

Chesapeake Bay Program

REVISED SHAD ABUNDANCE INDICATOR

Eric Brittle (VDGIF), Jim Cummins (ICPRB), Nita Sylvester (EPA)

Chesapeake Bay Program STAR Meeting September 19, 2013





SHAD INDICATOR BACKGROUND

- CBP indicator; developed to track C2K commitment
- Fisheries GIT refocuses priorities
- Recommendation from GIT/STAR to eliminate
- MB requests revision (rather than elimination)
- GIT/STAR convene American Shad Indicator Action Team to revise indicator

- ICPRB
- PRFC
- VA DGIF
- VIMS

- VMRC
- MD DNR
- PA FBC
- ASMFC

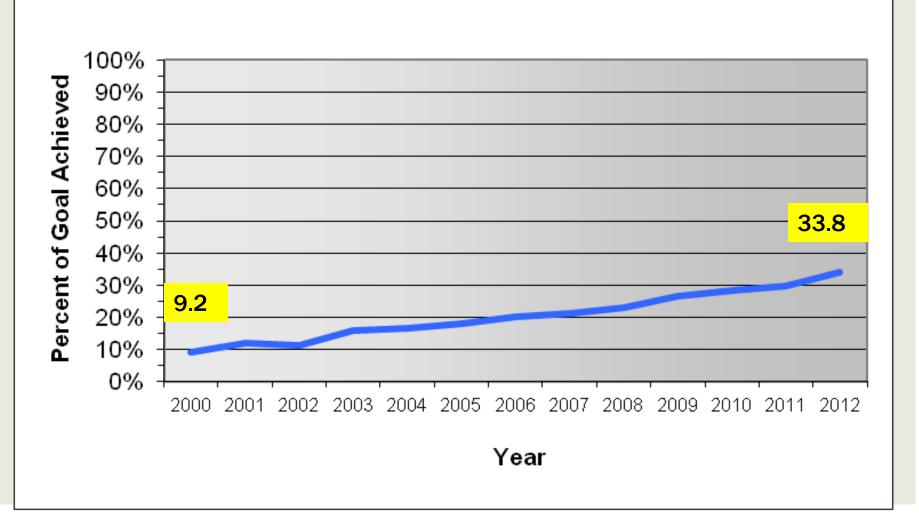
- NOAA
- USFWS
- USGS
- EPA

- CRC
- UMCES



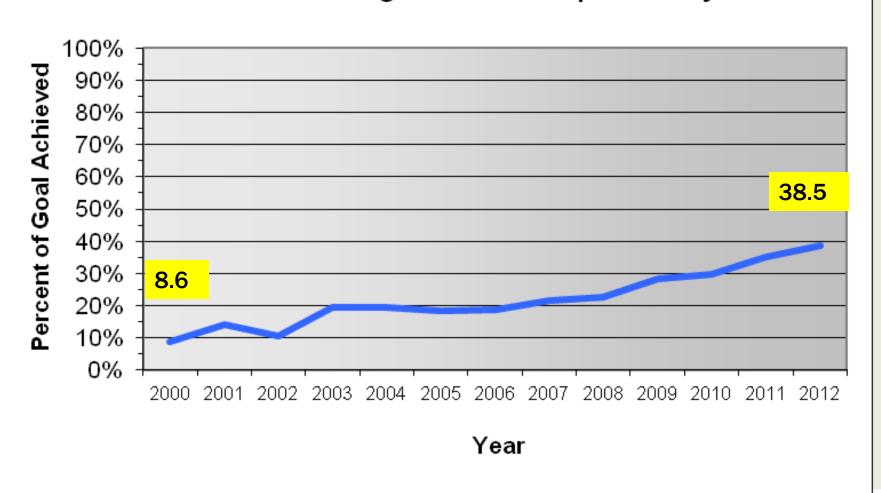
OLD

Shad Returning to the Chesapeake Bay



NEW

Shad Returning to the Chesapeake Bay





- Added Rappahannock River data
- Added Lower James River data
- Revised York River data
- Revised weight of each river to calculate baywide shad abundance index

Shad Indicator Tributary	Weight in Baywide Index
Susquehanna	45%
Potomac	26%
James*	19%
York	5%
Rappahannock	5%

* The James River Index value is based on a weighted combination of lower James (55%) and Bosher's Dam data (45%)



WHAT IS INCLUDED IN THE INDICATOR?

