WeSPAM Updates and Objectives

Presented by Megan Clark, P.G. and Ryan McCutcheon

Modeling Technical Advisory Committee Meeting

October 26, 2026

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Additional data obtained, collected, and planned for collection

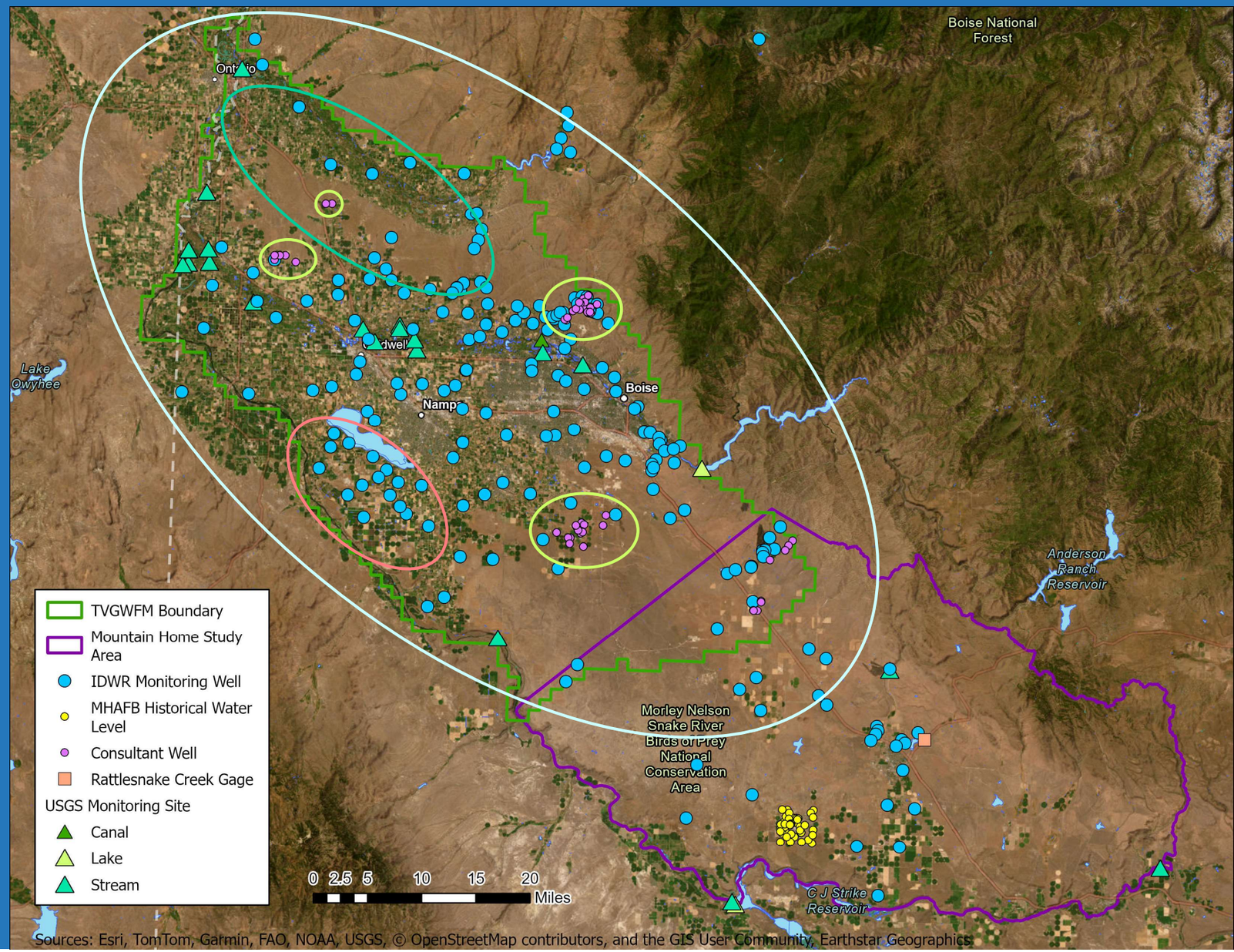
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Consultant groundwater levels

Monitoring wells and data loggers south of Lake Lowell

Monitoring wells and data loggers in Payette Valley

Treasure Valley synoptic!!!



