

An aerial photograph of the Cincinnati skyline, Ohio, featuring various skyscrapers and the Ohio River in the foreground. A blue semi-transparent box is overlaid on the left side of the image, containing white text.

Southwest Ohio Regional Water Study (RWS)

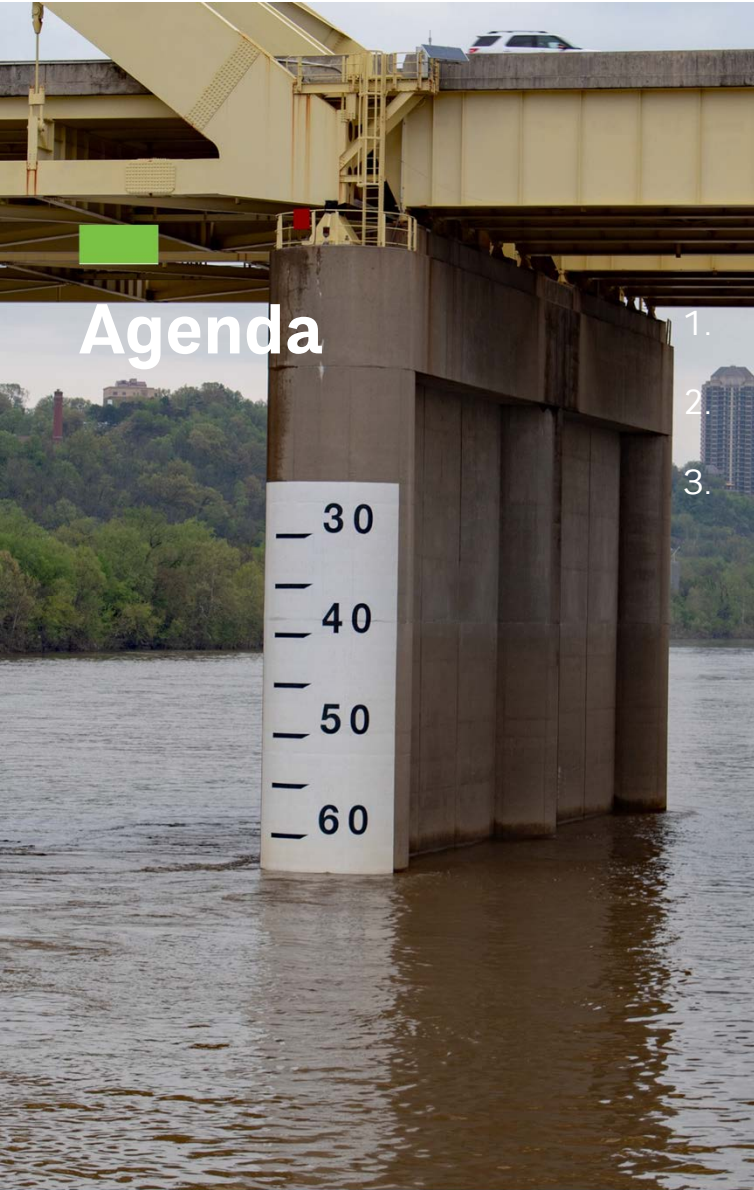
OWDA, Ohio EPA, and ODNR



MVRPC – May Water & Environment Sub-Committee Meeting

May 13, 2026

**CDM
Smith**

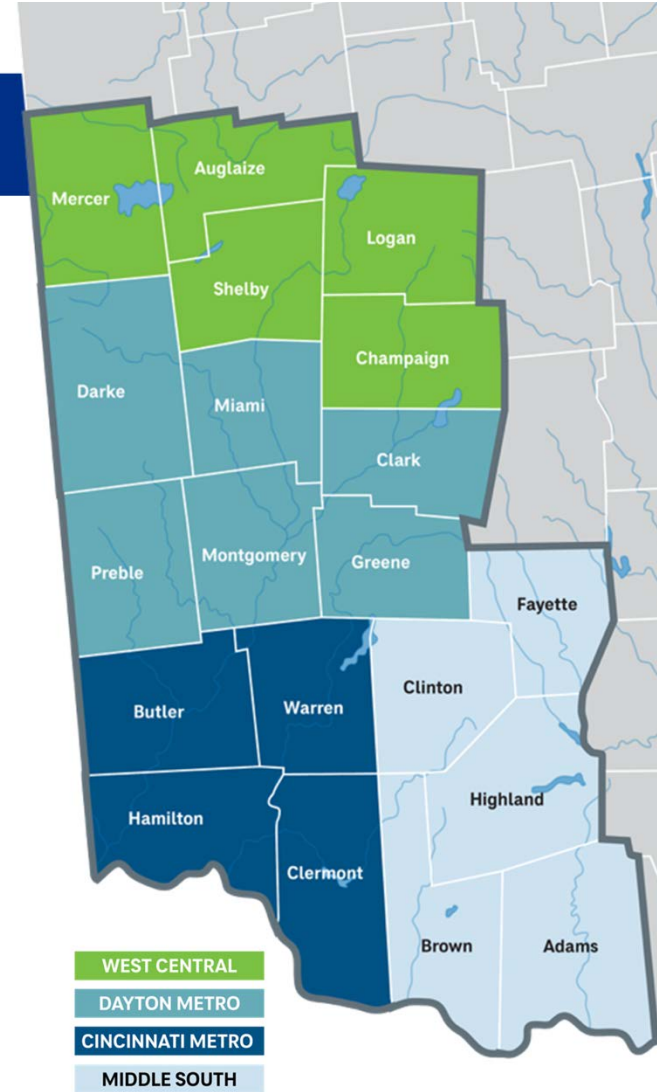


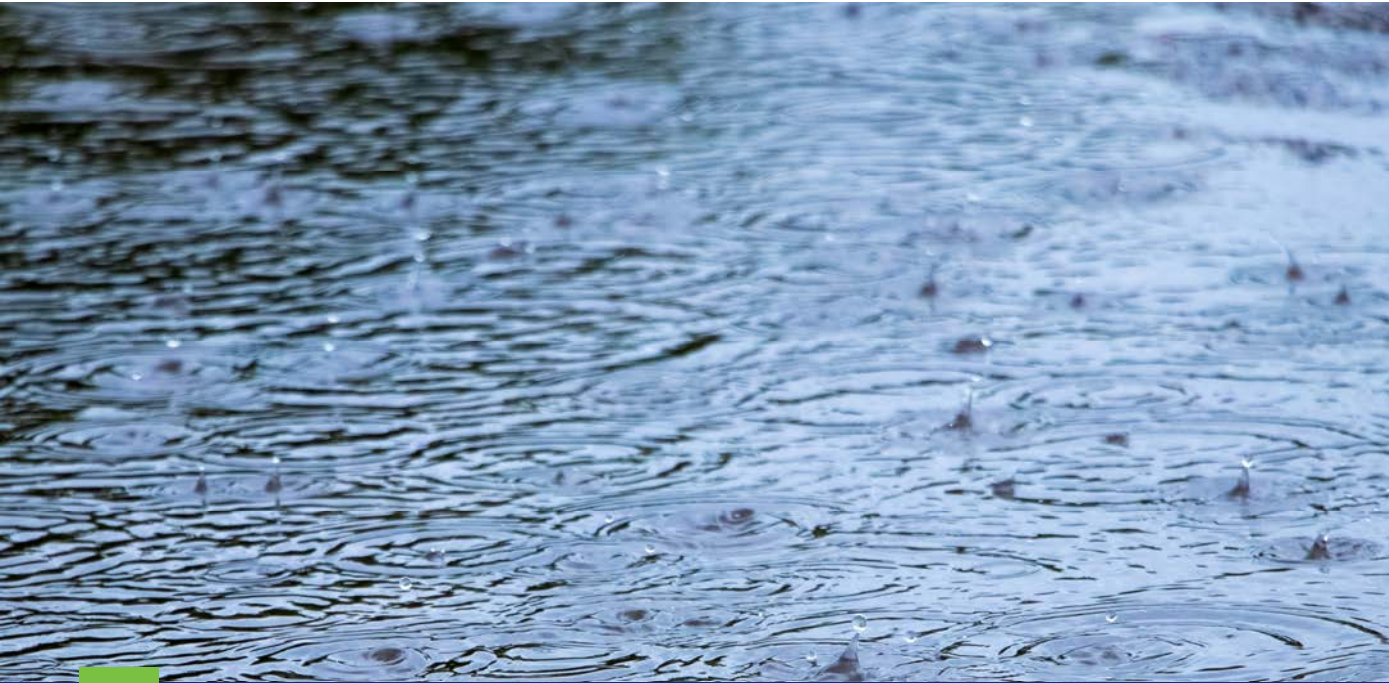
Agenda

- 1.
- 2.
- 3.

