



DCR Watershed Protection Program Updates

MWRA ADVISORY BOARD MEETING
JANUARY 15, 2026



Watershed Protection Program

Watershed Activities guided by the 5-year Watershed Protection Plan

- New Plan approved by DEP in June 2023
- Adopted July 2023
- Plan covers FY 24-28
- DEP completes an annual inspection in each region and issues a report



Watershed Control Programs

Land Acquisition	Watershed Preservation Restrictions	Land Management	Wildlife Management	Public Access Management	Watershed Security
Infrastructure	Watershed Protection Act	Education and Outreach	Water Quality and Hydrologic Monitoring	Watershed Monitoring and Assessment	Aquatic Invasive Species
	Wastewater Management	Stormwater Management	Emergency Response	GIS	



Updates and Projects

FY23 State Hazard Mitigation and Climate Adaptation Plan

ResilientMass Plan

Vulnerability Assessment of Forest and other Natural Assets for the long-term management of source drinking water for the DCR Division of Water Supply Protection.

The need for a watershed-wide Climate Change Vulnerability Assessment (CCVA) is outlined in the Division's 2023 Watershed Protection plan.

System relies heavily on the rivers, streams, forested watersheds, aquifer systems, wetlands, and other natural features.

Utilizing the latest climate data, DWSP completed an assessment of the sensitivity, resiliency and adaptive capacity of these natural assets.

A vulnerability assessment of our natural assets will help to prioritize the resiliency actions needed to help ensure reliable source water in perpetuity.





CCVA Project Objectives:

- Identify and assess the condition of DWSP forest and other natural assets.
 - ponds, rivers, streams, aquifers, and other associated upland features such as soils, watershed forests, and wetlands
- Evaluate the vulnerability of watershed forests and other natural assets in the context of the exposure to extreme weather and climate effects, and adaptive capacity.
 - Analyze the vulnerability of assets to risk projections.
 - *precipitation, temperature, extreme weather (snow, ice, wind), wildfire, drought, landslides, and other available projections.*

Overall Goal: This project will proactively identify the vulnerability of our natural assets at the sub-watershed scale

Asset management planning approach

- *Enhance forest and other natural asset resilience.*
- *Implement climate adaptation strategies.*
- *Guide the prioritization of capital planning decisions and designs.*

