Protecting Drinking Water Sources in CT



Lilian Ruiz Executive Director

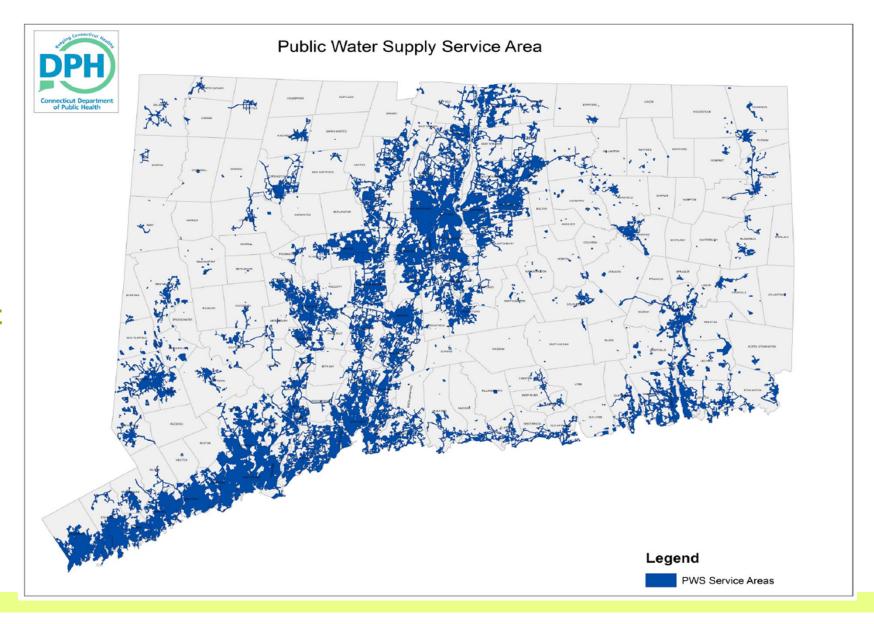
NASCA Annual Meeting

October 6, 2024

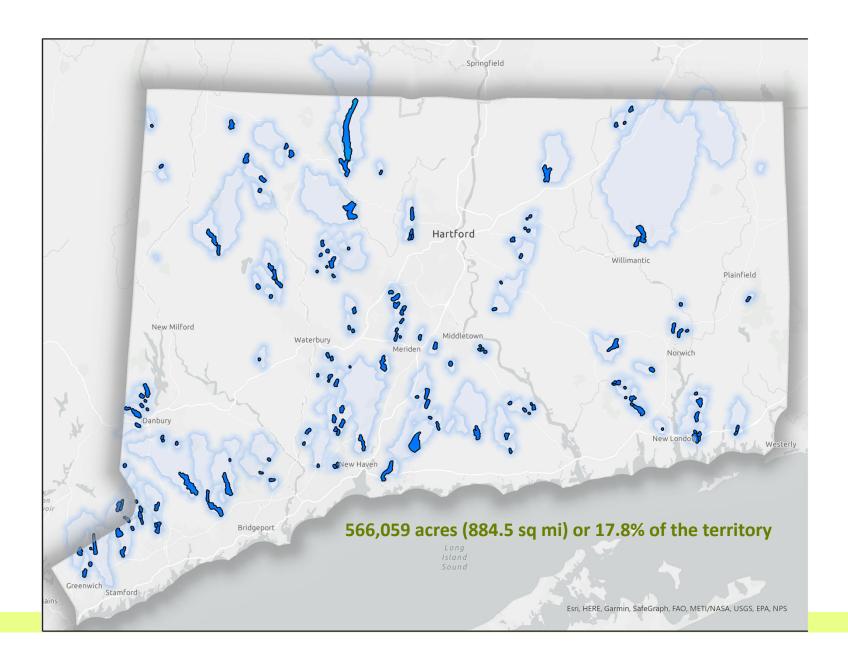




Public Drinking Water in Connecticut



Drinking
Water
Watersheds
and
Reservoirs in
Connecticut



How can we protect drinking water supplies?

