



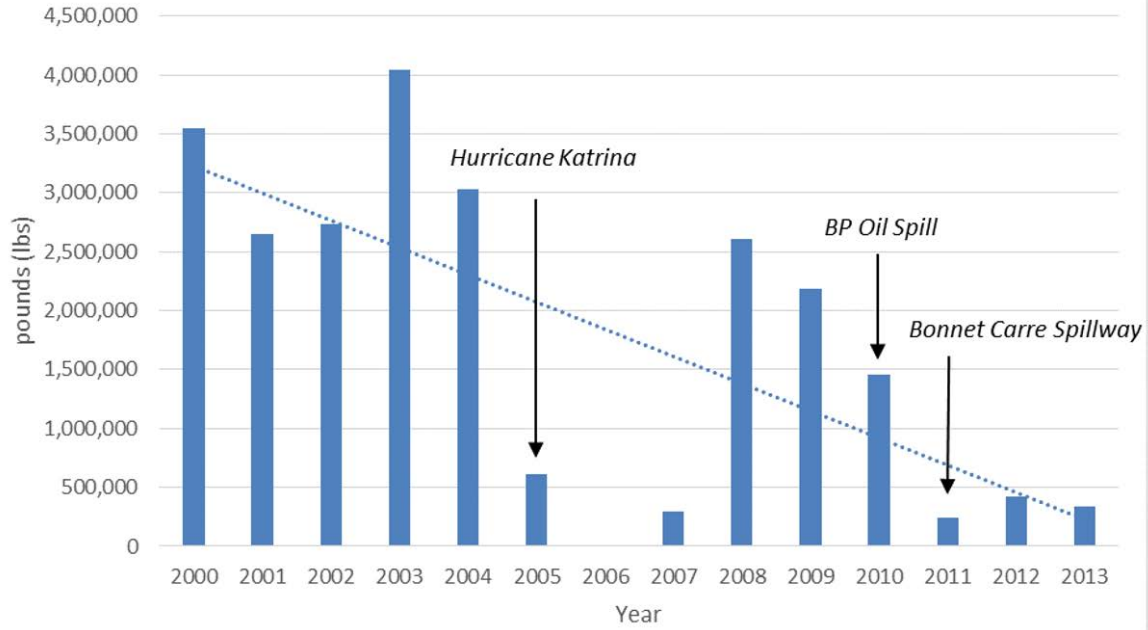
Creation of a Mobile Single Set Production System for the Eastern Oyster



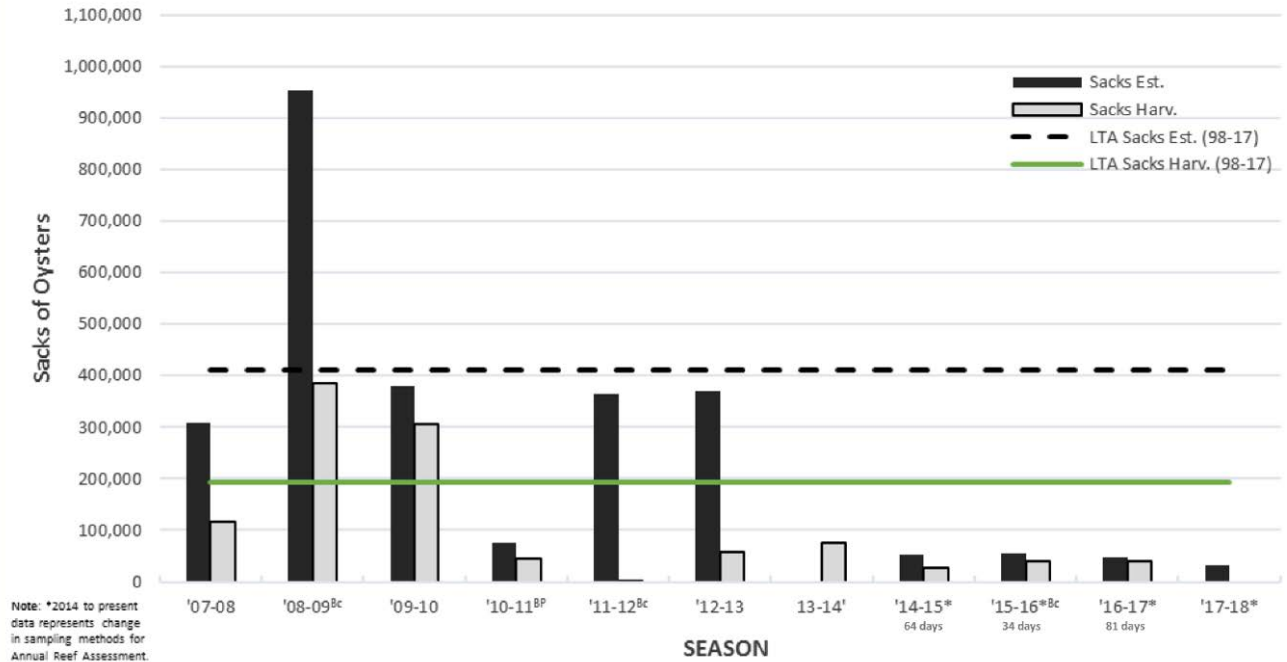
Jason Rider – Oyster Extension Agent
Mississippi Department of Marine Resources

