

Virginia Sea Grant is one of 33 Sea Grant college programs and is a multi-university network based at the Virginia Institute of Marine Science at the College of William & Mary.



A worker measures out crabmeat into cans for pasteurization. Credit: Jenn Armstrong, Virginia Sea Grant

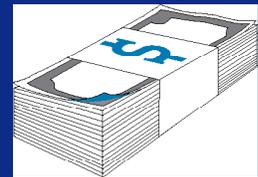
### Virginia Sea Grant trusted to improve seafood safety standards

Virginia Sea Grant offers safety training for seafood processors. In 2016, Sea Grant extension specialists organized and conducted 18 seafood safety trainings and workshops for 292 participants from 64 food processing companies. Trainings included Hazard Analysis and Critical Control points (HACCP), Good Manufacturing Practices (GMP's), Food Allergens, Sanitation Control Procedures (SCP), and Servsafe. For the first time in Virginia, a Good Agricultural Practices (GAP) Spanish-language workshop was provided for Hispanic seafood growers.

[vaseagrant.org](http://vaseagrant.org)

**\$6.7 M**

Economic benefit



**50**

Businesses created or sustained

**115**

Undergraduate and graduate students supported



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



RESEARCH

EXTENSION

EDUCATION

## Teacher workshops improve science curriculum in Virginia schools



Teachers model how melting ice affects sea level.  
Credit: Janet Krenn, Virginia Sea Grant



Educators from the VIMS/Virginia Sea Grant Extension Program have been leading classroom science teachers in field explorations of the diverse habitats of Virginia’s Eastern Shore and its barrier islands since 2001. In 2016, fourteen middle and high school teachers attended the rigorous Virginia Coastal Ecosystem Field Course. A follow-up survey revealed 78% of participants incorporated more ocean science concepts in their curricula, and 100% of participants incorporated more topics involving coastal issues, climate change and research techniques into classroom activities. Classroom activities improved science literacy for 1,264 students across Virginia.

[vaseagrant.org/outreach-education/literacy](http://vaseagrant.org/outreach-education/literacy)

**“I learned so much as a professional and a student from the course, which made me much more comfortable with teaching my students about the impacts they can have on the bay!”**  
- Virginia science teacher who participated in the Virginia Coastal Ecosystem Field Course

### Increasing Water Access for Recreational Boaters



In 2016, Virginia Sea Grant’s technical assistance was instrumental in helping the marine recreational boating community secure \$1.57 million in funding from the Department of Interior’s Boating Infrastructure Grant Program (BIG). BIG funding helps sustain Virginia’s working waterfronts, recreation and tourism industries, coastal access and vibrant coastal and marine technology jobs.

### Developing a Deep-Sea Red Crab Fishery



Virginia Sea Grant helped industry members build an on-shore recirculating holding system for live red crab to help develop the fishery in Virginia. In 2016, 237,585 pounds of crab were harvested and moved through the on-shore holding facility before being packaged for sale at a total value of \$534,566. The holding facility was optimized in 2017, which will help boost productivity for the fishery.

### Building a Coastal Resilience Workforce



Virginia Sea Grant forged a new public-private partnership with a national architecture and engineering firm to train Virginia’s architecture, engineering and natural science students to become leaders in innovative, pre-disaster, resiliency design strategies. The inaugural 2016 fellow, Michael Stelfox, researched and designed green infrastructure to mitigate flooding in a coastal neighborhood.