









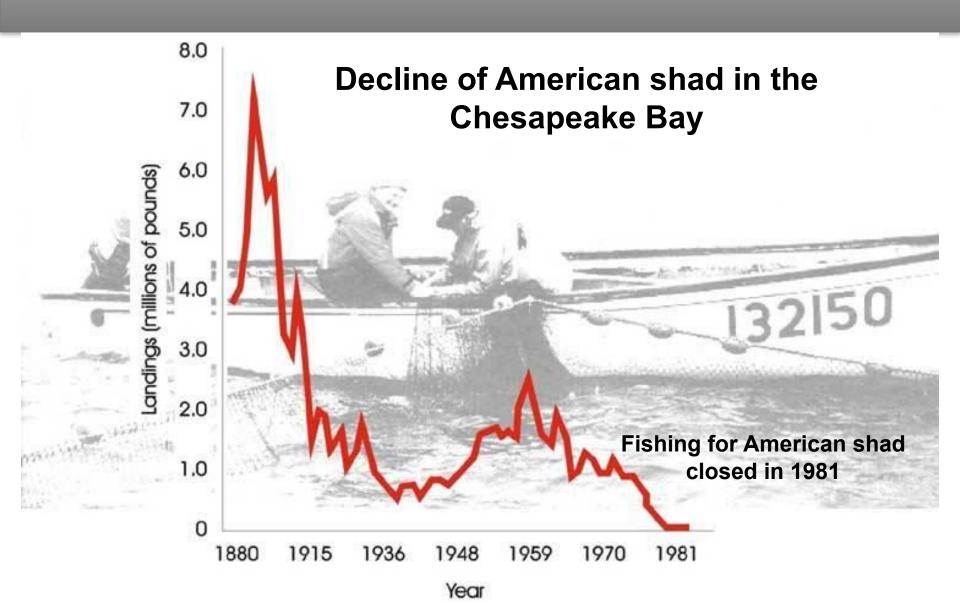
American shad, hickory shad, and herring are anadromous fish

Anadromous fish live in the ocean and migrate into freshwater streams to spawn. From the Greek word Anadromos which means "running up" or "a running"