WHY OYSTERaquaculture

Mississippi Oyster Landings 2000-2013

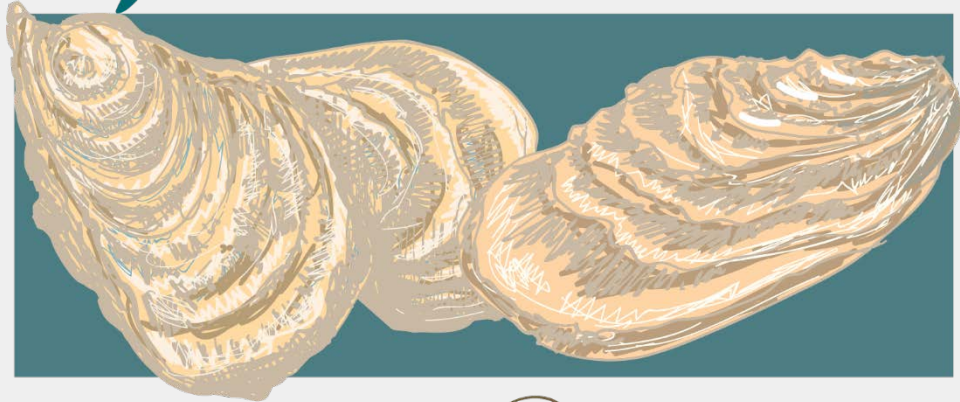


2007-2017 Sacks Estimated vs. Harvested



Governor's Oyster Council

— *the Governor's* —
Oyster Council



RESTORATION & RESILIENCY

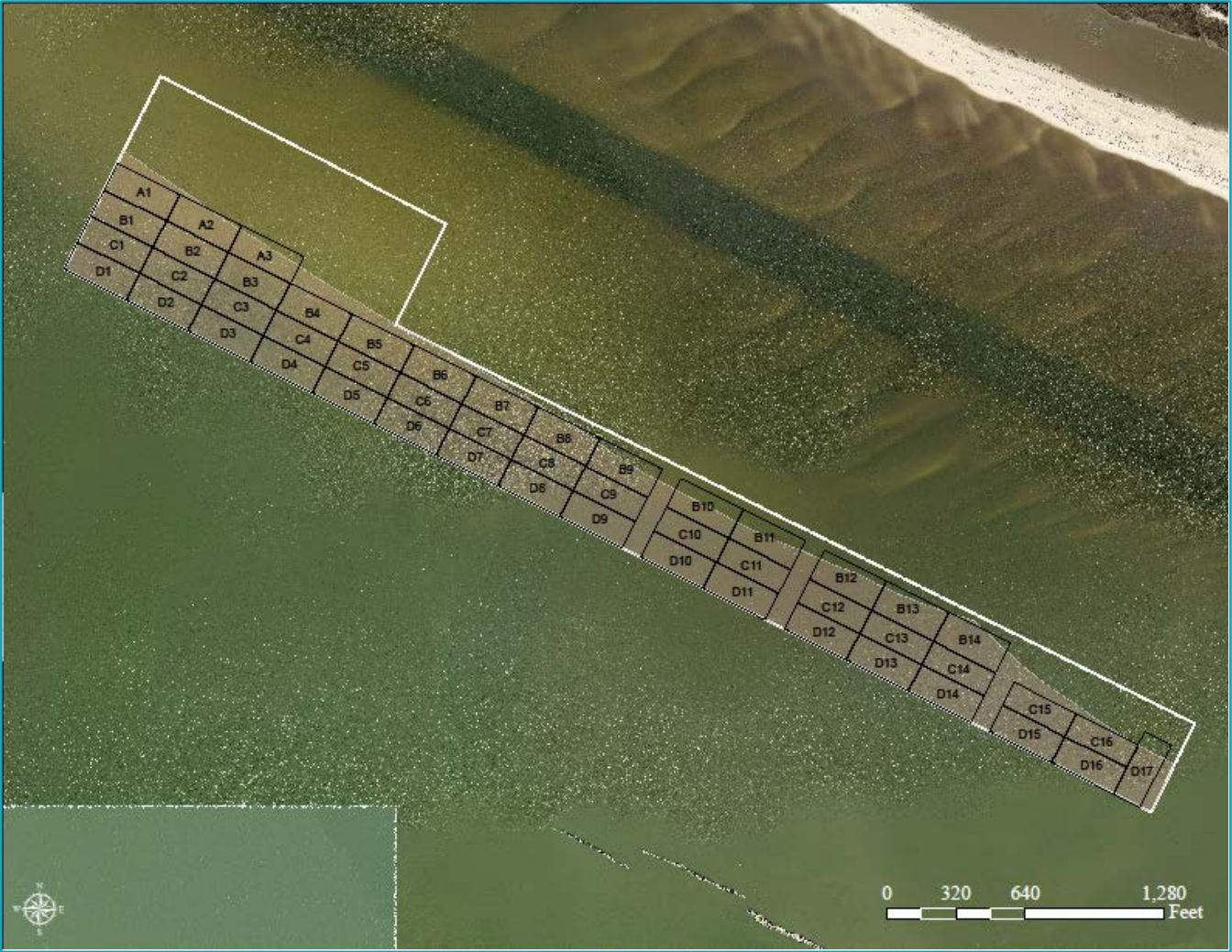
Governor Bryant convened the Oyster Council to produce recommendations to reach the primary goal:

1 million sacks of oysters by 2025

Top 3 priorities:

- **Be self-reliant**
- **Be able to scale up replenisment and restoration efforts**
