

“In addition, new business opportunities would be created if lumpfish can benefit domestic salmonid farms. Salmon farmers will need to source lumpfish from hatcheries and grow-out facilities, a market that does not exist right now,” she said.

The work is important given that in 2017, the United States had a \$16.8 billion seafood trade deficit, meaning it imported more seafood than it exported. More than 90 percent of the seafood Americans consume is imported, and more than half of the imported seafood is farmed. Atlantic salmon tops the list of imported fish. Maine soon will be the only state in the U.S. with Atlantic salmon production. In New Hampshire, steelhead trout are cage-cultured through NH Sea Grant and UNH. At least one commercial farm is seeking permits to grow steelhead trout in New Hampshire waters.

Collaborators include researchers with the University of Maine Center for Cooperative Aquaculture Research, USDA National Cold Water Marine Aquaculture Center, Memorial University of Newfoundland, Cooke Aquaculture USA, Cooke Aquaculture LLC, and Blue Water Fisheries LLC.

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Founded in 1887, the NH Agricultural Experiment Station (<https://colsa.unh.edu/nhaes/>) at the UNH College of Life Sciences and Agriculture (<http://colsa.unh.edu>) is UNH's original research center and an elemental component of New Hampshire's land-grant university heritage and mission.

The University of New Hampshire (<http://unh.edu>) inspires innovation and transforms lives in our state, nation and world. More than 16,000 students from all 50 states and 71 countries engage with an award-winning faculty in top-ranked programs in business, engineering, law, health and human services, liberal arts and the sciences across more than 200 programs of study. As one of the nation's highest-performing research universities, UNH partners with NASA, NOAA, NSF and NIH, and receives more than \$110 million in competitive external funding every year to further explore and define the frontiers of land, sea and space.

PHOTOS AVAILABLE FOR DOWNLOAD

<https://colsa.unh.edu/nhaes/sites/default/files/media/images/lumpfish2.jpg> (<https://colsa.unh.edu/nhaes/sites/default/files/media/images/lumpfish2.jpg>)

Using lumpfish as cleanerfish—fish that eat parasites off other fish—may be a sustainable way to manage sea lice. Credit: Tim Brigg/UNH

<https://colsa.unh.edu/nhaes/sites/default/files/media/images/lumpfish1.jpg> (<https://colsa.unh.edu/nhaes/sites/default/files/media/images/lumpfish1.jpg>)

At the UNH Judd Gregg Marine Research Complex, researchers are producing multiple batches of lumpfish in the Coastal Marine Laboratory to demonstrate that lumpfish culture is feasible. Credit: Tim Brigg/UNH

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