



**CHESAPEAKE BAY
FOUNDATION**

Saving a National Treasure



A Chesapeake Bay Reminder

“There is but one entrance by sea into this country, and that is at the mouth of a very goodly bay ... Within is a country that may have the prerogative over the most pleasant places known, for large and pleasant navigable rivers, heaven and earth never agreed better to frame a place for man’s habitation ...”

“... the fish were so thicke, we attempted to catch them with frying pans.”

Oysters “lay as thick as stones.”

Captain John Smith





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2018 State of the Bay Health Index

STATE of the BAY

POLLUTION

			-5	F
Phosphorus	19	-9		F
		+2		C
Water Clarity	16	-4		F
				D



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Report Card: Pollution

Chesapeake Bay TMDL & WIPs: Clean Water Blueprint 2010-2025

- Goal: Reduce N, P, S in Bay waterways to achieve WQS
- Time frame: 15 years to 2025
- Reasonable Assurances: States' WIPs 2010, 2012, 2018
- Accountability: 2 year Milestones, evaluate performance, 2017 Midpoint Assessment: Changes (e.g., Model 6.0)
- Adaptive Management: Programs (fix, accelerate, etc.)
- EPA Backstops

Photo by Katherine Lloyd

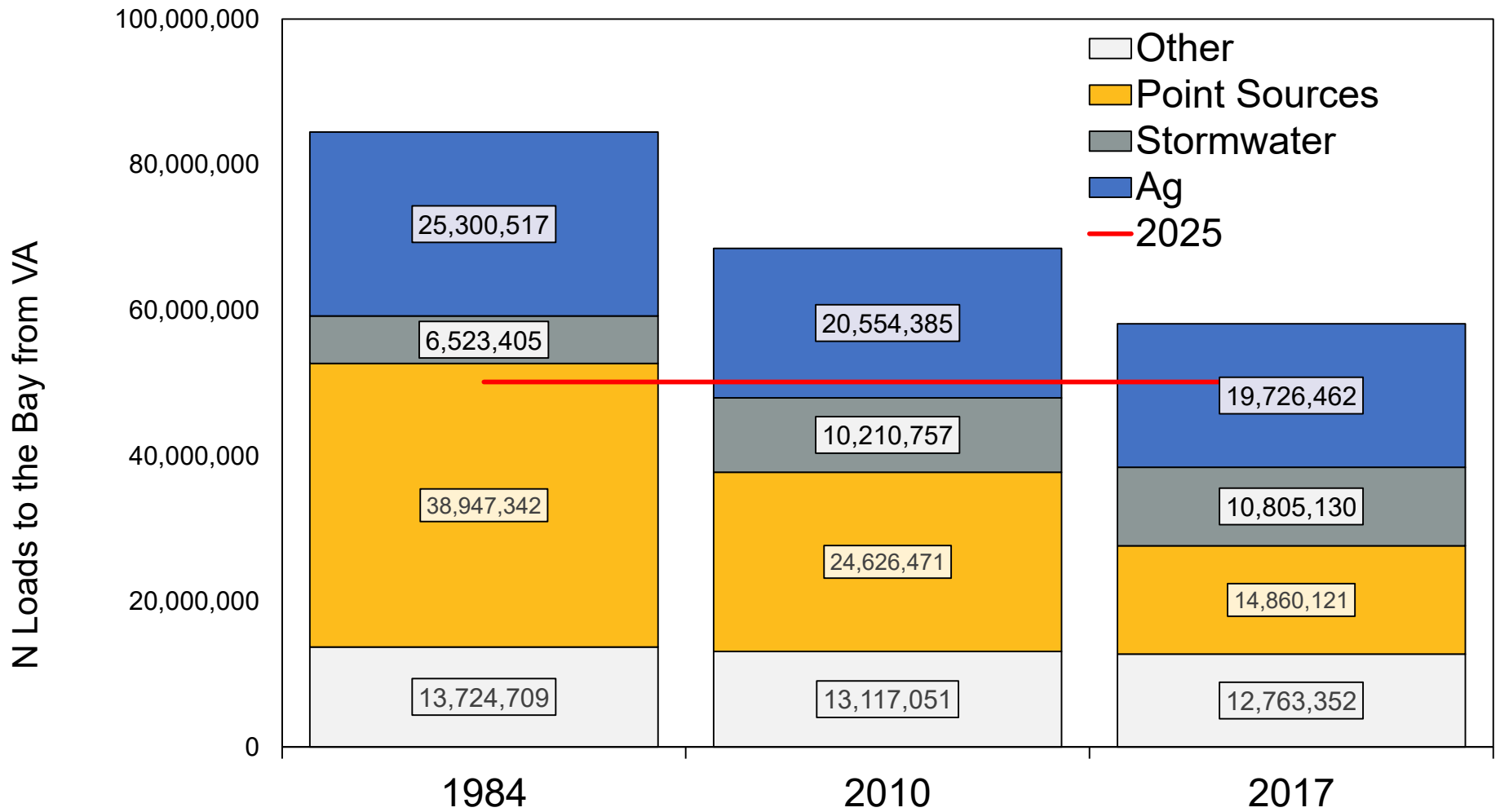


