



**LONG ISLAND SOUND
PARTNERSHIP**

**Clean Water and Healthy Watersheds Work Group Meeting Notes
Wednesday, February 11, 2026
Meeting conducted remotely via Microsoft Teams**

Attendees:

Kelly Streich, CT DEEP (Co-chair)
Hope Savercool, NYS DEC (Co-chair)
Tim Hunter, CT DEEP (Co-chair)
Kathleen Knight, CT DEEP
Chris Schubert, USGS
Nicole Hammond, EPA
Abbie Cadman, NRCS
Erica Casper, CTSG
Kimarie Yapp, NEIWPC
Braden Lynn, CT DEEP
Samarra Scantlebury, NYSDEC
Kristina Heinemann, EPA
Quinn Burkhart, NEIWPC
Christine Suter, Friends of the Bay
Gregory Wilkerson, NYC DEP
Abdulai Fofanah, NYC DEP
Emily Marquis, CT Dep of Ag
Kyra DeGroat, NEIWPC/NYS DEC
Jim Ammerman, NEIWPC
Finn Clarke, Unaffiliated
Evelyn Spencer, EPA
Beau Rangeim, NYC DEP
Emily Bulmer, Save the Sound
Leah O'Neill, EPA
Anthony Caniano, Suffolk County
John Bumgarner, USGS
Denise Argue, USGS

Brittney Izbicki, USGS
Abigail Winter, CT DEEP
Melissa DeFrancesco, TNC
Nikki Tachiki, EPA
Holly Drinkuth, TNC/LISP CAC
Steve Couture, NH DES
Maggie Cozens, CTSG
Judith Sarkodee-Adoo, NYC DEP
Jess Brandt, CTSG
James O'Donnell, UConn
Denise Savageau, CT CSWC
Sarah Deonarine, Manhasset Bay
Katie O'Brien-Clayton, CT DEEP
Markelle Smith, Mass Audubon
Mary Becker, CT DEEP
Evelyn Powers, IEC
Jamie Vaudrey, UConn
Michael Jensen, Suffolk County
Nancy Pierson, Suffolk County
Peter Linderoth, Save the Sound
Bill Cavers, LISP CAC
Alex DuMont, NEIWPC
Tracie Sales, NH DES
Samantha Wilder, IEC
Nikki Spiller, HarborWatch

Introduction & Welcome:

The meeting was called to order at approximately 10:00 am on Teams.

Announcements/Upcoming Events:

- The LIS Research Program RFP was announced.
- The LIS Research Conference will be held on June 4 & 5 in Mystic, CT.

LIS Partnership Updates

- There was an implementation team meeting on December 18 and upcoming meeting on March 24

- Previous management committee meeting was on January 15 and there is one upcoming on April 16
- Leah O’Neill will be serving as the LIS Partnership Acting Director for 120 days or when the Director role is filled, if sooner.

Scoping Groups Update – Marine debris kickoff meeting was announced. Goals include scoping methods for tracking progress of marine debris removal and tracking hot spots in Long Island Sound.

Microsite Updates – pages are under internal review

Hypoxia indicator subgroup (lead: Jamie Vaudrey): Group to reinstate after a hiatus

- The goal is to apply the LIS hypoxia indicator approach to shallow bays and accelerate public access to data (considering a new viewer that pulls USGS and Unified Water Study data).
- Membership: seeking NY representation; at the time, only potential NY member was Chris Schubert (USGS). IEC participation welcomed but previously unavailable.

Nature-based solutions subgroup (lead: Denise Savageau): next meeting Feb 24 12:30 pm to 1:30 pm; contact Denise to attend

- Regrouping with expanded upper-watershed partners (e.g., Connecticut River Watershed Partnership, Connecticut River Conservancy); focus on BMPs for healthy watersheds, forestry challenges in a changing climate, invasive species, biodiversity, and potential focus on oak forest BMPs.
- Policy landscape: CT riparian buffers task force completed its report; potential legislation to update the Inland Wetlands Act to support buffers; CT Nature-based Solutions bill (Public Act 25-125) established a task force; timeline: collect input by April, public information session May 26, final report to the General Assembly by July 1 (statutory deadline). NBS subgroup monitoring alignment and seeking parallel updates from New York.

FY26 Supplemental Proposals

Obj/Action	Project Title	Organization	Project Cost	Priority Ranking
Marine Debris: 6-3, IEP 3-1	Long Island Sound Marine Debris Removal and Prevention	The American Littoral Society	\$87,630	High
Nutrients: 1-2, 1-3	Suffolk County Decentralized Sewage Plant and Clustered I/A Onsite Wastewater Treatment System Feasibility Study	NYSDEC, Suffolk County	\$600,000	High
Pathogens: 3-1, 3-2	Suffolk County Pathogens Action Plan Pilot Study	NYSDEC, Suffolk County	\$260,000	High
Nutrients: 1-1, 1-2, 1-3	Optimizing the cultivation of Ulva spp. To maximize yields for bioextraction	SUNY SQMAS, NYSDEC, NEIWPCC	\$360,000	High
Nutrients: 1-1, 1-2, 1-3	Establishing a gametophyte kelp culturing hatchery to promote bioextraction, Phase 2	SUNY SQMAS, NYSDEC, NEIWPCC	\$300,000	Medium
Nutrients: 1-3	Landscape Turfgrass Alternatives	NYSDEC, Suffolk County	\$143,766	Medium

Kelly reminded the workgroup of the supplemental proposals submitted for FY26 (as displayed above) and noted that there are additional proposals being submitted by U.S. Geological Survey that align with CWHW topics. Chris Schubert and Denise Argue provided overviews of the proposals.

- **Outreach for the LIS Clearinghouse:** The maintenance of the USGS clearinghouse is housed with the base project. A supplemental proposal is being submitted to incorporate additional metadata, further engaging existing and new data generators and users, and developing improved tools and functionality is

critical to maintaining the metadata mapper and Clearinghouse and ensuring their long-term relevance and usability.

- **Comparative Evaluation of Total Alkalinity Analytical Methods** – study will compare total alkalinity values produced by the manual titration method to the automated titration method and will compare total alkalinity values produced using the automated titration method among two laboratories, the USGS New England Water Science Center, East Hartford, CT, Laboratory and UConn, Department of Marine Science, Environmental Chemistry & Geochemistry Laboratory.
- **Synthesis of Science on Nitrogen Loading to Long Island Sound** -objective of this project is to synthesize the findings of previously conducted studies to develop an updated, comprehensive picture of what is and is not known of nitrogen loading to Long Island Sound

Status on Gap Analysis

- Consolidating EPA Power BI project data into a single dataset mapped to 2025 CCMP implementation actions, timelines, and statuses to identify coverage and gaps
- Expanding to other funding programs (e.g., Community Impact Fund, Breaking Down Barriers, Research Fund) and applying a risk lens to prioritize where action yields greatest benefit; aim to scale up what works.
- Additional support has been provided by Abigail Winter (CT DEEP)

Feature Presentation – Kate Knight on the status of the Land Cover Analysis (see Attachment 1 for the presentation slides)