- **Diversify oyster harvest strategies**

MDMR OFF-BOTTOM MOYSTER Aquaculture TRAINING



Creation of a Mobile Single Set Growout system for the Eastern Oyster



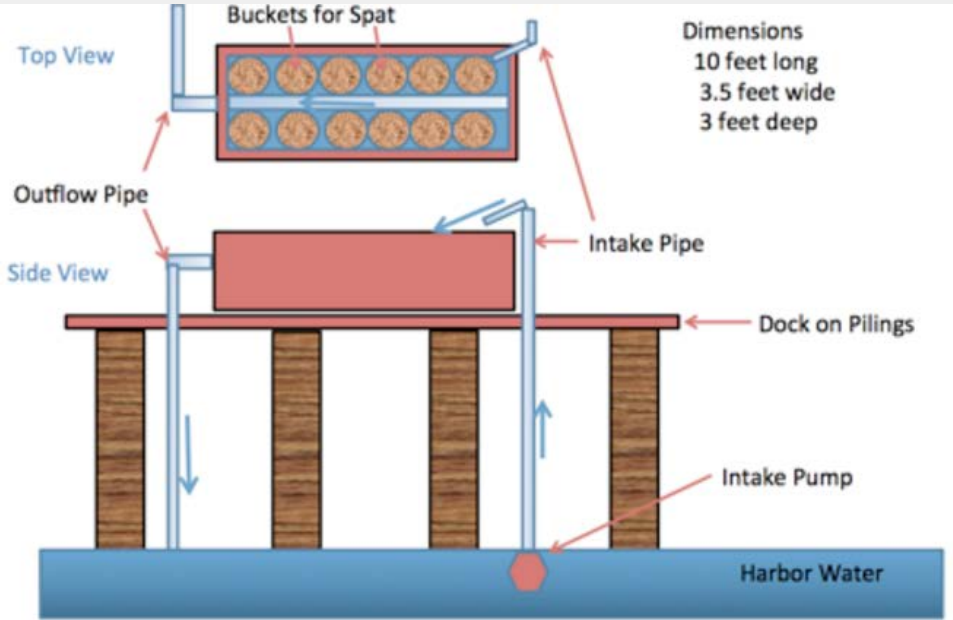
Program goals



Program goals

- # 1 - Design, construct and operate movable single set seed Grow Out operations
- # 2 - Train/ run experiment with seed for proof of concept to Mississippi farmers
- # 3 - Demonstrate the operation to private industry members

