

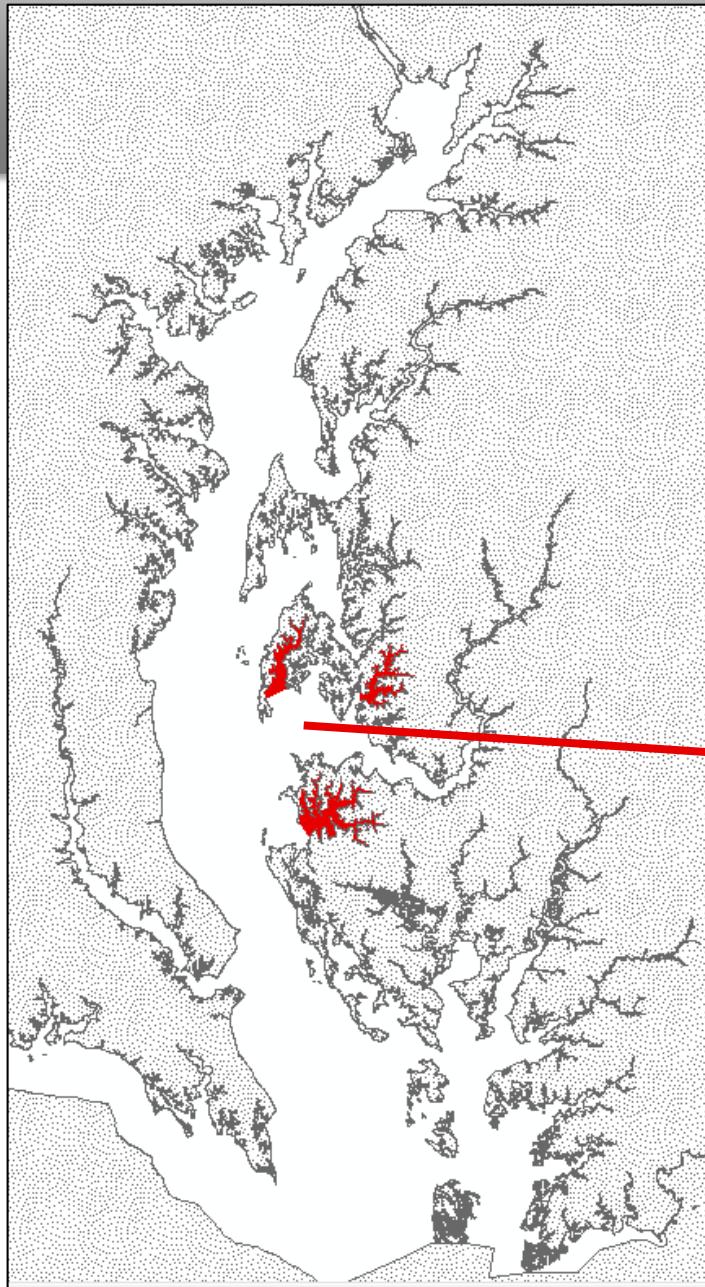


Maryland's Recommended 4th and 5th Large Scale Restoration Tributaries

Jodi Baxter
