

South Carolina Oyster Resource Management and Restoration

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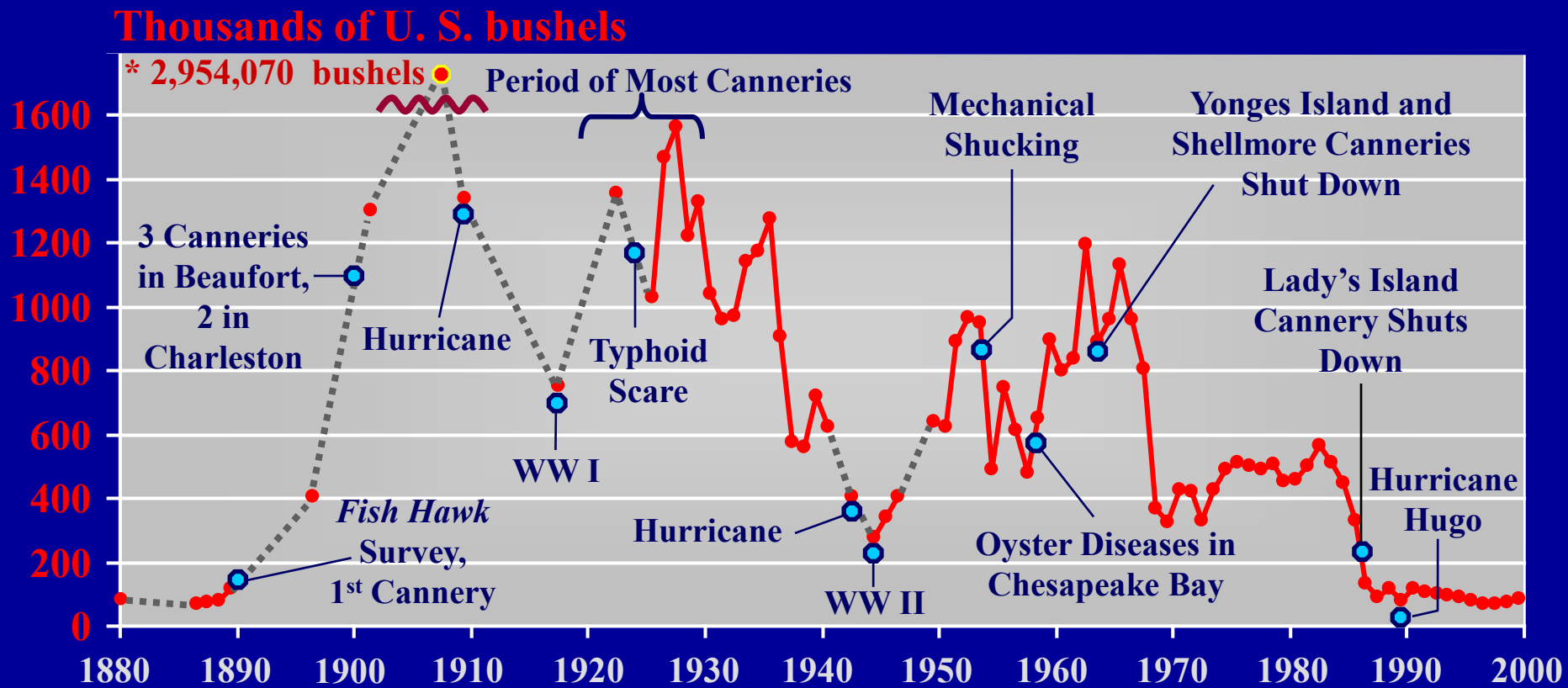


Examples of intertidal fringing reefs and patch reefs in SC.