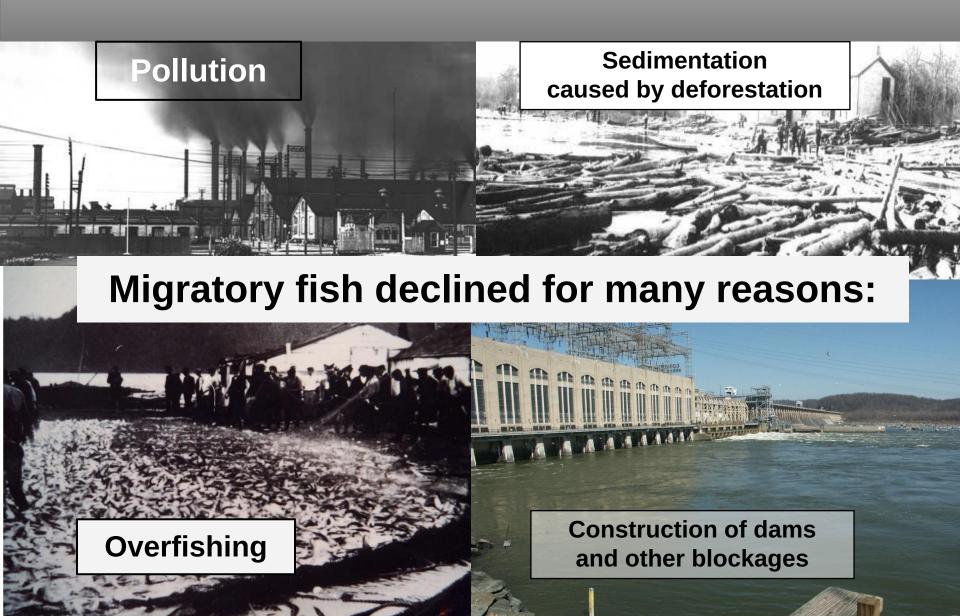








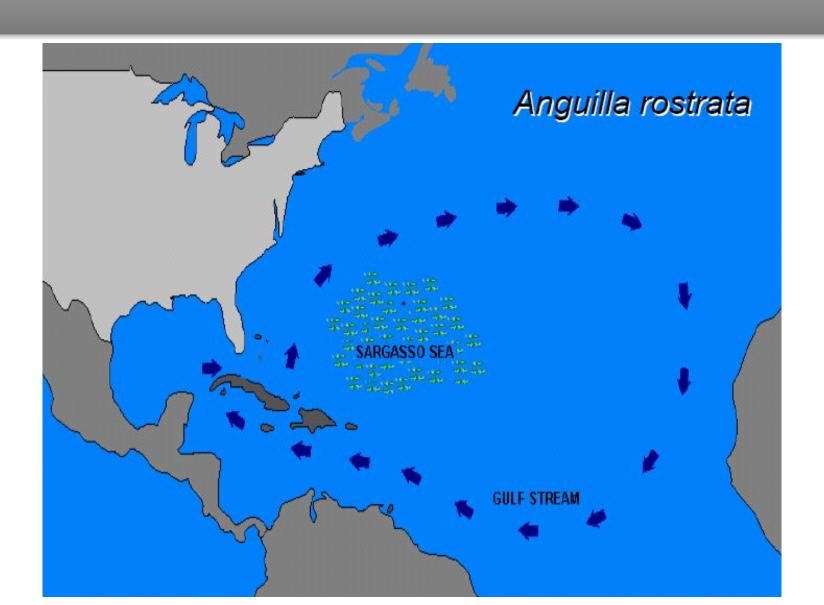




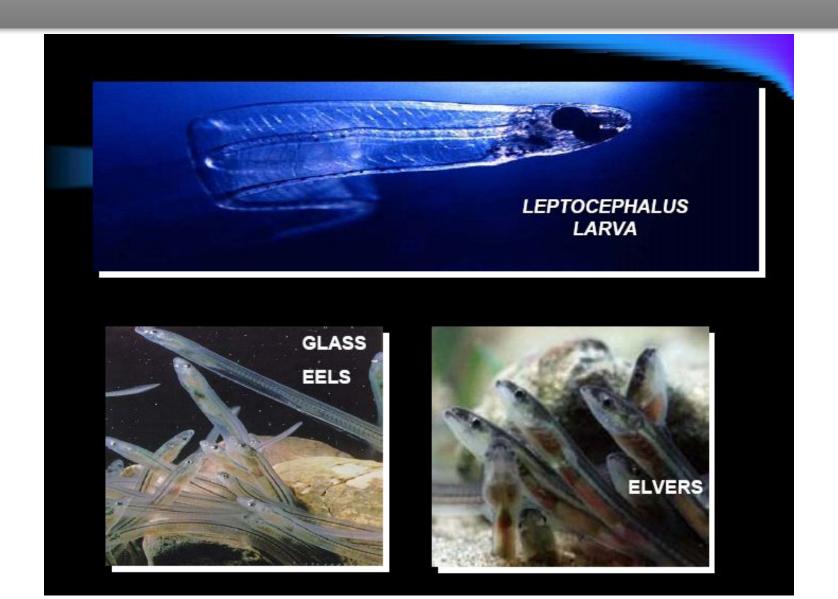


Photo credit: Fort Bragg, North Carolina http://www.bragg.army.mil/esb/

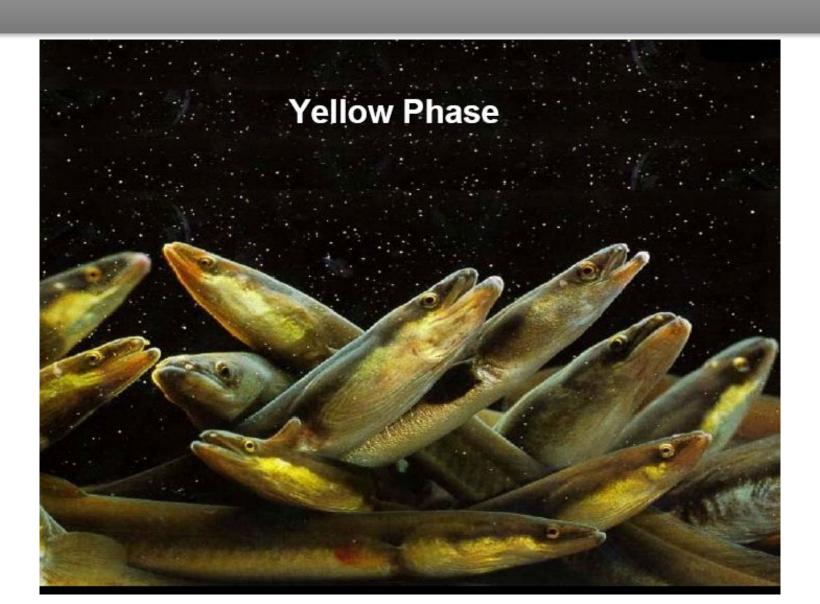




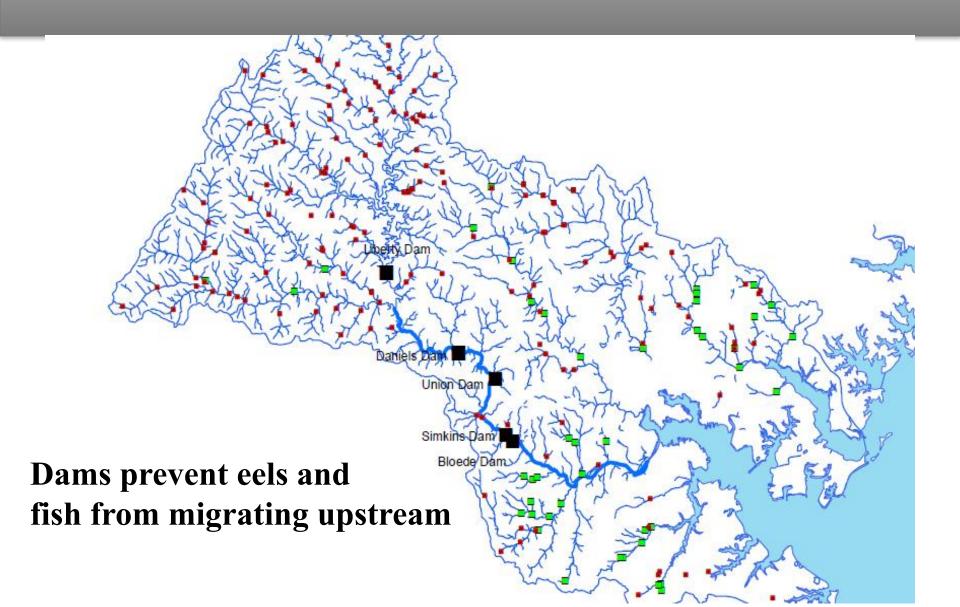












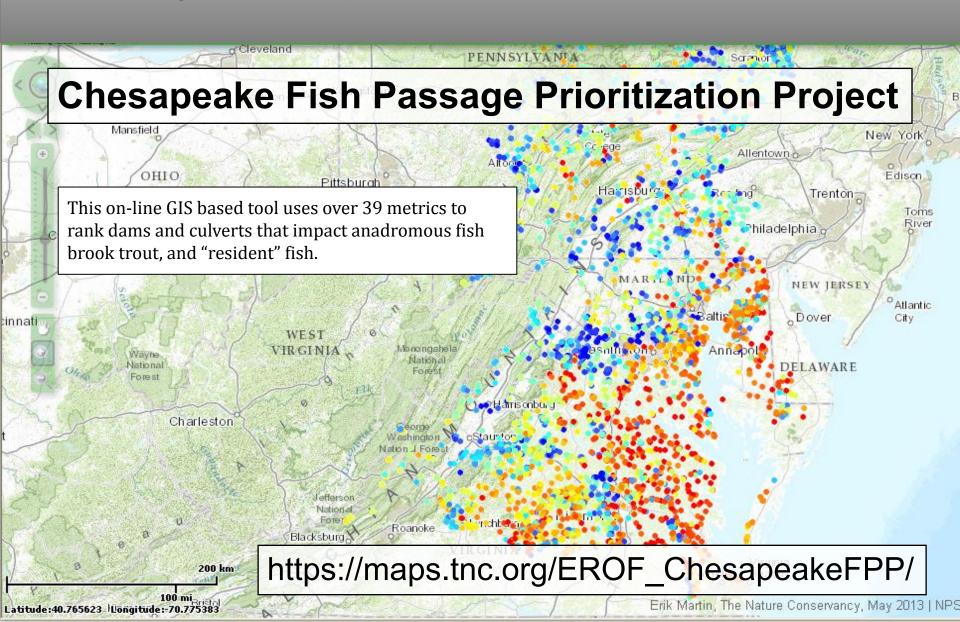














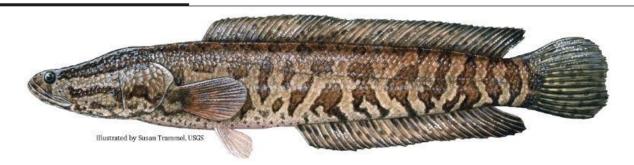
There are 120+ introduced and established aquatic species (mostly fishes) listed by the United States Geological Survey in the Chesapeake Bay. 18% of these are regarded as aquatic nuisance species and threaten business in the State.

Aquatic Invasive Species in Maryland include:

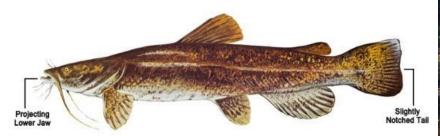
- Blue Catfish
- Flathead Catfish
- Northern Snakehead
- Chinese Mitten Crab
- Water Chestnut
- Virile Crayfish
- Rusty Crayfish
- Zebra Mussel
- Didymo: Invasive Algae

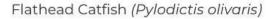


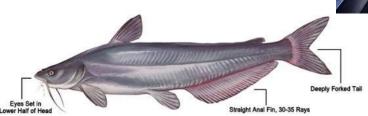
### Northern Snakehead



### **Invasive Catfish**













Blue Catfish (Ictalurus furcatus)



#### Governor Moore Requests Federal Fishery Disaster Declaration for Invasive Blue Catfish

March 16, 2023

Maryland Seeking Federal Assistance for Invasive Species that Threaten Chesapeake Bay's Commercial Fishing Industry