Maryland Department of Natural Resources
12/17/18



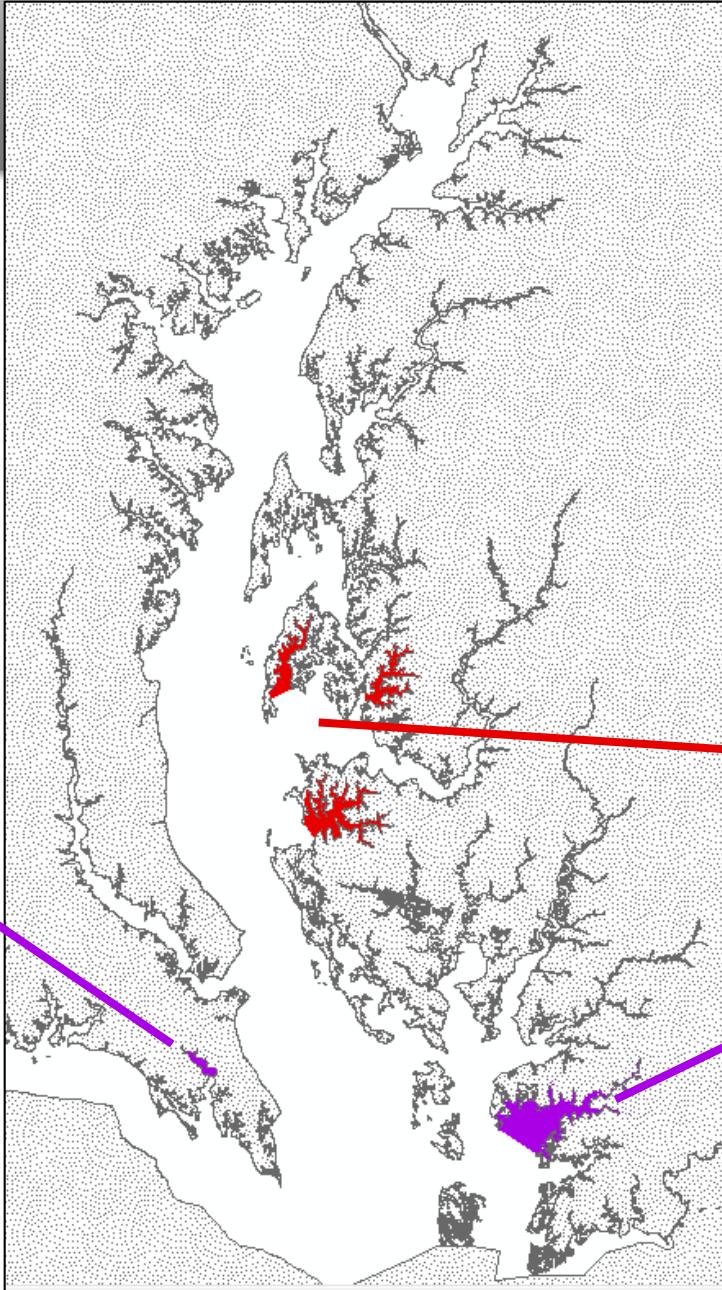
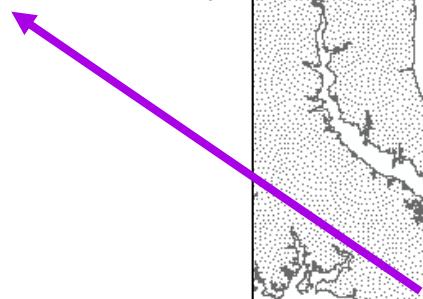
Location