- **Chesapeake Bay Preservation Act, erosion & sediment rules**
- **Wastewater treatment upgrades**
 - **WQIF & local match**
 - **Watershed general permit for significant dischargers**
- **Nutrient & sediment trading**
- **P-ban for labelled lawn maintenance fertilizer**
- **Agriculture**
 - **Virginia Agricultural Cost Share (VACS) Program**
 - **Resource management plan (ag certainty) program**
- **Stormwater Management**
 - **Municipal separate storm sewer system program**
 - **VSMP programs**
 - **Stormwater Local Assistance Fund (SLAF), utility programs**



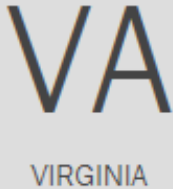
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**Important Blueprint-related
programs in Virginia**



VIRGINIA'S 2017 MIDPOINT PROGRESS TOWARD POLLUTION REDUCTIONS

By 2017, practices should have been in place to achieve 60 percent of the 2025 pollution reduction goals. Here's a look at how Virginia performed. [Key](#)

		Nitrogen	Phosphorus	Sediment
	Agriculture	Red	Green	Red
	U&S Polluted Runoff†	Red	Red	Red
	Wastewater & CSO††	Green	Green	N/A*
	ALL SOURCES	Green	Green	Red

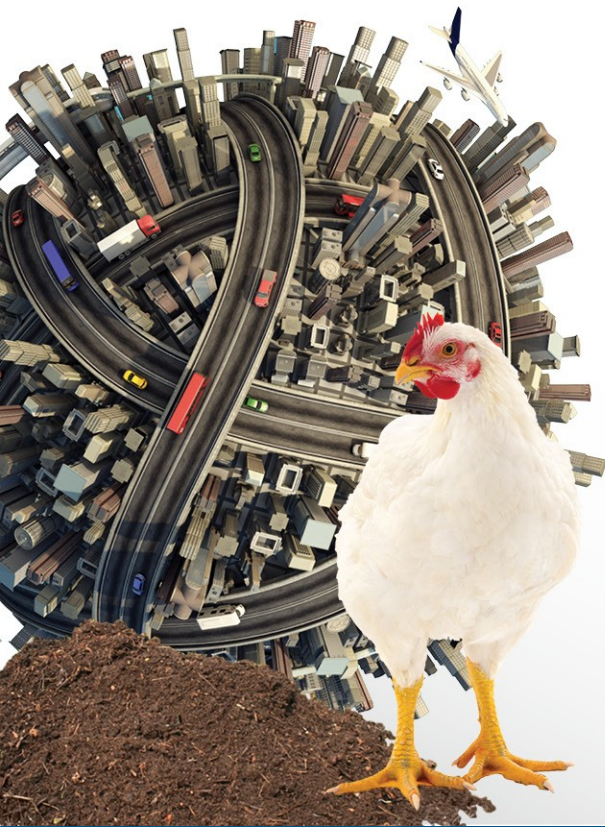
Key

	Did not achieve	*	No contribution from this source sector
	Within 5% of achieving	†	Urban & Suburban
	Achieved	††	Combined Sewer Outflow



