Duck River Watershed Planning Partnership

REGIONALIZATION WORKING GROUP

Recommendations

November 4, 2025

Regionalization Working Group

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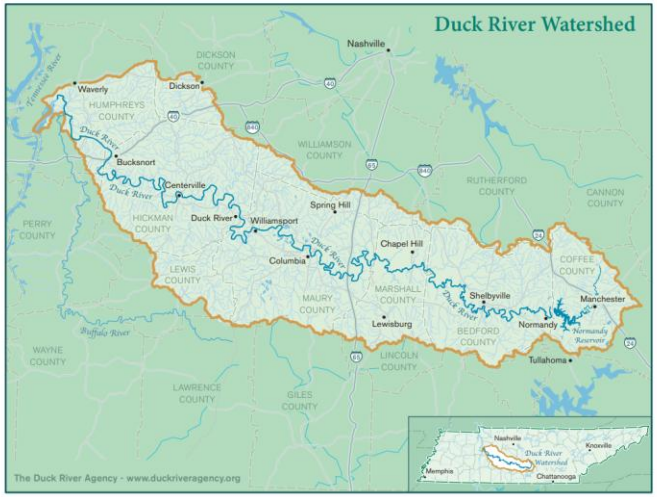
Regionalization Working Group

Recommendations:

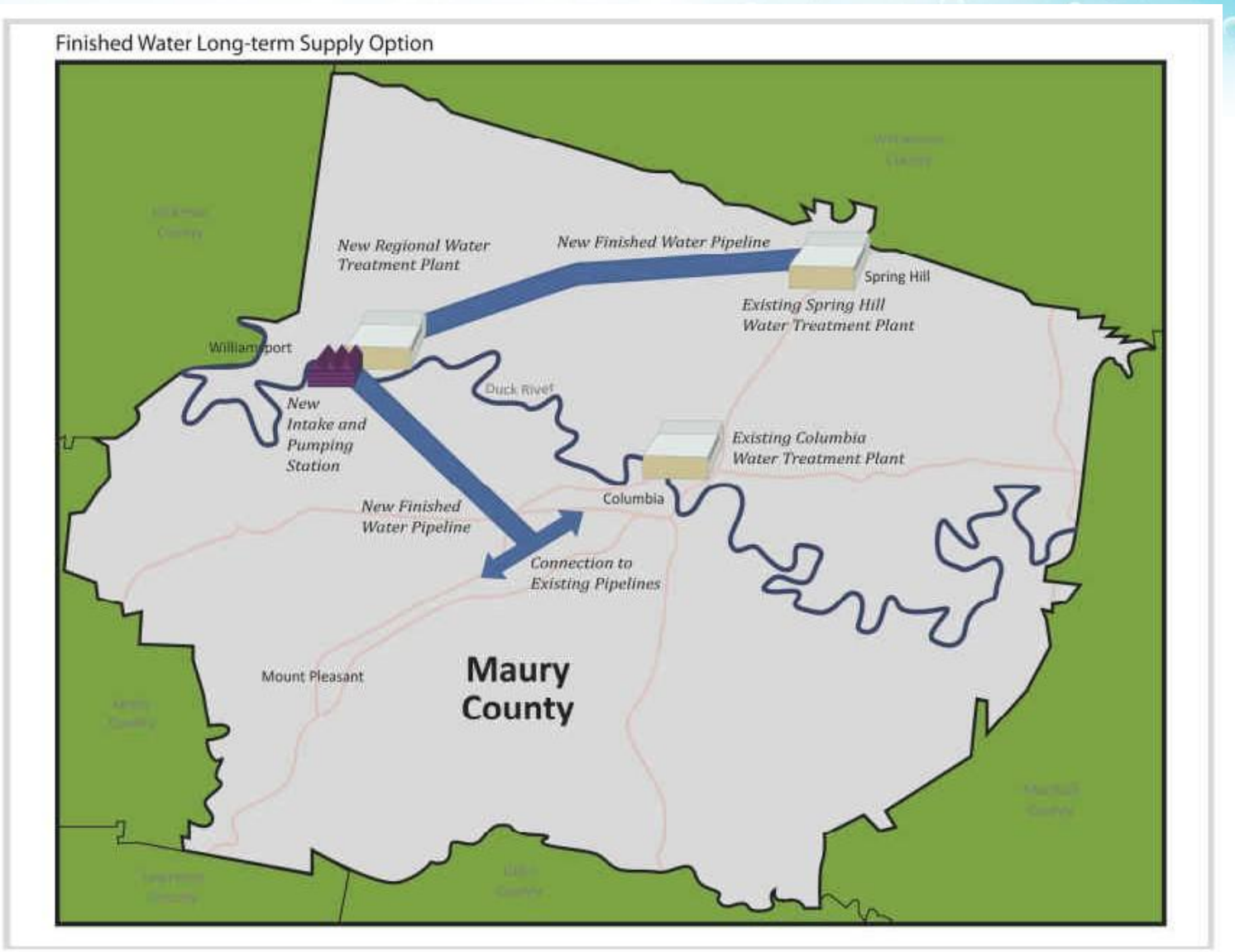
- Conduct a Basin-wide Regionalization Feasibility Study