Treasure Valley Synoptic

Scope: Measure groundwater levels at ~600 wells in the Treasure Valley and Payette Valley in the fall of 2026, and spring and fall of 2027

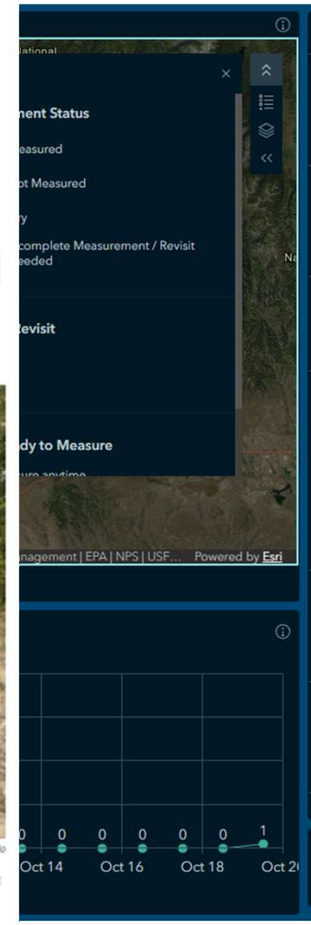
- IDWR, the USGS, Veolia, City of Meridian, and City of Nampa

Purpose:

- Determine current groundwater levels and flow direction
- Characterize long-term and seasonal changes
- Inform development of WeSPAM
- Aid water-supply planning and management







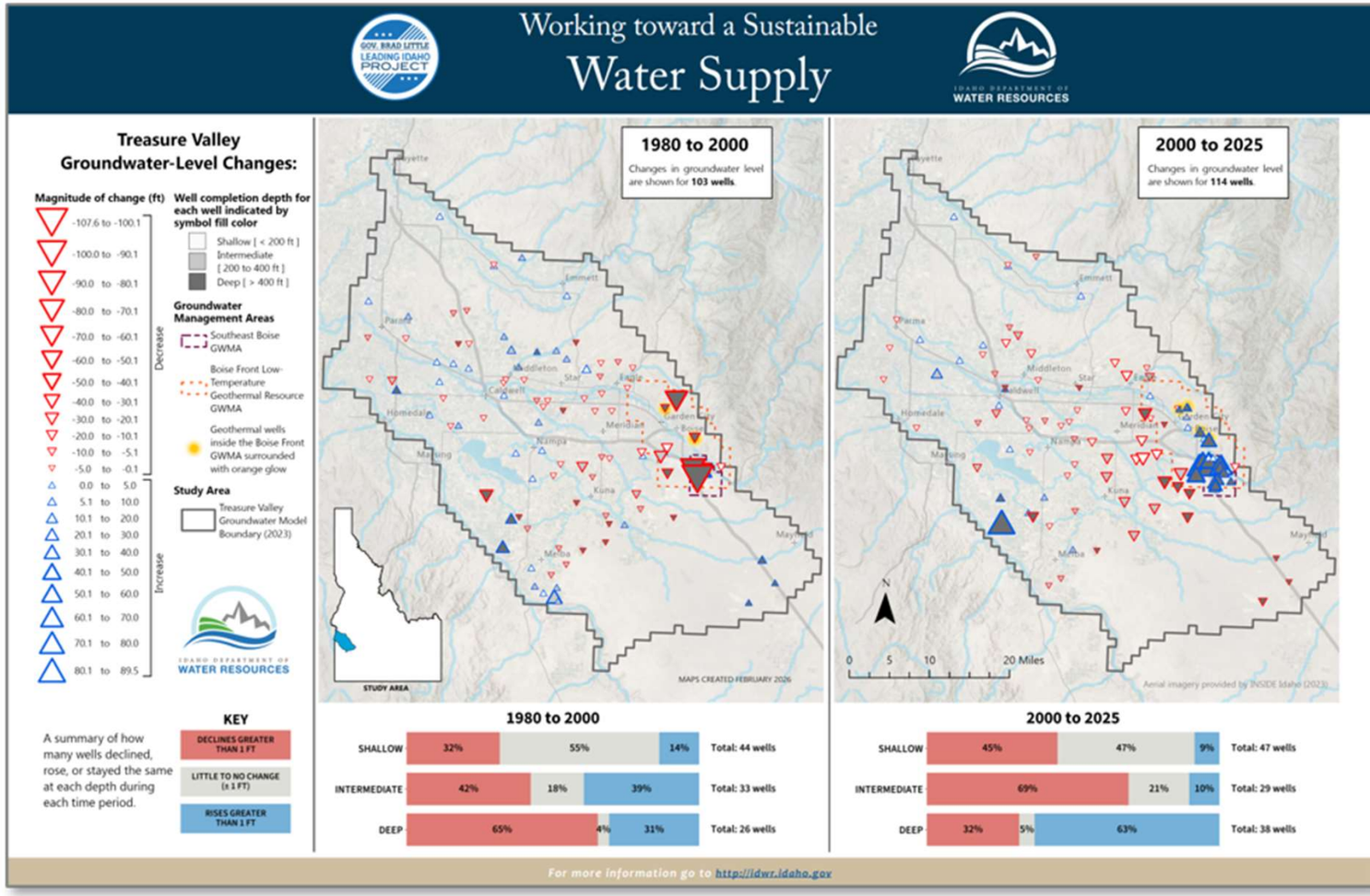
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Treasure Valley Synoptic

