# Eelgrass and Bay Scallop Restoration in Virginia's Seaside Bays



#### **Eelgrass and Bay Scallop Restoration**

- VA was major producer of bay scallops 1920-1932
- Led nation in 1930 with 1.8M lbs ~91M scallops
- Scallop production and eelgrass abundance decline 1930-31
- 1933 Hurricane no eelgrass habitat, no bay scallops











50m

- Seaside Partnership formed in 2001 to reverse loss of oyster reef and eelgrass habitat lost in previous century
- Joined VIMS' efforts to restore eelgrass after nearly 70 years absence
- First funded by VA CZM Program then significantly supported by NOAA

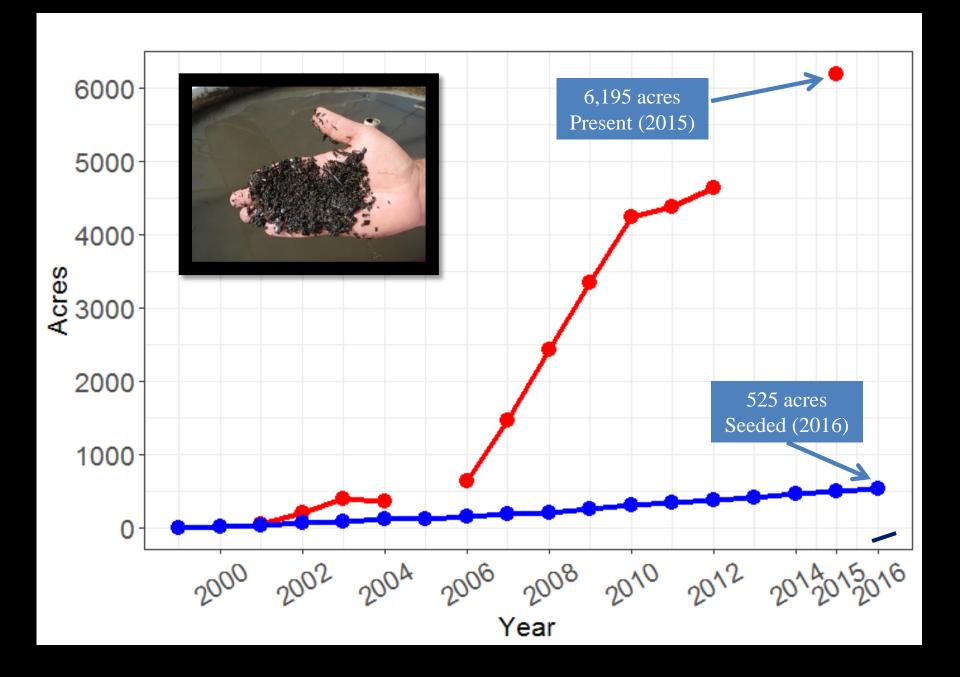


#### Mechanical Seagrass Harvester

















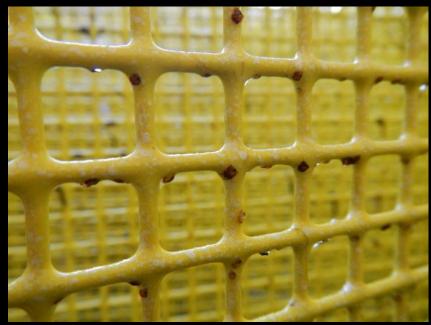
### **Larval Dispersal**





## Larval Setting Tanks





VIMS, Cherrystone Aquafarms, and TNC all experimenting with more efficient setting techniques





#### **Annual Scallop Survey**

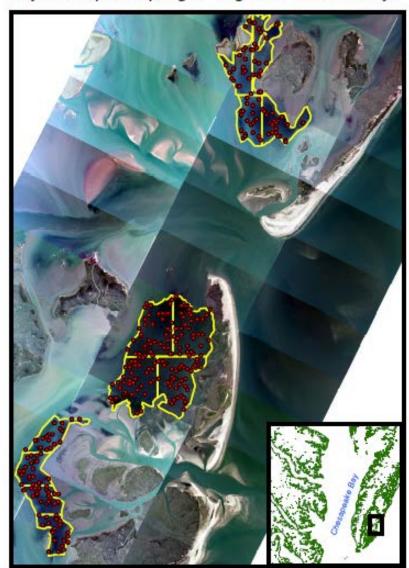
#### 2015 and 2016 Assessment Info

3 locations
4 segments/location
20/40 sites/segment
50 m<sup>2</sup> of seagrass checked
16,000 m<sup>2</sup> of bottom

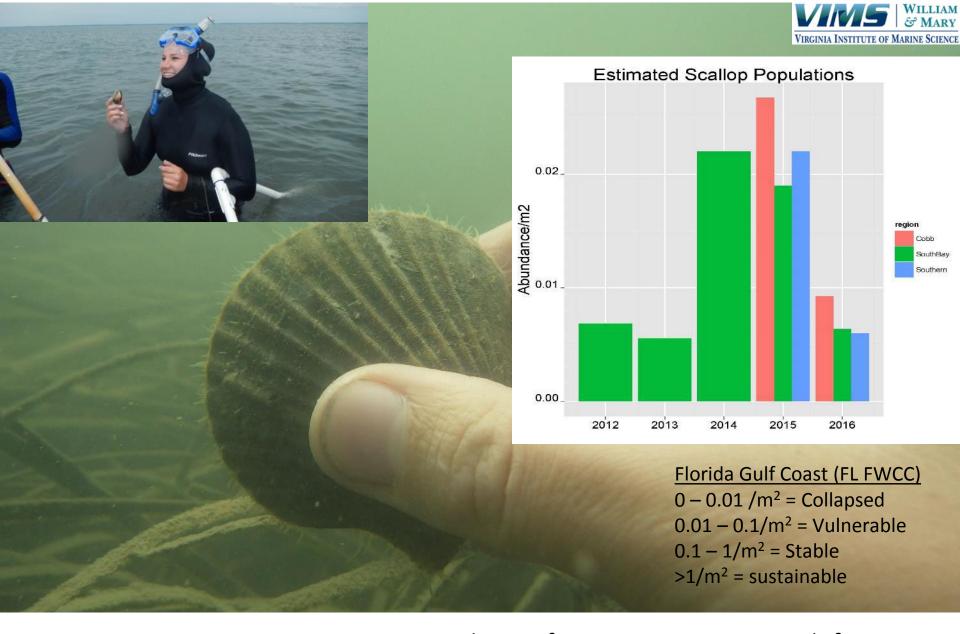
(4 acres searched for scallops by hand)



Bay Scallop Sampling in Virginia's Coastal Bays







Cobb Bay: 779.4 acres, 107 scallops found/4000  $m^2$  = 84,376 scallops = 0.027/ $m^2$  South Bay: 1354.2 acres, 151 scallops found/8,000  $m^2$  = 103,444 scallops = 0.019/ $m^2$  South Bay South: 603.0 acres, 88 scallops found/4,000  $m^2$  = 53,688 scallops = 0.022/ $m^2$ 

#### Future Possibilities?