TDEC to commission a feasibility study concerning regionalization of water and wastewater utilities completed by August 30, 2026.

There are many forms of regionalization that could potentially benefit the watershed (i.e., interconnection, consolidation, and/or formation of a regional water authority) and many variables between water systems that should be analyzed (i.e. water loss rates and financial outlooks).



Example Regional Water Supply



Regionalization Working Group

Recommendations:

- Conduct a Basin-wide Regionalization Feasibility Study
- Develop Financial Incentives for Regionalization

Develop financial incentives for regionalization based upon the feasibility study.

Financial incentives may be an important component to encourage certain regionalization activities as potentially recommended by the regionalization study such as a Regional Water Authority, utility consolidation, or interconnection depending on regional circumstances.

Regionalization Working Group

Recommendations:

- Conduct a Basin-wide Regionalization Feasibility Study
- Develop Financial Incentives for Regionalization
- Conduct a Water Needs Analysis for the Entire Watershed

TDEC to commission a water needs analysis for the entirety of the watershed completed by August 30, 2026.

While individual water demand assessments exist throughout the watershed, many are outdated, and the methodology between the studies varies widely. Further, recent actions in the watershed have impacted water supply calculations (i.e. TVA's optimization of Normandy Reservoir releases). Compiling one assessment for the entire watershed would facilitate a collective understanding of current and future water demand and allow for informed decision-making to address that need.