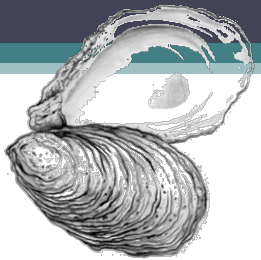
Oyster Production In South Carolina

1880 - 2000



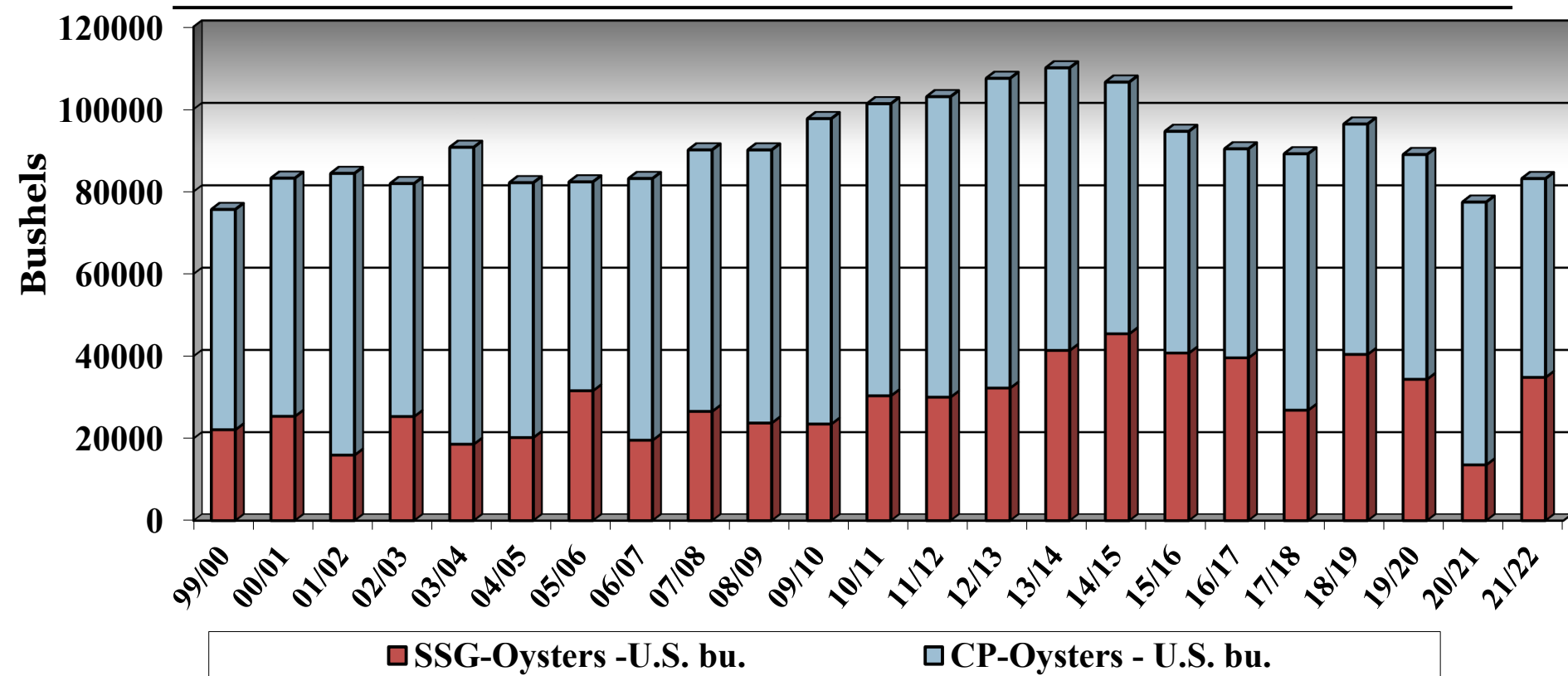
1880 – 1974 data converted from pounds of meat

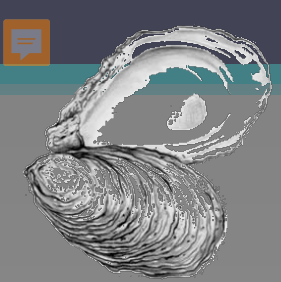
* 1908 – Questionable data as published in *Report of the Commissioner of U. S. Fisheries*, 1921



