Southwest Ohio Regional Water Study (RWS)

OWDA, Ohio EPA, and ODNR

MVRPC – March Water & Environment Sub-Committee Meeting

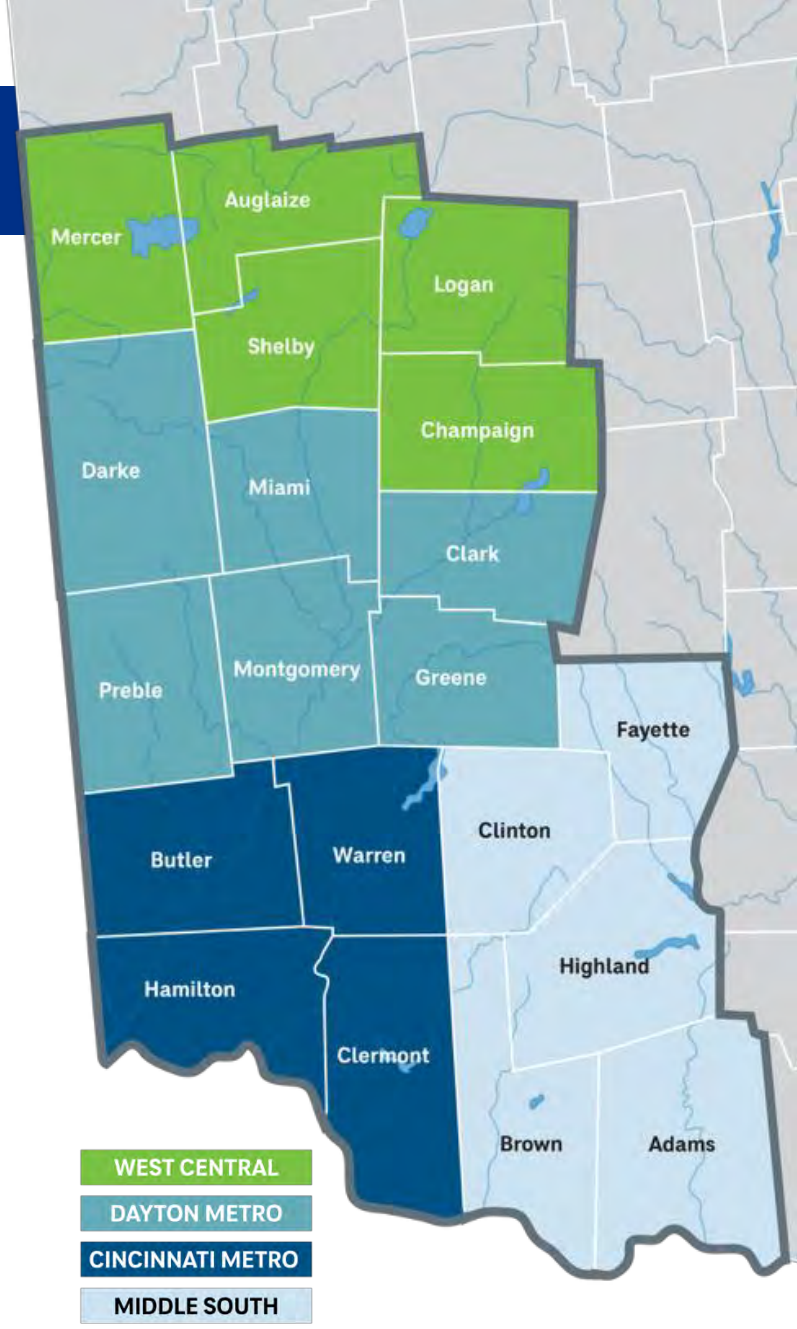
March 11, 2026

CDM Smith

Agenda

1. Data Acquisition & Survey
2. Integrated Modeling Plan
   - Resolution of Spatial Scale
   - Scenario Planning
3. Questions Answered by Models
4. What's Next

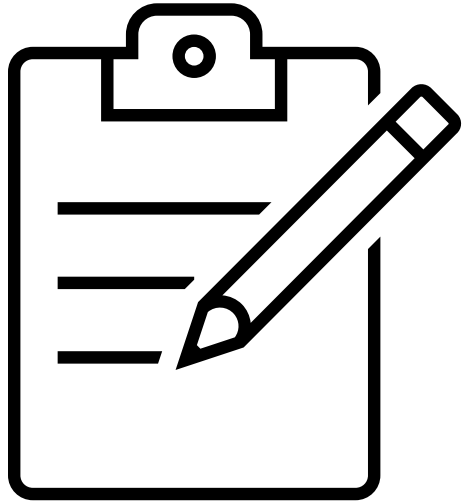
SW Study Area



Data Acquisition and Survey

Utility Survey – Open through March 20th

- **Survey Objectives**:
  - Check current water and sewer service areas against EPA data
  - Consider planned service area expansions
  - Compare and align study-derived demand projections with utility-specific demand projections
  - Receive local perspective on:
    - Water supply availability
    - Water quality
    - Other water resource concerns



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.

