

## Coastal Resilience Grants - FY 2014 Project Summaries

Applicant	Project	Award
Town of Barnstable	<p><i>Community Rating System Application Assistance and Outreach</i></p> <p>The town prepared an application for the National Flood Insurance Program (NFIP) Community Rating System (CRS), a program that encourages community floodplain management activities. CRS-rated communities receive discounted flood insurance premium rates to reflect the reduced flood risk. The application included an analysis of existing and potential flood risks due to sea level rise to help the town better prepare future adaptation planning efforts. The town also developed a CRS application template for other communities and conducted a workshop for regional and municipal officials on changing coastal flooding and sea level rise impacts and the CRS application process.</p>	\$52,560
Town of Barnstable	<p><i>Shoreline Stabilization of North Barnstable Public Beaches Using Bioengineering Solutions</i></p> <p>The town stabilized Blish Point – Millway Beach using sand-filled coir bags, native plantings, and sand fencing to protect substantial public access infrastructure and an engineered containment basin that has been used to store dredged sediments.</p>	\$186,500
City of Boston	<p><i>Designing for the Rising Tide: A Climate Change Preparedness Competition for Boston Harbor</i></p> <p>The city, in partnership with the Boston Redevelopment Authority, The Boston Harbor Association, and the Boston Society of Architects, hosted an international design competition to generate innovative and resilient strategies for addressing sea level rise adaptation challenges to building, neighborhood, and infrastructure sites in Boston.</p>	\$86,000
Town of Brewster	<p><i>Building Coastal Resilience in Brewster</i></p> <p>The town studied sand volumes and movement along the shoreline, identified beaches and other natural systems at risk of erosion and sea level rise impacts, and developed engineering plans to relocate vulnerable beach parking areas and access sites. The project included design plans to move one of the town's largest beach parking lots to a more inland and elevated area.</p>	\$200,000

Town of Brewster	<p><i>Brewster Green Infrastructure Project: Coastal Resilience at Breakwater Beach</i></p> <p>The town removed an asphalt parking area at Breakwater Landing; restored dune habitat with sand, native vegetation and fencing; provided a seasonal boardwalk for beach access; and relocated 30 parking spaces to a less vulnerable location.</p>	\$155,000
Town of Chilmark	<p><i>Squibnocket Town Beach Restoration and Expansion</i></p> <p>The town completed archeological surveys of Squibnocket Town Beach, the parking area and skiff launch and prepared preliminary design plans for the expansion and restoration of the beach.</p>	\$20,000
Duxbury Beach Reservation, Inc.	<p><i>Cobble Berm Restoration and Construction of Nurseries for Native Beach Grass Cultivation</i></p> <p>The Duxbury Beach Reservation, in partnership with the towns of Duxbury and Kingston, restored an eroded cobble berm along a critical access road and constructed two beach grass nurseries to provide dedicated local sources of native vegetation.</p>	\$86,947
City of Gloucester	<p><i>Gloucester Climate Change Vulnerability Assessment</i></p> <p>The city conducted a climate change vulnerability assessment to develop targeted strategies aimed at reducing risks from flooding and increased storm intensity. The project also used scenario planning to help the public and local officials understand the range of possible future conditions.</p>	\$50,000
Town of Gosnold	<p><i>Improving the Coastal Resilience of Barges Beach on Cuttyhunk Island</i></p> <p>The town evaluated beach nourishment, dune restoration, and other green infrastructure options to strengthen the resilience of Barges Beach on Cuttyhunk Island. Engineering plans were developed for the preferred alternative of a mixed-sediment beach and dune restoration project to advance through permitting.</p>	\$205,875
Town of Hingham	<p><i>Hingham Climate Change Vulnerability, Risk Assessment and Adaptation Study</i></p> <p>The town assessed infrastructure and facilities vulnerable to sea level rise and climate change and recommended strategies to manage existing infrastructure and natural resources, and plan for future adaptation.</p>	\$44,461

Town of Hull	<p><i>Gun Rock/Atlantic Avenue Storm Damage Adaptation Project</i></p> <p>The town redesigned a revetment and seawall along Crescent Beach to reduce property damage, environmental impacts and public safety threats from storm events. The project included public outreach to educate residents about strategies to limit the flow of overwash material into Straits Pond.</p>	\$41,250
Martha's Vineyard Shellfish Group, Inc.	<p><i>Demonstration of Living Shoreline Technology and Development of Ribbed Mussel Seed Production to Protect and Restore Salt Marsh in Coastal MA</i></p> <p>The Martha's Vineyard Shellfish Group, with many partners including the towns of Edgartown, Oak Bluffs and Tisbury, conducted preliminary investigations into the hatchery production of ribbed mussels and tested "living shoreline" techniques (using ribbed mussel, coir log and marsh grass for shoreline protection) at four pilot sites in embayments on Martha's Vineyard.</p>	\$35,262
Town of Newbury	<p><i>Building Capacity for Resilience of Human and Natural Communities in the Dune System of Newbury</i></p> <p>The town restored dunes and public access paths using beach grass, fencing, and invasive species removal with technical assistance from the University of New Hampshire. The team also trained local volunteers to help complete the dune plantings, install the fencing, and monitor conditions.</p>	\$145,000
Town of Oak Bluffs	<p><i>Town of Oak Bluffs Pump Station Hazard Mitigation Projects</i></p> <p>The town improved three wastewater pump stations to mitigate existing flood hazards and address future sea level rise impacts. These pump stations serve nearly the entire sewered population in Oak Bluffs.</p>	\$200,000
Town of Plymouth	<p><i>Long Beach Restoration/Enhancement</i></p> <p>The town evaluated green infrastructure alternatives to reduce overwash impacts along Long Beach. A mixed-sediment (sand, gravel, cobble) nourishment project was selected as the preferred alternative to provide storm damage protection to Plymouth Harbor and a critical emergency evacuation route.</p>	\$75,000
Town of Provincetown	<p><i>Coastal Resiliency Assessment and Strategic Beach Stabilization Pilot Project</i></p> <p>The town and its partners completed an analysis of sand volumes and transport from Wellfleet to Provincetown. The town also identified and designed a dune restoration and beach stabilization project to mitigate coastal erosion and flooding problems.</p>	\$100,000

City of Salem	<p><i>Rosies Pond Neighborhood Resiliency Project</i></p> <p>The city redesigned a flood control project for the Rosies Pond neighborhood to account for climate projections and increase the neighborhood's ability to endure impacts associated with storms and the effects of flooding and sea level rise. The project included public presentations and a workshop series on understanding climate impacts and potential adaptation strategies.</p>	\$200,000
Town of Scituate	<p><i>North Scituate Beach Nourishment</i></p> <p>The town conducted sediment sampling and developed engineering plans to permit a beach nourishment project along Glades and Surfside Roads.</p>	\$118,000
Town of Weymouth	<p><i>Fore River Avenue and Fort Point Road Seawall Reconstruction</i></p> <p>The town evaluated alternatives and developed final design plans for seawall reconstruction projects at Fore River Avenue and Fort Point Road.</p>	\$22,605
<b>Total</b>		<b>\$2,024,460</b>