



 Spawn adults collected from SLE every 3 months

Grown at Research
Aquaculture, Inc. until
4 mm in shell length





 Place 750 oysters in each cage (measure length of sub-sample)

 Hang 2 to 4 cages at each dock for 3 months





 Retrieve oysters from cages after 3 months

 Measure length of sub-sample and estimate mortality rate





 Scatter oysters over historic reefs near docks where they were gardened

 Monitor density and growth on oyster reefs every 3 to 6 months



## **Gardening Results**

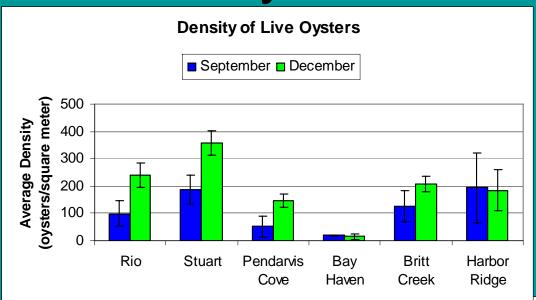
#### June to September Growth and Mortality of Gardened Oysters in the St. Lucie Estuary

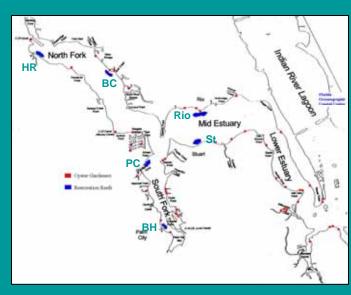
	Willoughby Creek	Lower Estuary	Middle Estuary	North Fork	South Fork
End length (cm)	3.50	4.14	5.13	2.96	2.65
Start length (cm)	0.64	0.64	0.64	0.48	0.48
Total growth (cm)	2.86	3.50	4.49	2.48	2.17
Average % dead	25	10	5	50	50
Average Salinity (ppt)	24	28	19	11	11

#### September to January Growth and Mortality of Gardened Oysters in the St. Lucie Estuary

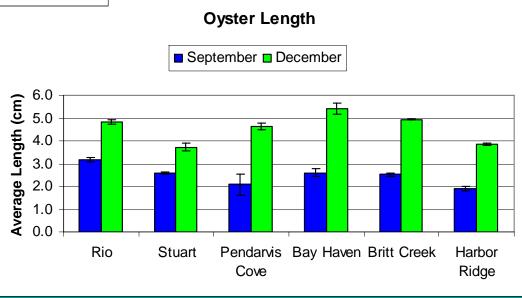
	Willoughby Creek	Lower Estuary	Middle Estuary	North Fork	South Fork
End length (cm)	3.12	3.66	3.43	N/A	N/A
Start length (cm)	0.52	0.52	0.52	N/A	N/A
Total growth (cm)	2.60	3.14	2.91	N/A	N/A
Average % dead	26	41	25	N/A	N/A
Average Salinity (ppt)	29	32	24	18	16

### Oyster Reef Results











### Permitting Process

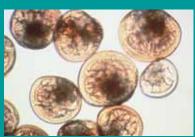


- Apply for Stock Collection and Release Permit as part of a Special Activity License from FWC
- 2. Submit request for a release authorization 3 weeks ahead of each oyster exchange
- 3. Send sub-sample of oysters (3 to 5 mm shell length) to a USDA or FDA certified lab to be tested
- 4. Forward certificate of health for release authorization
- 5. Complete oyster release within 30 days of receiving authorization
- 6. Report the numbers released and the GPS coordinates of release areas within 30 days

### **Future Plans**

- Continue and expand Oyster Gardening Project
- Deploy recycled oyster shell and seed with eyed larvae inside containment booms (requires a Dredge and Fill Permit from DEP)







# Acknowledgments

- Community Foundation for Palm Beach and Martin Counties
- Oyster Gardening Volunteers
- Tom McCrudden, Research Aquaculture, Inc.
- Stephanie Reynolds, Chesapeake Bay Foundation
- SFWMD, IRL License Plate Funding
- Dan Haunert, SFWMD
- Bill Arnold, FWC
- Leroy Creswell, FL Sea Grant