Long Island Sound License Plate Projects



Please note that this list includes all Research projects funded through the Long Island Sound Fund and is organized alphabetically by recipient.

Research

ward Recipient - Municipality or Community Affected	Award Amount/ Date Awarded	Project Status
Branford Land Trust, Inc Branford	\$16,417.81 1998	Project Fully Yes Complete?
Sybil Creek Restoration		1

A study to provide baseline data and preliminary habitat assessment of the Sybil Creek marsh system prior to restoration activities, and a follow-up presentation of the information to area residents and other interest groups.

Coast & Harbor Institute, The - Multiple Municipalities Affected: East Lyme, Groton,	\$24,050.00	Project Fully	Yes
Norwich, Stratford, Waterford	2001	Complete?	
Ome on Doulation in Course estimate Estimation Water			

Oxygen Depletion in Connecticut Estuarine Waters

A research study to provide information about oxygen depletion and ventilation of hydrogen sulfide from tidally influenced ponds and tidal rivers in Connecticut.

Connecticut Agricultural Experiment Station, The - Madison	\$24,863.00 2006	Project Fully Yes Complete?
Role of Fusarium Pathogens with Sudden Wetland Dieback in Connecticut's Long Island	l Sound	-
A research study to determine what role a fungal pathogen, Fusarium sp. might play in S vegetation.	udden Wetland Dieback (SW	D) of native tidal wetland
Connecticut College - Lower CT River tidal marshes	\$21,083.00 2002	Project Fully Yes Complete?
Restoration Ecology of the Lower Connecticut River Tidelands: Impacts of Restoration	Methodologies on Vegetation,	Macroinvertebrates and Fish
A research study to evaluate the results of efforts to restore tidal wetlands invaded by Ph	aragmites australis	
Connecticut College - Multiple Municipalities Affected: Statewide	\$20,728.00 1995	Project Fully Yes Complete?
Ecological Evaluation of the Salt Marsh Restoration of 6 Sites in Connecticut		
A study to document the changes in the vegetation of previously <i>Phragmites</i> dominated time periods to assist in the understanding of how best to arrest or eliminate <i>Phragmites</i> Long Island Sound shoreline.		
Connecticut College - Multiple Municipalities Affected: Statewide	\$16,902.00 1995	Project Fully Yes Complete?
Impact of Spread of Phragmites on Populations of Tidal Marsh Birds in Connecticut		

A research project to survey bird populations in the breeding season at 40 sites along the Connecticut coast in order to compare the bird communities in sites that have been invaded with dense stands of *Phragmites* and sites where the dominant vegetation is *Spartina* and *Typha* with a subsequent multivariate analysis conducted to determine whether the percent cover of *Phragmites* is an important predictor of the abundance of particular species of marsh birds.

Connecticut College - Multiple Municipalities Affected: Connecticut River (Lower Valley) <i>Phragmites australis the Tidelands of the Lower Connecticut River</i>	\$24,074.00 1996	Project Fully Yes Complete?
A study to evaluate the success of <i>Phragmites</i> control efforts within the brackish tidelands of the structures and functioning of these tidal wetland communities.	f the lower Connecticut Rive	r and the possible impact on
Connecticut College - Stonington	\$19,157.00 2001	Project Fully Yes Complete?
Establishment of Sedimentation-Erosion Table Monitoring Station at Wequetequock-Pawca	tuck Marshes	
A research and monitoring study to measure the changes in tidal marsh surface elevation in assist in future tidal wetland restoration projects.	relation to sea level rise, subs	idence and sedimentation to
Connecticut College - Stonington	\$22,082.93 2005	Project Fully Yes Complete?
Impacts of Salt Marsh Restoration on Microbial Community Structure and Diversity		
A research study to evaluate differences in the microbial community structure and diversity Management Area in Stonington and in other undisturbed marshes, and to identify population marsh.		
Connecticut River Estuary Regional Planning Agency - Multiple Municipalities Affected: Connecticut River (Lower Valley)	\$12,500.00 2001	Project Fully Yes Complete?
Investigation of Potential Impact of New Dock Construction on the Lower Connecticut Rive		
A research study to evaluate the potential cumulative and secondary impacts of new dock co	onstruction on the lower Conr	necticut River.
DEP Bureau of Natural Resources, Marine Fisheries - Lower CT River	\$23,583.22 2004	Project Fully Yes Complete?
Atlantic Sturgeon in Long Island Sound		
A research study to collect information about Connecticut's population of Atlantic Sturgeon	and their habitat	

