



Duck River Watershed Planning Partnership

REGIONALIZATION WORKING GROUP

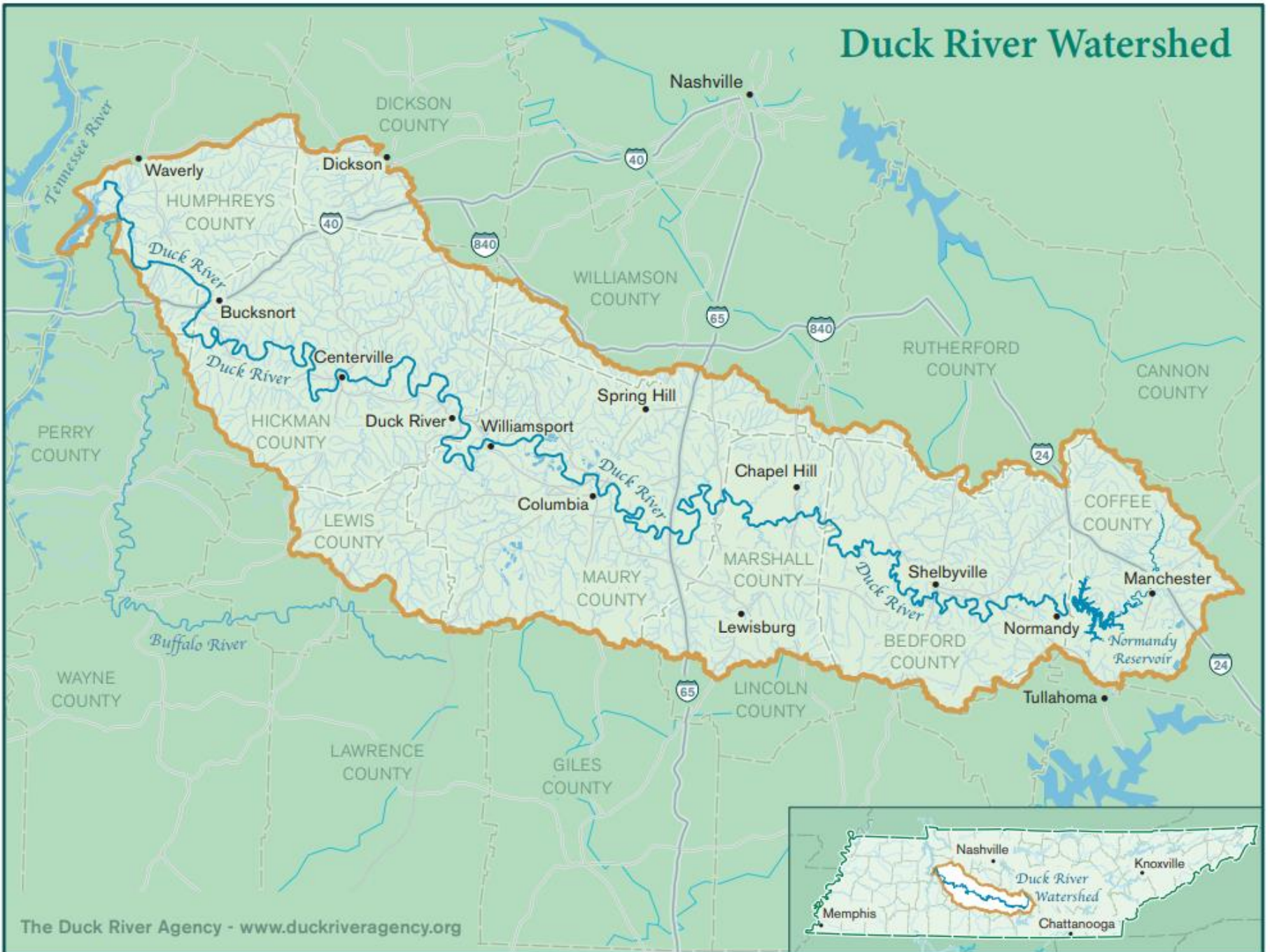
Status Report

September 18, 2025

Governor's Executive Order 108

- Recognizes the Duck River as a State natural treasure
- Affirms the State commitment to protect the Duck River
- Affirms the State commitment to support DRA's mission
- Establishes the DR Watershed Planning Partnership
- Challenges the DRWPP to develop a program that can be implemented in other watersheds

