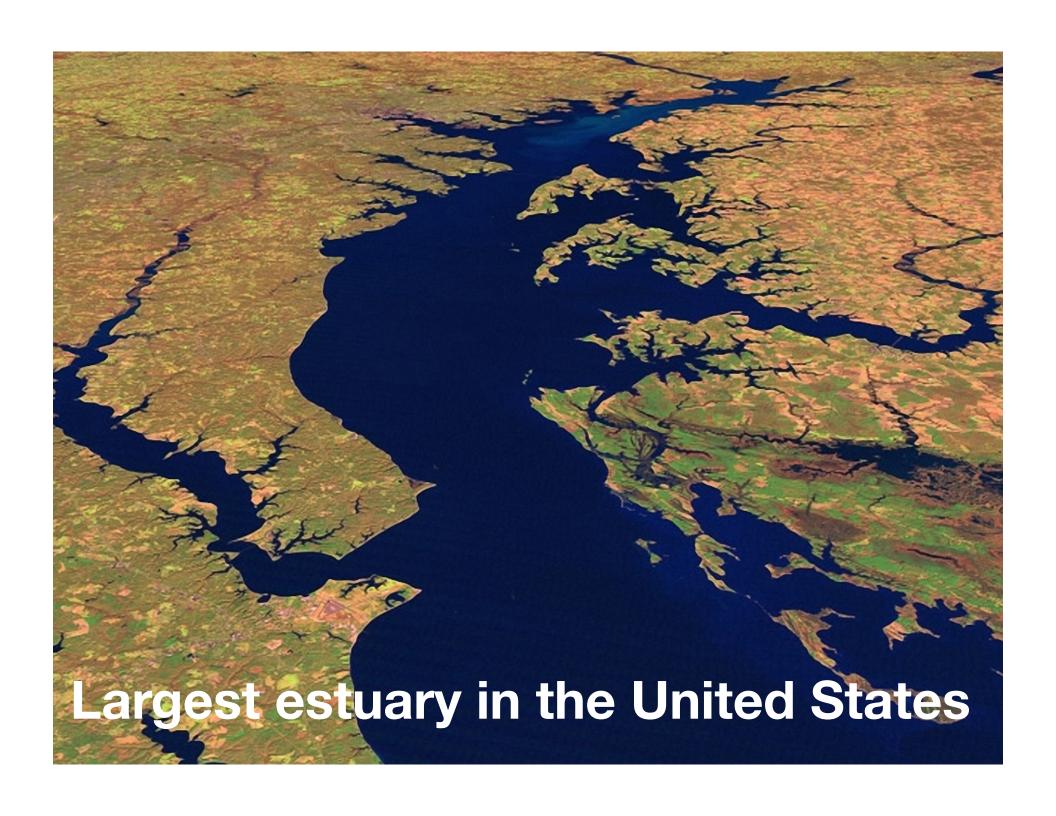
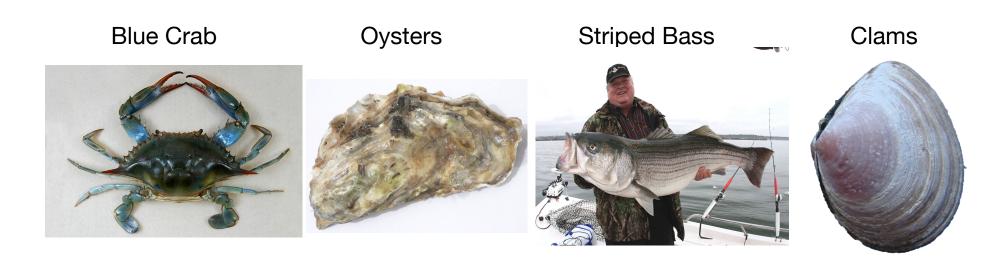


The Chesapeake Bay Watershed



## Fishing Industry of:



 No other American estuary has a higher yield





### Nutrients, Algae and Fish Kills

- In normal ecosystem low nutrient levels keep algae in check
- Adding nutrients causes algal blooms
- Algae die and become detritus (decaying matter)
- Detritus is decomposed by microbes, microbe populations boom.
- Microbes use the oxygen in the water
- Low dissolved oxygen in the water kills fish and other organisms
- Dead zones appear in the bay where nothing can live