 DEP/Wildlife Division - East Lyme, Groton, Lyme, Old Lyme, Stonington, Old Lyme, Lyme, East Lyme, Groton, Stonington Assessing the Impact of Mute Swan Grazing on Long Island Sound Eelgrass Beds A research study to test the hypothesis that loss of shallow water eelgrass beds can be attribut Canada geese. 	\$23,008.70 2003 ted to persistent grazing by resid	Project Fully Complete? lent mute swans a	Yes and
DEP-Bureau of Natural Resources, Wildlife Division - Multiple Municipalities Affected Statewide Diamondback Terrapin Assessment and Monitoring A survey of population distribution of diamondback terrapins, including an assessment of the	1994	Project Fully Complete? onsumption.	Yes
DEP-Environmental Services - Multiple Municipalities Affected: Connecticut River <i>Side Scan Sonar Data Collection and Mapping of Long Island Sound</i> Collection of Side-scan sonar data for integration into the DEP/U.S. Geological Survey Coop			
understand the complex sediment systems and associated habitats and pollutants of Long Isla how sediments move, and how physical processes interact with the substrate to create and mo			
EnviroGraphics - Multiple Municipalities Affected: Connecticut River	\$25,000.00 1995	Project Fully Complete?	Yes
<i>Evaluation of Geographic Distribution of Phragmites australis in the Connecticut River</i> A baseline study to characterize the extent distribution of <i>Phragmites</i> using aerial photograph systems technology and delineate <i>Phragmites</i> stands through photo interpretation, and data c		ems and global po	ositioning
Fairfield University - Fairfield	\$5,755.10 1997	Project Fully Complete?	Yes
Population Study of Diamondback Terrapins in Nell's Island Marsh			

A study to determine population and nesting characteristics of Diamondback Terrapins, an important estuarine species of turtle in the state.

Fordham University - Connecticut tidal marshes Fairfield to Stonington	\$15,012.01 2002	Project Fully Yes Complete?	
Abundance and Breeding Success of American Black Ducks, Rails and Other Waterbin	rds in Relation to Vegetation Co	over and Invertebrates	
A research study to evaluate factors important to bird abundance, species richness, and	d breeding success in Long Islan	nd Sound tidal marshes.	
Guilford Public Schools - Guilford	\$15,283.36	Project Fully Yes	
LIS Water Quality Assessment Project: Pilot Region - Guilford Harbor	1995	Complete?	
Assessment of the water quality of Long Island Sound by sixth grade students of Baldy three local watersheds, and including the seventh and eighth grade science students fro analyze and interpret the collected data, including projections of changes that may take	om Adams Middle School in the		of
	e place in Long Island Sound.		
	e place in Long Island Sound.		
Heritage Consultants, LLC - Connecticut River	\$24,971.00 2005	Project Fully Yes Complete?	
	\$24,971.00	5	
Heritage Consultants, LLC - Connecticut River	\$24,971.00 2005 ng Island Sound and integrate th	Complete?	n it
Heritage Consultants, LLC - Connecticut River Documenting Shipwrecks in the Connecticut Waters of Long Island Sound A research study to document the location of shipwrecks in Connecticut waters of Long	\$24,971.00 2005 ng Island Sound and integrate th	Complete?	n it
Heritage Consultants, LLC - Connecticut River Documenting Shipwrecks in the Connecticut Waters of Long Island Sound A research study to document the location of shipwrecks in Connecticut waters of Long	\$24,971.00 2005 ng Island Sound and integrate th	Complete?	n it

A research study to analyze localized conditions contributing to high concentrations of indicator bacteria that pose a general health hazard and prevent safe use of Long Island Sound beaches.