Duck River Watershed



Regionalization Working Group

Working Group Progress Report

- ✓ Three working group meetings to date
- ✓ Two additional meetings planned in October
- ✓ Evaluating and prioritizing possible projects
- ✓ Project recommendations rising to the top
- ✓ Still reviewing additional recommendations
- ✓ Developing consensus on recommendations

Regionalization Working Group

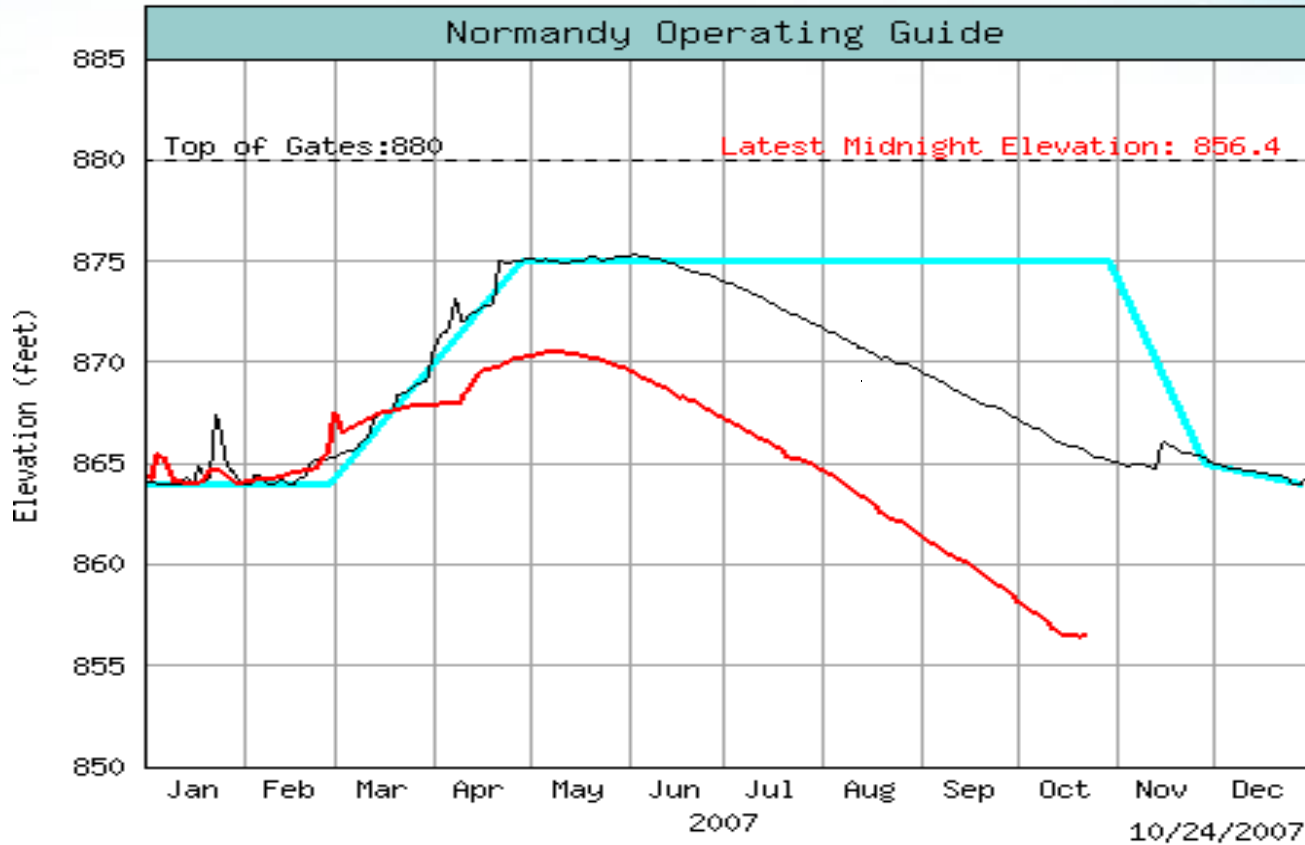
DRAFT Recommendations

- Normandy Reservoir Capacity Improvements