Commercial Oyster Landings

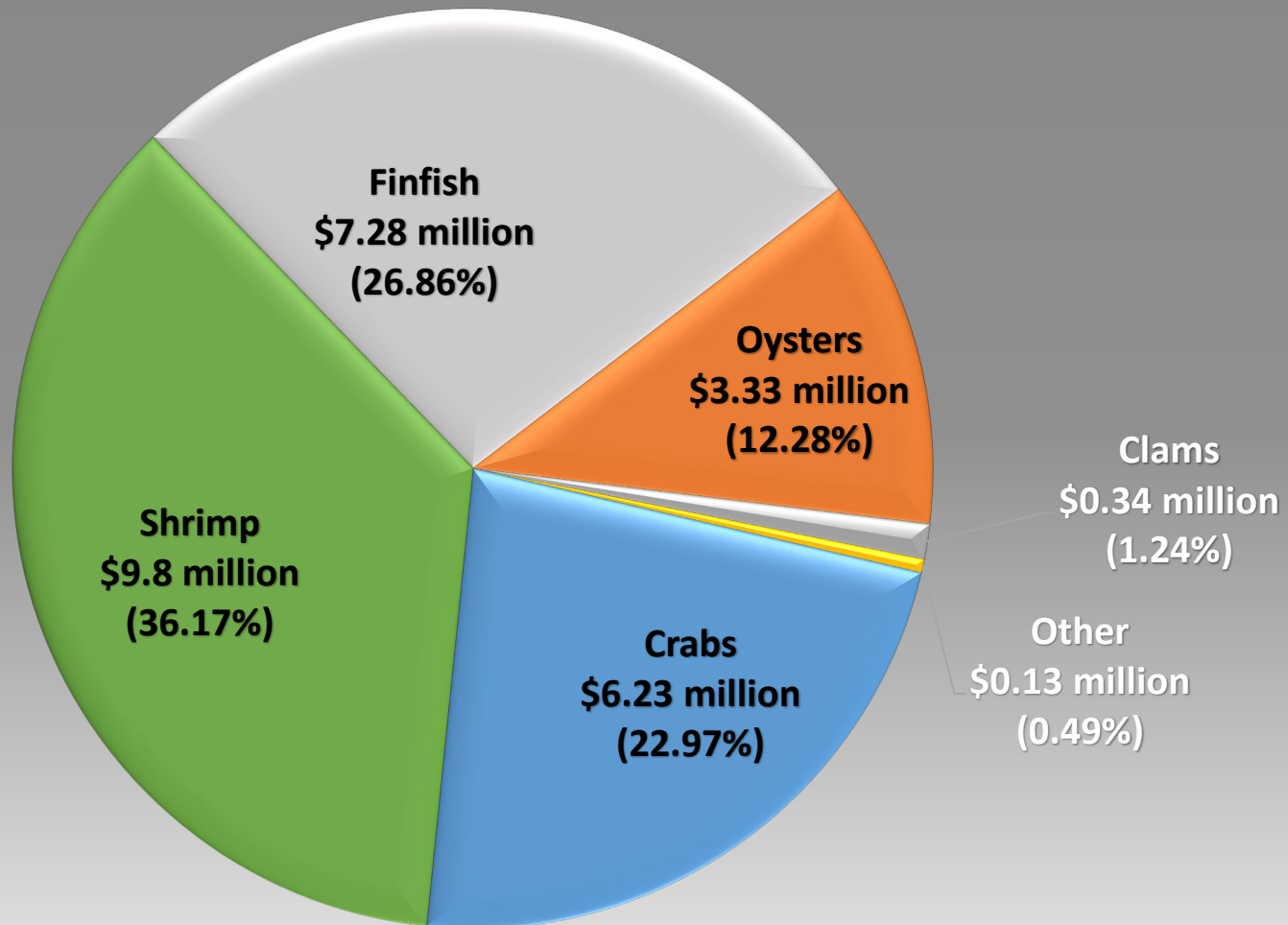
Wild Harvest



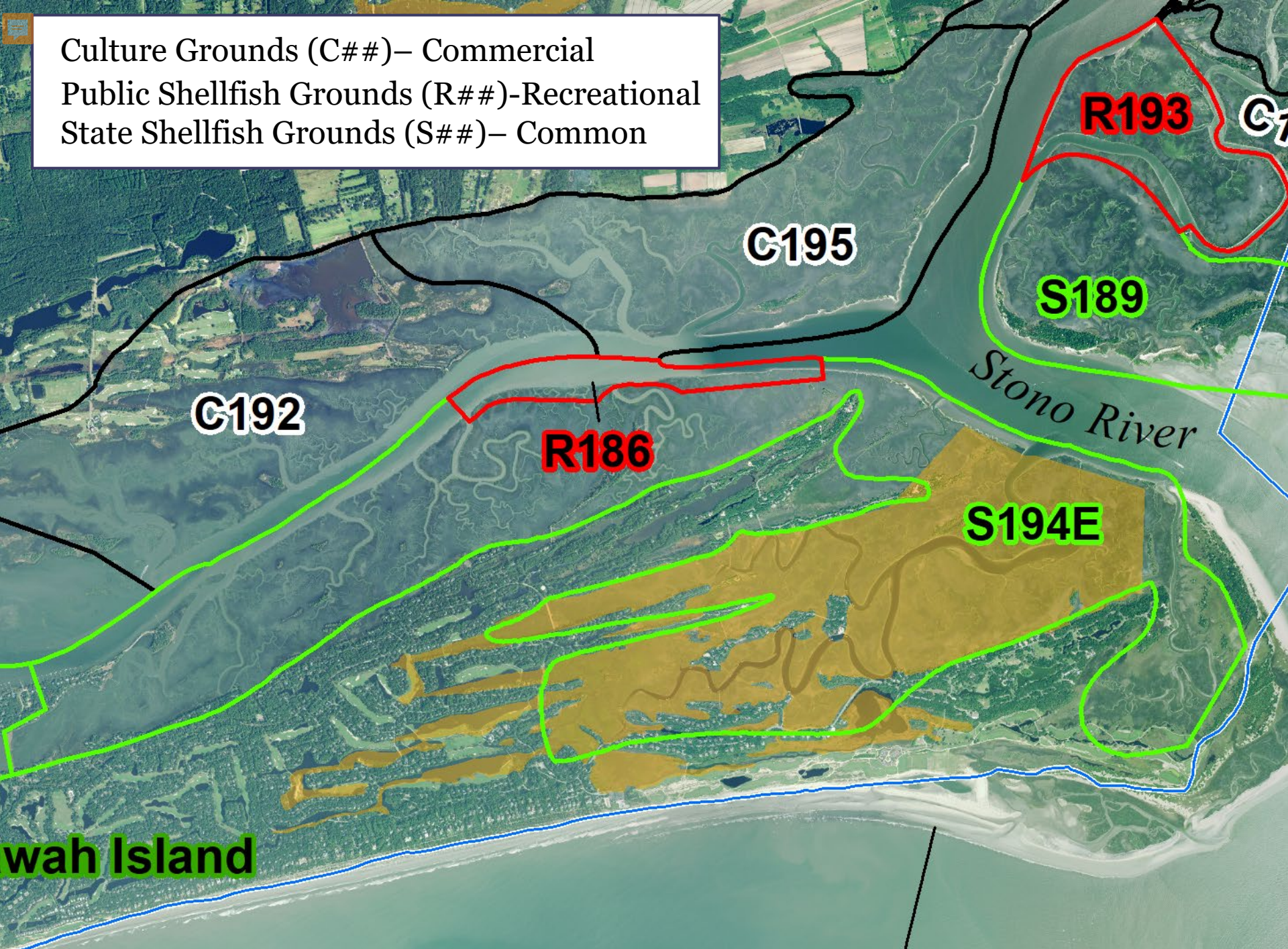


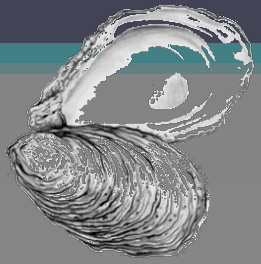
SC Commercial Fisheries

2021 SC Commercial Seafood Ex-vessel Value: \$27 Million



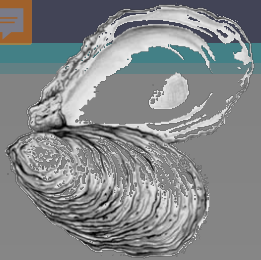
Culture Grounds (C##)– Commercial
Public Shellfish Grounds (R##)-Recreational
State Shellfish Grounds (S##)– Common





Oyster Habitat Creation in SC

- Culture Permit Plantings / Commercial Harvest Management
- Recreational Harvest Management (SCORE)
- Community Based Restoration (SCORE)
- Mitigation Plantings
- Grant Funded Project
 - Coastal Resiliency



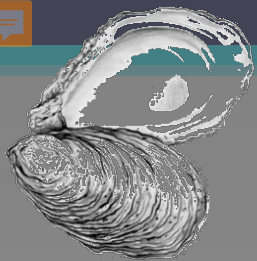
Culture Permit Management

- Cultivation
 - Rake down
 - Cull in Place
- Habitat Creation
 - Cured Shell
 - Green Shell
 - Seed
 - Relay
- Approved Alternative Cultch
 - Stakes
 - Crab Traps
 - Mesh Wire