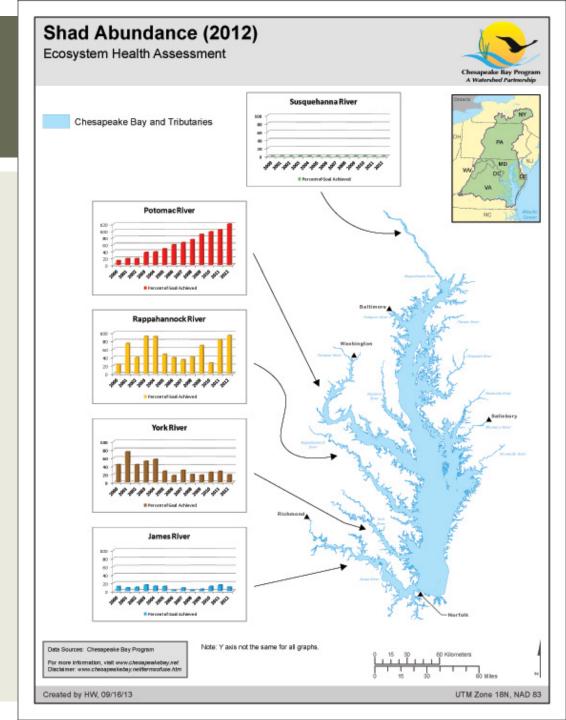
- 2000-2012 data
- shows percent of goal achieved for each tributary and a baywide index

Tributary	Data	Goal Basis
Susquehanna	Fish passage count	2,000,000 shad passing York Haven Dam annually
Potomac	CPUE from PRFC pound net data	1950s CPUE
Lower James	CPUE from VIMS gill-net survey	Estimated 1950s CPUE*
Bosher's Dam	Fish passage count	500,000 shad passing Bosher's Dam annually
York	CPUE from VIMS gill-net survey	Estimated 1950s CPUE*
Rappahannock	CPUE from VIMS gill-net survey	Estimated 1950s CPUE*

*calculated using the ratio of York 1980s CPUE : 1950s CPUE (This assumes the same trend in the other VA tribs as in the York)

WHAT ELSE CHANGED?

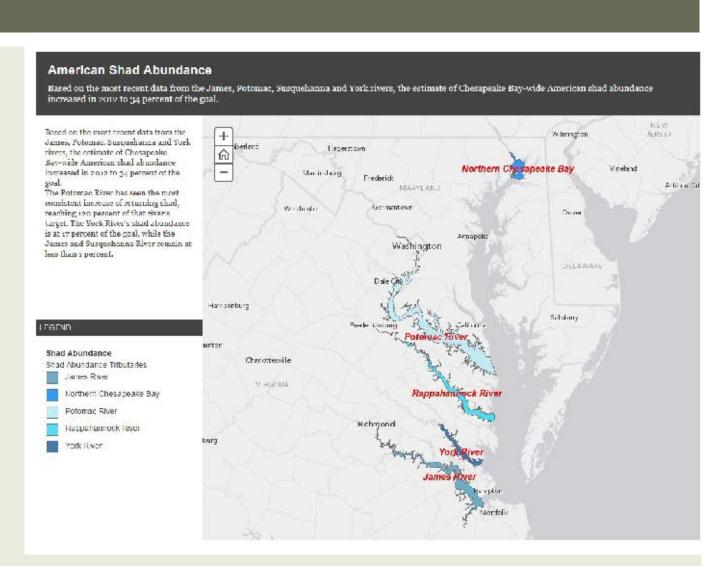
Static map on indicator webpage now features status/trend charts for each component river.





WHAT WAS ADDED?

Dynamic map with links to additional data





DO YOU AGREE?

- The ASIAT is recommending the revisions for the following reasons:
 - Incorporates more robust abundance data/targets
 - Incorporates/features more data
 - Abundance data from additional rivers (Rapp, MD)
 - Stocking efforts and habitat data
 - Features abundance charts for each river
 - "I am so glad we made these changes!" Mike Odom, USFWS
- Do you agree with the recommendations for revisions to the shad indicator information featured at ChesapeakeBay.net?

Chesapeake Bay Program

A Watershed Partnership

QUESTIONS?