Fall 2026 Measurement Results:

- USGS – 292
- IDWR – 182
- Estimate from City of Meridian, City of Nampa, and Veolia – 145
- **Estimated Total – 619**

All collected data will be posted to IDWR's Groundwater Data Portal over the coming months.



Development of Model Objectives

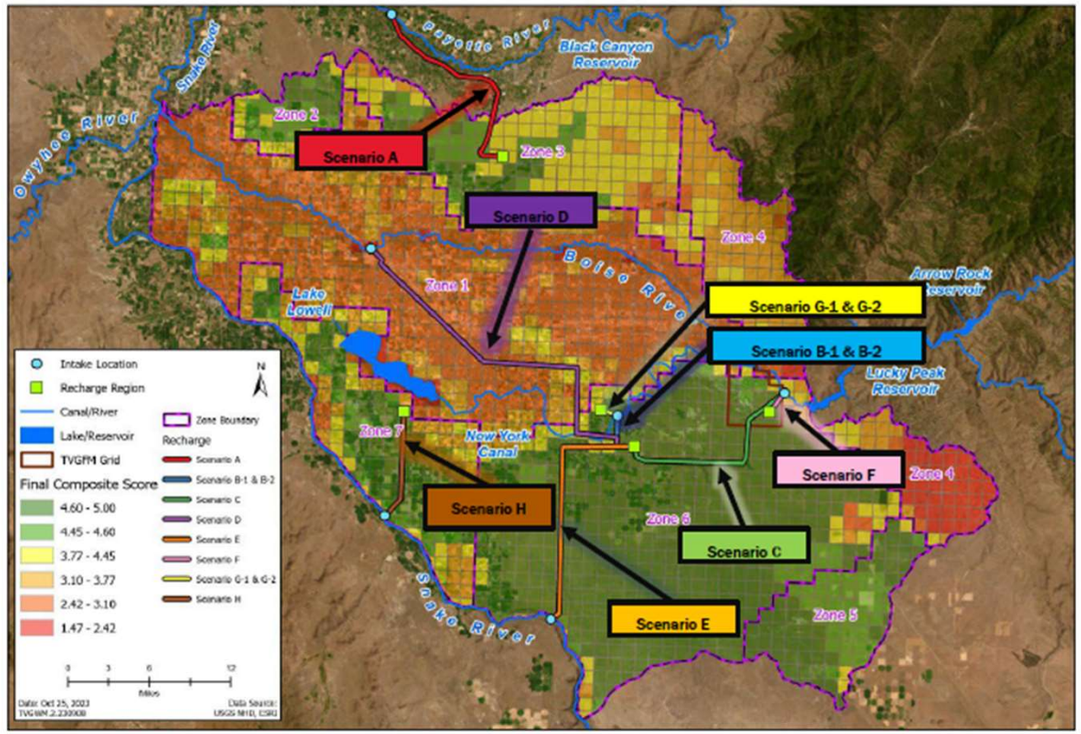
- USGS will run two model scenarios during model development
- Model capabilities will not be limited to these scenarios – MTAC feedback is valuable to identify what matters to you