Madison Land Conservation Trust - Madison	\$2,950.00 1994	Project Fully Yes Complete?
Remove Airplane Hangar		
Removal of a derelict airplane hangar and associated debris from a parcel known as the Ox order to restore the site. This is the 2nd phase of a 3 phase project.	x Pasture in the East River/	Neck River marshes in Madison in
Manomet, Inc Multiple Municipalities Affected: Statewide	\$25,000.00 1999	Project Fully Yes Complete?
Assessment of Critical Migratory Shorebird Habitats along Connecticut's Coast		
Identification and mapping of critical migratory habitats for shorebirds on the Connecticut establishment of a citizen monitoring network.	coast, evaluation of use an	d status of shorebird habitats, and
Maritime Aquarium at Norwalk, The - Norwalk	\$20,571.00 2000	Project Fully Yes Complete?
Identification and Characterization of Harbor Seal (Phoca vitulina) Haul-Out Sites in the	Norwalk Islands	
A study to identify and characterize critical land based seal habitats available to harbor sea	ls in the areas surrounding	the Norwalk Islands.
Massachusetts Audubon Society - Multiple Municipalities Affected: Statewide	\$11,680.00 1999	Project Fully Yes Complete?
Anthropogenic Effects on the Distribution and Abundance of Breeding Salt Marsh Birds in	Long Island Sound and N	ew England
A 2-year regional survey of salt marsh breeding birds in Connecticut, consists of part of a Maine, and considered of highest priority by the New England section of Partner's in Fligh	t. The study includes an as	sessment of the effects of human

Maine, and considered of highest priority by the New England section of Partner's in Flight. The study includes an assessment of the effects of huma disturbance and salt marsh vegetation and size on the distribution and abundance of all breeding bird species, and establishment of a long-term monitoring program to detect possible trends in bird populations.

Nature Center for Environmental Activities - Westport	\$24,220.00 1993	Project Fully Complete?	Yes
HarborWatch/RiverWatch Research			
Scientific water quality monitoring of three southwestern Connecticut harbors (Saugatuck, N Saugatuck River, Indian River and Sasco Creek by a volunteer citizen's action group called of such waterways with resulting data and education materials shared with the public, state e in an effort to solve identified environmental problems.	Harbor Watch/River Watch to en	sure the biologica	al integrity
Sacred Heart University, Incorporated - Milford	\$19,727.50 2002	Project Fully Complete?	Yes
Population Ecology and Conservation of the Long Island Sound Horseshoe Crab (Limulus p	polyphemus)		
A research and monitoring study of the population dynamics of horseshoe crabs in Long Isla	and Sound through the use of son	ar tagging.	
Save the Sound, Inc Multiple Municipalities Affected: Guilford, Stamford, Westport	\$20,088.00 1998	Project Fully Complete?	Yes
Impact of Nutrients in Three Long Island Sound Harbors.			
A water quality testing program in Cos Cob, Stamford and Guilford Harbors.			
Save the Sound, Inc Stamford	\$25,000.00 1994	Project Fully Complete?	Yes
Monitoring Water Quality			

A water quality monitoring program to assess the water quality of two harbors (Stamford and Cos Cob) and begin to monitor Black Rock Harbor. Activities include collection of data, production of a year-end report distributed to local, state, and federal levels to justify improvements in sewage treatment plants, septic systems and land use practices.