Normandy Dam

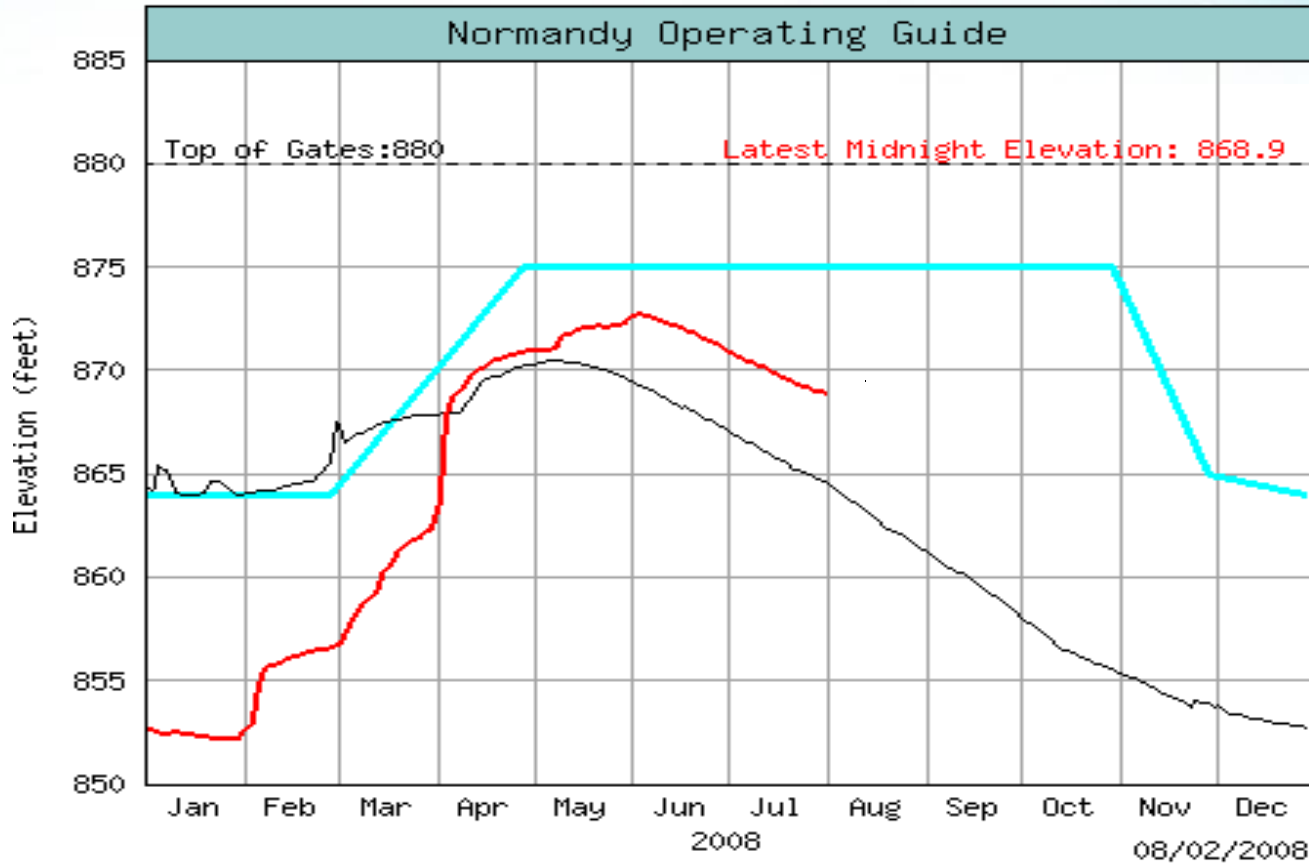


Normandy Reservoir Operating Guideline As of October 24, 2007



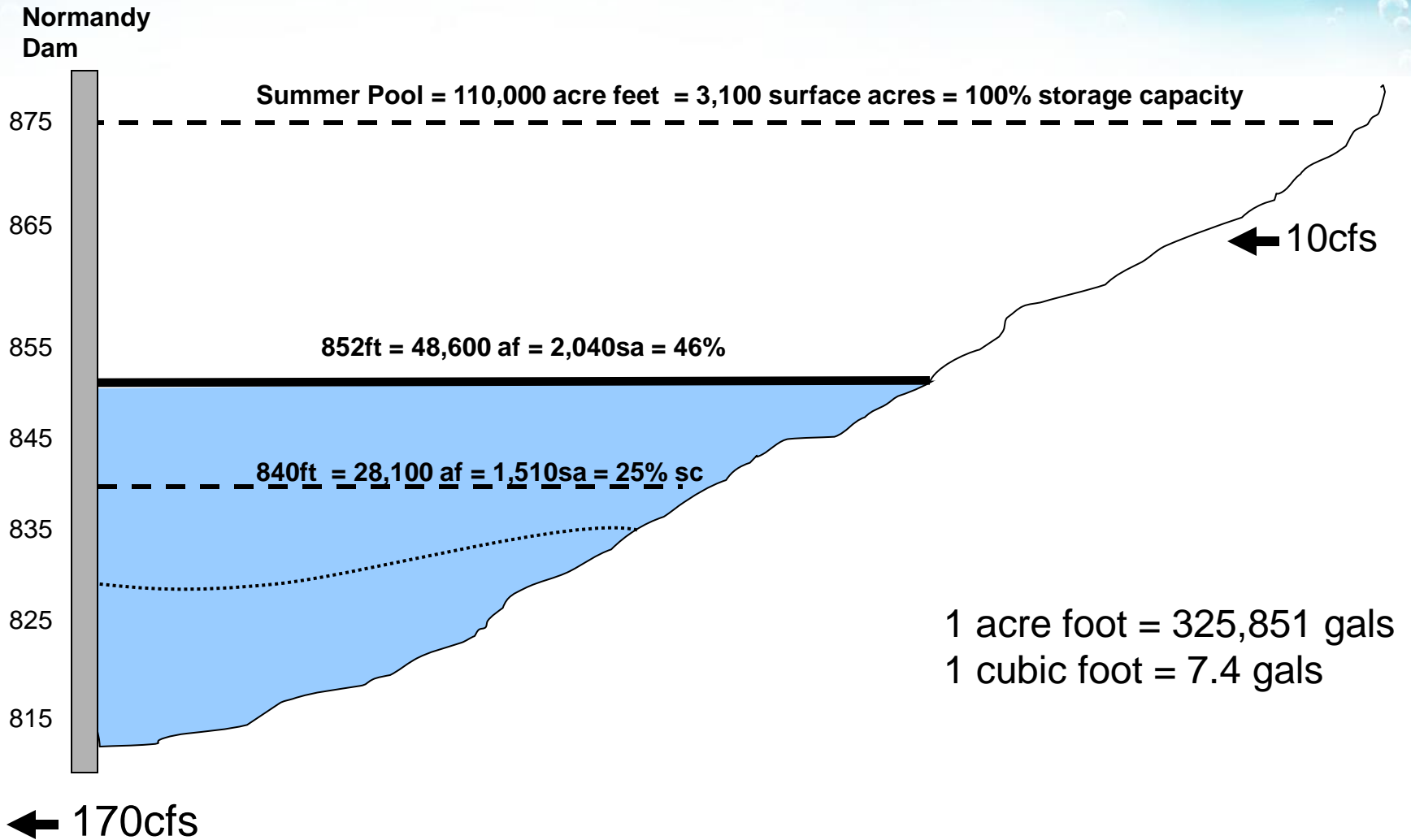
— Guide Curve — 2006 Observed Midnight Elevations — 2007 Observed Midnight Elevations