Harris Creek Sanctuary
Tred Avon Sanctuary
Little Choptank Sanctuary

Location

St. Mary's Sanctuary



Harris Creek Sanctuary
Tred Avon Sanctuary
Little Choptank Sanctuary

Manokin Sanctuary



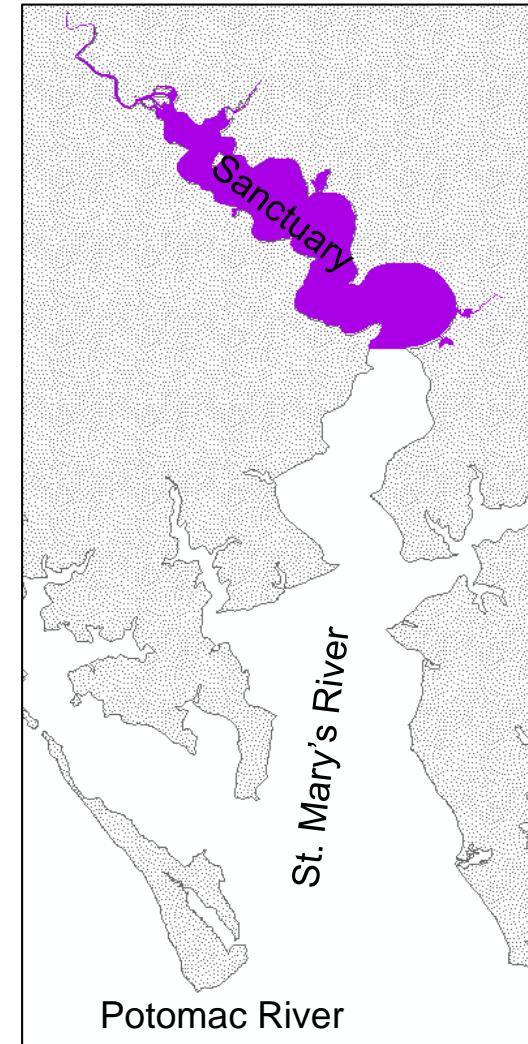
St. Mary's Sanctuary

Background

- Surface area = 1,304 acres
- Historic oyster bottom = 89 acres
- Sanctuary area since 2010

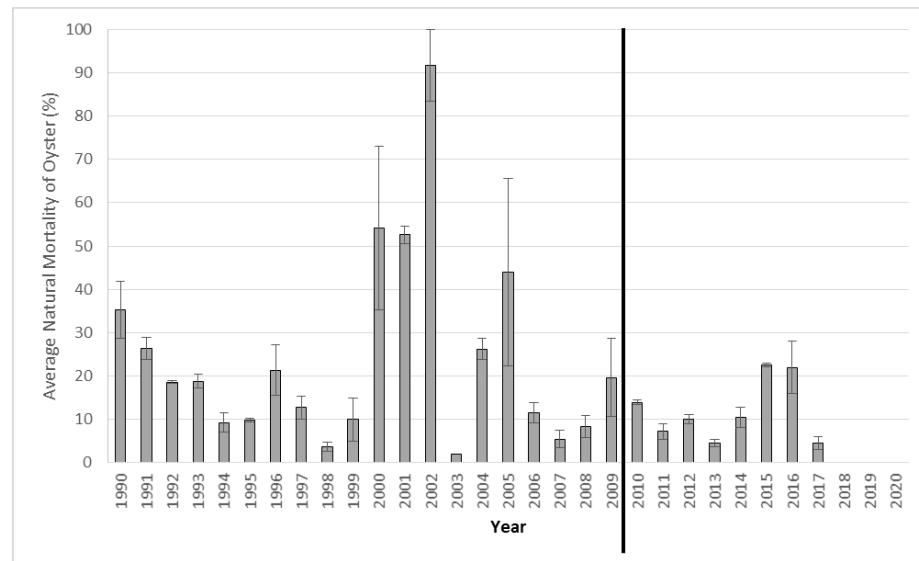
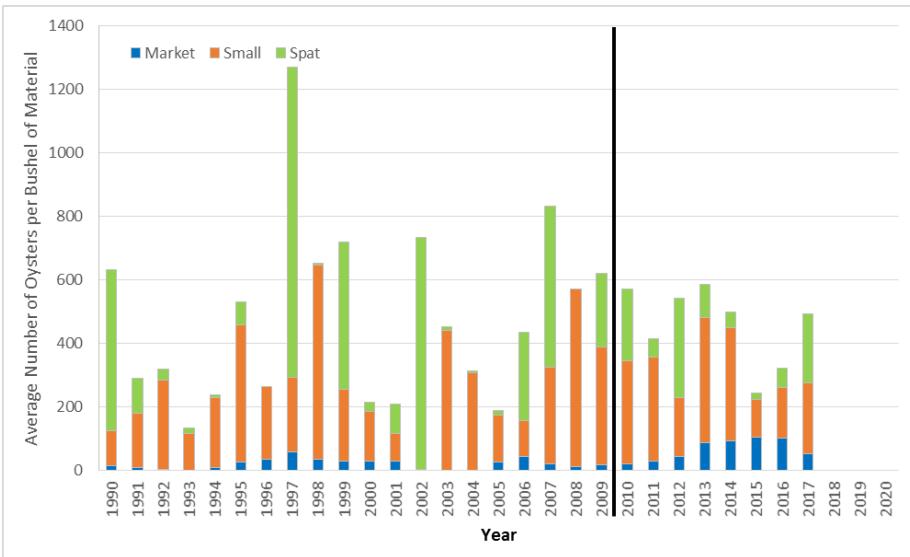
Recommendation Factors