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VA's 2017 progress



NITROGEN

12 F (-5 from 2016)

PHOSPHORUS

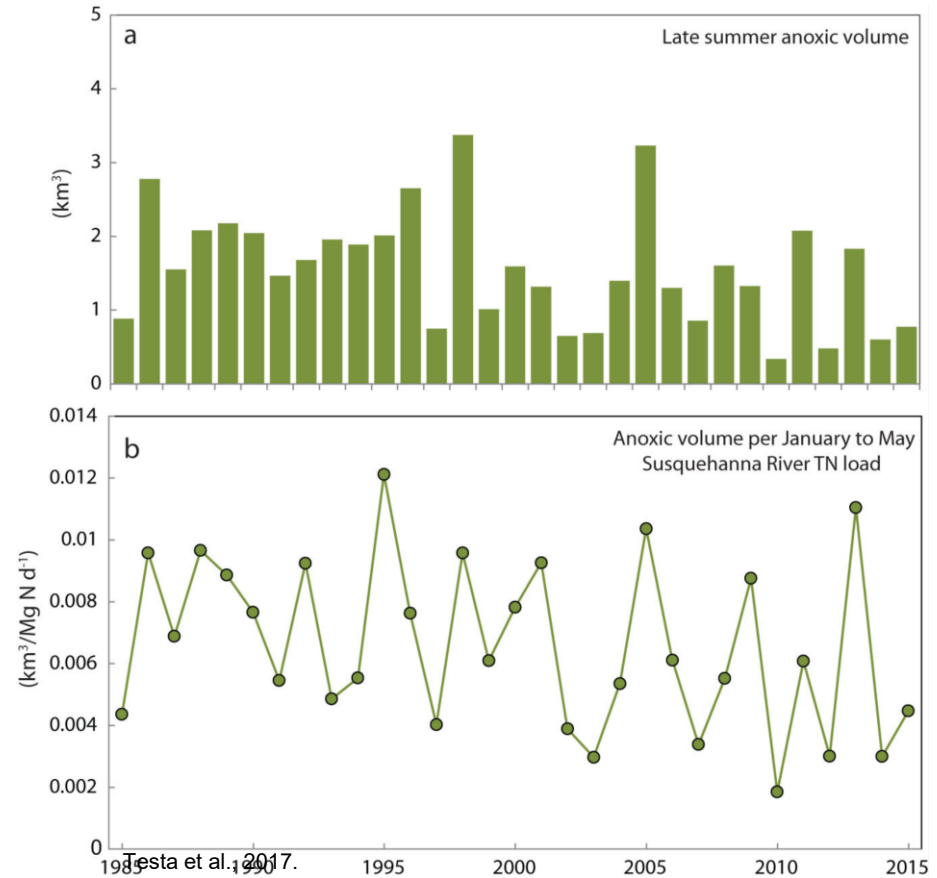
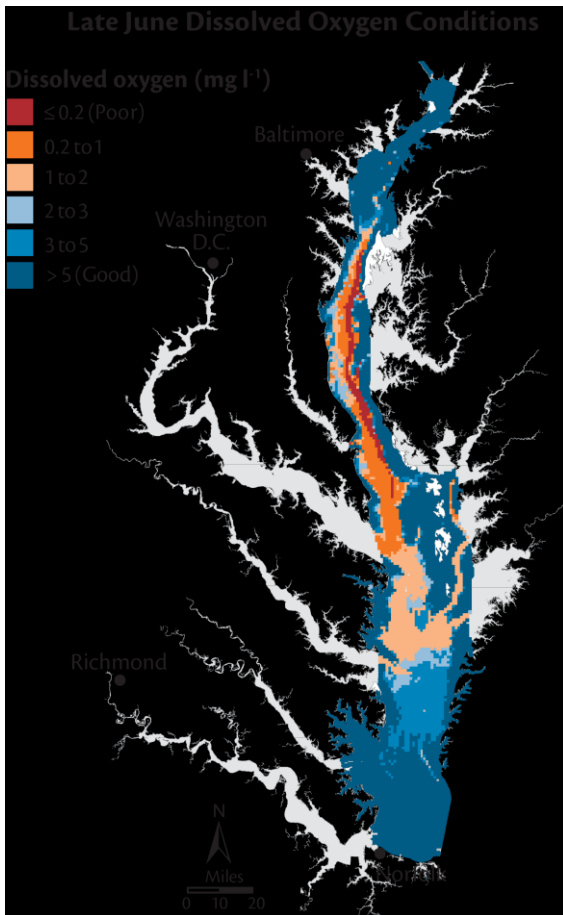
19 F (-9 from 2016)



