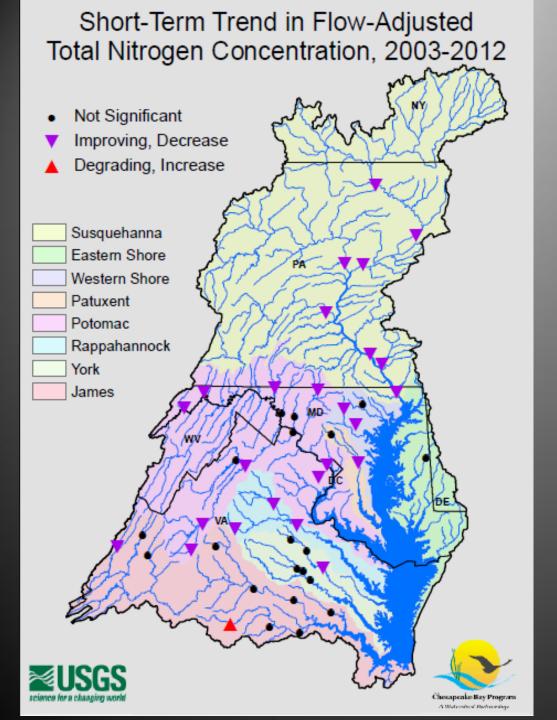


CBC May Meeting Washington D.C. May 8, 2014

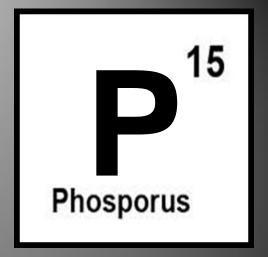
Staff Presentation & Member Discussion



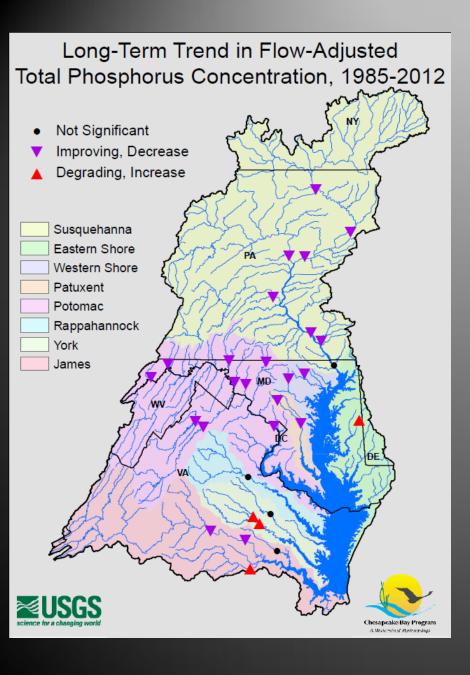


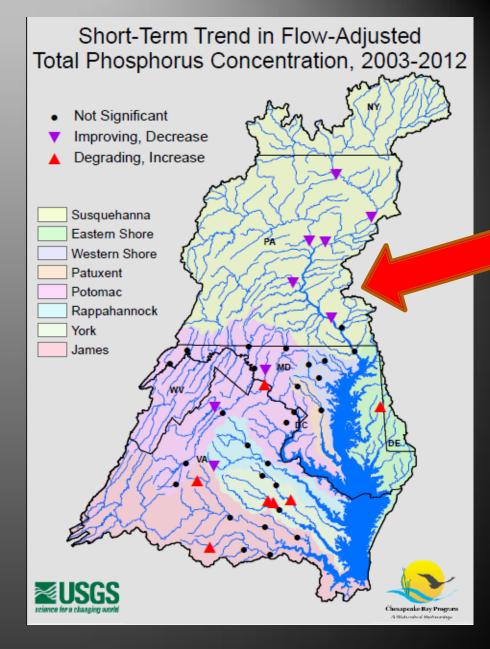
2003-2012

Short-Term Trend in Flow-Adjusted Total Phosphorus Concentration, 2003-2012 Not Significant Improving, Decrease Degrading, Increase Susquehanna Eastern Shore Western Shore Patuxent Potomac Rappahannock York James Chesapenko Bay Program