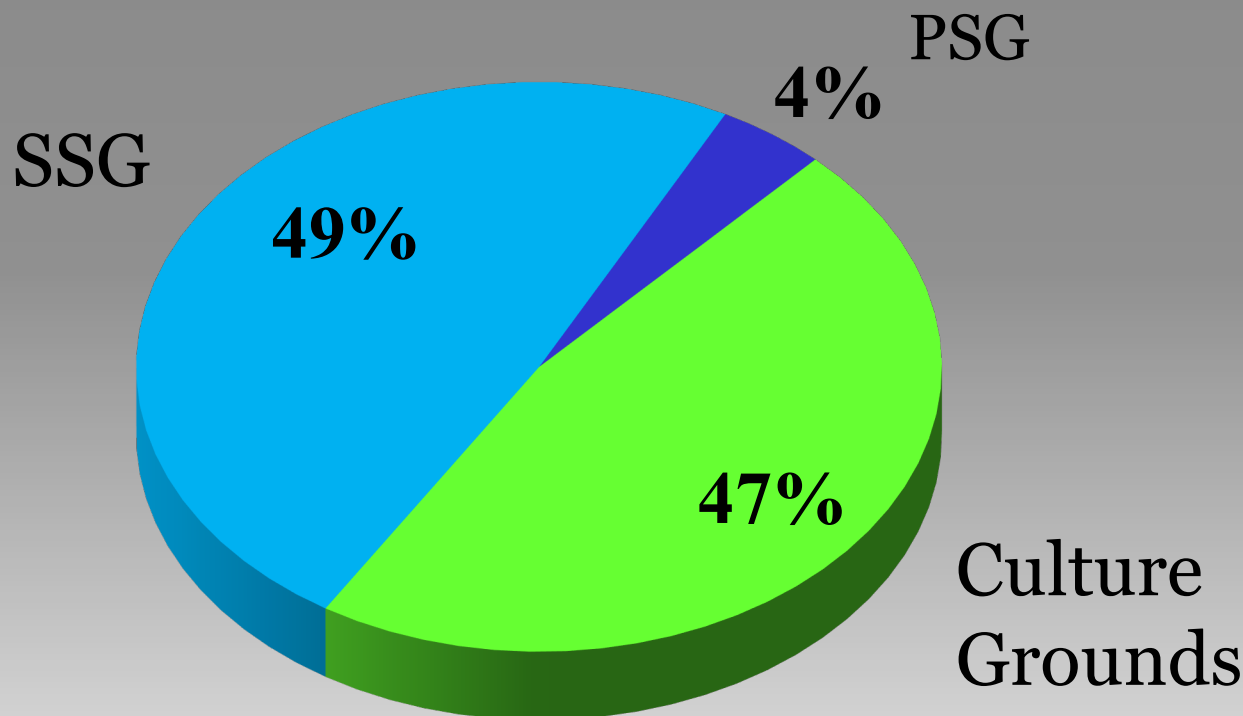
Examples of alternative cultch variances.

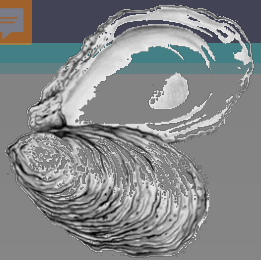




Shellfish Habitat

- Created 1986 through legislative action
- Increase recreational harvest accessibility
- Easier entry into commercial fishery





Recreational Oyster Shell Planting

- **Planted** > 775,000 bushels
- **Created** > 76 acres (>60 miles)
- **Annually** > 43,000 bushels
- **Challenge** > Plant more than we recycle



Planting Methods

Large-Scale Planting



- 35,000-80,000 bushels
- 4-8 acres per year





**2-3
Weeks**

Spat

2-3 Months



**1-3
Years**

Adult



Pre-Planting

Harbor River

2 years



Pre-Planting

Sewee Bay

2 years



Pre-Planting



3 years



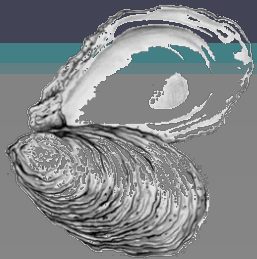
Bohicket Creek

6 years



9 years

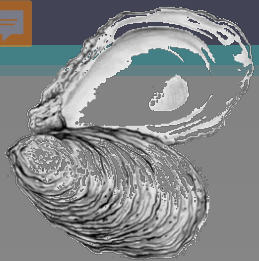




Monitoring

- Quantitative and qualitative assessment of all beds planted from 1 to 3 years post planting.
- Juvenile Recruitment
- Management Planting
- BMP
- 80% Success Rate