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2018 State of the Bay Indicators

The Bay's summer dead zone is decreasing in size



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Signs of progress



DISSOLVED OXYGEN

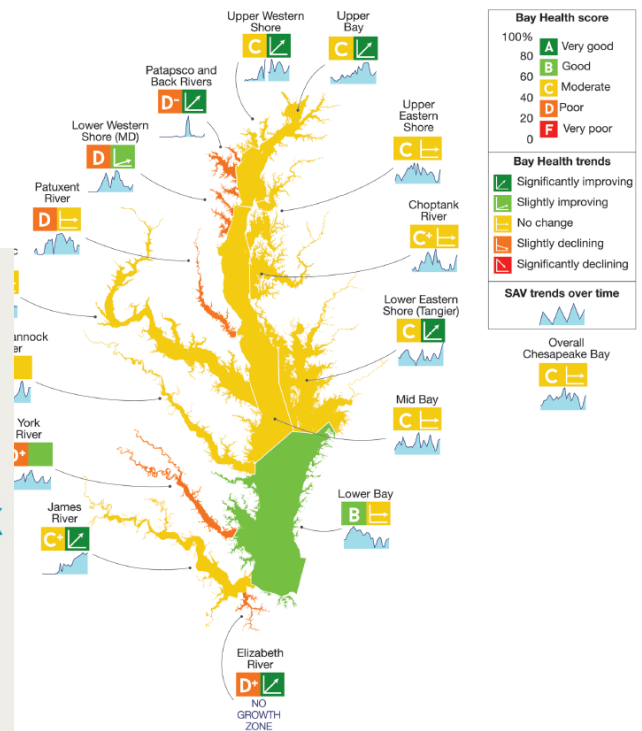
42  (+2 from 2016)



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2018 State of the Bay Indicators

2016: Record Water Clarity observed in some locations that had not been seen in decades



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Signs of progress



WATER CLARITY

16 F (-4 from 2016)



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2018 State of the Bay Indicators



TOXICS

28  (no change from 2016)



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2018 State of the Bay Indicators

HABITAT				B
	Wetlands	42	0	C
	Underwater Grasses	25	+1	D
	Resource Lands	33	+1	D+





FOREST BUFFERS

57 B (no change from 2016)



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2018 State of the Bay Indicators



The Keystone 10 Million Trees Partnership is a collaborative effort of national, regional, state, and local agencies, conservation organizations, outdoors enthusiasts, businesses, and citizens committed to improving Pennsylvania's communities, economy, and ecology.