- The Indicators Review Team needed to transition to a regularly produced, watershed-wide source to keep tracking land-cover indicators across the Long Island Sound watershed.
- Phase 1 of the Land Cover Analysis compared CLEAR, NOAA C-CAP, and NLCD and found they tell the same story overall, leading to adoption of NLCD 30-meter data for consistency, coverage, and update frequency, and to support a full-watershed approach in the 2025 CCMP.
- What the older CCMP period showed (direction of change through 2015): Trends were going the wrong way for goals—riparian buffer extent declined, impervious cover increased, and forest cover declined—leaving CT and NY behind schedule relative to 2015 targets. The team will retain these historical series to understand momentum and the “lift” needed to make progress.
- New tracking frame for 2025 CCMP: Indicators will be assessed at the HUC sub-basin scale, with a focus on improving 100-foot-or-wider riparian buffers; “land protected” is also an indicator, though data are still incomplete across states.
- Practical method for riparian buffers: Because NLCD is 30-meter resolution, a 300-foot buffer was analyzed as a proxy to understand status relative to the 100-foot goal. Using that method, 62% of HUCs meet the “75% vegetated” threshold (i.e., in goal/pristine tiers), but some of those areas may still be at risk given negative trends. A limited 1-meter dataset from 2016 exists for spot comparisons, but coverage/frequency are insufficient for full-watershed tracking
- Impervious cover thresholds and where problems concentrate: Using Long Island Sound Partnership thresholds, >25% impervious is “not supporting,” 10–25% is “impacted,” and <10% is “supporting.” A CT DEEP analysis suggested a 12% cutpoint aligned with macroinvertebrate responses. Problems concentrate in CT/NY (and parts of MA), and conditions look worse when you focus specifically on imperviousness within riparian buffers rather than across entire HUCs.

- Forest cover change: From roughly 1985–2023, many sub-basins lost forest, with the greatest losses highlighted in deep maroon on the maps. The coastal belt and the I-91 corridor stand out as most impacted. Assessing only riparian buffers shows a similar pattern, underscoring the importance of woody vegetation in buffers for water quality and habitat functions.

Key Takeaways:

- Persistent downward trend in riparian buffer extent across the watershed; not trending in the direction needed to reach goals.
- Illustrative local stories: Some HUCs in New York showed riparian buffer gains possibly tied to improved agricultural practices or shifts in developed/impervious areas— the team hopes to analyze examples to further understand what progress occurred and how
- Data gaps: lack of protected open space data from watershed states (need quantities, locations, GIS files) to advance metrics and tracking; coordination across states is needed.

Closing Actions & Next:

- **Upcoming Webinars:** UConn CLEAR webinar series on land cover scheduled Mar 5 and Mar 19; fertilizer-focused webinar Feb 26; long-term bioextraction research webinar (Stony Brook; N and C sequestration via seaweed/bivalves) will be recorded; Coastal Perspectives lecture series underway (UConn).
- 2026 Meeting Dates – May 13th, August 12th, November 4th
- Contact Information: Kelly - kelly.streich@ct.gov, Hope - hope.savercool@dec.ny.gov, Tim - timothy.hunter@ct.gov, Nicole – hammond.nicole@epa.gov



Clean Waters Healthy Watersheds Workgroup

Welcome – Please put your name and affiliation in the chat!

Co-Chairs: Kelly Streich (CT), Hope Savercool (NY), Timothy Hunter (CT)

CWHW WG Meeting – Feb 11, 2026



Agenda

10:00 am – Welcome

10:35 am – CWHW FY26

- Supplemental Proposals
 - USGS Proposal
- Status of Gap Analysis

10:10 am – General Updates

- Program Updates
- Scoping Groups
- Microsite
- LIS Research Program

10:45 am – IRT Project Update

- Land Cover Metrics

10:25 am – Report Out of Subgroups

- Bay Hypoxia Indicator
- Nature Based Solutions

11:30 am – Next Steps and Meeting Adjourn

Program Updates

- I-team meeting on December 18th
 - Upcoming March 24th
- Management Committee meeting was on January 15th
 - Upcoming MC on April 16th
- Leah O'Neill – Acting Director

Scoping Group Update – Marine Debris

Microsite Updates – Under internal review

LIS Research Program

Research RFP-

<https://lispartnership.org/research-monitoring/lisp-research-grant-program/>

Research Conference-

<https://seagrant.uconn.edu/2026/01/21/save-the-date-for-2026-long-island-sound-research-conference/>

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Report Out of Subgroups

Bay Hypoxia Indicator – Jamie Vaudrey

Nature Based Solutions – Denise Savageau

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Pathogens: 3-1, 3-2	Suffolk County Pathogens Action Plan Pilot Study	NYSDEC, Suffolk County	\$250,000	High
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Nutrients: 1-3	Landscape Turfgrass Alternatives	NYSDEC, Suffolk County	\$143,755	Medium

CWHW Workgroup ^ ^{additiona} Proposals - USGS

Long Island Sound and Watershed Clearinghouse *BASE

- The USGS Long Island Sound and Watershed Clearinghouse project developed and maintains a clearinghouse and web-based mapper to display a wide range of project metadata in LIS to inform local communities, partners, researchers, and beyond. This proposal will support the current version of the LIS metadata portal through continued maintenance of the metadata mapper and Clearinghouse, and focused outreach to the Partnership and wider LIS community about tool uses and functionality.
- Project Cost and Match: \$83,387 (no match)

Long Island Sound and Watershed Clearinghouse *SUPPLEMENTAL

- Continuing to incorporate additional metadata, further engaging existing and new data generators and users, and developing improved tools and functionality is critical to maintaining the metadata mapper and Clearinghouse and ensuring their long-term relevance and usability. This proposal will enhance the LIS metadata portal through broad outreach to LISP committees and workgroups, and the wider LIS community, and creation of a Steering Committee; a data generator metadata addition request tool; and additional improvements to applications as dictated by the Steering Committee.
- Project Cost and Match: \$233,638 (no match)

CWHW Workgroup ^ ^{additional} Proposals - USGS

Comparative Evaluation of Total Alkalinity Analytical Methods

- This study will compare total alkalinity values produced by the manual titration method to the automated titration method and will compare total alkalinity values produced using the automated titration method among two laboratories, the USGS New England Water Science Center, East Hartford, CT, Laboratory and UCONN, Department of Marine Science, Environmental Chemistry & Geochemistry Laboratory. Results of this comparison will be published in a journal and be an important reference for future scientific studies that aim to characterize changes and trends in alkalinity from the freshwater systems to open Long Island Sound.
- Project Cost \$50,000 (no match); Oct 1, 2026 to September 30, 2027

Synthesis of Science on Nitrogen Loading to Long Island Sound

- The objective of this project is to synthesize the findings of previously conducted studies to develop an updated, comprehensive picture of what is and is not known of nitrogen loading to Long Island Sound. As part of that analysis we will highlight areas of consensus, shed light on important nuances, and identify critical unanswered questions. An open-access, peer-reviewed manuscript and annotated bibliography will be published from this project.
- Project Cost \$275,000 (no match); Oct 1, 2026 to September 30, 2028

Gap Analysis



Background:

- When the 2025 CCMP was prepared, a need to assess implementation gaps was identified

Desired Outcomes:

- Better align with the CCMP goals and objectives and implement projects that fill current gaps and water quality needs.

