

Sea Grant

MARYLAND

Maryland Sea Grant receives financial support from Congress through the National Sea Grant College Program within the National Oceanic and Atmospheric Administration, as well as support from the University System of Maryland and other external grants and contracts.

Maryland Sea Grant (MDSG) is a federal-state partnership organization of the University System of Maryland that works to fund research, support students and educators, and reach out to communities about the Chesapeake Bay, Maryland's Coastal Bays, and coastal issues.

Our Focus Areas

Environmental Literacy & Workforce Development



Healthy Coastal Ecosystems



Sustainable Fisheries & Aquaculture



Resilient Communities & Economies



Economic Impacts of Our Work

Workforce development: MDSG's education programs support teacher professional development and student research programs, internships, and fellowships. Diversity, equity, and inclusion are core principles for recruitment and programming. In 2022, our trailblazing work in graduate fellowships resulted in increased earnings for 12 fellows who found work in their fields.

Enhancing K-12 education:

Our educational programming provides students an array of STEM learning opportunities. In 2022, our education team led professional development for 50 educators and supported the operation of aquaculture systems in Carroll County and Baltimore City classrooms—a total value of over \$114,000.



Growing shellfish aquaculture:

In 2022, an MDSG Extension specialist who operates a demonstration farm and training program worked with 17 submerged land leaseholders to plant hundreds of millions of oyster larvae. The harvest of these oysters equates to at least \$1.81 million in harvest value. Many of these farmers now operate their own leases.



By the Numbers*

208 public or professional presentations were given to 10,496 presentation attendees.

111 undergraduate students gained critical skills to prepare for their careers.

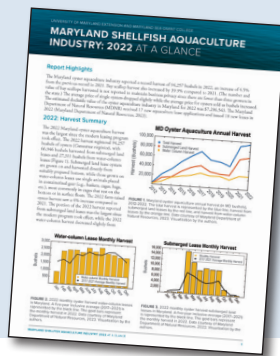
41 graduate students furthered research skills and studies in the coastal and marine sciences.

589 K-12 students reached by MDSG-trained educators or MDSG education programs.

*2022

Research in Action

Maryland's oyster farmers reported a **record harvest** of 94,257 bushels in 2022. A Maryland Sea Grant Extension specialist published a report about trends in shellfish aquaculture to highlight the industry's growth and impact.

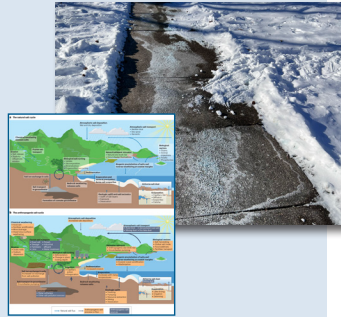


25

research projects representing a variety of coastal and marine science disciplines supported by MDSG funding in 2022

www.mdsg.umd.edu/research-projects

Human activities are making Earth's air, soil, and freshwater saltier. Dr. Sujay Kaushal, an MDSG-funded researcher, studied how human activities impact the environment in a **new scientific review paper** about the salt cycle.



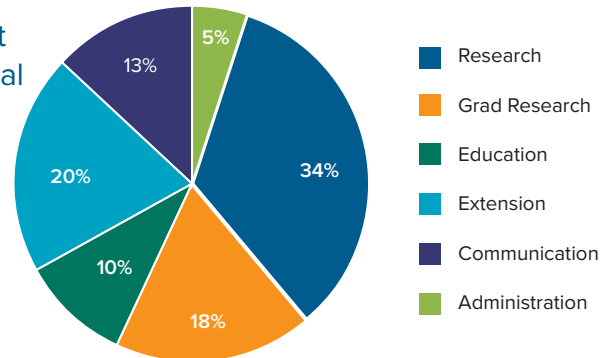
Our team of **16 Extension specialists** work throughout Maryland to help industries and communities to be economically healthy and environmentally sustainable. As a result of MDSG Extension training, 70 people earned their Hazard Analysis and Critical Control Point (HACCP) seafood safety certification in 2022.



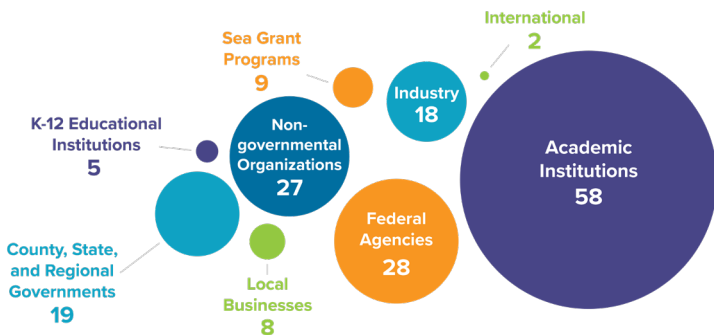
Our Funding

Maryland Sea Grant builds upon its base funding from Congress with support from the state of Maryland, which provided \$2,166,837 to support MDSG efforts in research, education, and outreach in 2022. We secured \$2,337,425 in additional funding and helped others to secure \$628,348 to advance the priorities of our constituents. MDSG Extension had \$641,463 in additional grants in 2022.

How We Spent Our Core Federal Funds (2022)



Partnerships



We partner with a variety of organizations to advance research, education, and outreach programming and to impact local communities and economies. We continue to develop partnerships with HBCUs, underserved communities, and other minority-serving organizations to provide more equitable access to programs, resources, and funding.

Maryland Sea Grant is a federal-state partnership program that is part of the University System of Maryland. We are administered by the University of Maryland Center for Environmental Science and located in College Park, Maryland. Sea Grant Extension faculty are administered by the University of Maryland, College Park, and located in offices around the state. The National Sea Grant College Program is a network of 34 university-based programs in coastal and Great Lakes states, Puerto Rico, and Guam.

Contact Maryland Sea Grant

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