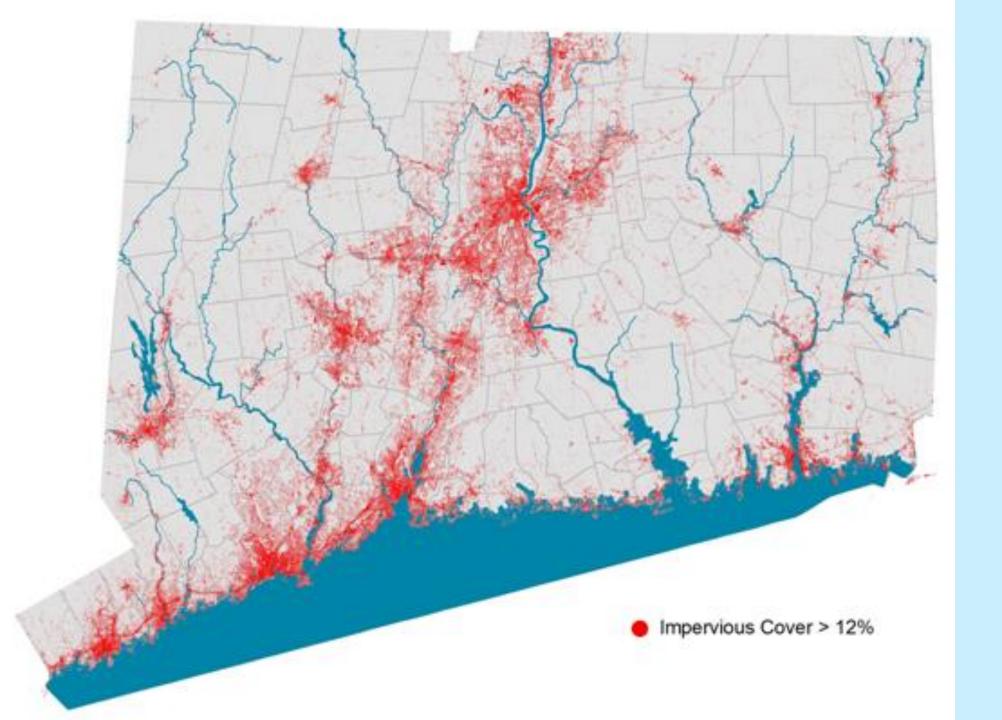


2022 303D Impairment List

933 miles of impaired rivers and streams

1,159 acres of lakes

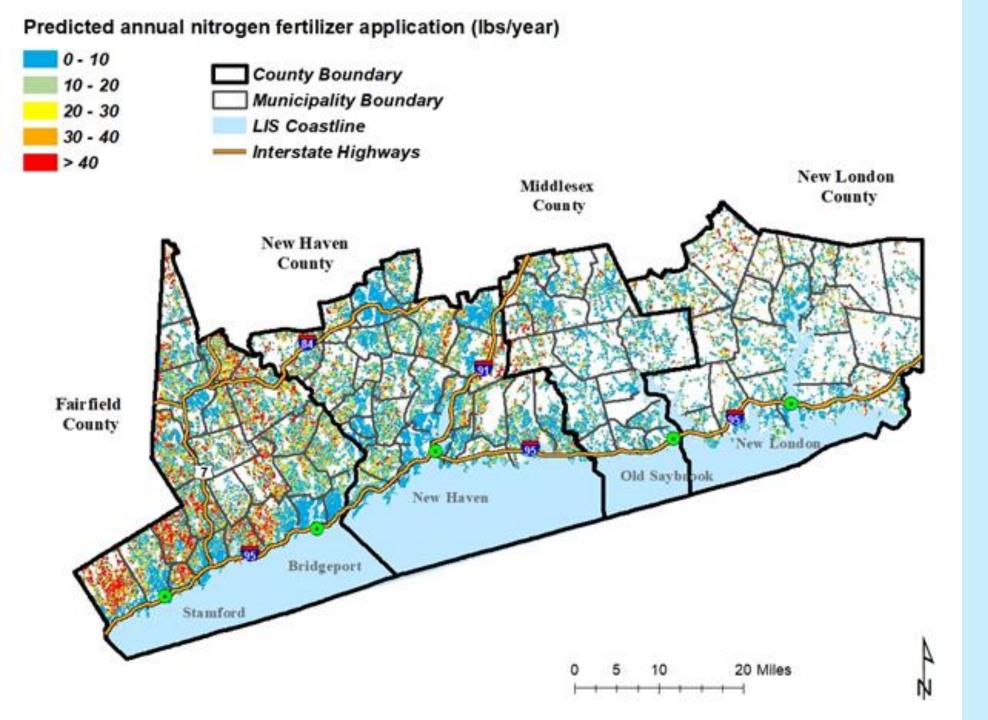
You can see the estuary map



Impervious cover over 12% of the watershed Correlates to impaired Water quality



To buffer or not to buffer



Johnson and Vaudrey 2022

Just these counties apply 4.5 million lbs. of fertilizer each year along LIS

Meta-Analysis of Nitrogen Removal in Riparian Buffers

Paul M. Mayer,* Steven K. Reynolds, Jr., Marshall D. McCutchen, and Timothy J. Canfield