Methodology (previously used):

- Compile projects relevant to the CWHW Goal (ex: EPA's Power BI Tracking and Reporting tool) and input that data into a master Excel spreadsheet
- Then analyzed each project to determine what objective and IA it supports, its timeline, status, and other metadata
- Then filtered and sorted each project by Implementation Action to identify implementation gaps

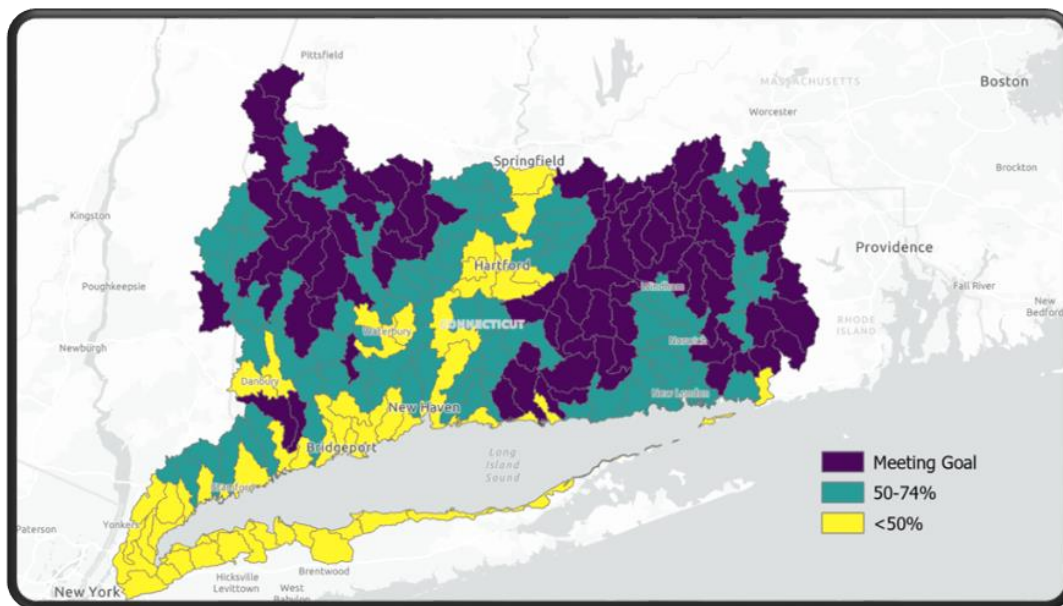
Next Steps, Based on Feedback:

- Capture Implementation Cohesively
 - Incorporate project data from other funding sources like Futures Fund, LISCIF, SRC Breaking Down Barriers, and LIS Research Fund
- Evaluate Implementation Actions Using a Risk Framework
 - Identify high-consequence gaps where additional focus would have the greatest benefit in mitigating risk
- Evaluate Projects Based on Greatest Outcome and ROI
 - Identify previously funded initiatives with greatest quantifiable outcomes that contribute to measures of success and determine scalability in additional areas of the LISW
- Gaps → Outcomes
 - Work with Subject Matter Experts to identify lead entities and projects to fulfill the needs of the gaps with highest risk

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Feature Presentation – Kate Knight

Land Cover Analysis



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- Feb 25 - Long-Term Bioextraction Research Webinar
 - Contact Kimarie – kimarie.yap@dec.ny.gov
- Feb 26 - Focusing on Fertilizers: A new tool to help target lawn fertilizer outreach
- March 5 - New Land Cover Part 1: Map viewer and data dashboards for CT and beyond
- March 19 - New Land Cover Part 2: Land cover change and trends in the LIS Watershed
 - CLEAR Webinar Series: <https://clear.uconn.edu/webinars/>
- Coastal Perspectives Lecture Series (Underway Tuesday nights)
 - <https://marinesciences.uconn.edu/lectures/>

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Final Comments and Adjourn

- **2026 Meeting Dates**
 - May 13th (will include monitoring season kick-off)
 - August 12th
 - November 4th (1st Wed due to the holiday)

Contacts:

Nicole – hammond.nicole@epa.gov

Kelly - kelly.streich@ct.gov

Hope - hope.savercool@dec.ny.gov

Tim - timothy.hunter@ct.gov

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Indicators Review Team Project Update

FY23 Land Cover Indices Update
Clean Waters Healthy Watersheds Workgroup, February 11, 2026




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Presentation Overview

- Project Background
- Phase 1 Summary
- Phase 2 Summary
- Applicability of this data for the 2025 CCMP Metrics
- Information we can gain relative to Objective's Activities



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Project Background LONG ISLAND SOUND PARTNERSHIP

Land Cover Data Indicators Review Team (IRT) Project Background

The Long Island Sound Partnership [Study] IRT had been tracking the three land cover indices through the custom Changing Landscape (CL) Land Cover data set produced by UCONN's Center for Landuse Education and Research (CLEAR). Due to the new availability of other data sets that were regularly funded, covered larger geographic scope and competing priorities CLEAR was no longer going to produce this data set and the Partnership needed to decide how to transition this metric under the 2015 COMP.

2015 — 2022 — 2023 — 2024 — 2025 — Today

2015 COMP

Data availability Updates Lead to LISS Supplemental Proposal

Phase 1 Exploring Available Data Sources

Supplemental Proposal Phase 2

Project Completion and IRT Review of Products

Presentation Title Can Go Here 3

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Project Update- Phase 1 LONG ISLAND SOUND PARTNERSHIP

Phase 1

Conduct a comparison of 30m land cover datasets (CL, C-CAP and NLCD) to better understand the implications of shifting the land cover data source for LISS [the Partnership's] indicators.

Deliverables: QAPP for Phase 2 and Report CLEAR's Report. Final Recommendation Recommended Data Source. NLCD 30m land cover is the recommended moderate resolution dataset moving forward.

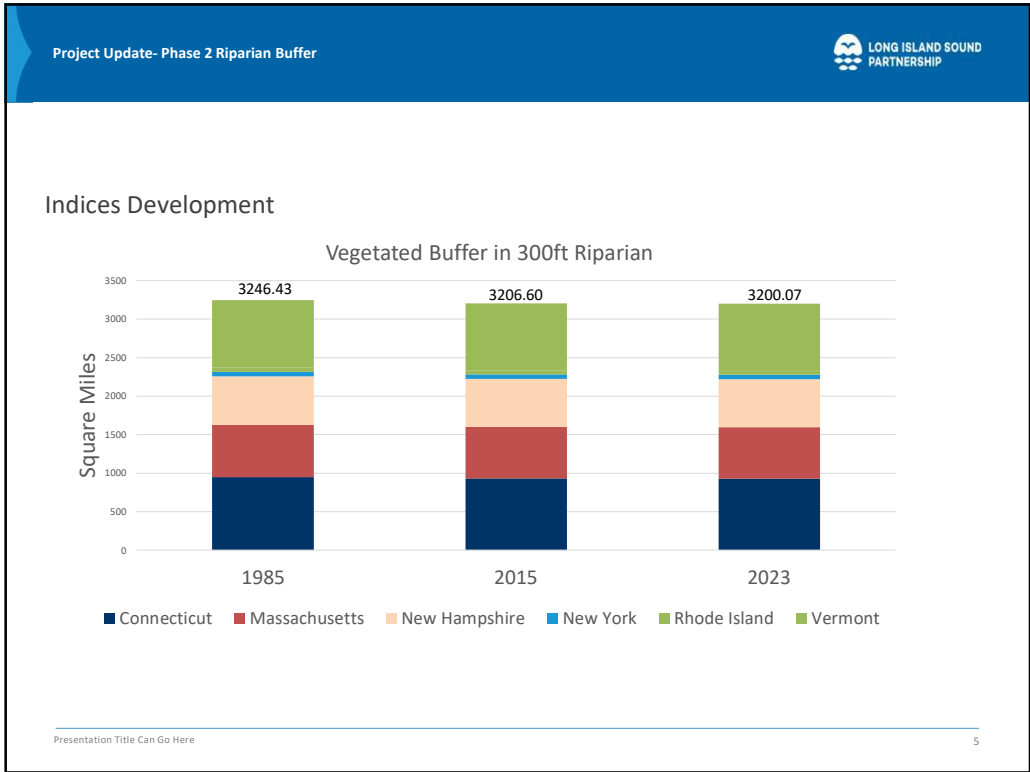
CL	1985	1990	1995	2002	2006	2010	2015		
NLCD				2001	2006	2011	2016	2021	future
C-CAP			1996	2001	2006	2010	2016		