- Tier 1 sanctuary for restoration
- Strong local support
- Oyster Advisory Commission votes tied with Manokin for 2nd choice for selection
- Good biological and ecological conditions to support restoration



St. Mary's Sanctuary

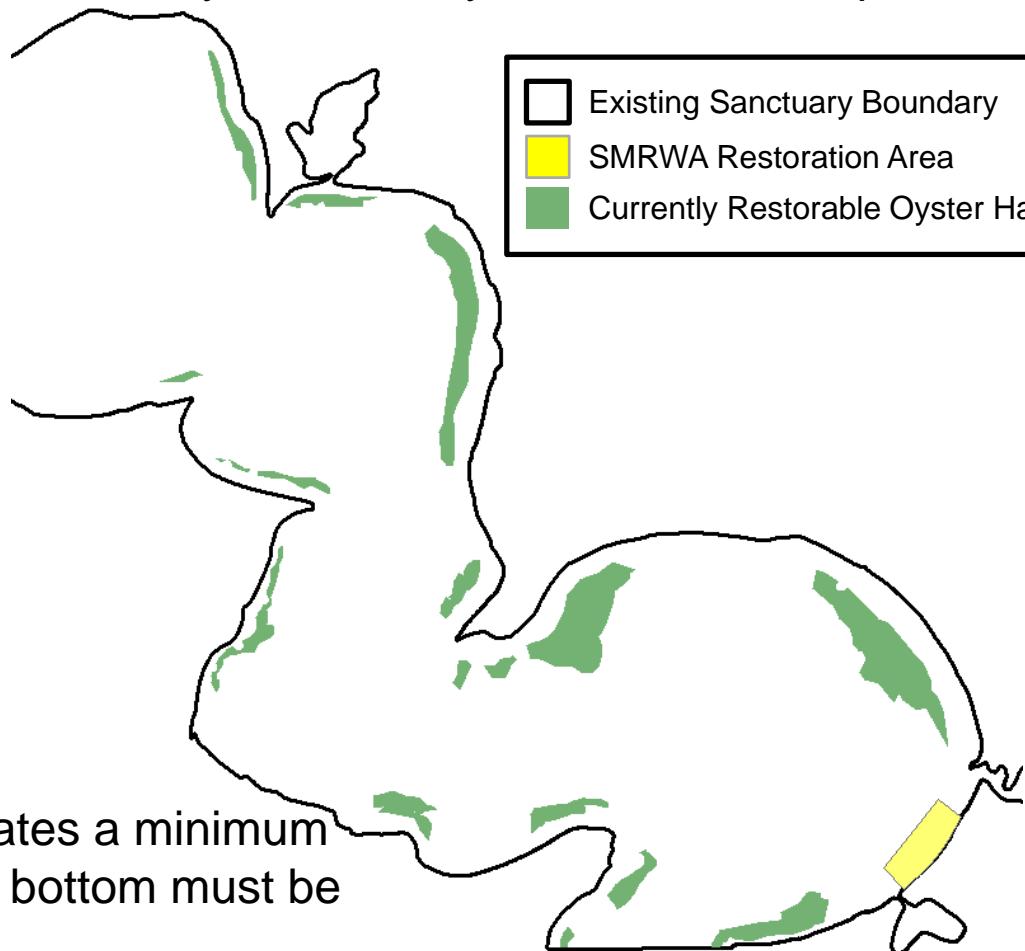
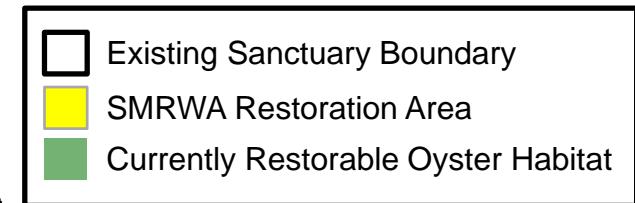
Annual Oyster Fall Dredge Survey Data in St. Mary's Sanctuary



St. Mary's Sanctuary

69.9 acres of
Currently Restorable Oyster
Habitat (CROH) based on
distribution of shell bottom
from recent survey data with a
minimum depth of 4 ft. MLLW.
Actual restoration construction
would range from 50-100% of
CROH.