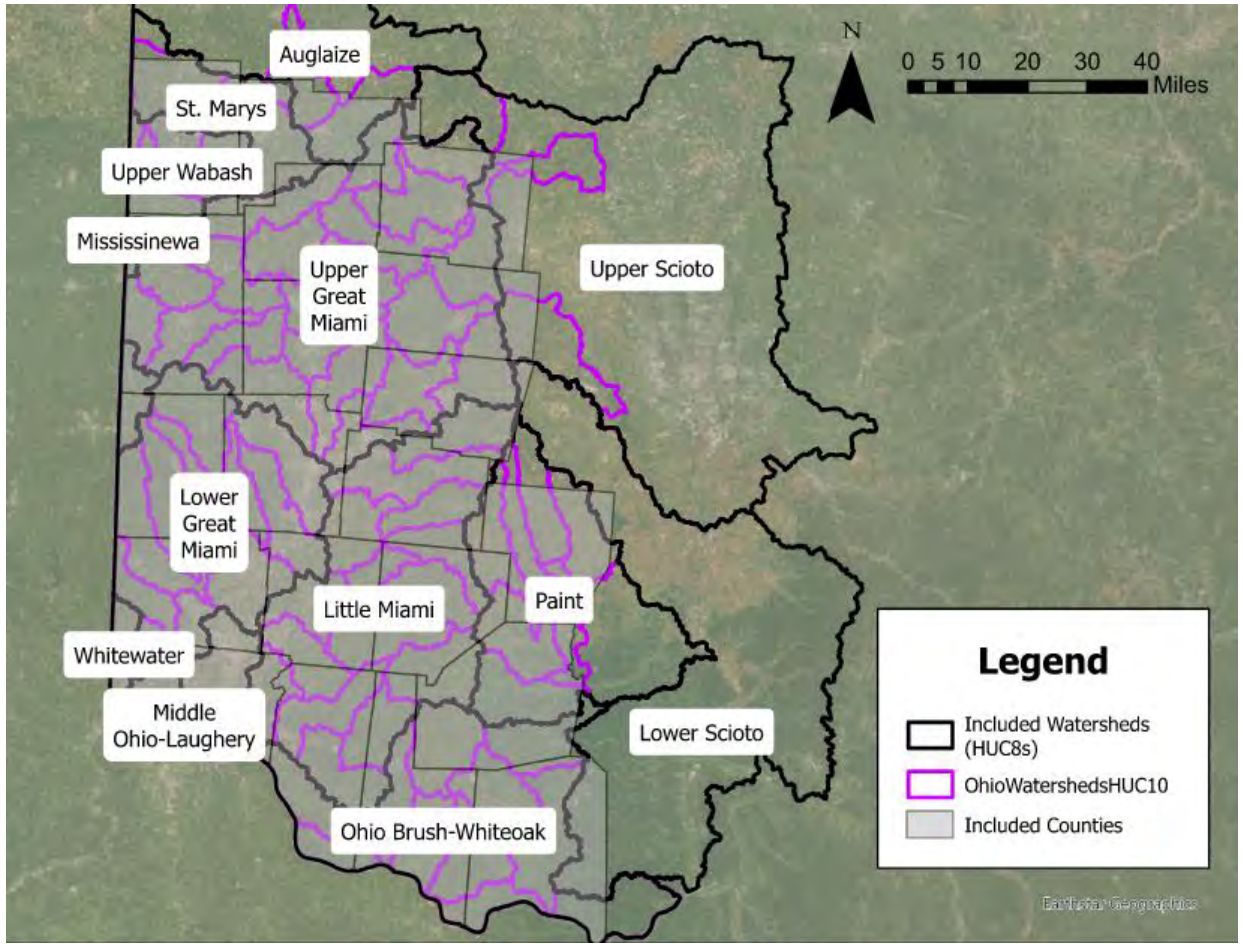
If you have questions or comments about this survey, please contact Joe Miller, Ohio EPA Environmental Manager or Elizabeth Baxter, MVRPC Resiliency Planning Manager. Joe can be reached at joseph.miller@epa.ohio.gov or 937-285-6109. Elizabeth can be reached at ebaxter@mvrpc.org or 937-531-6538.

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.

