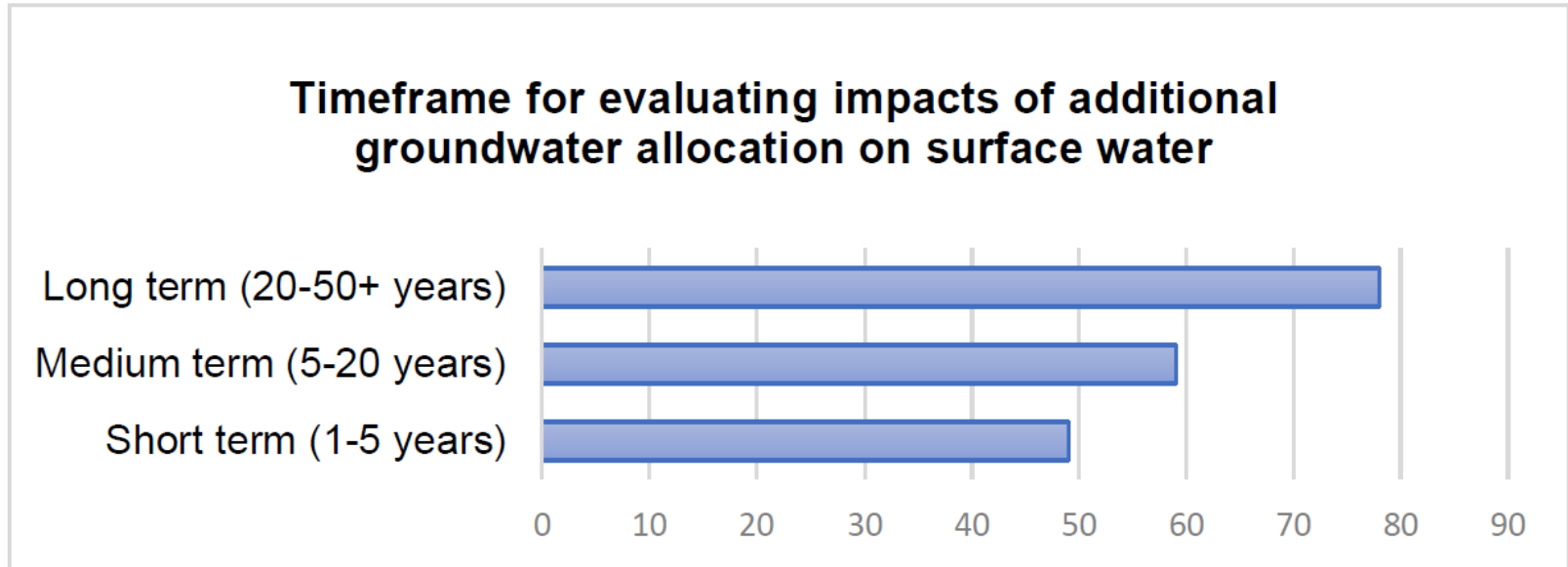
# Survey Responses - Criteria



*Figure 5. Criteria the Department should consider when evaluating applications for new groundwater rights survey question results.*

110 survey respondents to this question

# Survey Responses - Timeframe



*Figure 6. Timeframe for evaluating impacts of additional groundwater allocation on surface water survey question results.*

111 survey respondents to this question

# Survey Responses - Other

## *Consider Climate Change?*

- Majority “Yes”
- Some “No”

## *How to deal with Insufficient Information?*

- Most said “decline” (apply precautionary principle) or request “more information” from applicant
- Others said “issue”



# Next Steps



## Updated Rulemaking Timeline

- Develop draft rules taking public input into account
- Continue consultation/discussion with GWAC
- Appoint RAC in Spring 2023
  - Multiple RAC meetings anticipated
- Proposed adoption September/October 2023



Thank you.

