



Oregon

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OWRD's Surface Water Information Modeling System (SWIMS)

Technical Advisory Group Meeting #3

Date: April 7th, 2026

Time: 9:00 – 11:00 am

Location: Virtual

Zoom Meeting:

<https://zoom.us/j/94470983003?pwd=4Uf09lKzHVW9YzBFla1rKdHnjBTfsA.1>

Meeting ID: 944 7098 3003

Passcode: 082351

Meeting purpose:

Share and discuss assessments to evaluate various products and techniques for establishing the modeling framework for SWIMS, including decisions related to the geospatial framework, modeling approaches, and how climate trends influence water availability.

Meeting goals:

1. Share and discuss findings from additional assessments to address feedback from the previous TAG meeting.
2. Discuss alternative products that may provide the geospatial framework for SWIMS.
3. Evaluate various approaches for modeling natural streamflow in ungaged watersheds.
4. Discuss the influence of climate trends on water availability, how it influences modeling, and the considerations for maintaining water availability information.

Agenda and discussion questions:

1. Welcome (9:00 – 9:05)
2. Meeting purpose and ground rules review (9:05 – 9:10)
3. Recap previous meeting (9:10-9:20)
 - a. Groundwater use metrics for disturbance index
 - i. Can our understanding of GW use in terms of gage selection help avoid the need for evaluating streamflow depletion?
 - b. Identifying shorter, climate-normal periods within overall base period

- c. Climate trend assessment
 - d. Other naturalized flow data sets
 - i. How can other naturalized flow data sets (e.g., Klamath) be used to support SWIMS?
4. Investigations to support stream gage selection (9:20 – 10:00)
- a. Establishing the geospatial framework
 - i. How does data availability constrain the ability to model at various scales?
 - ii. Do any products provide more stability in terms of their technical support or consistency with hydrologic modeling efforts and other data products?
 - b. Environmental data and watershed characteristics as predictor variables
 - i. What should we be aware of in terms of differences between climate data sets?
 - ii. Is the use of derived variables in modeling supported by the scientific community?
 - iii. Are there any data sets or variables that you recommend?
 - iv. Do you have any suggestions for approaches on identifying key predictor variables?
 - c. Modeling approaches for estimating natural streamflow
 - i. Do any approaches offer significant advantages over others and is there an approach we have not considered?
 - ii. How should regionalization be factored into the modeling approach?
 - iii. How do methods like principal components analysis and forward/backward selection support selection of predictor variables?
 - iv. What types of model selection criteria should be applied?
 - d. Assessment of climate trends and impacts on water availability
 - i. How often should data be updated and the model be re-calibrated to adapt to climate trends?
5. Discussion (10:00 – 11:00)