Shellfish Aquaculture Industry Overview
East Coast: Maine to Florida

Shellfish Aquaculture by State
percent of total East Coast
$154 million farm gate

- VA 34%
- FL 14.4%
- MA 10.1%
- CT 25%
- NY 8%
- RI 3.2%
- NJ 2.6%
- NC 0.4%
- GA 0%
- SC 0.2%
- DE 0%
- NH 0%
- MD 1%
- ME 2.2%
East Coast Shellfish Industry

- >1400 Farms From Maine to Florida
- Primarily Small Farms <Than 10 Employees
- Collectively Harvest $157M Farm Gate Value
  54% clams; 46% oysters
- Production Increasing 5-10% annually
- Oysters >2X in 5 Years
## East Coast Shellfish Industry

<table>
<thead>
<tr>
<th></th>
<th>2009</th>
<th>2015</th>
<th>% Change</th>
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<tbody>
<tr>
<td>Oyster #M</td>
<td>56</td>
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Growout Gear Options

- Positioned for profitable growth.
- Prescribed exposure to sun (UV) and air controls secondary spat, competitors, predators and contaminants.
- Wintering is a matter of cap removal compared to arduous equipment retrieval.
Virginia Shellfish Aquaculture Situation and Outlook Report

$55.9M Farm Gate Value for VA Shellfish Aquaculture in 2014—An All-Time High

- At a Glance
  - $55.9M Farm gate value in 2014
  - $17.1M oysters
  - $38.8M clams
  - 100s Directly employed
  - 243M All-time high in clam sales
  - 86% Oysters sold out of state
  - 1st U.S. clam production
  - Leader in East Coast oyster production
The number of farms in Rhode Island increased from 55 to 61.

The total area now under cultivation is 241.38 acres.

Oysters remained the number one aquaculture product with 8,272,172 sold for consumption, an increase of 725,040 oysters from last year.

The farm gate value of aquaculture products for consumption was $5,433,948.

Oyster seed sales from RI aquaculturists was valued at $162,500.

Combined value of aquaculture products for consumption and seed sales was $5.59 million.

The number of aquaculture farm workers increased 20 percent from 142 to 171.
Rhode Island Aquaculture Industry – 2015

How much aquaculture was there in RI through 2014?

Total Farms and Acreage

Figure 4.
Acreage for the 61 farms is 241.38
Rhode Island Aquaculture Industry – 2015

Figure 1.
Total value of aquaculture.

Figure 2.
Aquaculture farm related employment numbers show a 20 percent increase for 2015.
Shellfish Industry Development in Delaware

209 Acres
Shellfish Aquaculture Industry Issues/Outlook

- Expanding Domestic Markets
- New Species: Mussels, Scallops, Surf Clams
- NIMBY/Social Carrying Capacity
- *Vibrio parahaemolyticus* and *Vibrio vulnificus*
- Harmful Algal Blooms (HABs)
- Other Environmental
  - Water Quality, Temperature, Ocean Acidification
  - Threatened Species; Red Knot (Delaware Bay)
- Trade Issues: Imports and Exports
### East Coast Shellfish Industry

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Delaware Inland Bays Shellfish Aquaculture

Delaware Sea Grant Marine Advisory Service, College of Earth, Ocean, and Environment
Hugh R. Sharp Campus, University of Delaware, 700 Pilottown Road, Lewes, DE 19958

This site is maintained and continually updated by the Sea Grant Marine Advisory Service (DGMS) Aquaculture and Fisheries Specialist as an educational resource about Inland Bays shellfish aquaculture. It includes updates on the DNREC regulatory development process; technical, economic, and environmental information; links to other state shellfish aquaculture programs and industry activities; and links to information of interest for prospective shellfish growers, and local coastal community businesses and residents.

Please direct any questions, suggestions or comments about the Inland Bays Shellfish Aquaculture Page to
John W. Ernst, ernst@udel.edu
Phone: 302-831-6600, Fax: 302-831-4241

Workshop: Consumer Preferences for Delaware Oysters: An Economic Evaluation of Marketing Messages

Workshop Agenda
https://events.roostransport.com/register/event/fp_vf75fe-4e1b-4155-9eb9-62d266d4e504-9999-
Thursday, February 9, 2017 from 9:30 AM to 2:00 PM EST: 104 Canyon Laboratory, Lewes, Delaware; Registration Fee: Free, Lunch Included

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Rutgers University Aquaculture Innovation Center’s new policy and practice for oyster seed production and sales beginning with the 2017 hatchery production season

State’s shellfish aquaculture program takes major step forward with new approval process for limited areas of cultivation (DNREC News Release)

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Secretary’s Order No. 2016-W-0049
RE: The Department of Natural Resources and Environmental Control, Division of Fish & Wildlife’s application to Approve Designated Shellfish Aquaculture as A Statewide Activity Pursuant to Section 5.5 of 7 DE Admin. Code §704, December 21, 2016

14-week Shellfish Training Program
Beginning Tuesday, Jan. 10 Roger Williams University Bristol campus, Center for Economic and Environmental Development
Available as an Online Webinar

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Delaware marine farms expected to be first in the country when leasing expected to begin after spring 2016. By Madelynn Grossman, Cape Gazette, January 11, 2017
DNREC approves faster process for aquaculture leases. By Laura Walter, Staff Reporter, Coastal Point, December 30, 2016
State adopts Inland Bays shellfish aquaculture regulatory process. By Mark Fowser, Delaware 109.9 FM December 23, 2016

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Delaware * Maryland * Virginia * New Jersey * Rhode Island
Other Links: Calendar * Organizations and Agencies * Equipment, Supplies and Services * Publications * Websites and Other Media *

darc.cms.udel.edu/ibsa