St. Mary's Sanctuary Restoration Blueprint Map

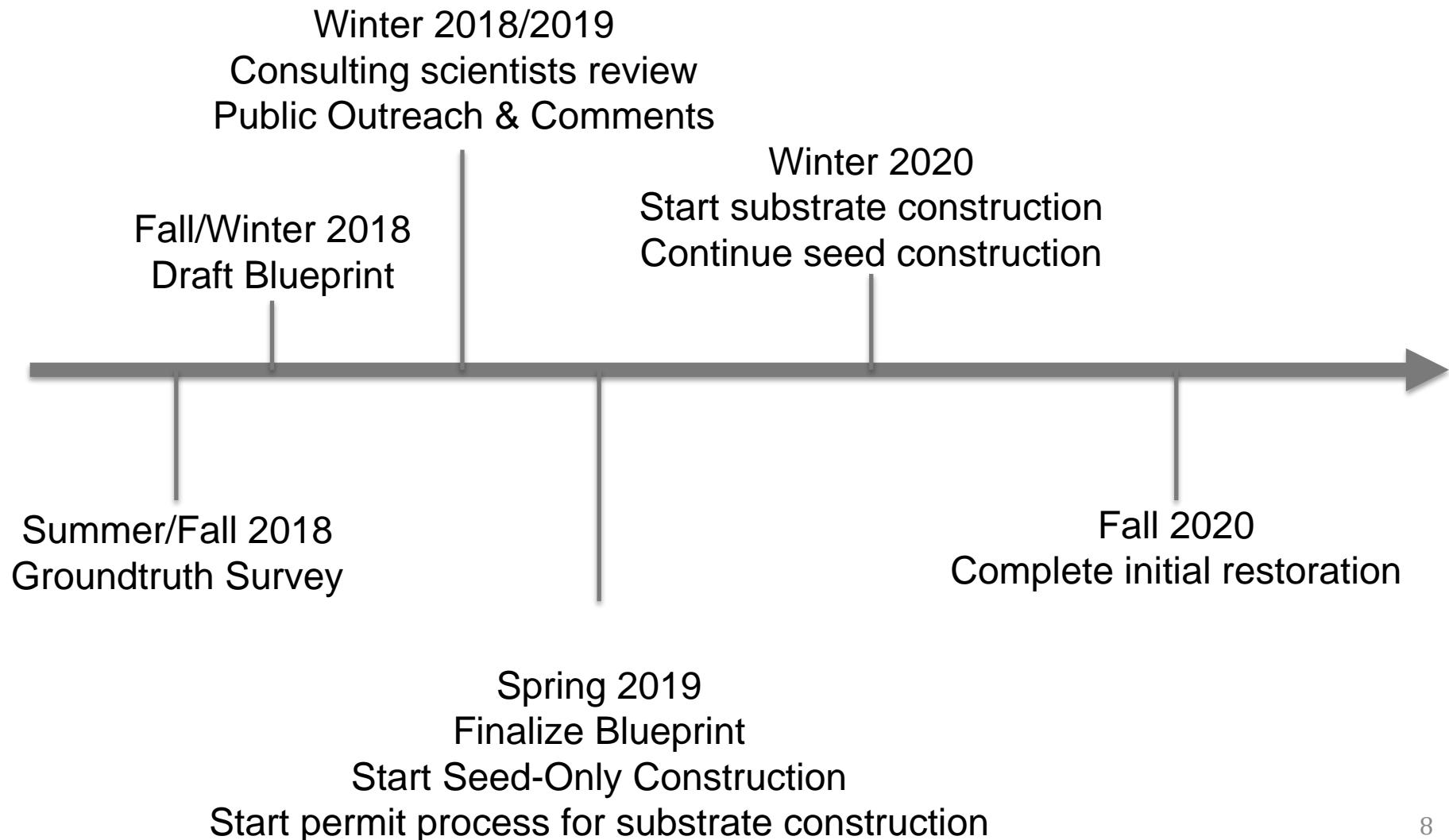


✓ Tributary selection criteria states a minimum
of 8 to 16% of historic oyster bottom must be
able to be restored