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More New Tools – 10 Million Trees



WETLANDS

42  (no change from 2016)



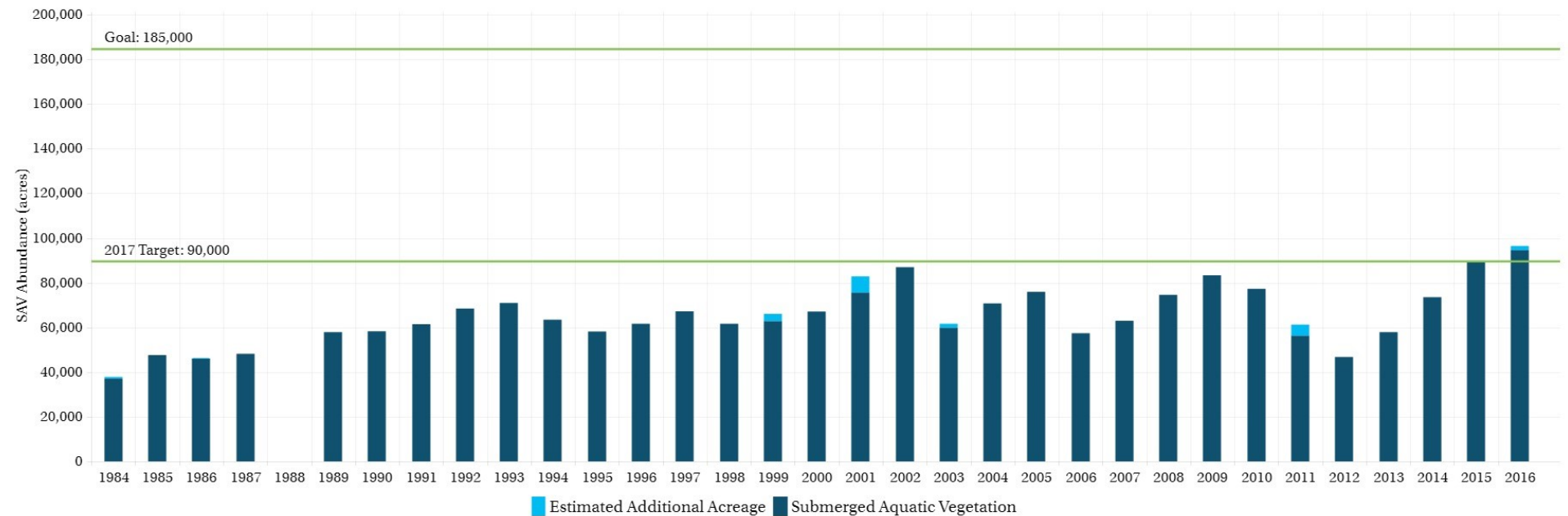
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2018 State of the Bay Indicators

