Revisit Sack-Yield Issue?
- NOAA conversion: 6.47 lbs/sack
- Need conversion factor that is representative of spatial, temporal, and harvest practice variation in Louisiana sacks
- Previous study from 2002-2007 (Kinsey et al) addressed temporal variation in “maximum” sacks
- Currently considering feasibility of a year-long, statewide study
Proposed
New Lease Area:
70,500 acres

Original OTF Proposal:
~80,000 acres
CSA1S Oyster Transplant
-LDWF sampling indicates extremely sparse resource East of MS River/south of Mozambique Point
-No recent spatfall observed
-Production expected in fall: adequate salinity
-Indicates broodstock may be the issue
-Transplanting oysters to 3 areas in outer Black Bay to attempt to trigger spawning event
- Transplant 1: November 16, 2016  12 sacks at 3 sites (36 sacks total)

- After 1 month: Heavy Fouling, low mortality

- 2 more transplants planned
### CSA1N Mortality Event: July-September Differences

<table>
<thead>
<tr>
<th>AREA</th>
<th>SEED</th>
<th>SACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halfmoon</td>
<td>-83%</td>
<td>-94%</td>
</tr>
<tr>
<td>Round Is.</td>
<td>-80%</td>
<td>-100%</td>
</tr>
<tr>
<td>3-mile CP</td>
<td>-71%</td>
<td>-100%</td>
</tr>
<tr>
<td>3-mile/Karako</td>
<td>+14%</td>
<td>+100%</td>
</tr>
<tr>
<td>Grand Pass</td>
<td>+66%</td>
<td>+66%</td>
</tr>
<tr>
<td>Drum Bay</td>
<td>+78%</td>
<td>-33%</td>
</tr>
<tr>
<td>DB CP</td>
<td>+2300%</td>
<td>+483%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>+55%</strong></td>
<td><strong>-23%</strong></td>
</tr>
</tbody>
</table>

### Private Lease Survey: Underway (25 contacts)
Primary areas affected: Eloi/Deeper Waters

**Likely Contributing Factors:**
- High Temp
- Low Oxygen
- Disease
- Reproduction
- Freshwater

“Perfect Storm”
### 2016/2017 CSA-1N Season Summary:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Seed (Barrels)</th>
<th>Sacks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvest Estimate</td>
<td>32,365 (40% PS)</td>
<td>13,562 (16% PS)</td>
</tr>
<tr>
<td>Available Stock</td>
<td>-75%</td>
<td>7%</td>
</tr>
<tr>
<td>Shell Budget</td>
<td>180%</td>
<td>198%</td>
</tr>
</tbody>
</table>

**Season Opening:** Nov. 14, 2016
- Closure Area: Mortality/DHH Boundaries
- Sacking Area: Drum Bay – Heavy ’15/’16 Hvst

**Seed Harvest Closure:** Nov. 20, 2016
- Concentrated Harvest
- Large Percentage Harvested
- Bedloads: 50% non-living reef

**Full Closure:** Jan 8, 2017
- Seed Threshold Exceedance
- Low Vessel Counts
- Low Average Daily Harvest
2016 July Stock Assessment: CSA-1N

-Future Seasons:
  -Possible Rotational Sacking Only/Closure Areas (Sister Lake system?)
  -Build population to increase harvest and resistance to environmental stress

- 2 cultch plants (3-mile Pass/Drum Bay)
   - $2.55 million dollars
   - 358 acres