Normandy Reservoir Operating Guideline As of August 2, 2008



— Guide Curve — 2007 Observed Midnight Elevations — 2008 Observed Midnight Elevations

Normandy Reservoir Storage Capacity



Optimizing Normandy Reservoir Releases (ONRR)

- 2008 - Drought exposes issue with instantaneous target
- 2013 - Developed ONRR Program
- 2014 to 2023 - Environmental Assessment with DMP
- 2024 - ONRR EA separated
 - TVA held Public Meeting for ONRR EA
 - EA Team compiled comments and responses
 - Draft EA completed
- 2025 - USFWS review, and BO completed
 - Implementation begins Summer 2025

Optimizing Normandy Reservoir Releases (ONRR)

Current Operating Flow Constraints

- Minimum **instantaneous** flow of 155 cfs for the period of June 1 through November 30
- Minimum **instantaneous** flow of 120 cfs for the period of December 1 through May 31

Proposed Operating Flow Constraints

- 7-day rolling **average** flow of 155 cfs for the period of June 1 through November 30 with a minimum flow of 145 cfs
- 7-day rolling **average** flow of 120 cfs for the period of December 1 through May 31 with a minimum flow of 110 cfs

Normandy Reservoir Capacity Improvement Efforts

- 2010 - DRA approached TVA with the NRCI project for implementation
- 2011 - Completed the Normandy Dam Pre-Preliminary Stability Analysis Calculations
- 2013 - Completed the Preliminary Stability Analysis Report
- 2015 - Completed the NRCI report
- 2016 - TVA recommended a hold on the project

- 2023 - TVA's Net Water Demand Analysis indicated need for available water below the DRUC pumping capacity
 - DRUC began engineering of intake improvements
- 2024 - DRUC received ARPA grant from TDEC
 - DRUC signed agreement with DRA for \$3 million
- 2025 - DRUC begins construction of improvements

Normandy Reservoir Capacity Improvement Efforts

- Optimization and DRUC Intake Modifications provide enhanced drought resilience
- But do not provide additional storage capacity to support future growth
- Increasing the height of the dam provides over one billion gallons of water per foot
- Raising the dam five feet could add as much as six billion gallons of additional water

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DRAFT Recommendations

- Normandy Reservoir Capacity Improvements
- Downstream Intake / Pipelines

New Downstream Intake

- Downstream of the 100cfs flow-by constraint
- Near Maury/Hickman County Line
- Approximately 35 river miles, 20 land miles
- First phase of pipeline to TN River
- 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