SW Study Area

- Project Update
- WIT (Integrated Model) Demo
- What's Next





Project Update





Project Schedule



Q1

Gather Data and
Connect with
Stakeholders



Q2

Water Budget,
Modeling and
Develop Scorecard



Q3

Scenario
Modeling and
Gap Analysis



Q4

Recommendations/
Communications

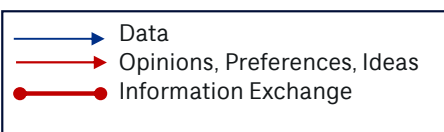
11/25 to 1/26

2/26 to 5/26

6/26 to 8/26

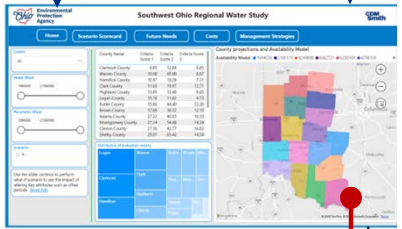
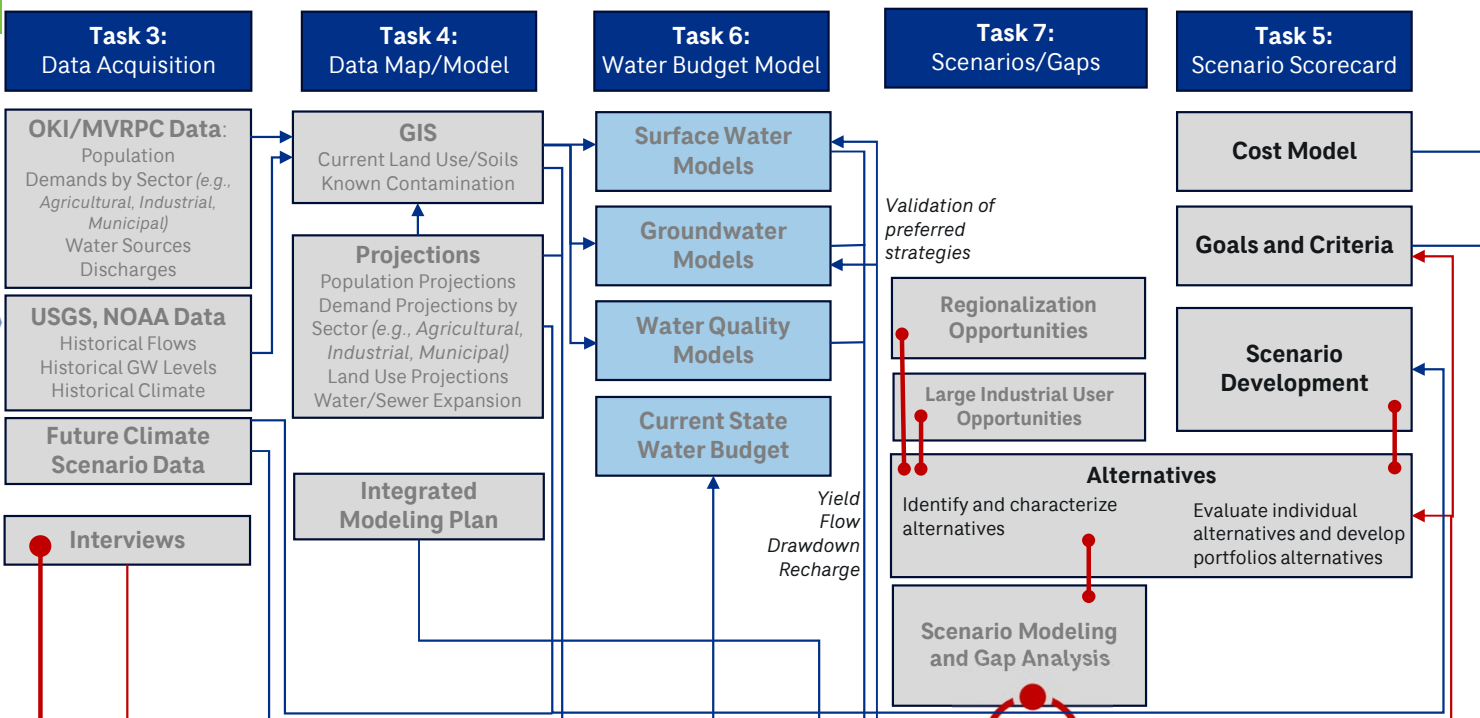
9/26 to 11/26