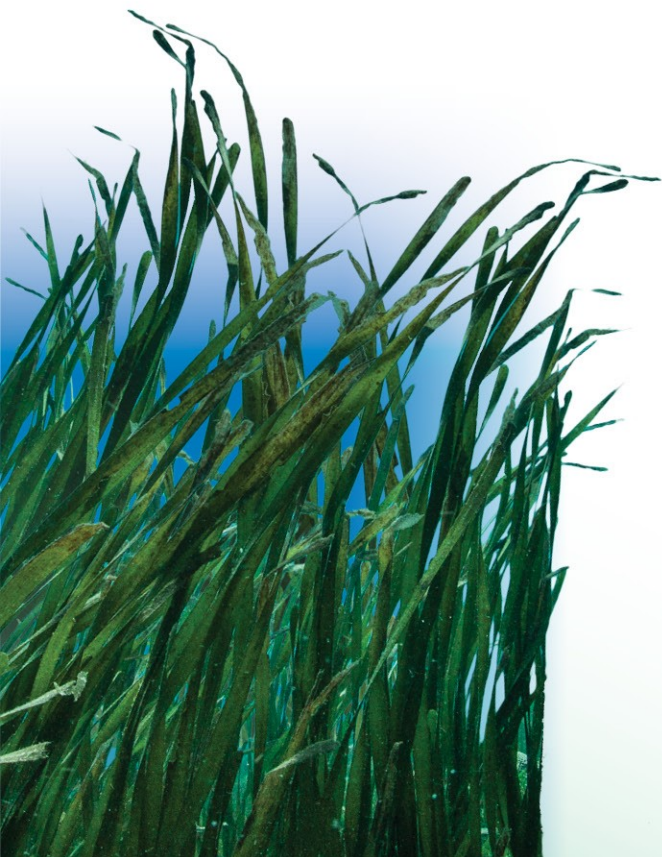


Submerged Aquatic Vegetation (SAV) is recovering across the Bay

Submerged Aquatic Vegetation (SAV) Abundance (1984-2016)



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UNDERWATER GRASSES

25  (+1 from 2016)



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2018 State of the Bay Indicators



RESOURCE LANDS

33 **D+** (+1 from 2016)



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2018 State of the Bay Indicators

STATE of the DAY

FISHERIES

Blue Crabs	55	0	B
Oysters	10	0	F
Shad	10	-1	F

A-



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Report Card: Fisheries



ROCKFISH

66 A- (no change from 2016)



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2018 State of the Bay Indicators



OYSTERS

10 F (no change from 2016)



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2018 State of the Bay Indicators



The Chesapeake Oyster Alliance is a multi-year effort designed to spark governmental action, public attention, and funding to accelerate ongoing oyster restoration efforts in the Chesapeake Bay. The ambitious goal of this collaborative effort is to add 10 billion new oysters by 2025 in Virginia and Maryland waters.



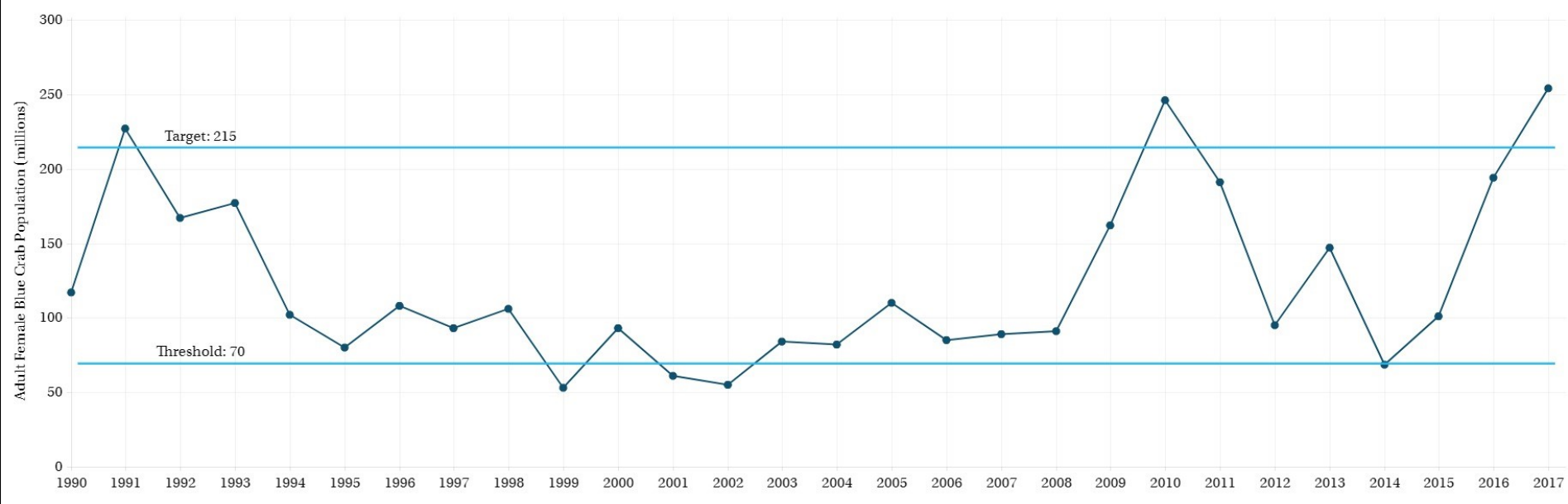
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10 Billion Oysters



