North Carolina’s Shellfish Initiative
Restoration: A Key Ingredient

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NOAA’s National Shellfish Initiative

Goal: increase populations of bivalves through shellfish farming and restoration

- Encourage commercial and restoration shellfish communities to work together
- Launched in 2011 to implement NOAA Aquaculture Policy
- NOAA’s role in State/Regional Shellfish Initiatives
NOAA Fisheries/Restoration Center Funded Oyster Projects

Total Funding from 2009-2019 at ~$10 Million
Community-based Restoration
Large-Scale / Sanctuary Implementation
Why invest in non-harvested reefs? = Ecosystem Services
Oyster Reef Habitat is Fish Habitat

- Support of Commercial and Recreational Fisheries
- Summer flounder, red drum, striped bass, gray snapper, gag grouper, sheepshead, anchovies, croaker, herring, silver perch, Spanish mackerel, speckled trout, spot, shrimp, blue crab, and stone crab depend on oyster reefs!

Annual non-oyster fisheries production value: up to $4,000/acre

Photo of sheepshead with Dr. Jeffrey Lafond by Brian Carroll
Oyster Reefs Protect the Shoreline

Oyster growth on shell bag sills at Trinity Center
(photos by North Carolina Coastal Federation)
Oysters Improve Water Quality

Oysters filter water leading to reduced turbidity, better light penetration, reduced eutrophication, and improved dissolved oxygen.

It also saves us the cost of wastewater treatment and stormwater BMPs.
Oyster Reef Ecosystem Services

Oyster Ecosystem Services are worth $26 Billion to $554 Billion per year in North Carolina (Grabowski et al. 2012)
Next Steps? : 2020 and Beyond

North Carolina: A leader in the field of shellfish Restoration

• On the ground success !
• Common Vision / Solid Partnerships !
• Strong Steering Committee !

• What are the next innovative steps for North Carolina?
• How can you use your leadership position to help on a regional or national scale?
Thank You

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Literature Cited