Information Flow Diagram: SW Ohio Regional Water Plan

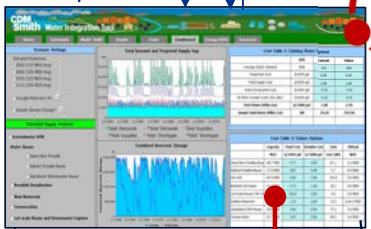


Main Subtasks

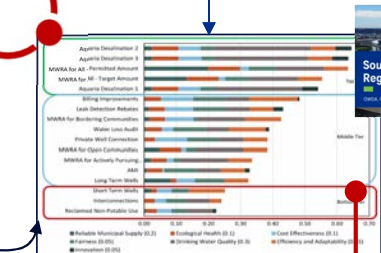
Key Work Products



Information Dashboard



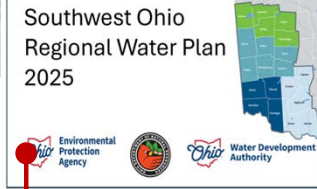
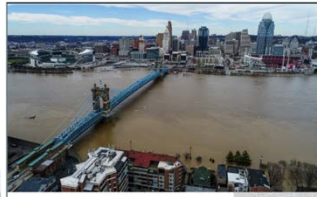
Water Integration Tool



Alternatives Scorecard



Outreach Materials



Regional Water Plan



Inputs

Water Users and Climate Conditions

- Withdrawals
- Discharges
- Climate (temperature and precipitation)

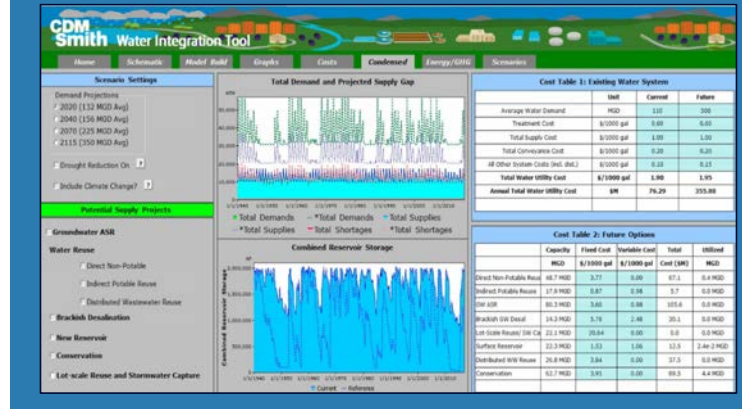
Surface Water Models:

- Quantify relationships between:
- Streamflow patterns and land use changes
 - Streamflow patterns and future climate
 - Infiltration patterns and land use and climate conditions

Groundwater Models:

- Under different climate/land use scenarios:
- GW safe yield
 - Groundwater/surface water exchange

