

HISTORY AND TRENDS IN SHELLFISH AQUACULTURE

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Richmond, VA

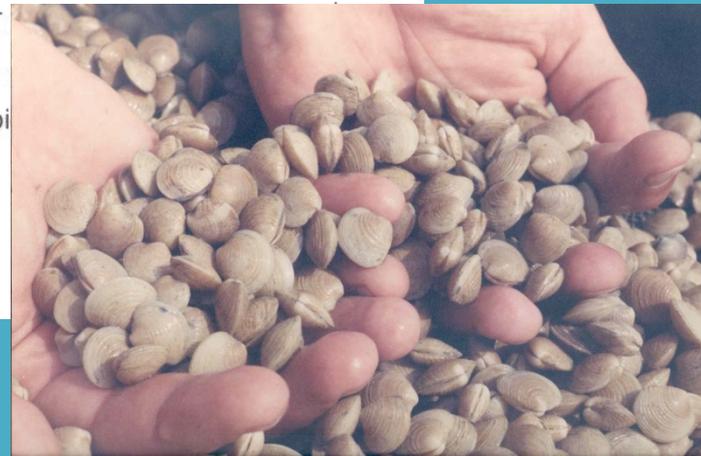
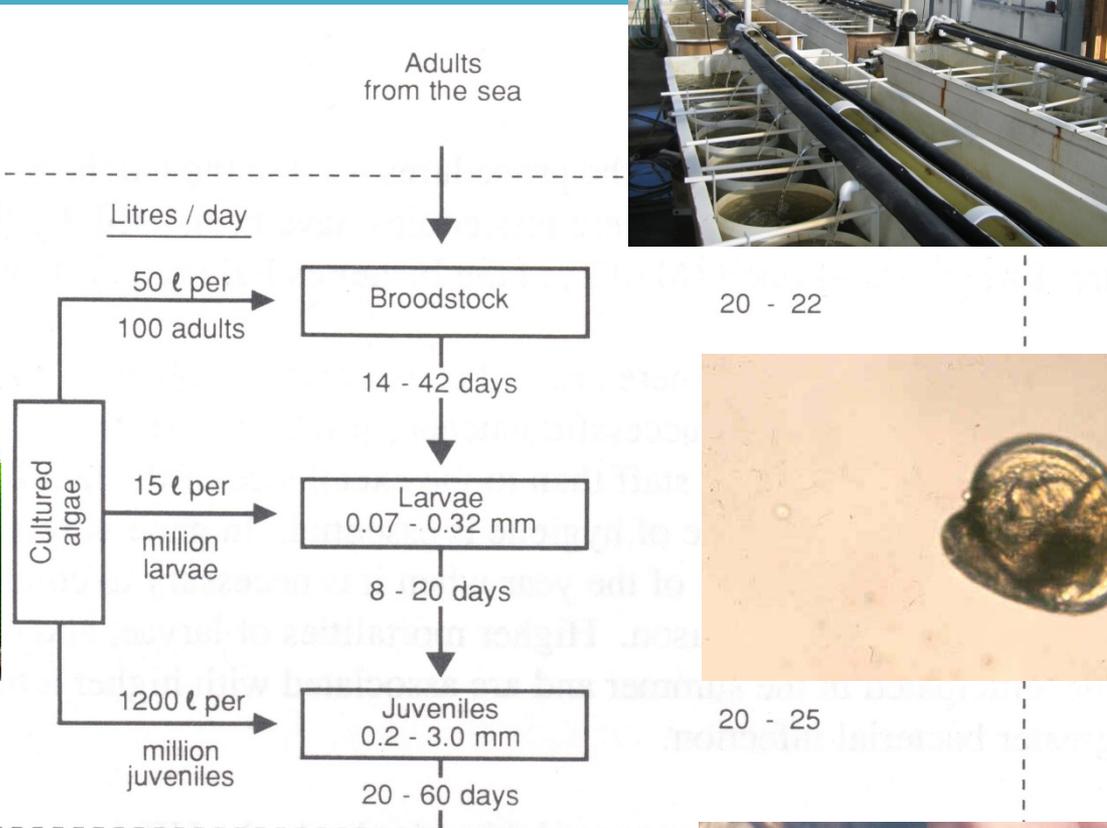


THE VIRGINIA INDUSTRY

*Hatchery based.