# What causes the excess nutrients? Rivers and tributaries are bringing the nutrients to the Chesapeake Bay:

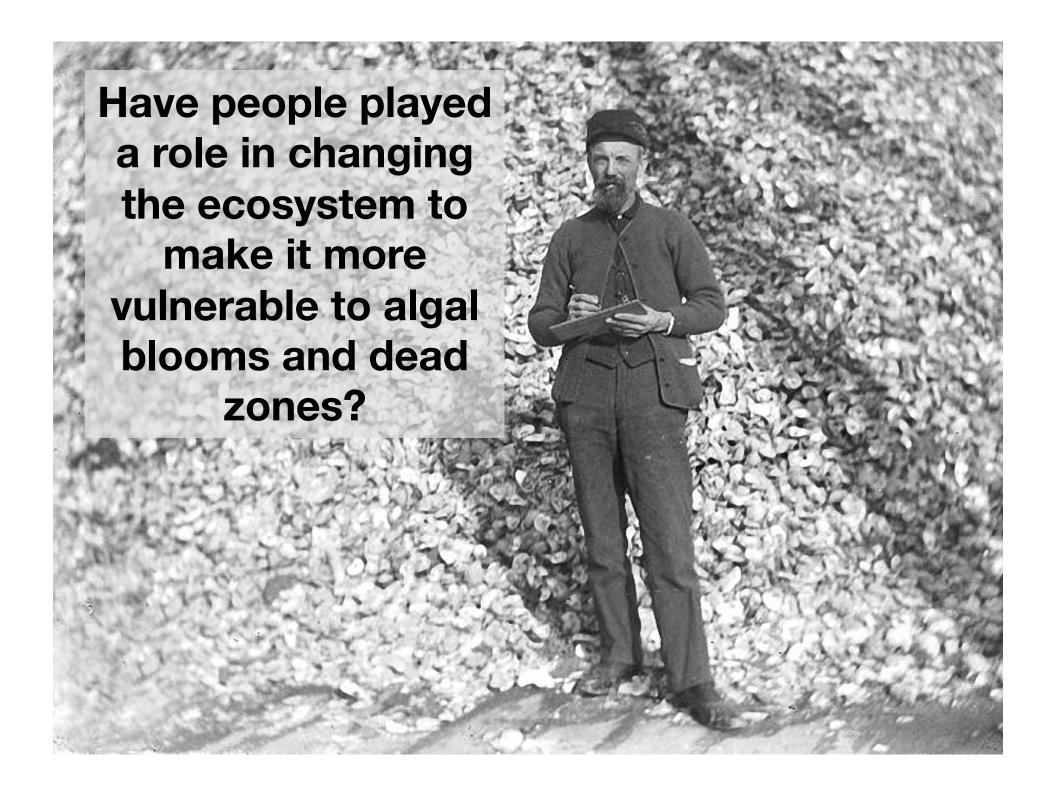
- Sewage
- Farming

Factory farms
discharge 650
million lbs of
chicken manure
each year









# To Investigate this question you will:

- Analyze historic and modern day food webs
- Chart trends in harvesting and ocean health using real data on the Chesapeake Bay
- Draw conclusions from your analyses and make recommendations for restoring Chesapeake Bay ecosystems
- Watch a short film about the Chesapeake Bay and discuss your seafood consumption choices

#### **Image Credits**

1. Chesapeake Bay: US Coast Guard

2. Chesapeake Bay Watershed: US Department of Agriculture

3. Chesapeake Bay Map: NASA

4. Blue Crab: The Children's Museum of Indianapolis

**Oyster: David Monniaux** 

Striped Bass: Mike Smedley

Clam: Aung/Wikipedia

5. Map: NASA

6. Algal Blooms: Jennifer L. Graham/US Geological Survey

7. Dead Fish: US Geological Survey

8. Hog Farm Waste: USDA

Chickens: SRAP

Pigs: Farm Sanctuary

9. Longshoreman Atlantic City: Isabella & Carroll Walker Collection/The Norfolk Public Library