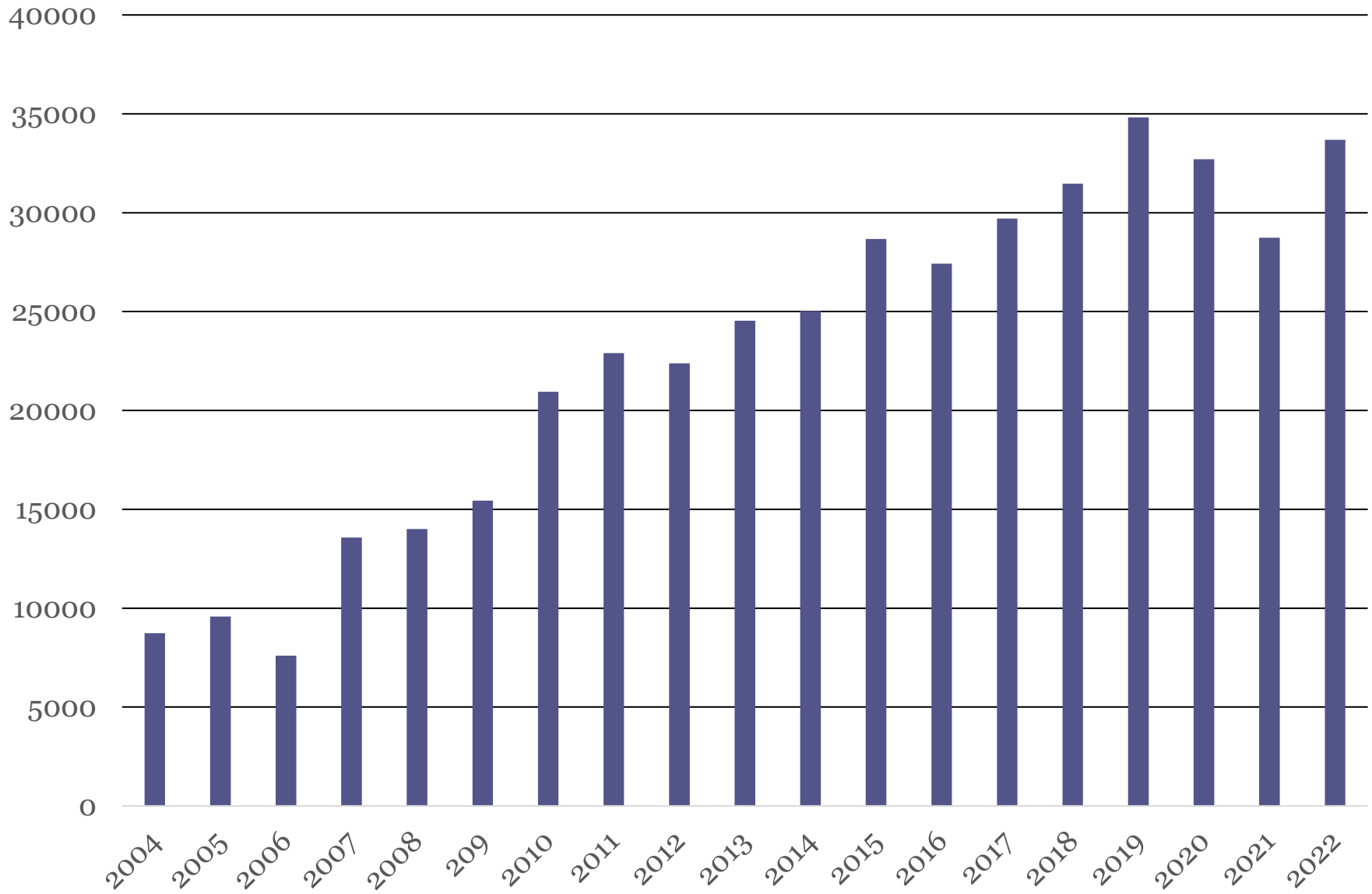


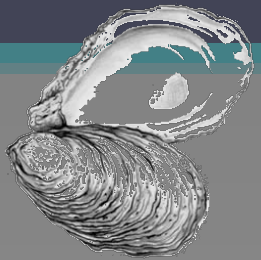
Recycling Program

- Initiated > 1999
- Recycled > 455,000 bushels
- Diverted > 23 million pounds of shell from landfills and driveways
- Annually > 32,000 bushels
- Challenge > Only capturing 12% of available shell