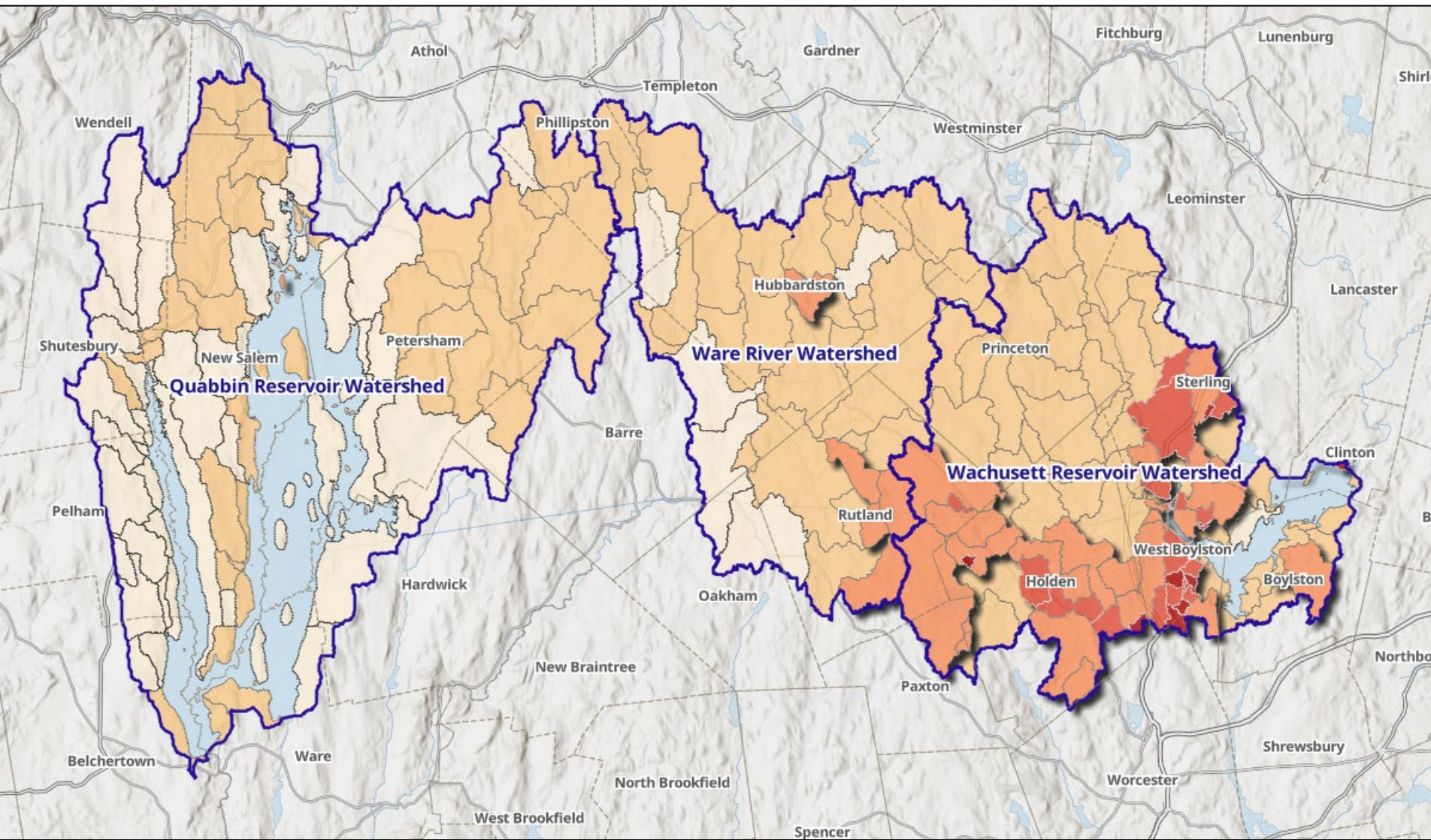
Natural Asset Inventory, Condition Assessment and Overall Vulnerability Calculation

- Determine which natural assets are critical to public water supply.
- Define the appropriate level of detail for tracking and assessing the condition of those natural assets.
- Describe the current state of natural assets based on current available data.
- Identify what additional data is needed to track and assess the condition of the natural assets considering projected climate change scenarios.
- Apply predicted Climate Change scenarios to current condition to determine **Overall Vulnerability** in the short term (2030) and long-term (2070)



CCVA Dashboard- Percent forest cover

Area of Subbasin Covered by Forest: A high amount of forest cover indicates better biodiversity, improved water quality, and greater resilience to disturbances.



Forest Asset Condition Scores

Forest Cover Indicators

Amount of Forest (F1)



1	≤50%	Minimally forested
2	> 50%, ≤ 65%	Moderately forested:
3	> 65%, ≤ 80%	Well forested:
4	>80%, ≤95%	Very well forested:
5	>95%	Fully forested:

Forests as Climate Solutions

Governor implemented a pause to look at whether Commonwealth's forestry practices were climate-friendly

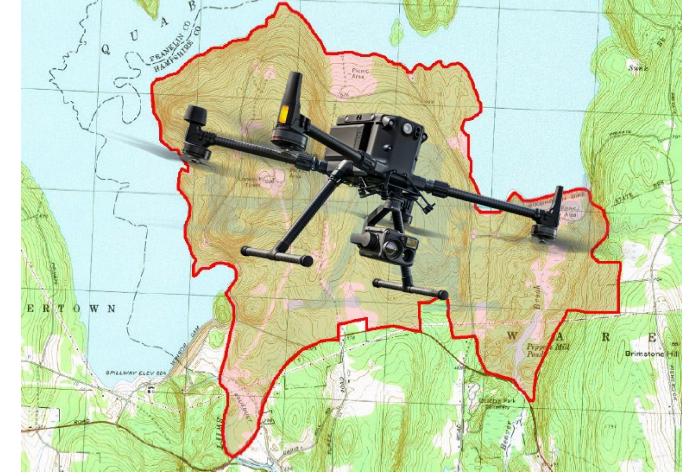
Climate Forestry Committee review practices and issued report January 2024;EEA issued report outlining practices in June 2024