St. Mary's: Next Steps

1. Side scan sonar bottom survey – potential bottom suitable for restoration
2. Determine the acreage of currently restorable oyster habitat and define the restoration goal (target acreage)
3. Oyster patent tong groundtruth survey
 - Determine exact acreages
 - already exceeds target thus no restoration planting needed
 - suitable for seed only construction
 - suitable for substrate & seed construction
4. Develop a draft blueprint (plan) for restoring the sanctuary
5. Consulting scientists review draft blueprint
6. Public comment period on draft blueprint
7. Finalize blueprint, obtain substrate planting permits (if applicable), and implementation

St. Mary's: Proposed Timeline



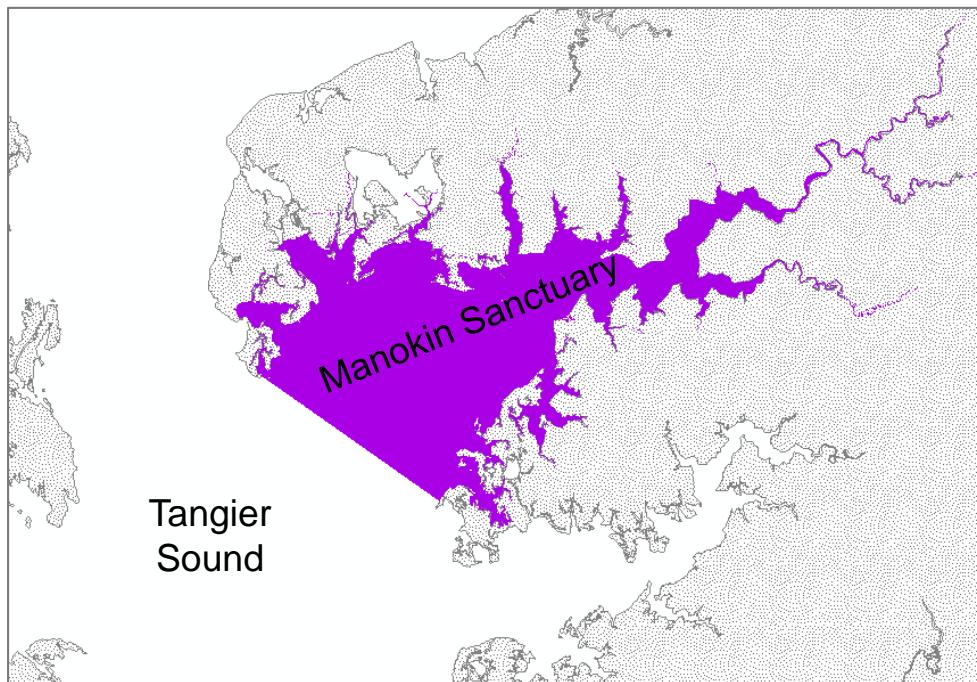
Manokin Sanctuary

Background

- Surface area = 16,320 acres
- Historic Yates oyster bottom = 4,984 acres
- Sanctuary area since 2010