Figure 1. An example of the regression analysis between CL, NLCD and C-CAP for Developed and Forest land cover.

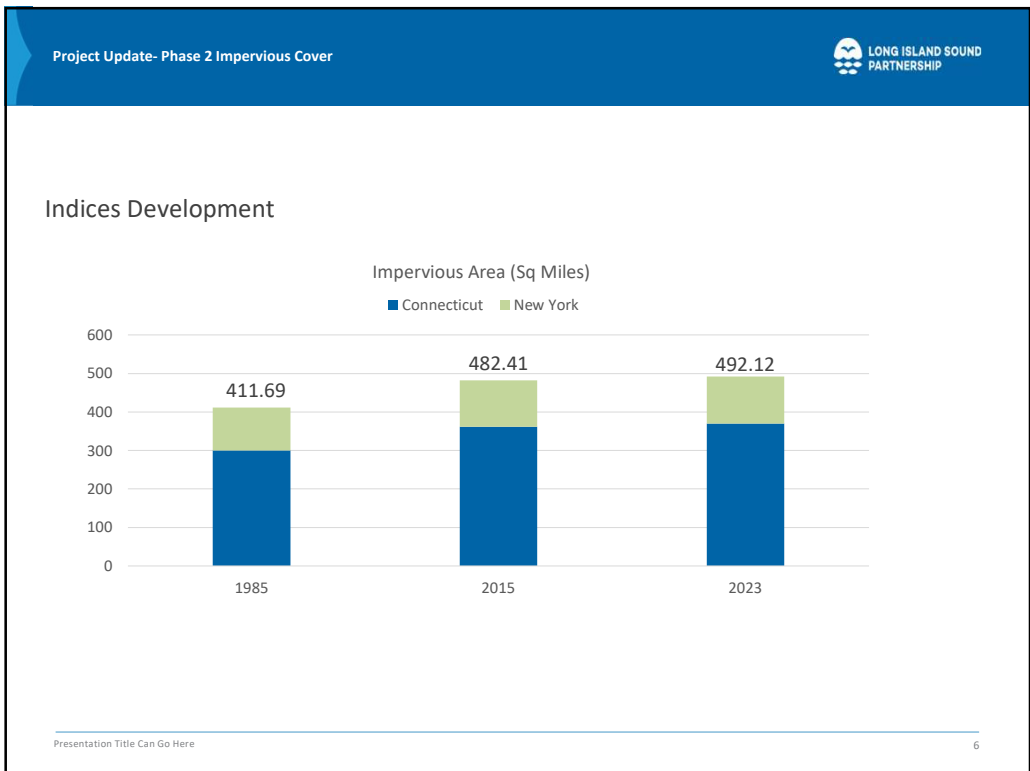
Table 1. Comparison of dates of the three land cover datasets in the study. CL is UConn CLEAR's Changing Landscape, NLCD is the National Land Cover Dataset, and C-CAP is NOAA's Coastal Change Analysis Program dataset. Blue shows only CL dates available, green shows overlap between datasets, and yellow is only NLCD. More NLCD datasets are planned. Note that NLCD also includes additional dates (2004, 2008, 2013, 2019).

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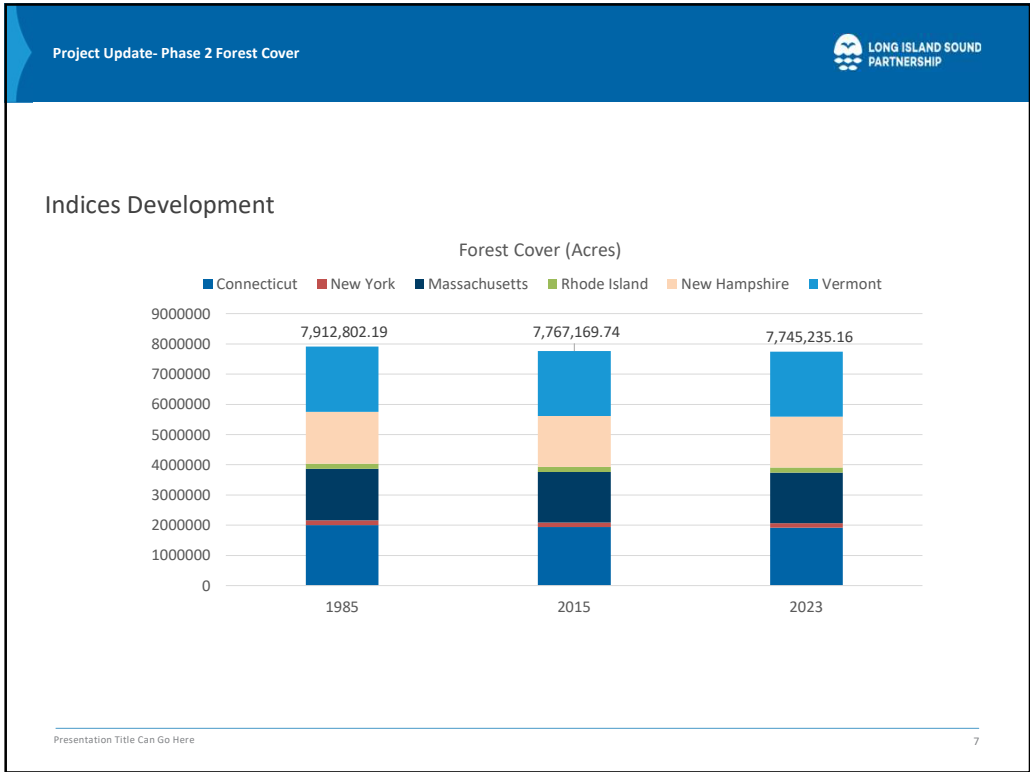
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Project Update- 2015 CCMP

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Indices & Ecosystem Target Analysis

Ecosystem Target


Impervious Cover: Through green infrastructure, low impact development, and stormwater disconnections, decrease by 10 percent the area of effective impervious cover in the Connecticut and New York portions of the watershed by 2035 relative to a 2010 baseline.