WIT



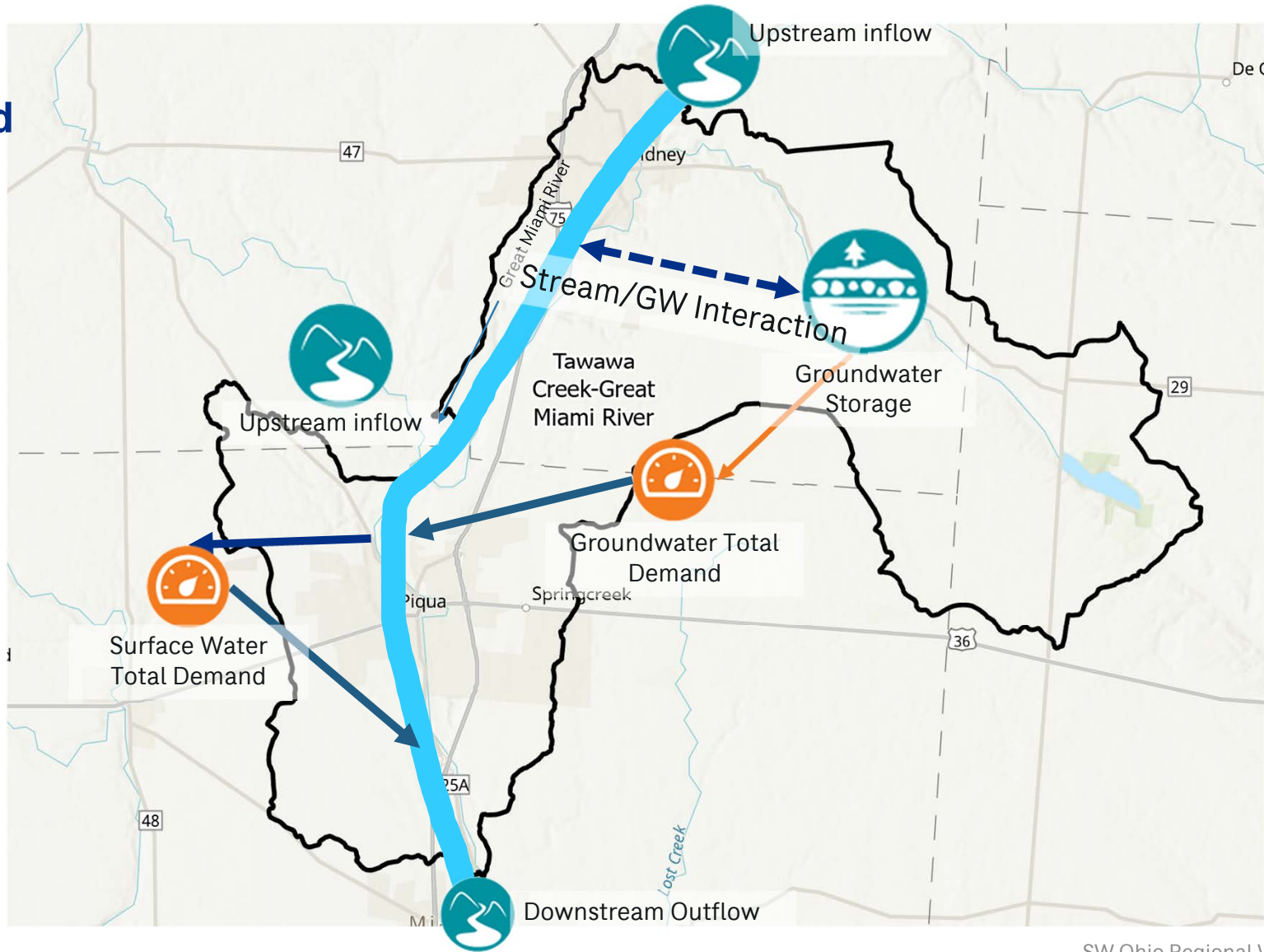
Key Outputs:

- Regional water budget
- Supply gap risks and opportunities
- Assess regional alternatives

Note: Water quality analysis currently stand alone.



Pilot Watershed





WIT Demo





What's Next

- Scaling up pilot HUC-10 to all HUC-10s, linkages between watersheds
- Incorporating demand, land use, and climate scenarios
- Incorporating surface water and groundwater model results
- Calculating supply gaps and estimating baseline areas of risk and opportunity
- Developing and testing regional alternatives



Utility Survey



Survey link in March 3rd e-mail from Elizabeth Baxter:
<https://forms.gle/vPiZgmgjYYt4B9yk8>

Southwest Ohio Regional Water Study Survey

Ohio EPA and Ohio DNR are partnering to facilitate regional comprehensive water studies across the state. The goal of these studies is to evaluate current water availability, water demand, and projected future water demand, as well as plan for the future. The studies aim to build a common vision among Ohio agencies responsible for protecting water resources and promoting economic development by providing science-based water inventories and demand projections so local communities and decision-makers can make informed water scarcity decisions.

In Southwest Ohio, MVRPC is working as part of a team conducting the study across a 20-county area. The study team is engaging with water and sewer providers to collect data and gather input on local and regional water resource issues. Your participation will help accurately reflect local water resource challenges and inform regional planning efforts.

Please complete this survey by March 20, 2026. Some questions may require uploading documents or providing additional context. You may save your responses and return to the survey at a later time, if needed. Data provided will only be used to support development of the Regional Water Study and will not be shared with others outside the study team. If you have already provided any of the data requested below to the study team, there is no need to resubmit data.

If you have questions or comments about this survey, please contact Joe Miller, Ohio EPA Environmental Manager or Elizabeth Baxter, MVRPC Resiliency Planning Manager. Joe can be reached at joseph.miller@epa.ohio.gov or 937-285-6109. Elizabeth can be reached at ebaxter@mvrpc.org or 937-531-6538.

If you have any trouble with this survey form or loading data, please contact Lilly Des Rosiers at desrosierlsc@cdmsmith.com or 614-847-6818.



Thank you