Image © 2009 Commonwealth of Virginia



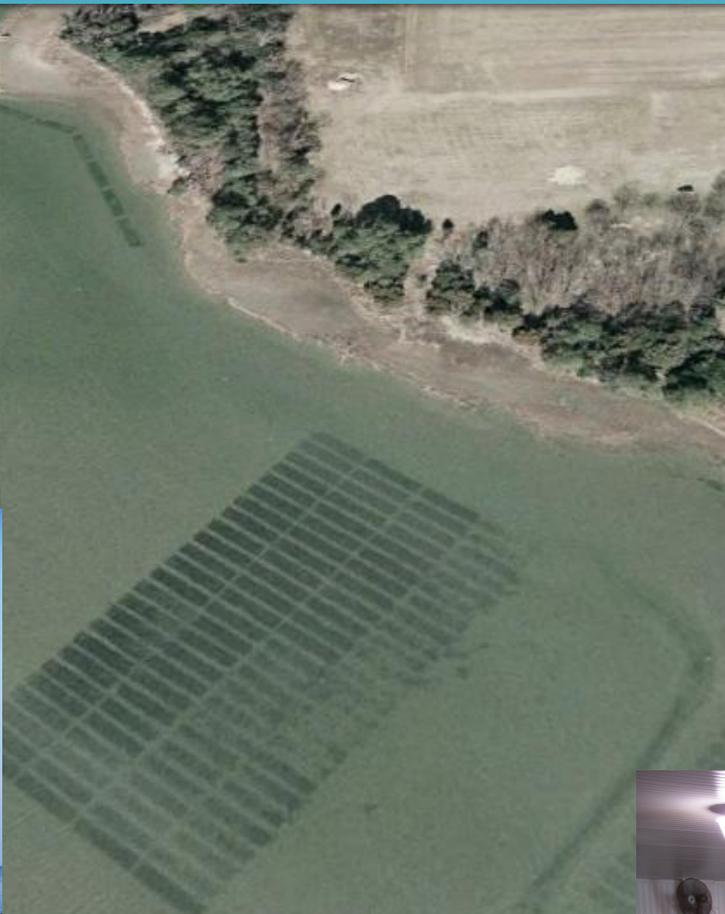
THE VIRGINIA INDUSTRY

*Hatchery based.

*Hard clams 2013 = 214,100,000
market-size; \$34.0-million dockside
value.



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THE VIRGINIA INDUSTRY

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*Hard clams 2013 = 214,100,000 market-size; \$34.0-million dockside value.

*Oysters 2013 = 31,000,000 individuals; \$11.1-million dockside value; 1,486,000,000 eyed-larvae sold for spat-on-shell production.



Image © 2009 Commonwealth of Virginia

OYSTER AQUACULTURE TECHNIQUES

SINGLE OYSTERS FOR THE HALF-SHELL MARKET, PRIMARILY FOR RAW CONSUMPTION



SPAT-ON-SHELL FOR SHUCKING, PRIMARILY FOR COOKING



THE VIRGINIA INDUSTRY

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* Direct shellfish culture employment 2013 = 157 full-time, 384 part-time; total jobs impact = 1,147.

Source: Virginia Sea Grant Marine Extension Program, Virginia Institute of Marine Science.