With limited resources, limited time, limited funding, how can smart decisions be made to protect drinking water sources?

- 1. In Connecticut, most land-use decisions are made at the town level (169). There is no county government.
- 2. Zoning may not identify/consider source protection areas
- 3. Lots of available data on land characteristics and land use.....in lots of different places
- 4. Decisions and Development are often done at the parcel level

USDA NRCS

Cooperative Conservation Agreement

Source Water Protection Project

Partners:

CT Council on Soil and Water Conservation

CT Dept. of Public Health – Water Supply Division (DPH)

Southwest Conservation District (SWCD)

Eastern Connecticuty Conservation District (ECCD)

- 1. Create a state-wide GIS inventory of land use in all source water protection areas.
 - Allows for the identification and prioritization of source water protection areas for both quality and quantity.
- 2. Expand knowledge of the watershed technical community about source water protection, main issues, etc.
- 3. Development of an outreach plan designed to increase participation in Farm Bill and other technical and financial assistance programs that address watershed needs.
- 4. Produce 2 watershed plans.
- 5. Conduct Local Work Groups!!!

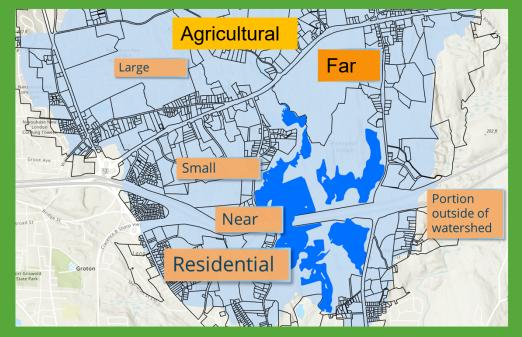
GIS Work

Contractor: UCONN CLEAR: https://clear.uconn.edu/projects/sourcewater/

- Collect parcels to cover public supply watersheds and aquifer protection areas
- Identify and define metrics for prioritization
- Collect input data layers to inform metrics
- Calculate metric values for each parcel
- Apply points to each metric for prioritization

Metrics

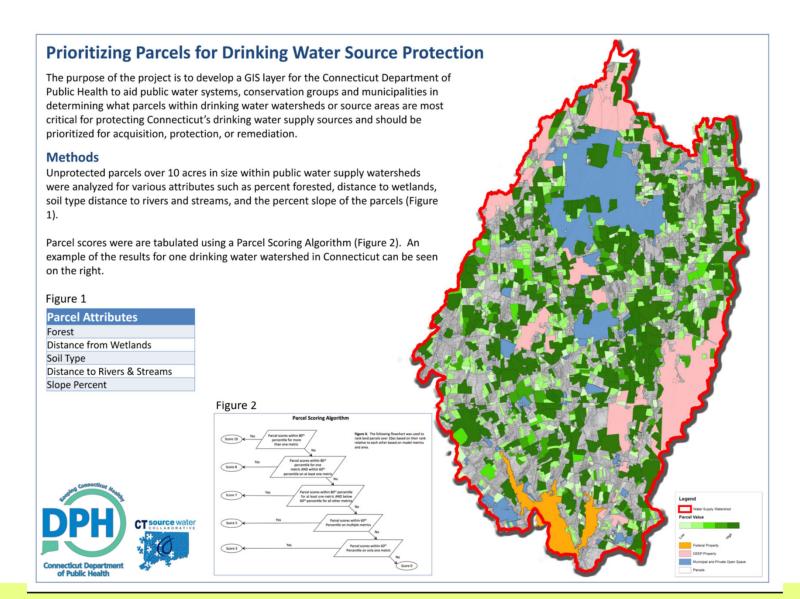
- 1. Distance to tributaries/reservoirs
- . Contains stream bank/riparian land
- . Distance to wetland
- Distance to treatment plant intake
- s. Soil Type (drainage/depth)
- 6. Slope
- 7. Parcel Size
- o. Commercial/industrial land
- o. Forest land
- 1. Residential land



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