Staff participated in 3 groups this year– monitoring, forest dashboard, reserves

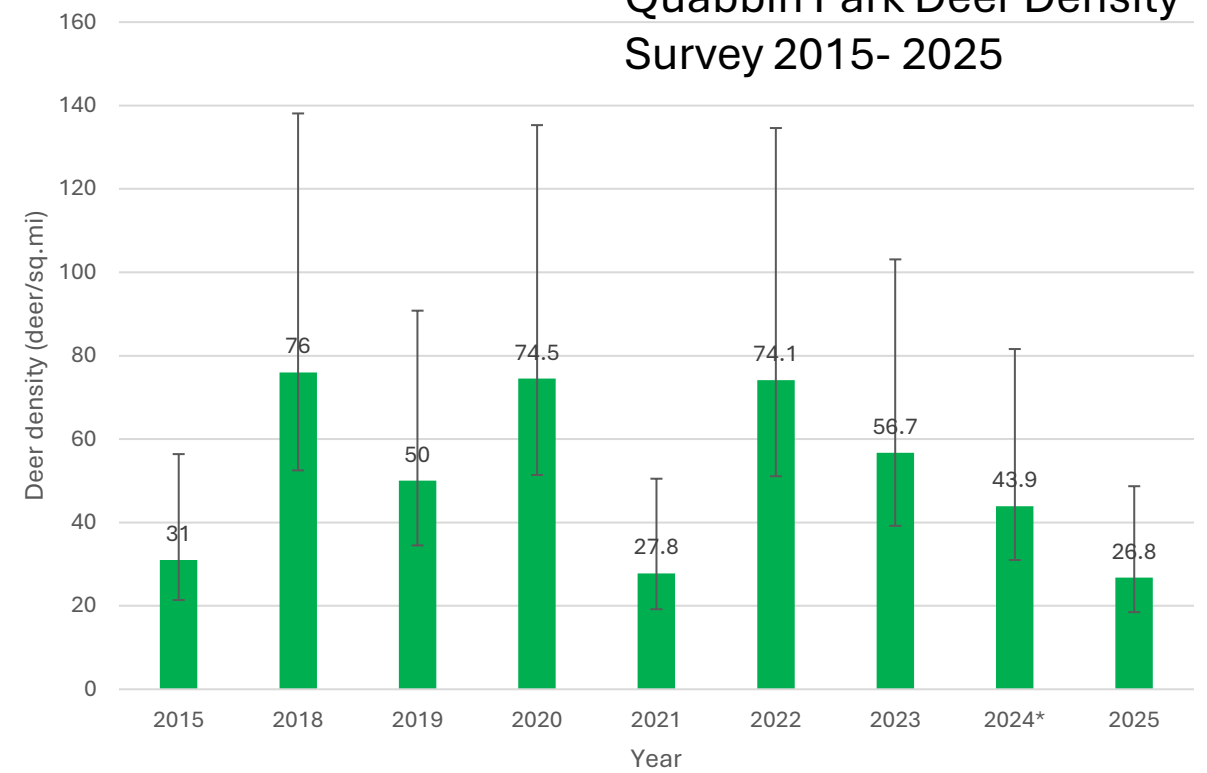
Staff working on identification of reserves and on providing better public communication regarding land management

Using Thermal Imagery to Estimate Deer Density in Quabbin Park

Ken MacKenzie
Director of Natural Resources



Quabbin Park Deer Density
Survey 2015- 2025





Quabbin Administration Window Replacement





Quabbin Administration Window Replacement



Old Stone Church Project










Welcome to
dc
Hampden/Worcester

The Old Stone Church

A symbol of resilience through a changing landscape, this landmark endured fire, flood, and collapse. It serves as a monument to the buildings that were removed from the Nashua River Valley to create the Wachusett Reservoir.

Wachusett Reservoir, along with the Quabbin Reservoir and Ware River, are the unfiltered source of high-quality water for the Massachusetts Water Resources Authority water supply system for over 3.1 million people.

HOURS

Dawn - Dusk
1 hour before sunrise
to 1 hour after sunset

PARKING

Parking available
at access gates.
Do not block gates.