Goal #1: Build/Design Upweller



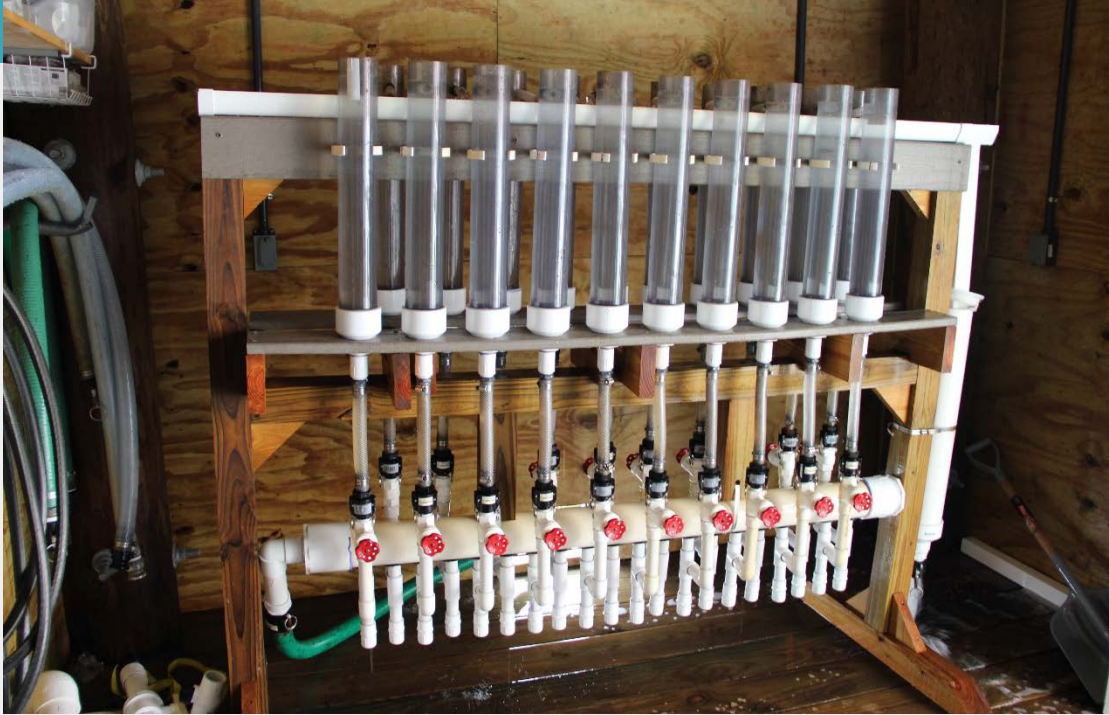
Advantages

- Good water flow pattern
- High food flow
- High stocking density
- Protection from predators
- Portable and can be moved quickly

disadvantages

- High maintenance (CLEANING)
- Exposed to tampering
- Loss of power is detrimental to seed
- Seed can easily be lost

Goal # 1 Build/Design Bottle Upweller



Advantages

- High water flow
- High stocking density
- Protection from predators
- Small footprint
- Portable and can be moved

disadvantages

- Seed can easily be lost
- Exposed to tampering
- Loss of power is detrimental to seed

Goal #2- Train/run experiments with seed for proof of concept to Mississippi farmers



- raised approximately 500K seed in up-wellers
- Deployed *380K oysters to MDMR training area to help train Off-Bottom Oyster Aquaculture participants



Goal #3 - Demonstrate the operation to private industry members

- Project has been extended to August of 2019
- MDMR will raise additional seed and train 2018/2019 off-bottom training participants on build out and operations
- MDMR will host 2 training seminars for industry



THANK YOU

For more information, visit mdmr.ms.gov.



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