



OREGON SEA GRANT



February 2018

Oregon Sea Grant is one of 33 Sea Grant college programs and is based at Oregon State University.



A fisherman answers questions about crabs during a Shop at the Dock tour in Newport, Oregon. Credit: Lynn Ketchum, Oregon State University

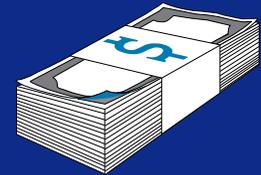
Oregon Sea Grant's Shop at the Dock program directly connects consumers and fishermen

Oregon Sea Grant's Shop at the Dock program instructs consumers how to buy seafood directly from vessels, increasing fishermen's overall sales. In 2016, approximately 600 consumers participated in Shop at the Dock, and about 60% bought fish while on the tour, spending anywhere between \$20 and \$100. Participating businesses reported approximately \$10,000 in product sales through the Shop at the Dock program. Oregon Sea Grant expanded the event to Warrenton, Oregon in 2017.

seagrant.oregonstate.edu

\$12.7 M

Economic benefit



45,000

K-12 Students reached

60

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

Oregon Sea Grant-funded research forecasts how flooding may affect bays



Kai Parker, a doctoral candidate funded by Oregon Sea Grant, models how climate change affects flooding in Oregon's coastal bays. Credit: Tiffany Woods, Oregon Sea Grant

An innovative modeling approach supported by Oregon Sea Grant better predicts how climate change could affect flooding in the Tillamook and Coos bays to inform state and local development planning. Accurate flood maps are essential for infrastructure development in coastal communities. Moreover, critical estuarine species and habitat, such as eelgrass, will likely shift distribution due to the pressure of future storms. In 2016, the Oregon Department of Geology and Mineral Industries incorporated the modeling results into 100-year GIS flood maps for these estuaries, and model results could be further used by local municipalities in future planning efforts.

seagrant.oregonstate.edu/research

“I teach in a school where some students don’t know where their next meal will come from, or even where they’ll be sleeping that night. So Sea Grant’s support of everything from the lab materials I use in the classroom to the transportation costs for students traveling to local science competitions, is really critical.”

- Ben Ewing, Science and STEM teacher at Toledo High School

Advancing Oregon’s Aquaculture Industry



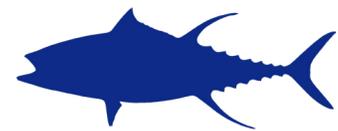
An Oregon Sea Grant-funded study has moved the seafood industry one step closer to farming gooseneck barnacles, which are a pricey delicacy in Spain and a common sight on the West Coast. Researchers at the University of Oregon found that juvenile gooseneck barnacles in a lab grew at rates comparable to those of their counterparts in the wild, and will feed by simply aerating the water.

Improving Marine Science Education



Oregon Sea Grant and the Oregon Coast STEM Hub supported four high-schoolers, one undergraduate student and three high-school teachers to join a three-day Oregon State University research cruise in 2016. Participating in the cruise inspired the high-school students to seek careers in marine science and gave teachers a better understanding of oceanographic research to improve lesson plans.

Albacore Tuna is Safe to Eat



The 2011 Fukushima nuclear plant disaster resulted in public concern about consuming albacore tuna, an Oregon fishery worth up to \$18 million annually. Oregon State University research showed that slightly elevated radioactivity in albacore pose little to no health concerns. Oregon Sea Grant continues to educate consumers that albacore is safe to eat, reaching about 160,000 people in 2016.