As a reminder, objectives should be:

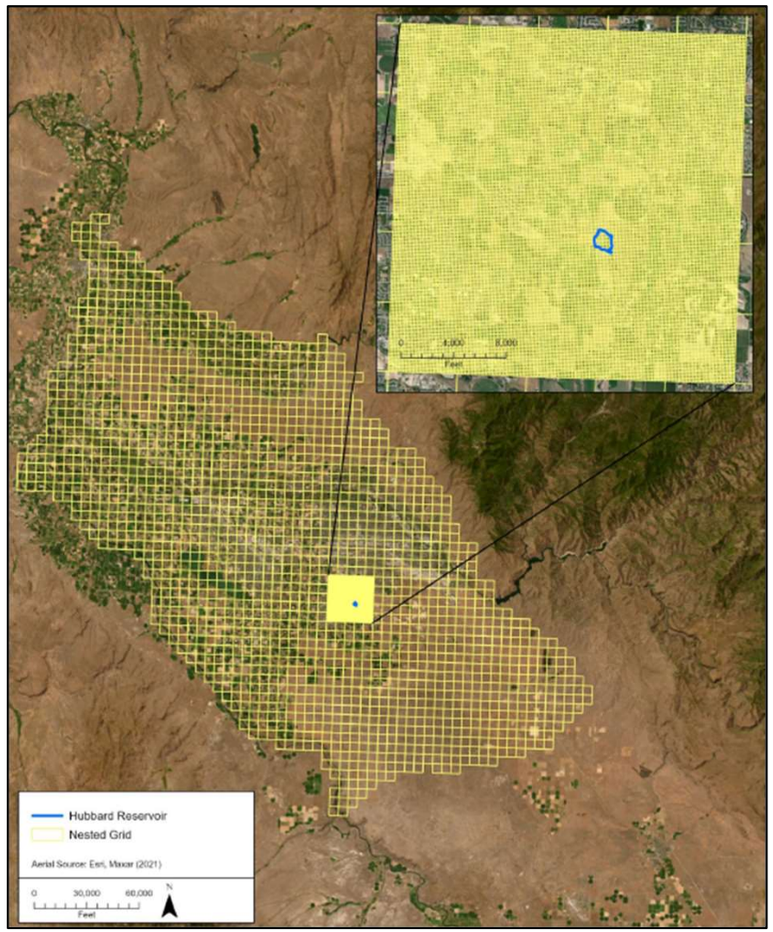
1. Identified early
2. Specific
3. Guide model complexity
4. Relevant

TVGWFM Uses – Aquifer Recharge

Assessment of MAR scenarios



Treasure valley MAR scenarios for IWRB (Brown and Caldwell, 2024)