Regionalization Working Group

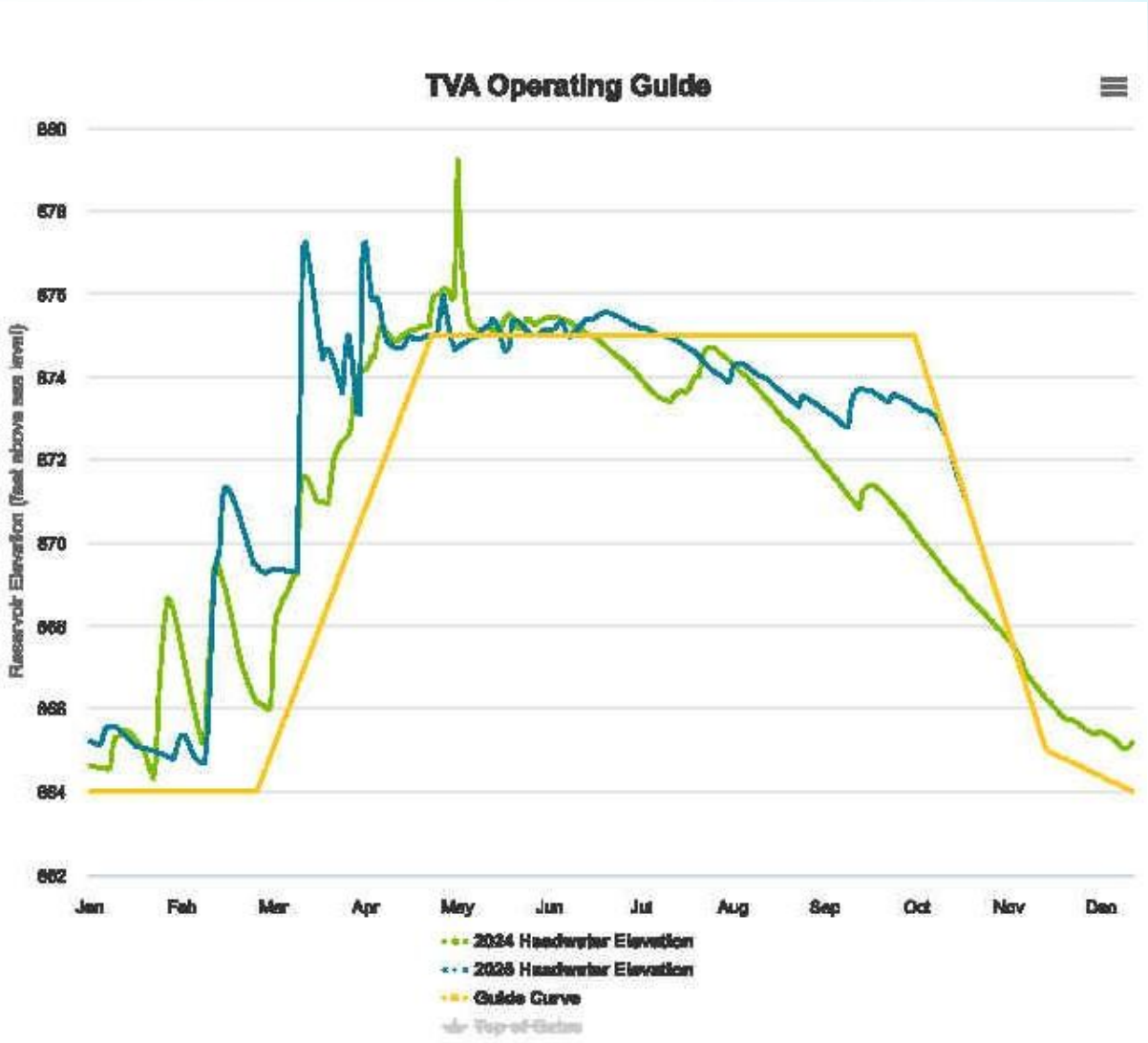
Recommendations:

- Conduct a Basin-wide Regionalization Feasibility Study
- Develop Financial Incentives for Regionalization
- Conduct a Water Needs Analysis for the Entire Watershed
- Raise the Winter Pool Level of Normandy Reservoir

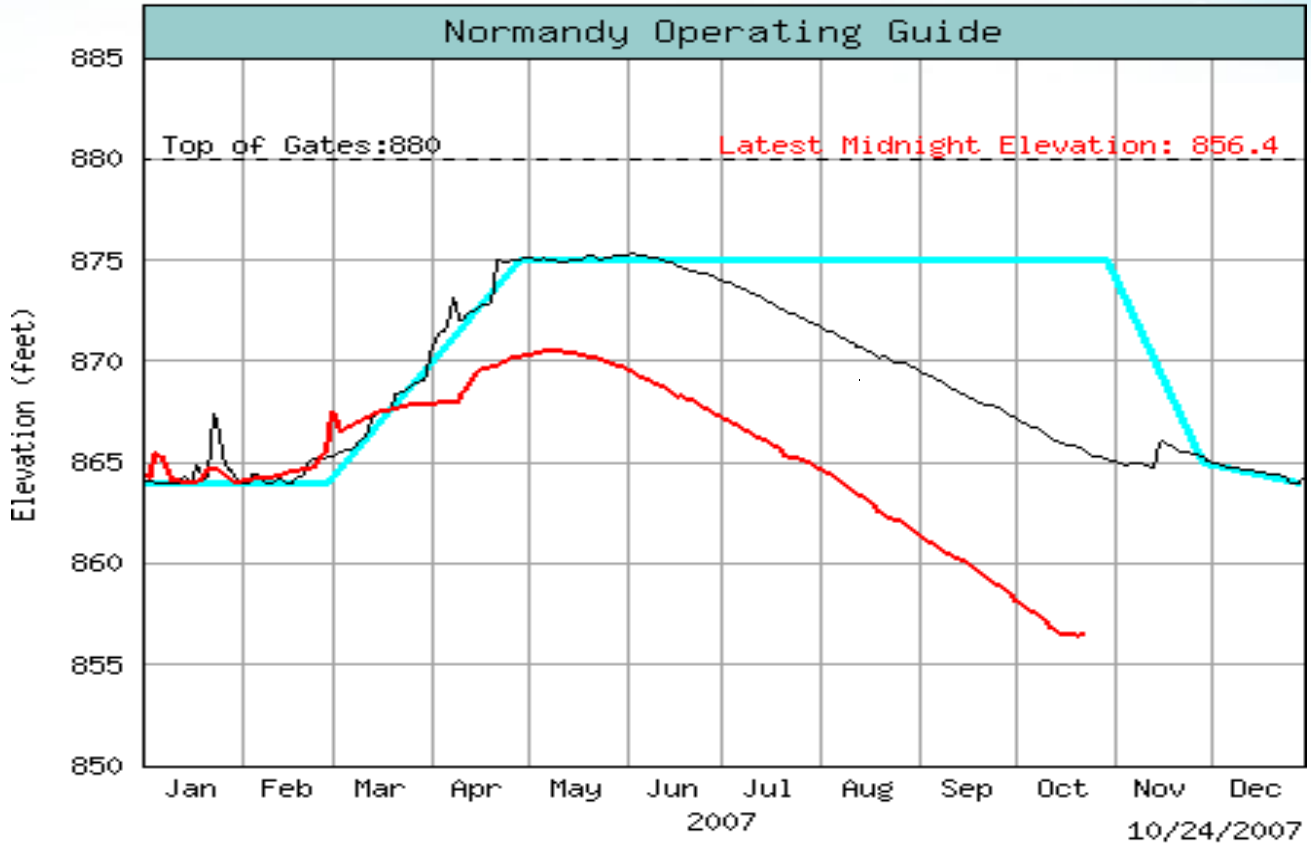
Ask TVA to evaluate raising the Normandy Dam Winter Pool up to 5 ft.