Blue crab abundance is improving

Adult Female Blue Crab Population (1990-2017)



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BLUE CRABS

55 B (no change from 2016)



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2018 State of the Bay Indicators



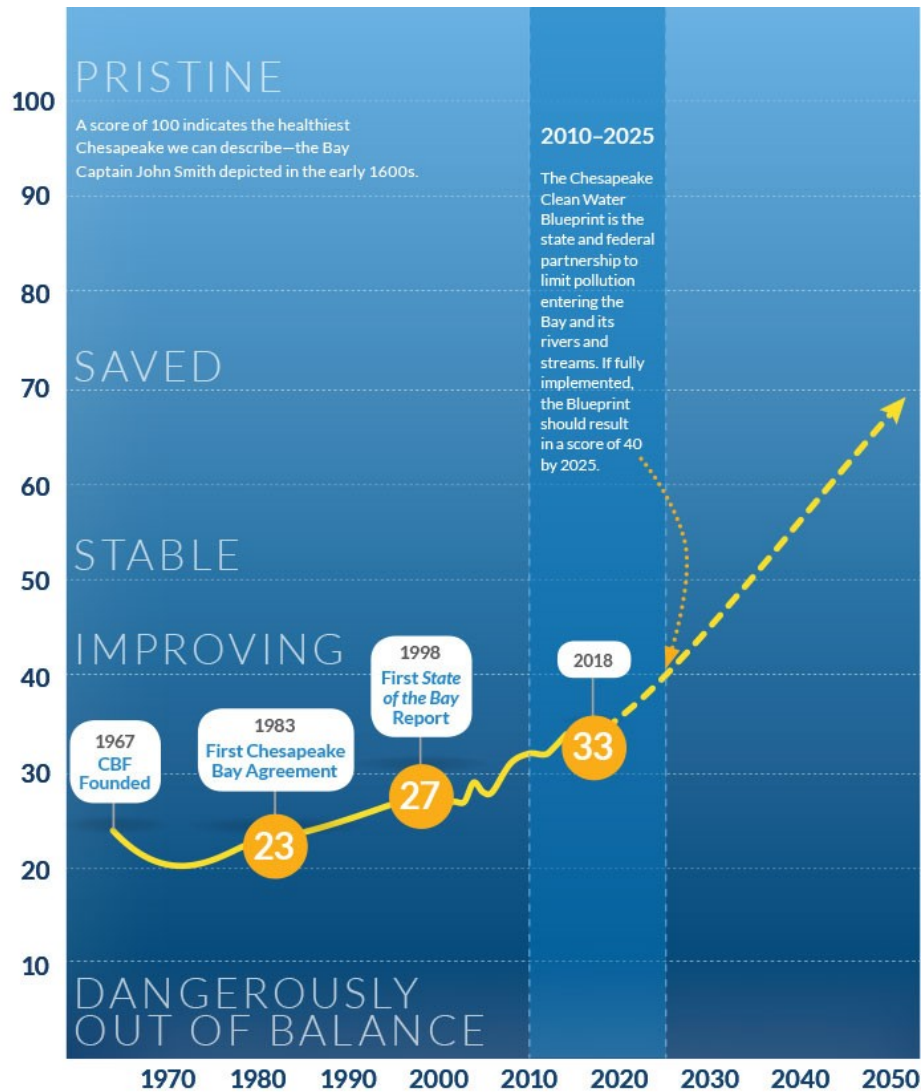
SHAD

10 F (-1 from 2016)



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2018 State of the Bay Indicators



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State of the Bay Timeline

Thank you!!!



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