

# House Bill 2018 Update



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# House Bill 2018 (2021)

- Develop groundwater budgets for all major hydrologic basins in Oregon
- Publish statewide recharge study
- Report on statewide consumptive water use and evaporation
- Expand the ground water level monitoring network
- Help the public better understand and engage with water data development efforts

# Components of a Groundwater Budget

## Examples

### Recharge:

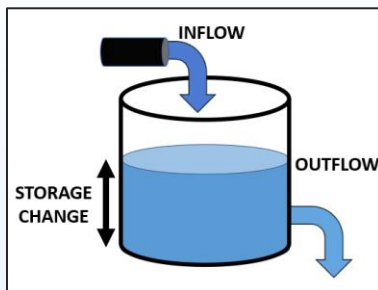
- Precipitation and infiltration

### Discharge:

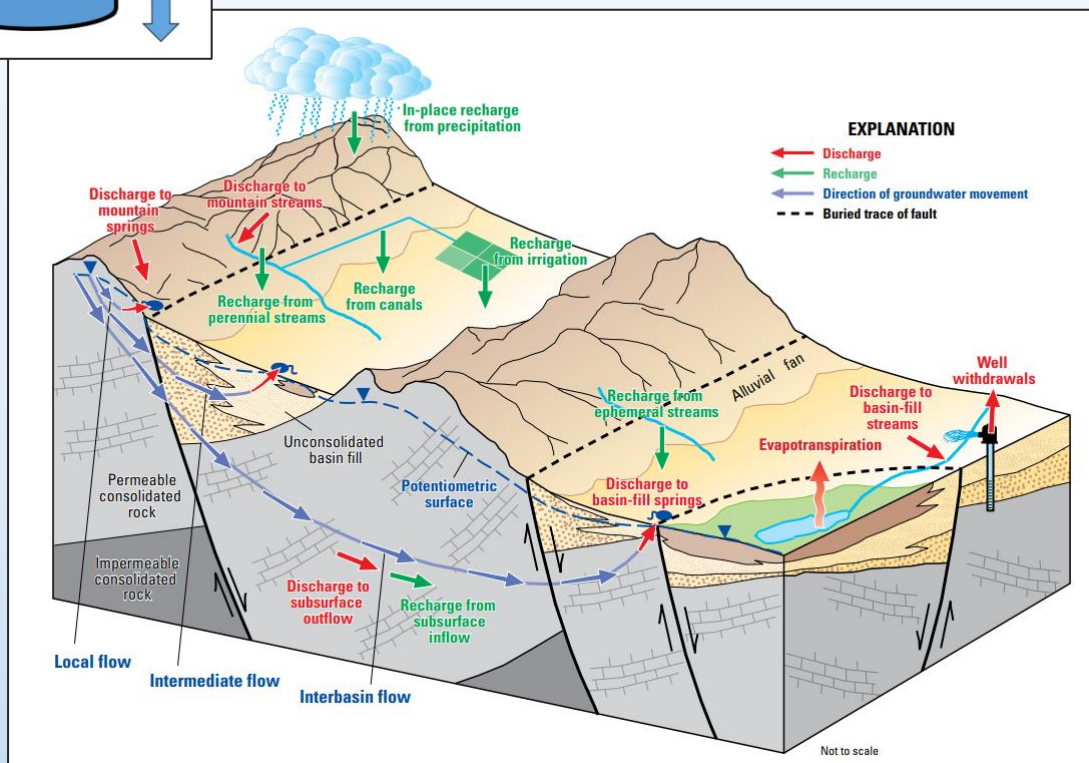
- Rivers & Springs
- Groundwater use

### Change in Groundwater Storage:

- Well level declines



$$\text{Change in Groundwater Storage} = \text{Inflow (Recharge)} - \text{Outflow (Discharge)}$$



# Statewide Recharge Project

Phased cooperative study with USGS to model components of groundwater budget

## **Groundwater discharge (baseflow):**

- >3000 water chemistry samples collected; collection ongoing
- Report by March 2026 (Phase I)

## **Recharge:**

- Modeled estimates of flow into the groundwater system by 2030 or sooner (Phase II)