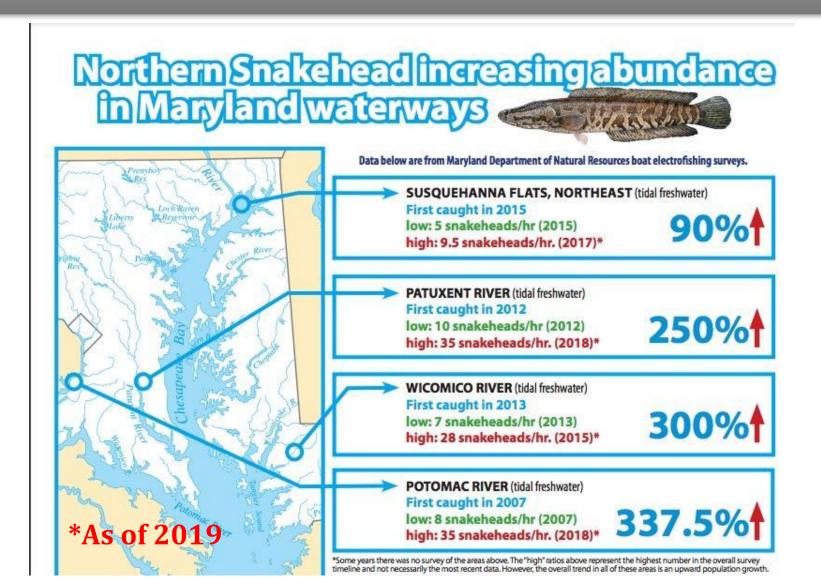
\*As of 2019

ANNAPOLIS, MD—Governor Wes Moore is today calling on the federal government to declare the expanding population of invasive fish species—including blue catfish, flathead catfish, and snakehead to be an ongoing commercial fishery disaster in the Maryland waters of the Chesapeake Bay. The governor sent a letter to U.S. Commerce Secretary Gina Raimondo requesting the declaration under provisions of the Magnuson-Stevens Fishery Conservation and Management Act and the Interjurisdictional Fisheries Act.



Species found in major drainages identified from reports to department and USGS Nonindigenous Aquatic Species Database







### **Snakehead Captured at Conowingo Dam Fish Lifts**

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023*
# of Lifts	54	65	66	59	63	66	4	59	144	
Snakehead	0	0	0	1	0	81	35	952	866	807
Flathead	60	124	92	376	559	190	0	1098	767	126

<sup>\*</sup>As of May 24nd



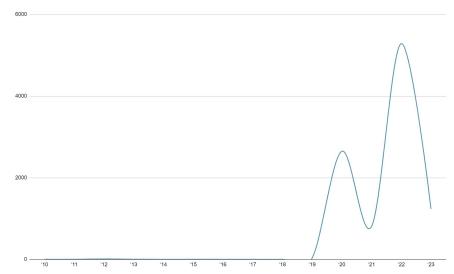




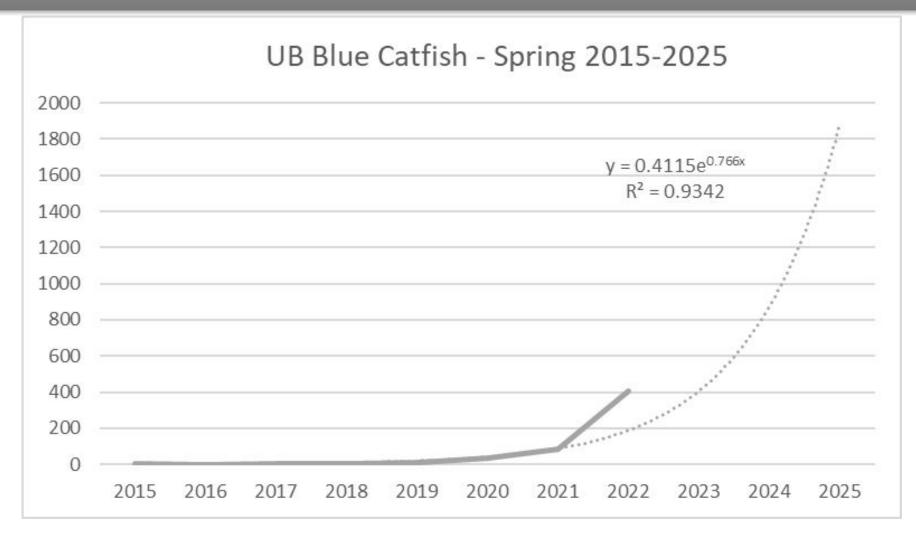
## **Blue Catfish Captured in DNR Winter Trawls**

Year	'10	<b>'11</b>	'12	<b>'13</b>	<b>'14</b>	'15	'16	'17	'18	<b>'19</b>	'20	'21	'22	<b>'23</b>
# Trawls	56	78	143	116	72	108	112	137	129	62	134	138	100	131
Blue Cat	0	2	10	3	0	2	1	0	1	28	2647	803	5283	1235









Blue Catfish in Striped Bass Spawning Stock Survey - Upper Bay



# THANK YOU! QUESTIONS?

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