



# NEW HAMPSHIRE SEA GRANT



February 2018

New Hampshire Sea Grant is one of 33 Sea Grant college programs and is based at the University of New Hampshire.



Volunteers plant beachgrass and restore dunes in Salisbury, Massachusetts, as part of a larger dune restoration effort that stretches between N.H. and M.A.  
Credit: Rebecca Ireland, N.H. Sea Grant

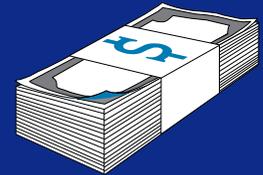
## N.H. Sea Grant increases community resilience through sand dune restoration

New Hampshire Sea Grant and the University of New Hampshire have engaged over 500 student and adult volunteers and 63 teachers to increase coastal resilience in New Hampshire and northern Massachusetts by restoring sand dunes degraded by both natural processes and human impacts. These individuals volunteered a total of 2,900 hours and planted approximately 80,000 stems of beachgrass and goldenrod to restore dunes in five coastal communities. Restored dunes provide a natural buffer from storm events and protect the coastline against flooding and erosion.

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**\$6.06 M**

Economic benefit



**2,700**

PreK - 12 students reached

**17**

Businesses created or sustained



Metrics reported to National Sea Grant Office in June 2017 for work completed February 2016 to January 2017



RESEARCH

EXTENSION

EDUCATION

## N.H. Sea Grant helps grow the local sea vegetable market



Sea Grant aquaculture specialist Michael Chambers examines sugar kelp growth on lines below the UNH Pier in New Castle, N.H.

Credit: Rebecca Irelan, N.H. Sea Grant

- New Hampshire Sea Grant continued its partnership with a Dover, N.H. restaurant by expanding on the “learn and dine” workshops that educate consumers about the benefits of incorporating sea vegetables into their diets. In 2016, N.H. Sea Grant included field-based workshops to help consumers identify and forage for seaweed along the New Hampshire coast. A new sea vegetable market opportunity emerged when a local brewery used sugar kelp grown by N.H. Sea Grant to brew a specialty beer which received positive regional and national media attention.

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**“New Hampshire Sea Grant provided a method for me, as someone who didn’t really know a lot about working on the water, to actually get involved and to get hands-on experience learning about how to work in the ocean environment.”**

-Daniel Tauriello, aquaculture entrepreneur and 2014 New Hampshire Sea Grant Doyle Fellow

### Identifying Roads at Risk of Rising Groundwater



N.H. Sea Grant-funded researchers developed computer models that indicated rising groundwater due to sea-level rise would likely affect two critical New Hampshire roads first: Route 286 and Gosling Road in Portsmouth. These results will help the New Hampshire Department of Transportation prioritize upgrades to these roads in the coming years.

### Improving STEM Education



N.H. Sea Grant continued a collaboration within the University of New Hampshire to partner with the Ocean Exploration Trust. The partnership focuses on increasing STEM education engagement in New Hampshire. Sixty-three teachers participated in training workshops and 415 participants viewed 15 live interactions with the exploration vessel E/V Nautilus.

### Climate in the Classroom Program



N.H. Sea Grant staff worked with partners and teachers to conduct a Climate in the Classroom Program, where 45 fifth-grade students learned about climate change and discussed the potential impacts to their community. The students then designed and presented posters about their work at a community event attended by more than 90 community members.