Storage in Normandy Dam is guided by two water levels to balance drought resilient capacity as well as flood storage, referred to as the Winter Pool (lower level to accommodate flood capacity needed during winter) and Summer Pool (higher level for more water availability in the summer). If the Winter Pool starts at a higher point, then there is less water needed to reach the Summer Pool, thereby reducing the risk of low flows and/ or the impacts of potential drought.

Normandy Reservoir Operating Guideline
As of November 3, 2025



Normandy Reservoir Operating Guideline
As of October 24, 2007



Guide Curve 2006 Observed Midnight Elevations 2007 Observed Midnight Elevations

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Recommendations:

- Conduct a Basin-wide Regionalization Feasibility Study
- Develop Financial Incentives for Regionalization
- Conduct a Water Needs Analysis for the Entire Watershed
- Raise the Winter Pool Level of Normandy Reservoir
- Analyze Building a Pipeline to the Tennessee River

Ask TDEC to provide a thorough analysis of building a pipeline to the Tennessee River.

A pipeline to the Tennessee river would not only provide additional water supply to the Duck River, it also promotes water use efficiency at the utility level through indirect potable reuse.

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New Downstream Intake Project

- First phase of pipeline to Tennessee River
- Downstream of the 100cfs flow-by constraint
- Near Maury/Hickman County Line
- Approximately 35 river miles, 20 land miles
- Removes reliance for water released from Normandy Reservoir
  - Which would improve drought resilience
- Supports projected future water supply needs
- CPWS has received permit for the withdrawal
- Increases indirect potable water reuse by up to 17 MGD

Regionalization Working Group

Recommendations:

- Conduct a Basin-wide Regionalization Feasibility Study
- Develop Financial Incentives for Regionalization
- Conduct a Water Needs Analysis for the Entire Watershed
- Raise the Winter Pool Level of Normandy Reservoir
- Analyze Building a Pipeline to the Tennessee River
- Begin Evaluation of Raising the Summer Pool of Normandy

Contingent on Needs Analysis results, TVA and TDEC will work together to begin the process of evaluating the feasibility of raising the height of the Normandy Dam Summer Pool up to 5 ft.

Raising the Normandy Dam has been a project that has been discussed for several decades. Starting the next level of necessary studies now would move this project forward in understanding whether this is feasible. Raising the Normandy Dam would be impactful for the entire region.

QUESTIONS?