Science Center of Connecticut, Inc Multiple Municipalities Affected: Connecticu River	t \$17,679.08 1999	Project Fully Yes Complete?	S
Amphibians and Reptiles in Connecticut River Phragmites and non-Phragmites Habitan	ts with Guidelines for Restorate	ion	
Study of diversity, abundance and health of amphibian and reptiles in <i>Phragmites</i> and n Connecticut River to assess the impacts of <i>Phragmites</i> invasion on herpetofaunal commerstoration goals for amphibians and reptiles around Long Island Sound.			
UConn – Clinton, Guilford, Madison, Old Saybrook	\$24,430.78 2006	Project Fully Yes Complete?	8
Estimating the Demographic Consequences of Wetland Fragmentation: Movement and	Survival Patterns in a Threate	ned Salt Marsh Bird	
A research study to further scientific knowledge of survival, habitat use and post-fledgli wetland bird species of special concern in Connecticut.	ing movement of Saltmarsh Sh	arp-tailed Sparrows, a tidal	
UConn - Clinton, Groton, Madison, Milford, Waterford	\$24,969.00 2003	Project Fully Yes Complete?	S
Invertebrates of Connecticut Coastal Strand Communities			
A research study to collect preliminary invertebrate inventory data for beach, sand dune first step in protecting these habitats and organisms	and grasslands communities o	f the Connecticut shoreline a	is a
UConn - Connecticut River Wethersfield to Holvoke Massachusetts	\$24 593 67	Project Fully Yes	s

UConn - Connecticut River Wethersfield to Holyoke, Massachusetts	\$24,593.67	Project Fully Yes
	2006	Complete?

Estimating Predation on Declining River Herring: Tag-Recapture Study of Striped Bass in the Connecticut River

A research study to estimate the population size of striped bass in the Connecticut River during the spring migratory period and to test the hypothesis that consumption of river herring by striped bass can account for the recent declines in river herring run strength on the Connecticut River.

UConn - Groton	\$4,469.07 2003	Project Fully Complete?	Yes
Identification guide to the larvae and early stages of LIS ascidians and bryozoans			
Creation of an identification guide to the early life stages of Long Island Sound ascidians (tu drawings, descriptions and taxonomic keys	inicates) and bryozoans (true mo	ss animals), inclu	ıding
UConn - Groton	\$24,946.24 2008	Project Fully Complete?	Yes
Studies on the Benthic Biology of Mumford Cove, Groton, CT: Assessing the Extent of Habia	tat Restoration		
A research study to document the conditions of the benthic communities in Mumford Cove is treatment plant effluent discharge into the cove in 1987, and to assess the rate of benthic cor	e e	ion of a former s	ewage
UConn - Haddam	\$24,574.57 2002	Project Fully Complete?	Yes
Rain Garden Pollutant Removal Efficiency			
Installation and monitoring of a rain garden at the Cooperative Extension building to test the rainwater, with a focus on nitrogen removal.	e effectiveness of a rain garden to	o remove pollutar	ts from
UConn - Long Island Sound	\$24,902.75 2005	Project Fully Complete?	Yes
A Comprehensive Assessment of the Distribution of Saltmarsh Sharp-Tailed Sparrows in Co	nnecticut		
A research study to conduct a survey of salt marshes throughout Connecticut to document th sharp-tailed sparrow.	e full range of a state special cor	ncern species, the	saltmarsh
UConn - Milford, New Haven	\$23,337.41 2003	Project Fully Complete?	Yes
Determining winter flounder spawning sites in two Connecticut estuaries		-	

A research study to determine winter flounder spawning habitat requirements and essential fish habitat of the winter flounder egg in New Haven Harbor and Milford Harbor

UConn – Deep River, Essex, Lyme, Old Lyme, Old Saybrook	\$24,866.00	Project Fully Yes
	2008	Complete?

The Expansion of the Long Island Sound Integrated Coastal Observing System to the Connecticut River for Environmental Education and Research

Expansion of the current Long Island Sound Integrated Coastal Observing System (LISICOS) through installation of new sensors in the Connecticut River at the DEP Marine Headquarters facility in Old Lyme and at the Connecticut River Museum in Essex, and collaboration with the U.S. Geological Survey (USGS) and the Connecticut River Museum in Essex to provide long-term observations of temperature, salinity and sea level to allow the assessment of the effect of global scale climate changes on the ecosystem of Long Island Sound and the Connecticut River, and to provide public educational opportunities.