Integrated Modeling Plan

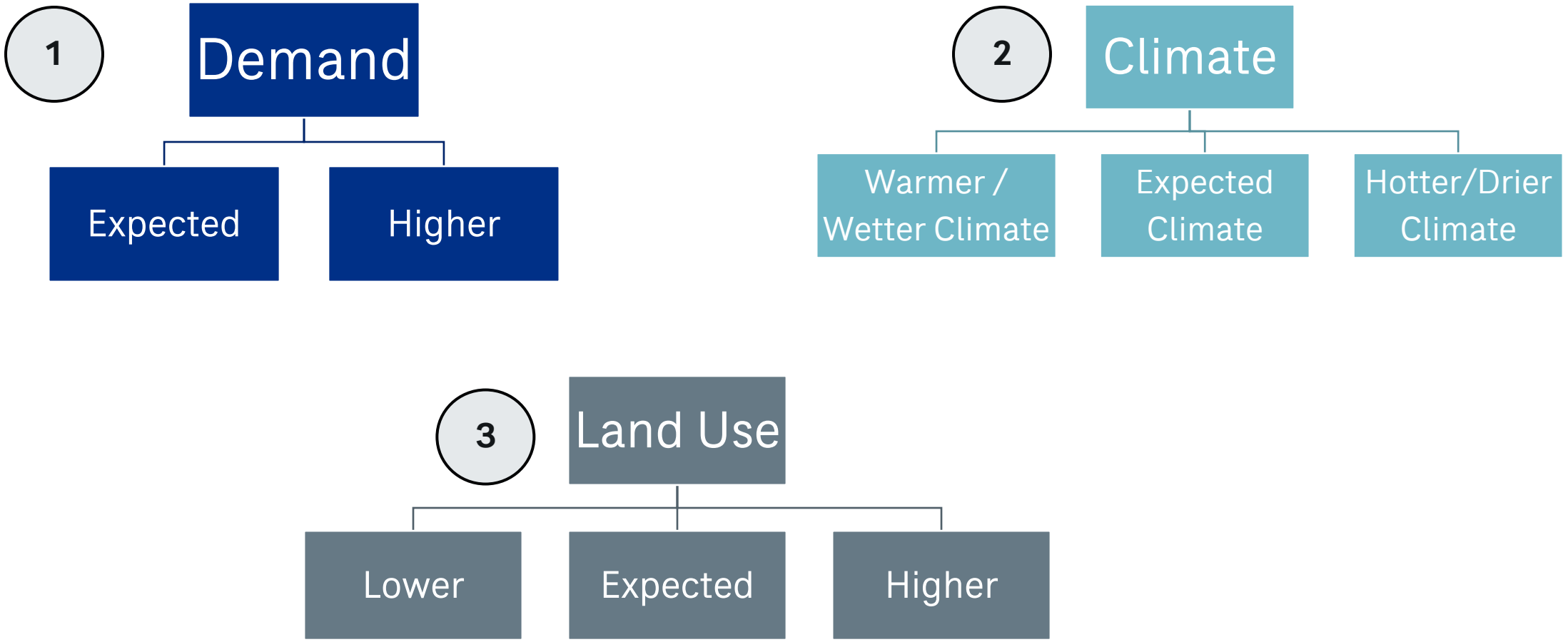
Resolution of Spatial Scale

Model	Spatial Scale
Surface Water	HUC10
Groundwater	• Regional models of Great Miami and Little Miami buried aquifers • Extract zone budgets on HUC10 scale
Water Quality	HUC12, aggregated to HUC10
Water Integration Tool	• HUC10 • Potentially include the ability to zoom in on specific facilities in watersheds that show stressed under different scenarios



Scenario Planning

- Three Proposed Variables: Demand, Climate, and Land Use



Questions Answered by Models

Questions Answered by Models

Question	Model
Where are the areas at risk of water supply gaps?	WIT
How large are those gaps?	WIT
Where are the opportunities for development based on higher water availability?	WIT
Where are the gaps in treatment capacity and how large are they?	WIT
Where are the potential increased risks of low flows?	SW
Where are the potential increased risks of flooding?	SW
How is risk of drought expected to change in the future?	SW/ Drought Look
Where are the areas at risk of drawdown?	GW
Where are the areas of opportunities for development based on groundwater supply?	GW
What areas are at risk of future PFAS contamination?	GW
Where are the increased risk of harmful algal blooms?	WQ

Note: Questions answered based on future demand, climate, and land use

What's Next?

- Follow up with users once data is compiled and analyzed to validate key assumptions.
- Key data items to review together through MVRPC members:
  1. Population projections
  2. Demand projections
  3. Current and future treatment capacity
  4. Key water quality concerns
  5. Key local or regional water resources-related concerns

- Discussion:
  - **From your experience, what successful approaches has MVRPC used to validate data with member communities?**

Questions?

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