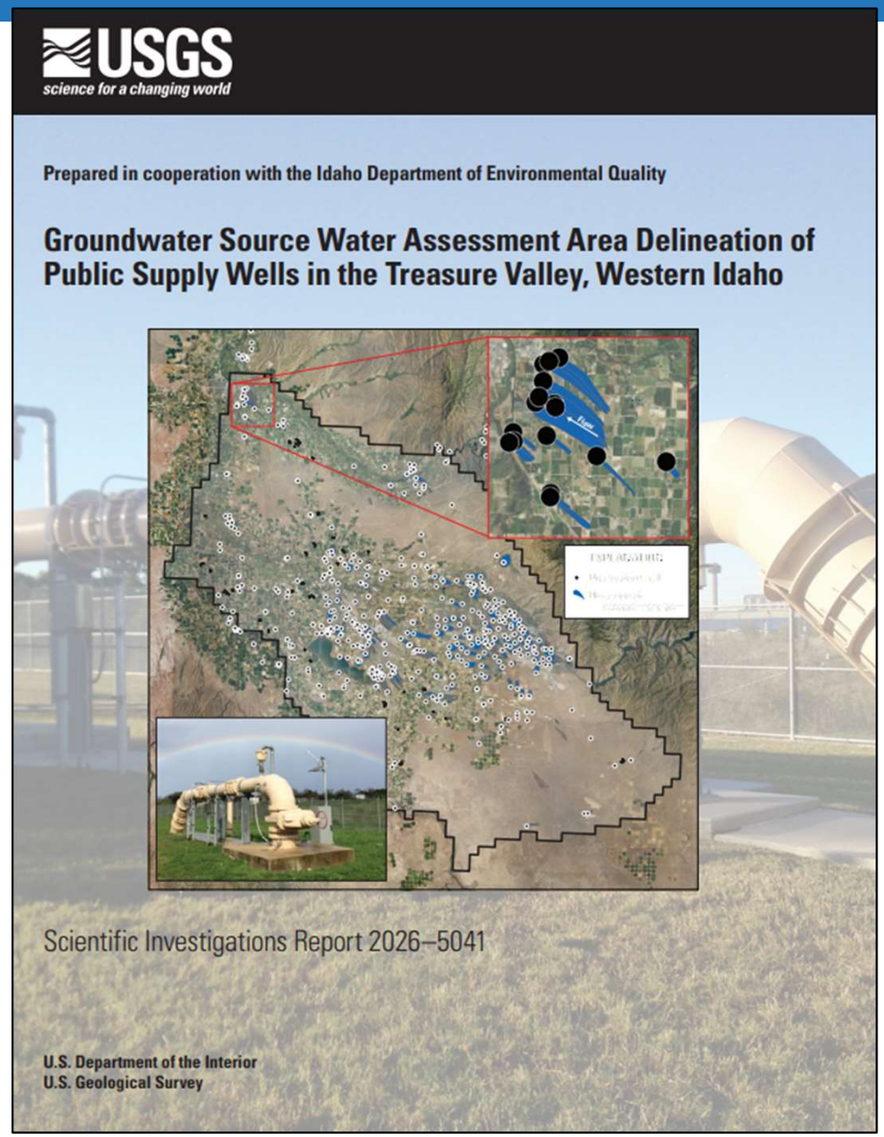
Hubbard Reservoir MAR scenario refinement area for Ada County (Integral, 2025)

Also:

- Recycled water recharge assessment (City of Boise)

Other TVGWFM Uses

- USGS/IDEQ source water assessment area modeling – used TVGWFM as base model
- IGS/IDEQ nitrate modeling – used aquifer properties from calibrated model, extracted GW flow rates
- IWRRI/IDWR - Boise River response functions for water administration



Report cover for USGS/IDEQ source water assessment modeling (Skinner at al., 2026)

Two Questions

1. How else is the TVGWFM currently used?

2. How would you like to use WeSPAM?



Questions?

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