Riparian Buffer Extent: Increase the percent area of natural vegetation within 300 feet of any stream or lake in the Connecticut and New York portions of the Long Island Sound watershed to 75 percent by 2035 from the 2010 baseline of 65 percent.

Analysis Results



Behind Schedule. Impervious area increased rather than decrease.



Behind Schedule. Loss of natural vegetation in riparian area set the Partnership further back from this target rather than closer.

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Indicators Review – 2025 Watershed Health Objective

Applicability of 2025 CCMP Metrics & Information that can Facilitate the Activities.

Objective

Watershed Health: Improve the ecosystem health of LIS and its watershed through protection and positive land use practices.

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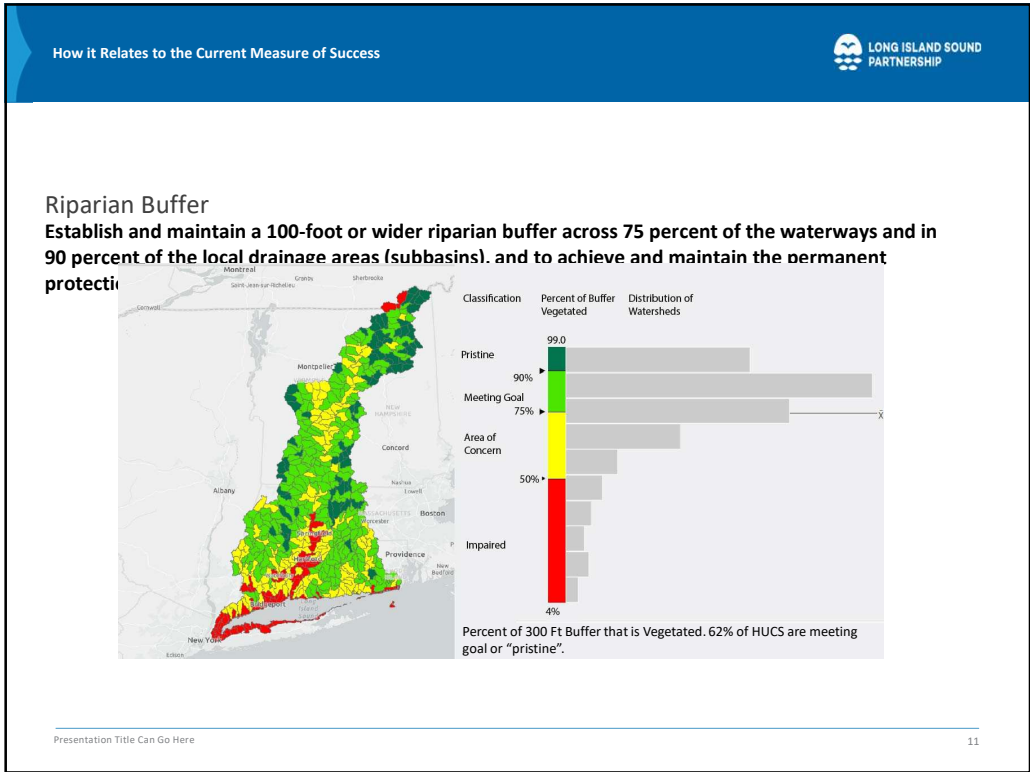
Measures

Measure of Success

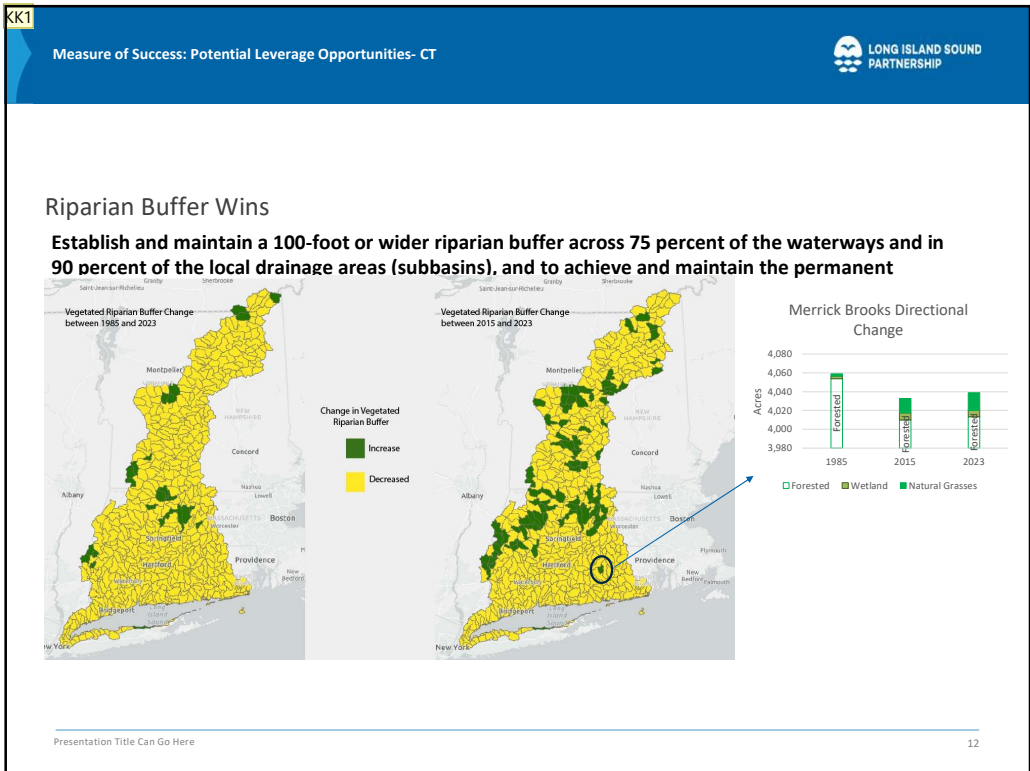
Establish and maintain a 100-foot or wider riparian buffer across 75 percent of the waterways and in 90 percent of the subbasins, and achieve and maintain the permanent protection of 35 percent of the Long Island Sound watershed by 2035. Protecting land in key areas prevents habitat loss, reduces pollution from stormwater runoff, and safeguards ecosystems that serve as natural buffers against climate impacts. The Partnership will prioritize areas that safeguard water quality, support biodiversity, enhance resilience, and provide access to green spaces for all communities. These targets build upon regional initiatives such as "30 by 30," which aim to protect 30 percent of land by 2030 while promoting ecological and community health. Additionally establishing 100-foot or wider riparian buffers aid in filtering pollutants, stabilizing streambanks, and reducing runoff.