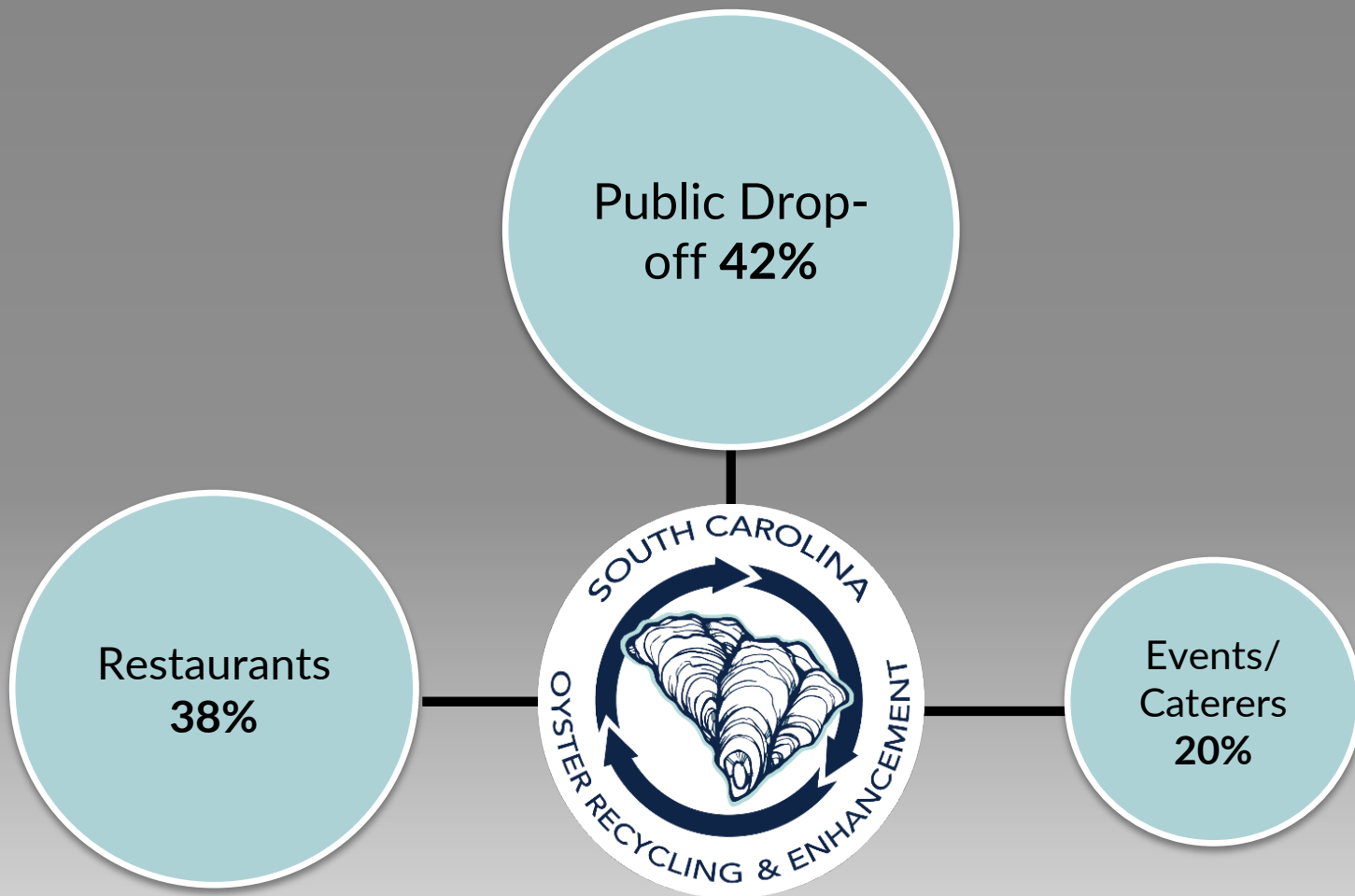


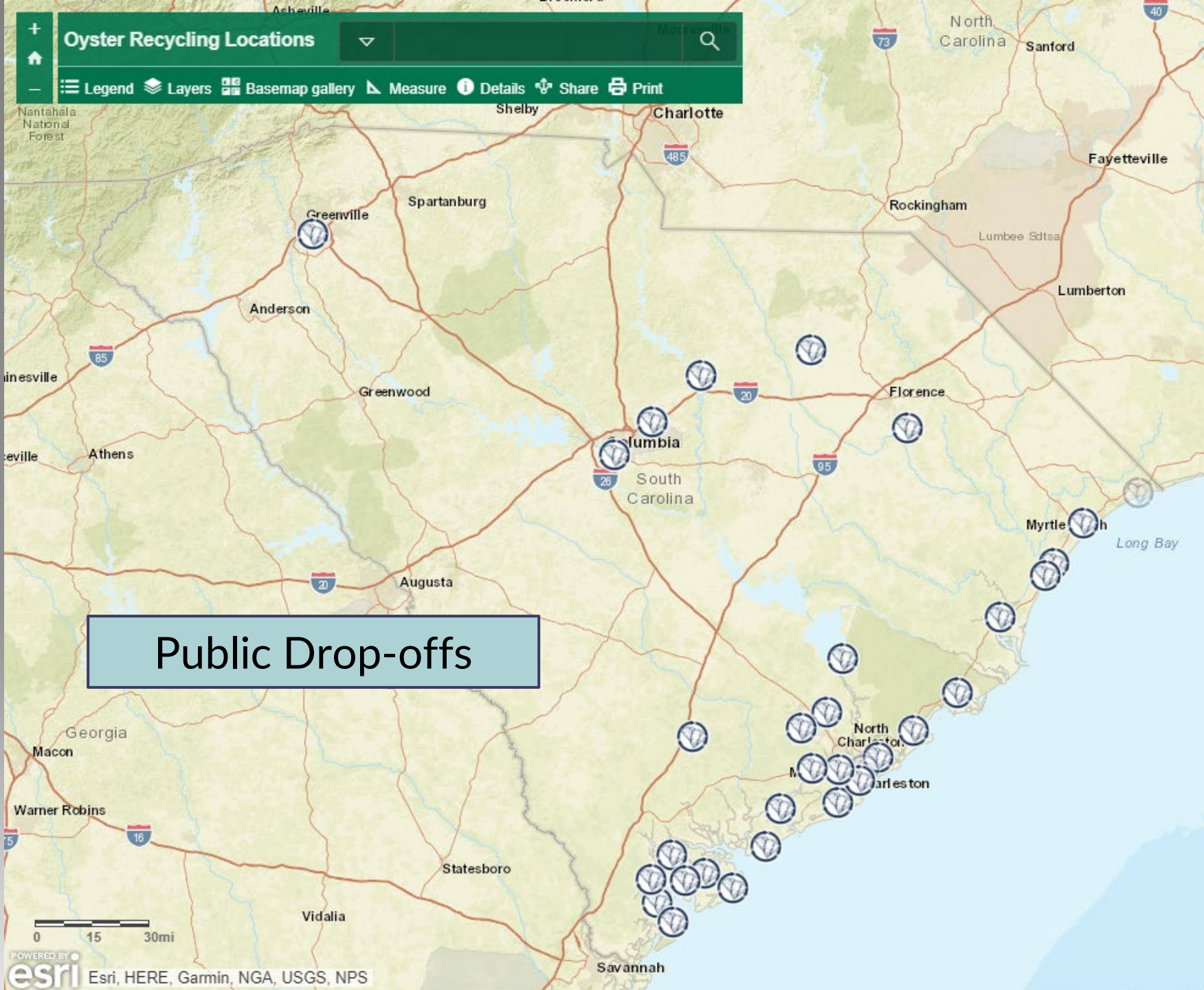
Bushels of Oyster Shell Recycled by Season





Sources of Shell

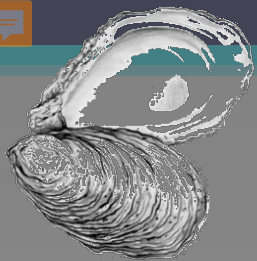






Public Drop-off

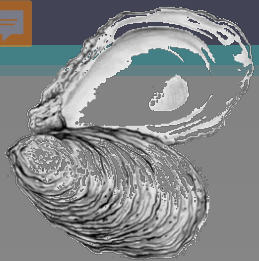




Restaurant Recycling

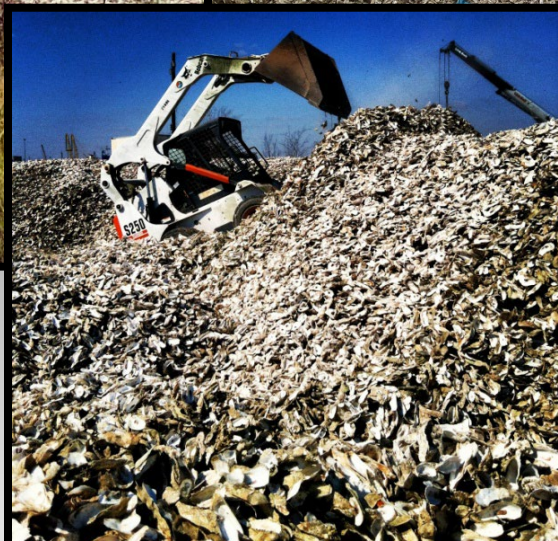
- Charleston Tri-County Area: - DNR Pick Up & Volunteers
- Myrtle Beach: - Restaurant Co-op
- Greenville: - Volunteers
- Hilton Head/Bluffton: - Outside Foundation/i2 recycling
- Partner with 60+ restaurants in SC





Quarantine

- Minimum quarantine period of 6 months



Thank you for your time



**SOUTH
CAROLINA
OYSTER
RECYCLING &
ENHANCEMENT**