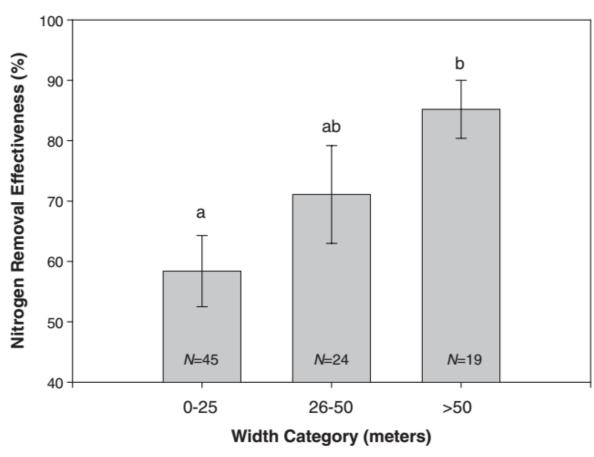


Fig. 2. Nitrogen removal effectiveness in riparian buffers by buffer width category. Bars represent means \pm 1 standard error. Mean ranks of width categories differ if denoted by different letters (Kruskal–Wallis one-way analysis of variance on ranks with Dunn's method of multiple comparisons, P < 0.05).

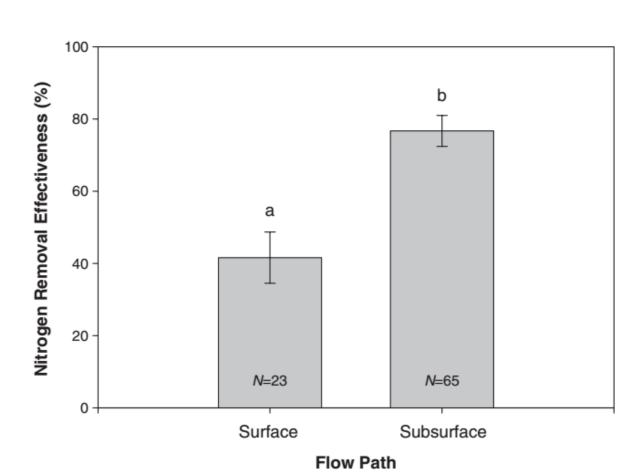


Fig. 3. Nitrogen removal effectiveness in riparian buffers by water flow path. Bars represent means \pm 1 standard error. Mean ranks of flow paths differ if denoted by different letters (Mann–Whitney U test on ranks, P < 0.001).



Series of low buffer Ponds leading into Deep River



Inconsistent regard for buffering



CT River Google Earth Fertilized lawns straight to the water's edge



Gateway Commission CT River Watershed Buffer with a View



Westchester County No mow strip



Degraded banks



Same view three years later



Restoring degraded Pasture and Riparian Area while maintaining ford to adjacent pasture



Angler casting into Shaded brook

Local Watershed Assessment Tool



⊕ Home

Story Map

© CCI Dashboard

O Scenario Builder

How Healthy is My Watershed?

select your basin/town to get key stats.

by Basin

Combined Condition Index by Basin

CCI

>= 0.75, Conservation

0.43 - 0.74, Recovery

0 - 0.42, Mitigation

Do we do this with IWCs or P&Z

What is Combined Condition Index?

Combined Condition Index (CCI) is an index that describes the probable health of a watershed. CCI of a watershed is calculated by the ratios of <u>natural</u>, <u>impervious</u>, and <u>agriculture-like</u> land cover based on C-CAP High Resolution Land Cover dataset for 100-ft <u>riparian zone</u> and upland area within the watershed. CCI ranges between 0 and 1. A CCI of 0.75 or above is a sign of healthy watershed.

TO GET INFORMATION FOR SPECIFIC BASIN(s) Click the Select tool (upper left corner of the map) and then zoom in on the map to select basin(s) of your interest. The select highlighted in blue and the information about the basin(s) will appear in the charts below and the box on the right. The box and charts will be interatively updated for the selected bas layer botton to turn layers on/off.