UConn - Multiple Municipalities Affected: Statewide	\$25,000.00	Project Fully Yes
	1998	Complete?
Development of an Estuary Watch Program and Use of Fundulus heteroclitus as	a Biomarker of Estuarine Health.	

Development of an activery watch measure involving high school students to evolve the health of Connectious estuaries, wing mu

Development of an estuary watch program involving high school students to evaluate the health of Connecticut estuaries, using mumichogs as an indicator species.

UConn – Norwalk, Orange, Stonington	\$14,800.00	Project Fully Yes
	2006	Complete?

A Molecular Genetic Approach to Evaluate Herbicide Resistance and Vectors of spread for Populations of the Invasive Aquatic Plant Hydrilla verticillata (Hydrocharitaceae) in Connecticut

A research study to determine the genetic composition of Connecticut populations of the highly invasive aquatic plant, *Hydrilla verticillata* in an effort to develop an effective strategy to manage this non-native species.

UConn - Statewide	\$24,635.00	Project Fully Yes
	2002	Complete?

Effects of Artificial Lighting on Beach-Nesting Waterbirds: Integrating Experimental and Observational Studies

A research study to determine the effects of artificial lighting on beach-nesting birds including piping plover and least terns.

UConn - Statewide	\$24,417.88 2002	Project Fully Complete?	Yes
Saltmarsh Breeding Sparrows in Long Island Sound Marshes: Testing the Status of Globally	Important Populations		
A two-year survey to document population sized of saltmarsh sharptailed and seaside sparro tidal marsh habitats for these projects.	ws to quantify the global imp	portance of Long Islar	nd Sound
UConn-Dept. of Ecology & Evolutionary Biology - Multiple Municipalities Affected: Statewide	\$24,837.50 1999	Project Fully Complete?	Yes
Impacts of Development on Connecticut's Coastal Resources: A Case Study of Eriocaulon p	arkeri, a State Threatened Sp	pecies.	
A study to examine the ecological requirements of Parker's Pipewort to define and map its c recreational dock construction.	ritical habitat and evaluate in	npacts resulting from	
University of Hartford - Groton	\$13,934.09 2005	Project Fully Complete?	Yes
Growth Rates of Didemnum sp. In Different Habitats and the Species Potential to Impact Ed	cological Communities in Lor	ig Island Sound	
A research study to assess the relative growth of the invasive colonial ascidian <i>Didemnum</i> spectrum depths, salinities, and coastal land use patterns.	p. under different environmen	ntal conditions such as	s different

University of New Haven - Multiple Municipalities Affected: Statewide	\$24,899.00	Project Fully Yes
	1997	Complete?

An Assessment of Imaging Technologies for Mapping Shallow Water Habitats Along the Connecticut Coast

A study to evaluate the merits of three technical imaging techniques to determine shallow water coastal habitats for the purpose of finding the most economical and effective way to establish the populations and distribution of marine fisheries species along the state's coast.

University of New Haven - Multiple Municipalities Affected: Housatonic River Valley	\$24,537.86	Project Fully Yes
	1999	Complete?

Habitat Utilization by Fish and Invertebrates in Phragmites and Spartina Marshes on the Housatonic River

A research project to quantify utilization of *Phragmites* and *Spartina alterniflora* dominated marsh habitat by fish and invertebrate species on the lower Housatonic River, and to test the hypothesis that decreased flooding and a smaller number of tidal creeks within a *Phragmites* monoculture reduces habitat quality and affects feeding habits of nekton species. A component of the study is cataloging distribution of habitat type, as defined by flooding, vegetation, and abundance of creeks, in a GIS database for use as a management and education tool for the lower Housatonic River Estuary.

William H. Moorhead, III - Connecticut River	\$24,700.00	Project Fully Yes
	2005	Complete?

Modeling, Mapping, and Monitoring the Complex Mosaic of Plant Biodiversity of a Brackish Tidal Wetland, Ragged Rock Creek, Connecticut River

A research study to describe, model, and map the plant biodiversity of Ragged Rock Creek tidal marshes, using advanced remote-sensing techniques and modern analysis as a means to quantify the complex mosaic of a large brackish marsh tidal system.

