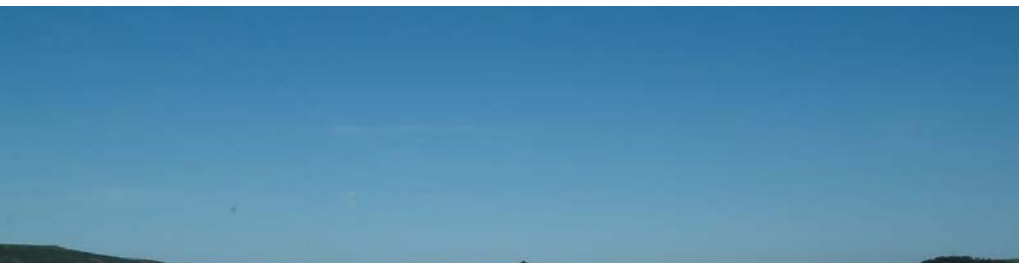


# History of Hog Island Oyster Co.







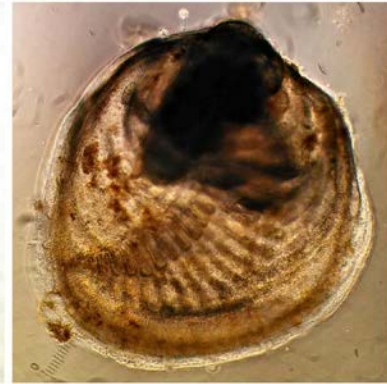
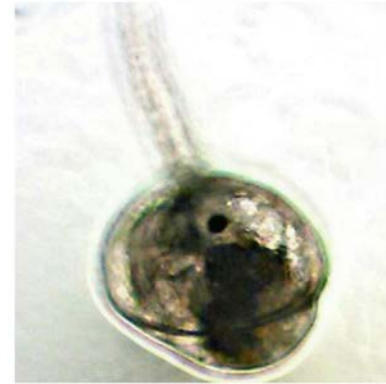
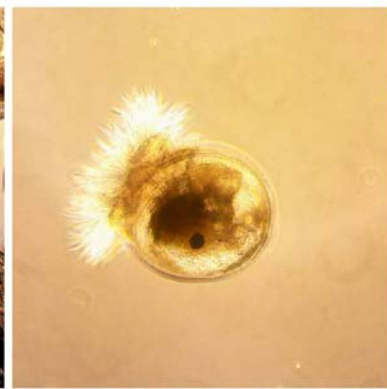
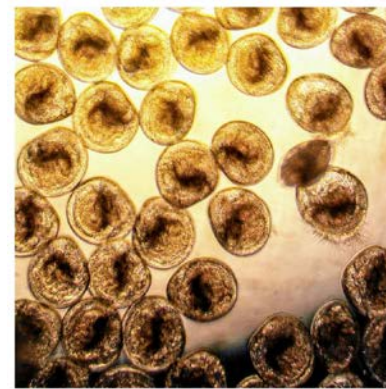
**Continued broodstock development and seed sizing/handling by competing construction of our own hatchery and nursery operations in Humboldt Bay (current inventory of 6.6 M Pacifics)**



# Broodstock!

- Our first broodstock for the hatchery has been brought into the production area of the building.
- This broodstock is 3rd generation Midori.
- These are same Midori broodstock families that were tested in Tomales for resistance to the Oshv-1 strain.





## Broodstock Program Partners

University of Oregon, University of Washington, University of Maryland





## In partnership with:

- University of California Davis
- University Washington
- IOOS
- CENCOOS
- NOAA
- CA Ocean Protection Council

# Improvements: pH Buffering!

- We are one of two hatcheries on the west coast that is using probiotics and also buffering for pH!
- We do this by mixing Sodium carbonate (Soda Ash) with freshwater in a tank. We have a submersible pump in that tank that is being turned on and off by a controller that is consistently reading the pH of our filtered seawater tank.
- When the pH of our water gets below our set point of 8.2 the pump gets turned on and starts dosing our incoming water to increase the pH.

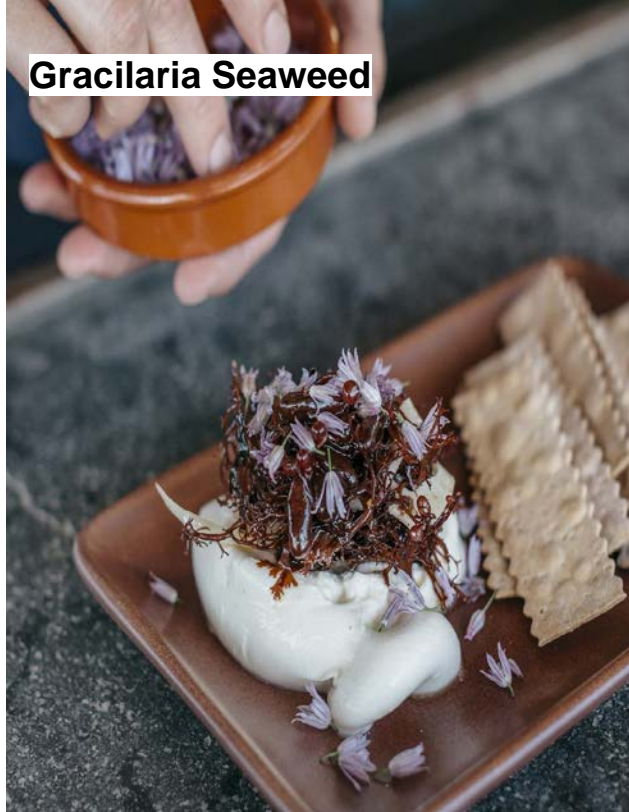




**Sea Urchin**



**Gracilaria Seaweed**



**Rock Scallops**



**Gooseneck  
Barnacles**



**Gooseneck  
Barnacles**





# THANK YOU!

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## Questions?