Measurable	Measurement	Source	Frequency	Need
Riparian buffer extent	100-foot or wider riparian buffer extent of the waterways each subbasin.	UCONN CLEAR CL, NLCD, NOAA C-CAP	Every Two Years	Currently have watershed wide 30-meter resolution imagery from NLCD, but higher resolution one meter data layers exist for portions of the watershed and would be desirable throughout for a watershed wide analysis
Land protected	Percent of Long Island Sound watershed protected	State and Federal Agencies, Nongovernmental organizations	Five Years	Work group should guide the preparation of report and methods of tracking.
Land protected report	Report	The Partnership	Five Years	Work group should guide the preparation of report.
Riparian buffer extent analysis	Report	The Partnership	Five year	Work group should guide the preparation of report.
Impervious Cover (Indicator)	Square miles	UCONN CLEAR CL, NLCD, NOAA C-CAP	Every Two Years	N/A
Changes in Forest Cover (Indicator)	Square miles	UCONN CLEAR CL, NLCD, NOAA C-CAP	Every Two Years	N/A

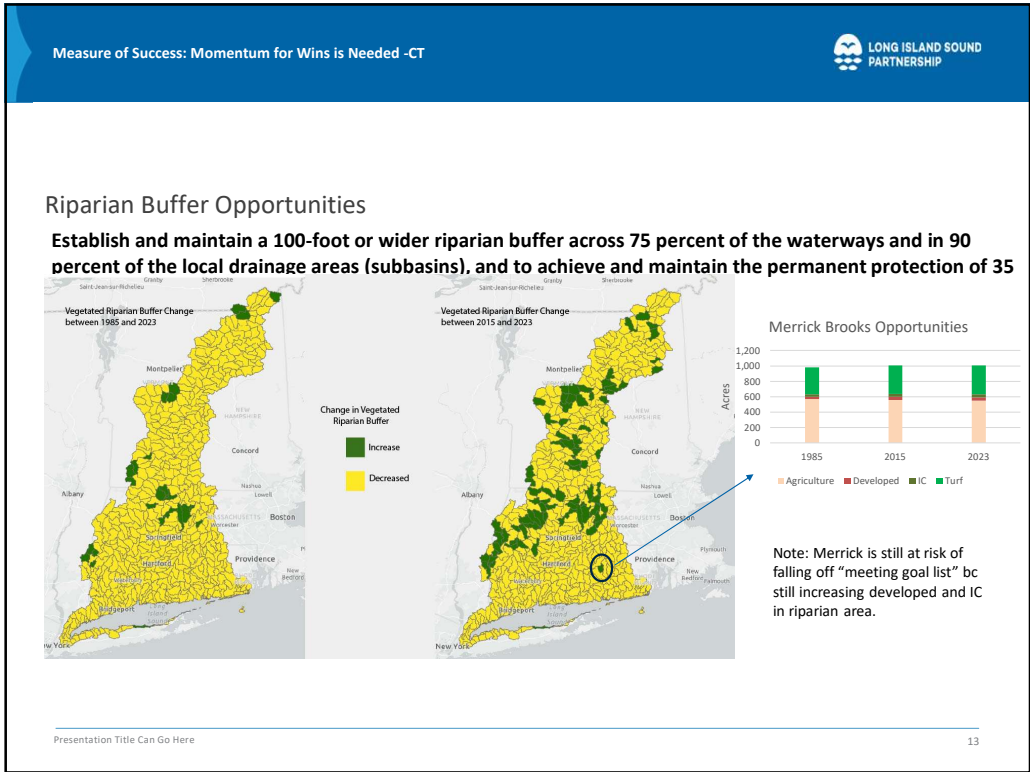
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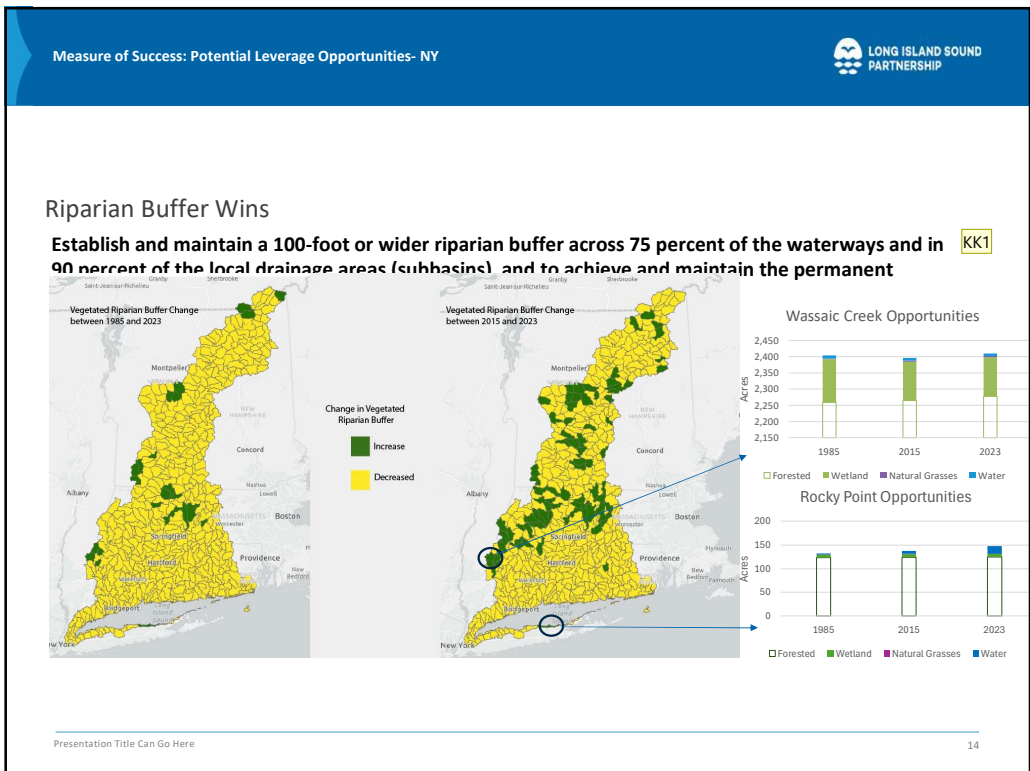
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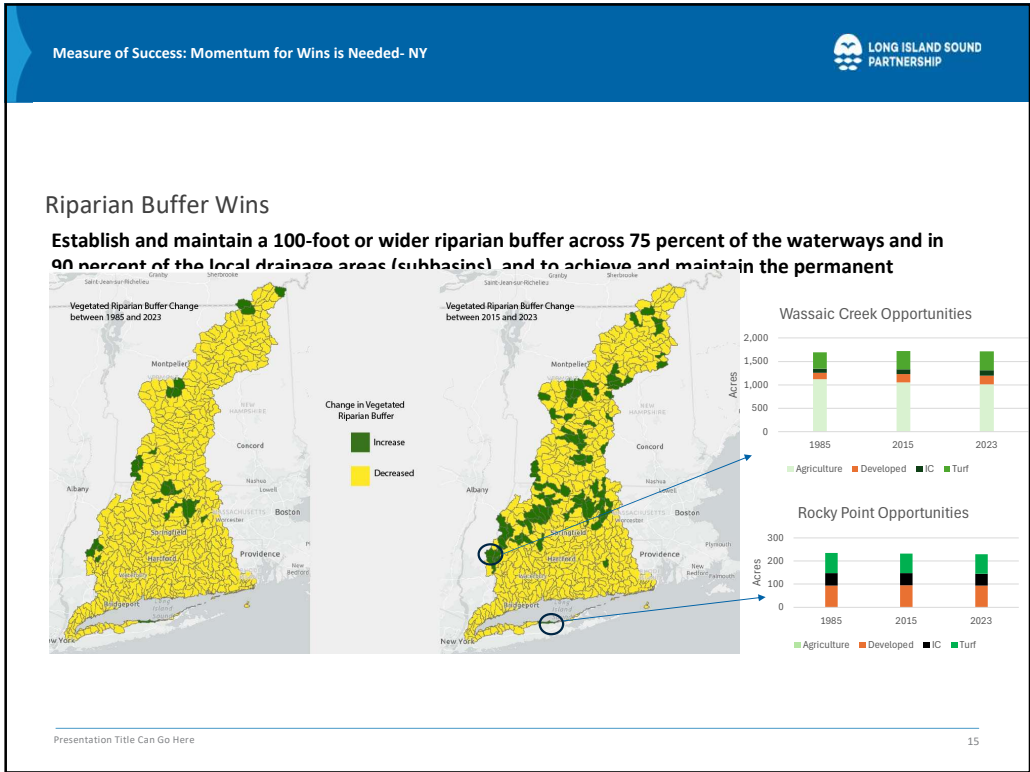
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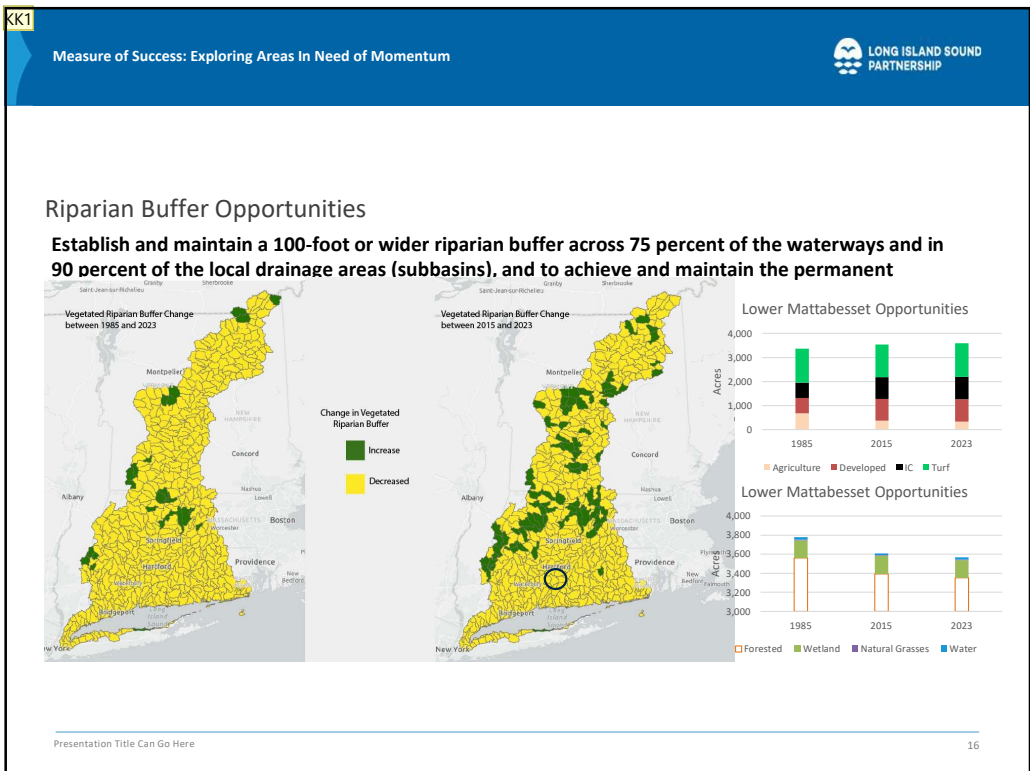
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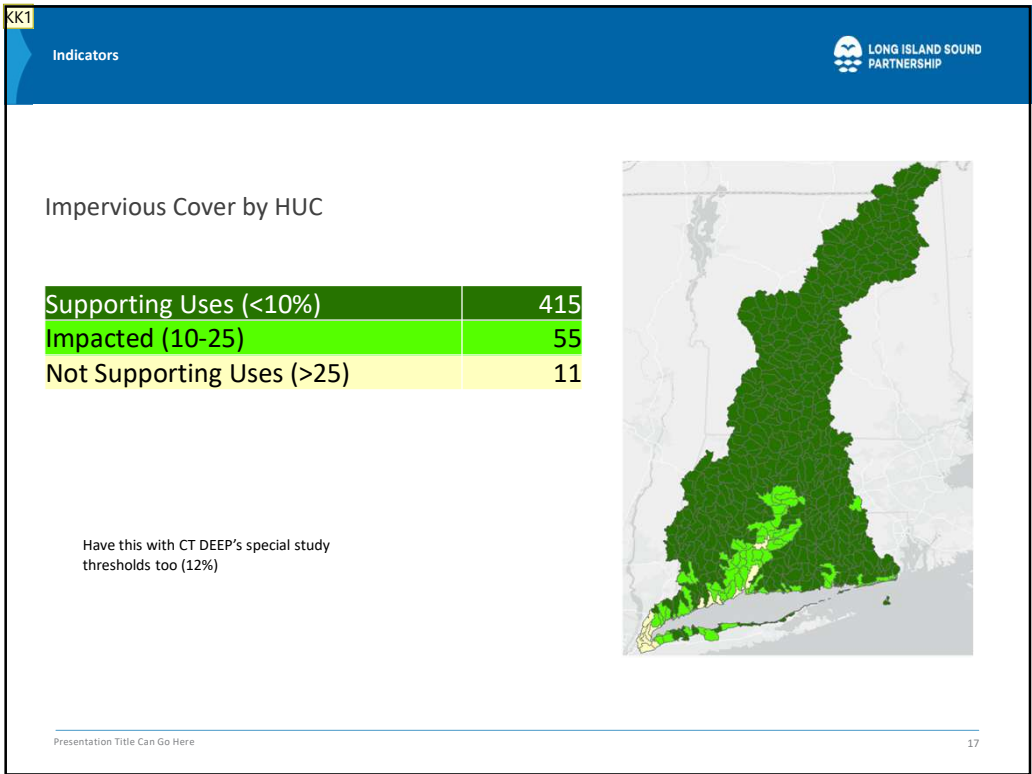
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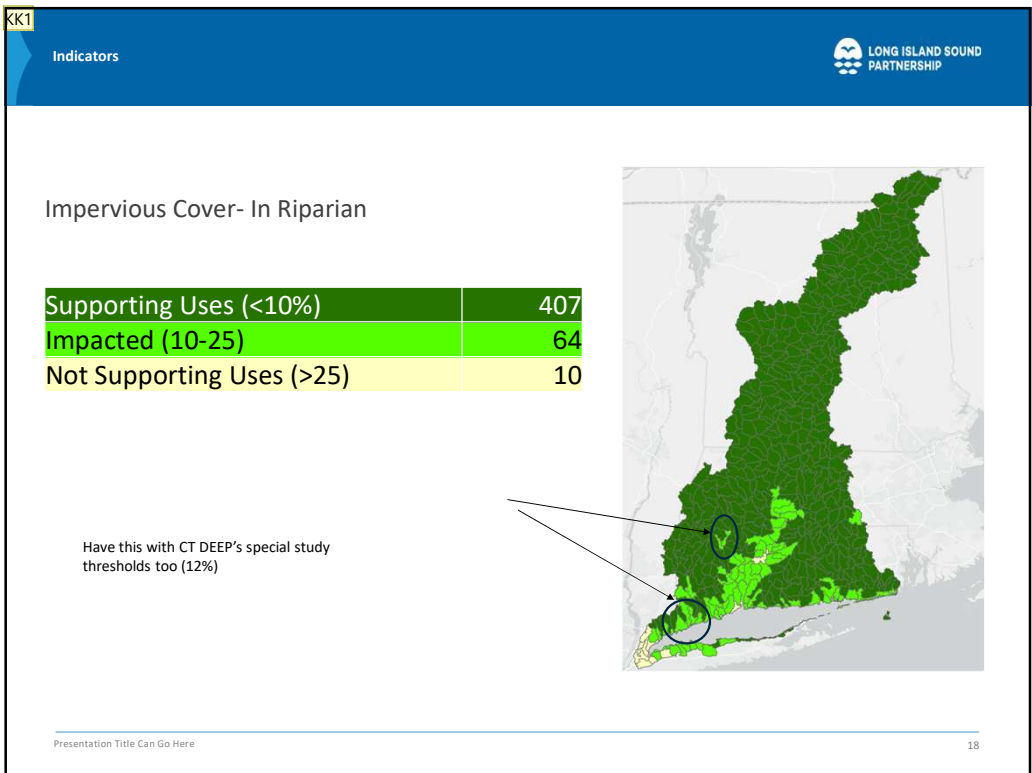
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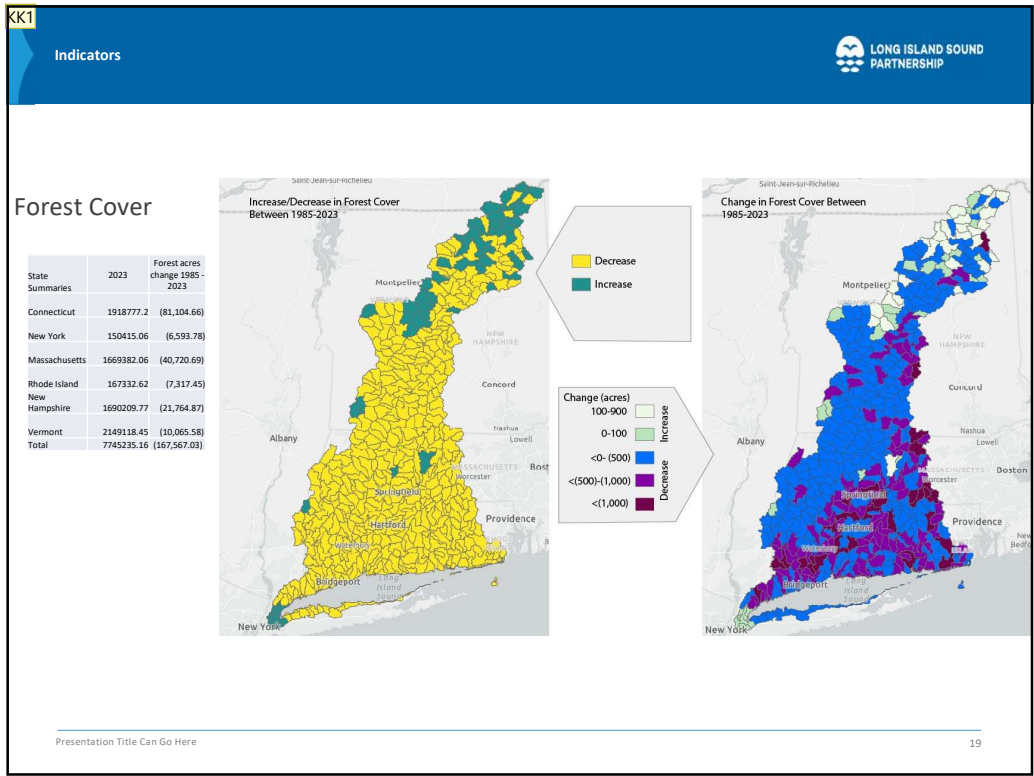