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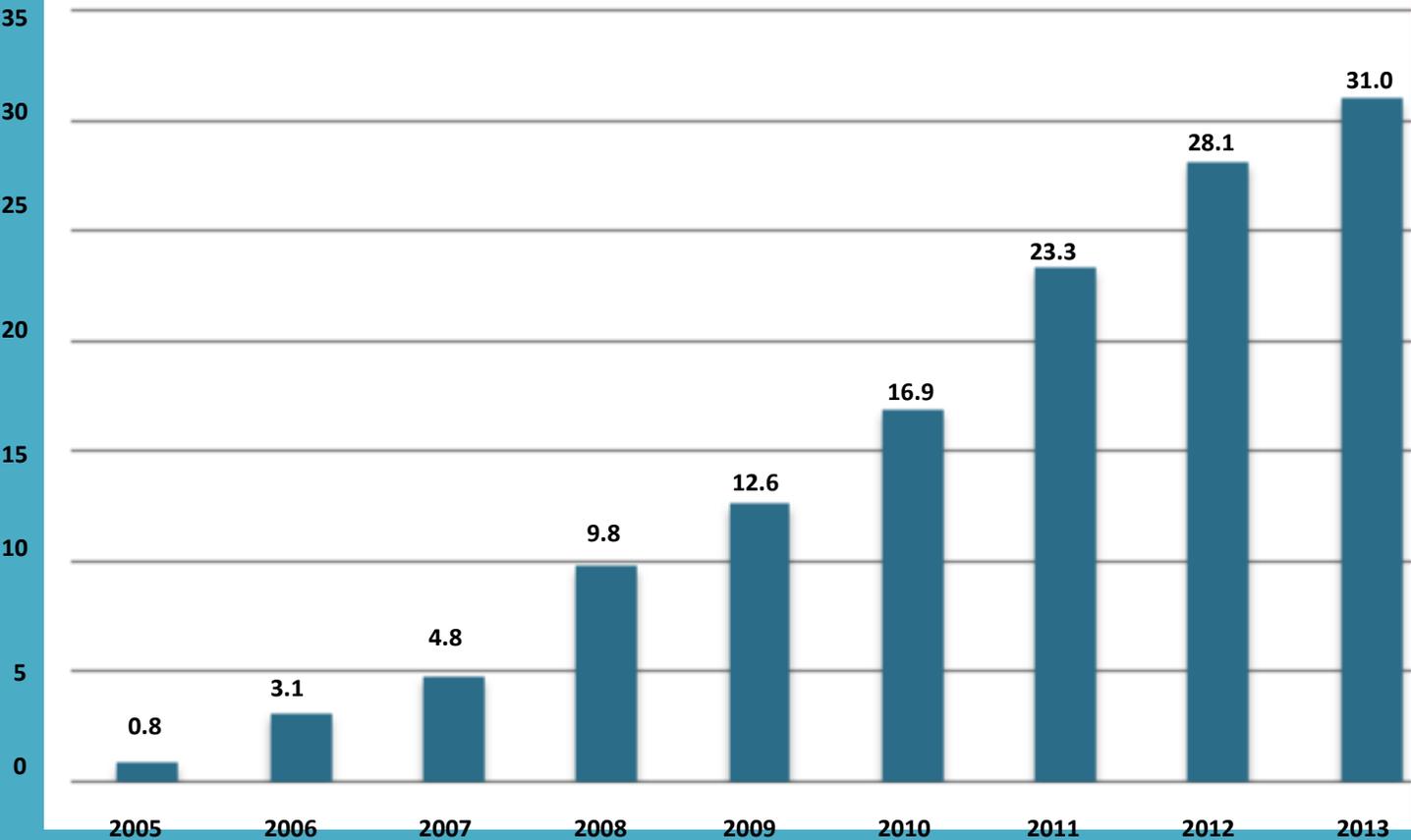


NUMBER OF INDIVIDUAL AQUACULTURED HARD CLAMS SOLD (MILLIONS)



SOURCE: Virginia Shellfish Aquaculture Situation and Outlook Report, Virginia Institute of Marine Science, Marine Resource Report No. 2014-5.

NUMBER OF SINGLE, AQUACULTURED MARKET OYSTERS SOLD (MILLIONS)



SOURCE: Virginia Shellfish Aquaculture Situation and Outlook Report, Virginia Institute of Marine Science, Marine Resource Report No. 2014-5.

CHALLENGES FACING VIRGINIA SHELLFISH AQUACULTURE

Water Quality – impacts on hatchery production and grow-out

Climate change – rising sea levels, temperature effects, faunal changes

Harmful Algal Blooms (HAB) – increased frequency

***Vibrio* concerns**

Coastal Growth – conversion of rural to urban

Regulations – zoning ordinances; inconsistent use of residential areas

Changing demographics – the age of the NIMBY

Access – working waterfronts being converted to other uses



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