Yale University - Branford	\$24,915.88	Project Fully Y	Yes
	2005	Complete?	

Restoration of River Herring to Pisgah Brook and Linsley Pond; Patterns of Population Recovery and Ecological Effects

A research and outreach study in the Linsley Pond, Pisgah Brook watershed to support river herring restoration efforts and expand research to understand patterns of population recovery during restoration, and to assess the impact of restored river herring populations on local ecological processes.

Yale University - Branford Rivers	\$24,752.00	Project Fully Yes
	2005	Complete?

Refractory Nitrogen in Discharges and Streams

A research study to evaluate the potential for refractory nitrogen in sewage treatment effluent and unpolluted streams to cause hypoxia.

Yale University - Multiple Municipalities Affected: New Haven, West Haven	\$27,485.00 1994	Project Fully Complete?	Yes
West River Biological Inventory			
An inventory to acquire baseline data on existing floral and fauna communities of the West F in New Haven.	River Memorial Park salt marsh,	a coastal watersh	ned system
Yale University - Multiple Municipalities Affected: Connecticut River	\$24,293.00 1997	Project Fully Complete?	Yes
The Impact of Phragmites australis on Plant Community and Nutrient Dynamics in the Conn	ecticut River Tidal Marsh Ecosy	estem	
Investigation of the processes used by <i>Phragmites australis</i> , or Common Reed, to invade and exploring the relationship between nutrient cycling within the marsh and competitive plant d used to assist resource managers in effectively managing coastal resources to ensure necessar	ominance. Information collected		
Yale University - Multiple Municipalities Affected: Connecticut River	\$23,000.00 1998	Project Fully Complete?	Yes
Genetic Structuring of Phragmites australis in the Tidelands of the Connecticut River.			
A study of the genetic structure of common reed, comparing historic samples with modern de variance between the two, and ultimately providing valuable information which may be used			genetic
Yale University - Multiple Municipalities Affected: Connecticut River (Lower Valley)	\$16,354.40 1999	Project Fully Complete?	Yes
Impacts of Docks on Submerged Aquatic Vegetation			
A study to evaluate the impacts of docks, moorings and boating activity on submerged aquat	ic vegetation of the lower tidal C	Connecticut River	
Yale University - Quinnipiac & Naugatuck Rivers	\$24,975.00 2002	Project Fully Complete?	Yes
Isotopic Nitrogen and Oxygen Ratios in Nitrates Delivered to Long Island Sound			

A research study to test the utility of using isotopic signatures for identifying sources of nitrate to Long Island Sound in the Quinnipiac and Naugatuck River watersheds.

Yale University - Statewide	\$25,000.00	Project Fully Yes
	2008	Complete?

Efficiency of Standard Storm Water Best Management Practices for Nitrogen Removal

A research study to measure untreated stormwater nitrogen (N) concentrations at 15 municipal stormwater sites to determine whether there are consistently high N stormwater sites; assess Best Management Practices (BMP) performance with both low N and high N stormwater through measurements of influent and effluent flow and N concentration; and extrapolation of data to address the question of whether these BMP's are effective enough to realistically achieve a 10% reduction target.

Yale University, Dept. of Geology and Geophysics - Milford	\$20,932.70 2000	Project Fully Yes Complete?
An Investigation of the Benthos at Milford Point and its Relationship to Migratory S	horebird Foraging Activities	
A detailed sampling study of benthic organisms at Milford Point and their relationsh	ip to foraging migratory shorebirds	5.
Yale University, Forestry & Environmental Studies - New Haven	\$5,206.00 2000	Project Fully Yes Complete?
West River Fish Ladder Feasibility Study		

A study of anadromous fish usage of the West River in New Haven to provide baseline data prior to the construction of a fishway over Pond Lily Dam.

Number of Projects: 57

LISF Amount Awarded for These Projects: \$1,200,101.96

Long Island Sound License Plate Program