EMERGENCY CALL 911

Wachusett Ranger Station: 978-365-3000
MA State Police Holden: 508-628-9400
MEMA 24-Hour Dispatch: 508-435-1478
"See Something, Say Something"

GROUP PERMITS

Groups larger than 25 people must first obtain a permit. Weddings over 25 people are not allowed. Contact (508) 792-7306

ACTIVITIES

Fish only through designated gates.
Shoreline fishing, in season, only in designated areas (see map).
Fishing Reservations Scenic Views
Cross country skiing Hiking

PROHIBITED ON WATERSHED PROPERTY

Any activity that pollutes the water supply
Any facility contact with the water
No access on frozen surface of the reservoir
Disposing of human waste, trash, or litter
Transport or disposal of invasive or other plants/animals
Alcoholic beverages Motorized vehicles
Swimming or bathing Smoking or smoking firecrackers
Dog/bonnet animals Hunting
Metal Detectors Magnet Fishing
Underwater Demos Drones UAV



FISHING ACCESS

Shoreline fishing only is allowed through the following areas (see map):
Route 70 - Gates 6 to 40
Route 140 - Gates 17 to 23
Route 127/10 - Gates 24 to the pond limit at the start of the North Dike (Gate 50)
West: Bellmont, Thetford, Oakdale, and Silver Lake basins

FISHING REGULATIONS

Fishing season opens first Sunday in April (provided no ice is present)
Shore fishing only
No netting, boating or wading
Ice fishing is not permitted
Possession of a valid Massachusetts fishing license is required by individuals 15 years or older.

For additional information visit the Public Access Guide for Wachusett Reservoir: mass.gov/ma/wachusettfish

The water, forests, and wildlife thank you for protecting clean drinking water!



Route 110 Sterling





Route 110 Sterling

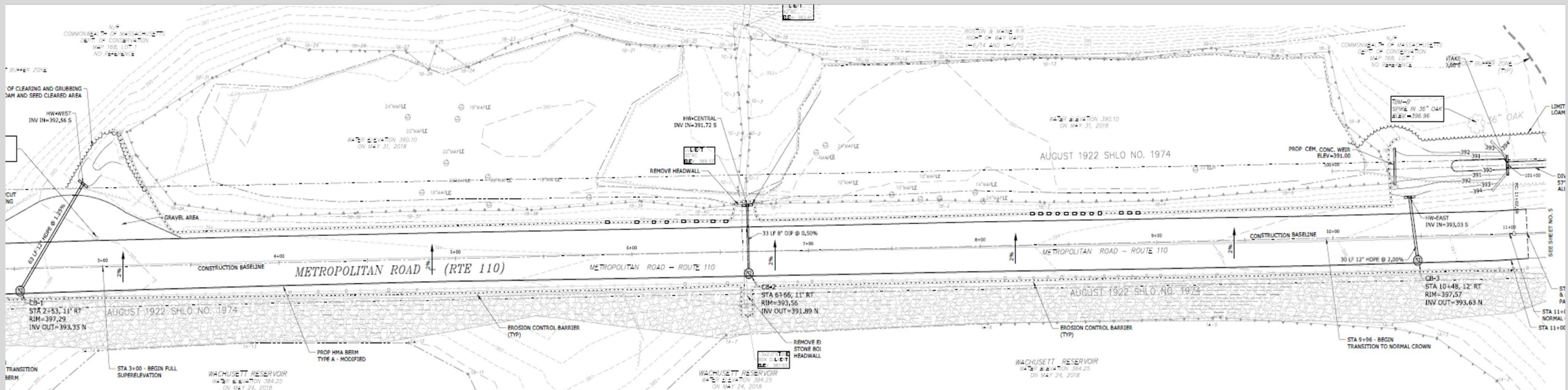
➤ Route 110

➤ Currently

- Runoff sheet flows from half road directly to reservoir
- Remaining runoff and area alongside railroad line flow through a cross culvert beneath Rt. 110

➤ Proposed

- Super-elevate road
- Eliminate cross culvert
- Construct diversion pipe



Clever Watershed Protection Outreach





Upcoming Efforts

- Additional Drone Work
- Forest Mapping
- Updated Terrestrial Invasive Species Plan
- Continued Work on Swollen Bladderwort at Quabbin

Questions?