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DRAFT Recommendations

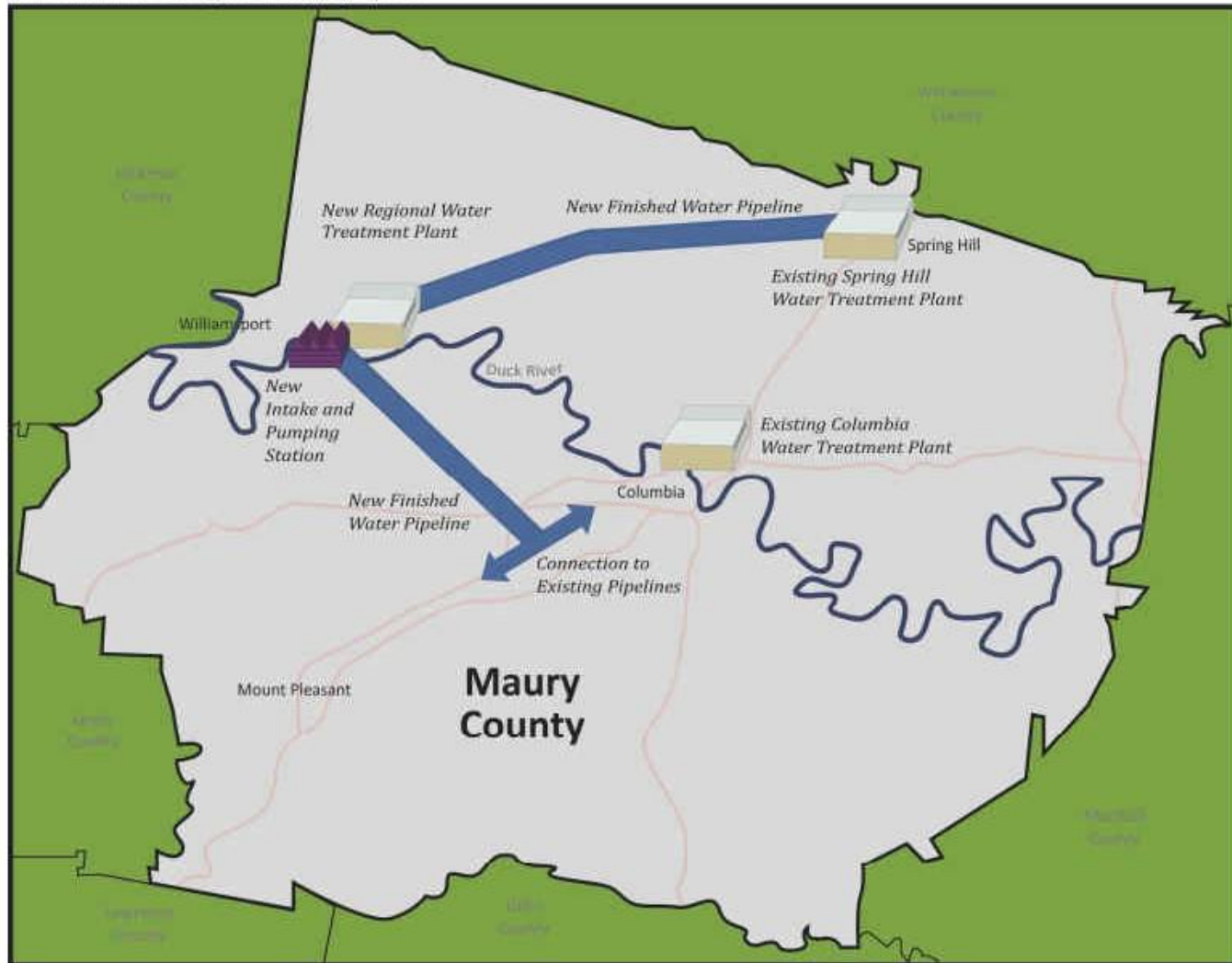
- Normandy Reservoir Capacity Improvements
- Downstream Intake / Pipelines
- Regionalization / Consolidation of Utilities

What opportunities exist to improve utility efficiency through mergers or cooperation?

The utilities in the Duck River Basin already have a long history of mutual support and cooperation.

Example Regional Water Supply

Finished Water Long-term Supply Option



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DRAFT Recommendations

- Normandy Reservoir Capacity Improvements
- Downstream Intake / Pipelines
- Regionalization / Consolidation of Utilities
- Improve Utility Interconnections

How could utilities in the basin increase interconnections to improve efficiency, emergency support, and drought resilience?

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DRAFT Recommendations

- Normandy Reservoir Capacity Improvements
- Downstream Intake / Pipelines
- Regionalization / Consolidation of Utilities
- Improve Utility Interconnections
- Enhancements to the Duck River Agency

The DRA has been a model of utility and community cooperation for over 50 years. What steps could be taken to enhance the Agency and provide even better regional cooperation?

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DRAFT Recommendations

- Normandy Reservoir Capacity Improvements
- Downstream Intake / Pipelines
- Regionalization / Consolidation of Utilities
- Improve Utility Interconnections
- Enhancements to the Duck River Agency
- Evaluate Longer Term Solutions
 - Cumberland Pipeline
 - Columbia Dam
 - Water Harvesting Options

Cumberland Pipeline



Mallory Valley Utility District Water Transmission Main Feasibility Study

Final Report
August 28, 2025



QUESTIONS?