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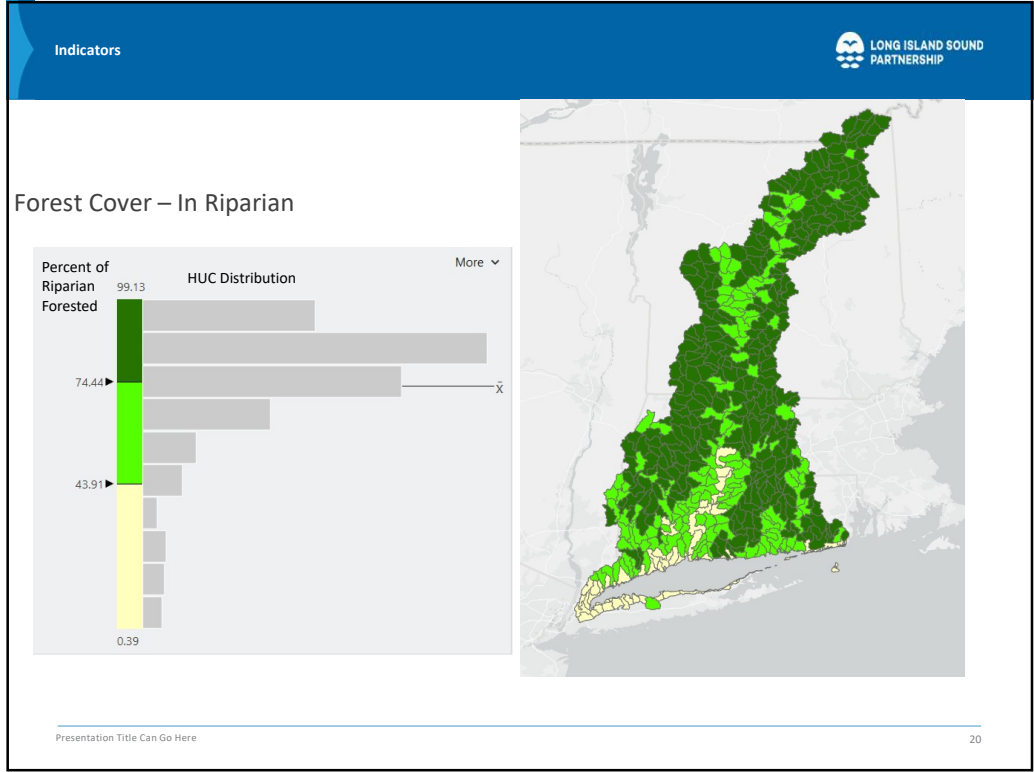
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Next Steps



CLEAR to Launch Interactive Web viewer

See [New Land Cover \(Part 1\): Map Viewer and Data Dashboards for CT and Beyond | Center for Land Use Education and Research](#)

Indicators Team to Continue Tracking

1. Seeking to update this in following fiscal year (not one we are planning now) to evaluate 2025, 2027 and potentially add a historical year.
2. Seeking workgroup to coordinate with upper watershed states to identify protected open space quantities by year and ideally procure mapping files. We need to know what data we have and what is frequency?

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