Recommendation Factors

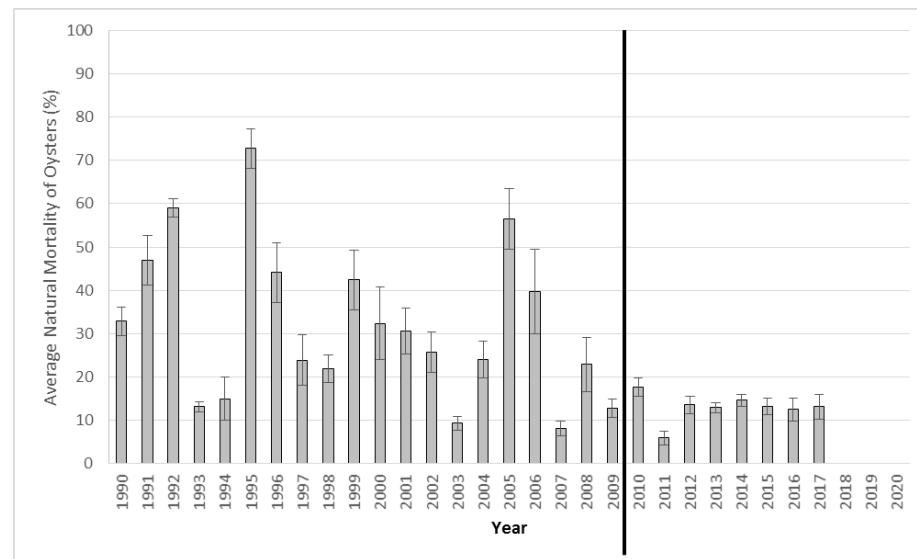
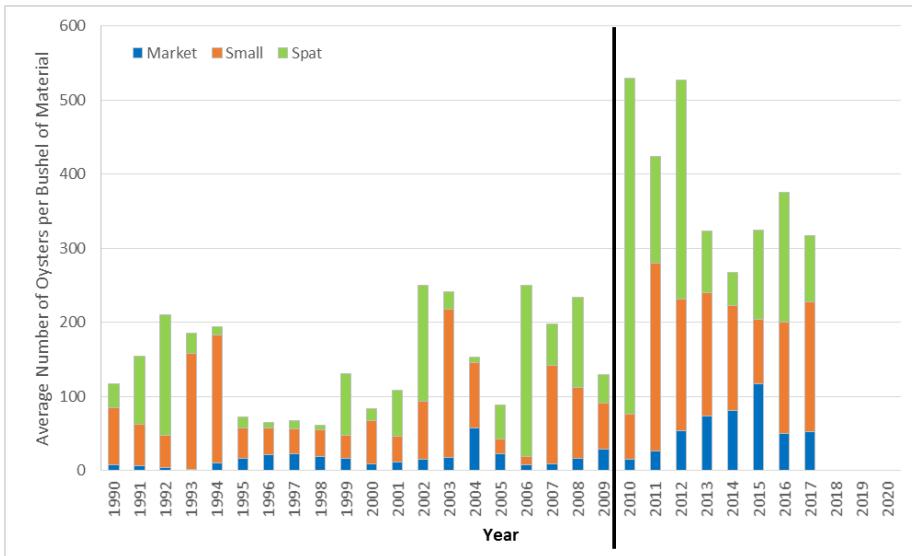
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Manokin Sanctuary

Annual Oyster Fall Dredge Survey Data in Manokin Sanctuary

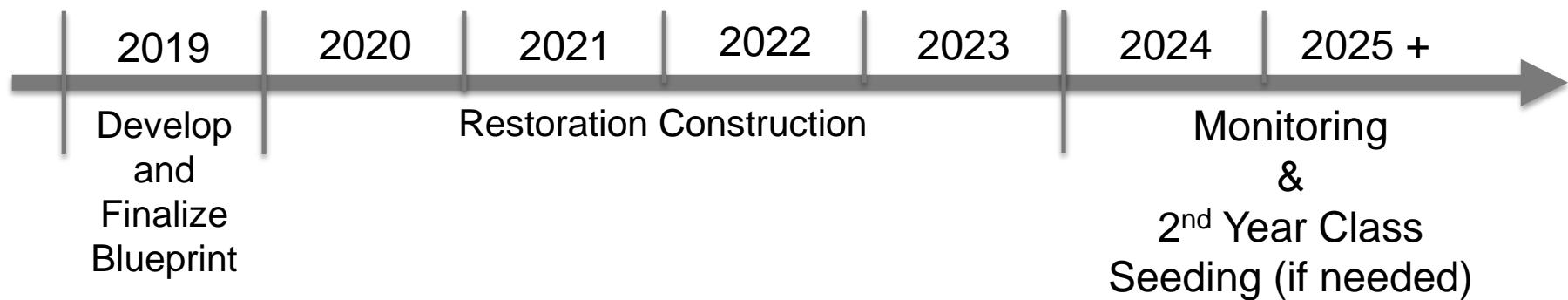


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Manokin: Proposed Timeline





Questions or Comments ???