*Water chemistry samples*

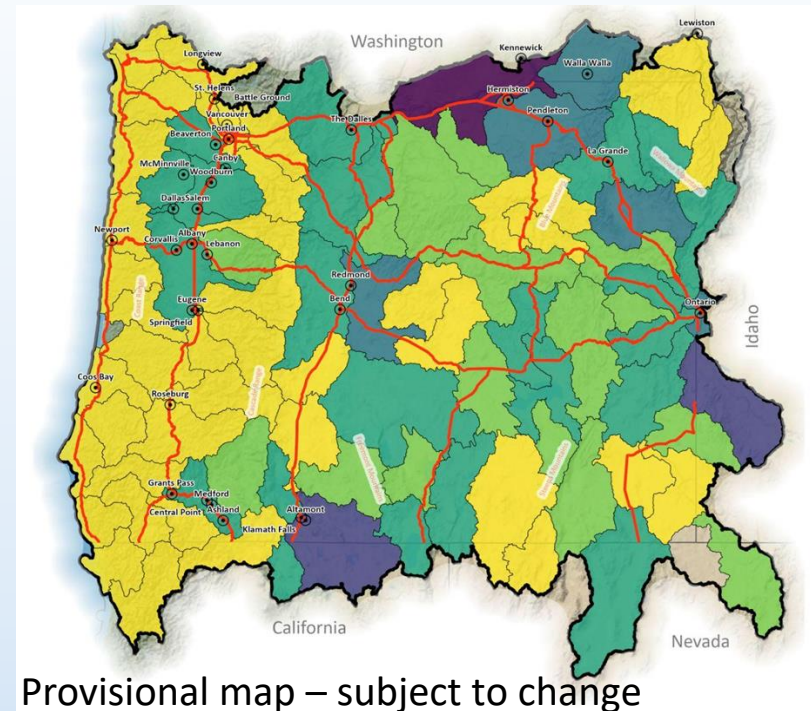


*Catherine Creek at Union gage*

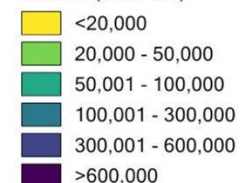
# Statewide ET Project

- Statewide database (1985-2022)
  - Field-scale consumptive use from irrigated ag
  - Watershed summaries
  - Open Water Evaporation
- Draft Statewide Consumptive Water Use Report
- Trainings for staff

Consumptive Use Volume Map



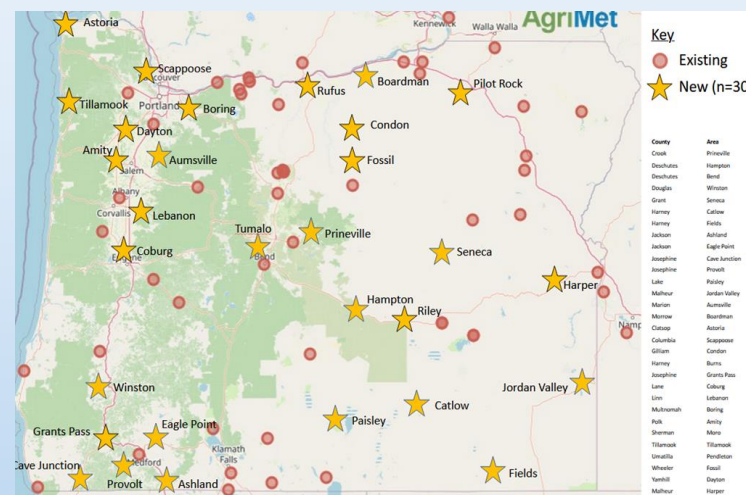
1985-2022 Average Annual ET Volume (acre-feet)



# Collaborating for ongoing ET estimates and outreach

Leveraged investment in ET data to partner with OSU on:

- 30 new AgriMet stations
- Continued ET data production from OpenET
- Engage with OSU on ET Technical Advisory Group



# Observation Well Network Expansion

- 5 new wells drilled since 2021 (~\$1M)
  - Rogue, Umatilla, and Walla Walla basins
- 3 retrofits, repairs, or cleanouts (~\$25K)
  - Willamette, Rogue, Harney
- Evaluating 7 additional projects
- Ongoing challenges:
  - High cost (\$500+ per foot for new wells)
  - Lack of driller availability
  - Limited to no response to RFPs

# Recent Public Engagement

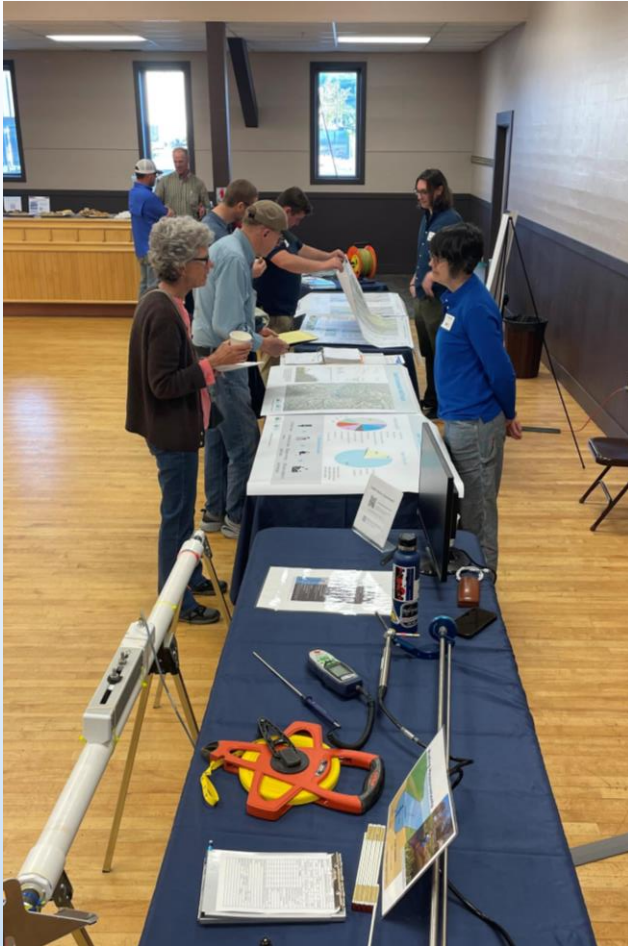


- Hired three engagement coordinators
- Listened, developed relationships, started engagement
- Example outcomes:
  - Siting of new Agrimet Stations and some stream gages
  - Groundwater study events in the Walla Walla basin
  - Informational sessions, radio appearances, place-based planning, and more in the Harney Basin
  - Draft best practices for community engagement

Picture: Agrimet installation near Grants Pass, confluence of the Applegate and Rogue Rivers



# Public Engagement to Come



- Continue current engagement efforts
- Co-design regional events/meetings with local leaders
  - Convene 2-3 initial meetings in late 2024 and early 2025
  - Glean lessons from initial meetings
  - Expand meetings statewide, but tailored to the specific needs and interests of the region

Picture: May 2024 Groundwater study event in Milton-Freewater

# Thank you