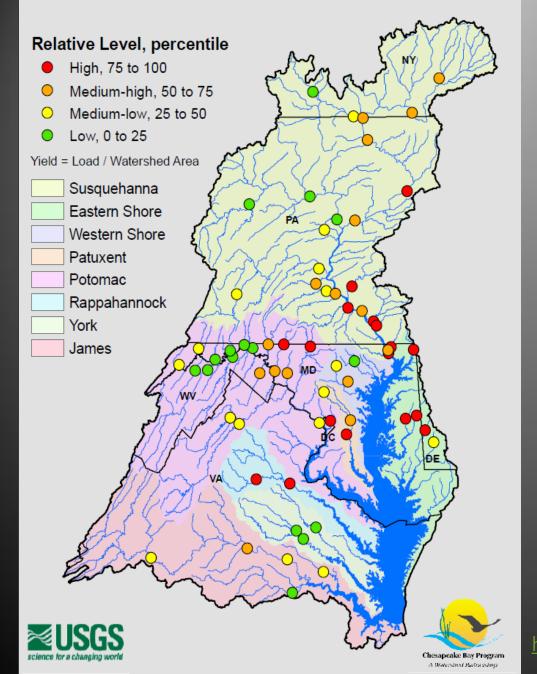


2003-2012





Total Phosphorus Yield, Mean 2008-2012



High Yield Sites are found in concentrated agricultural and urban areas.

Watersheds with High Yield Sites:

- Eastern Shore
- Susquehanna
- Potomac
- Rappahannock

http://cbrim.er.usgs.gov/maps.html

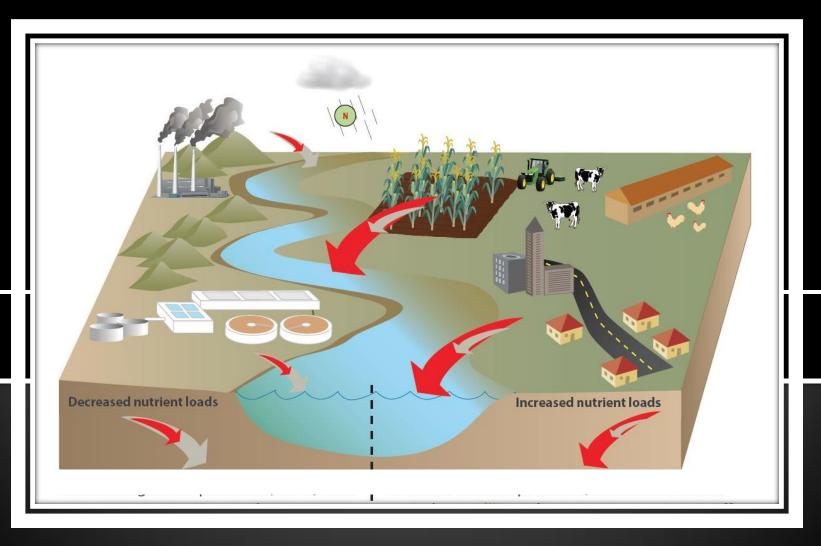
Decreased loads Vs. Increased loads

Air emissions

Waste treatment

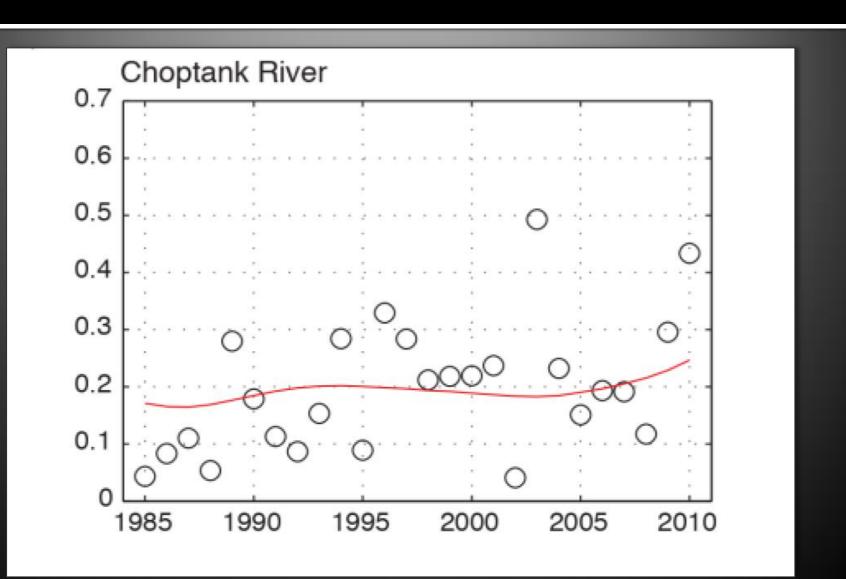
X Agriculture

X Stormwater

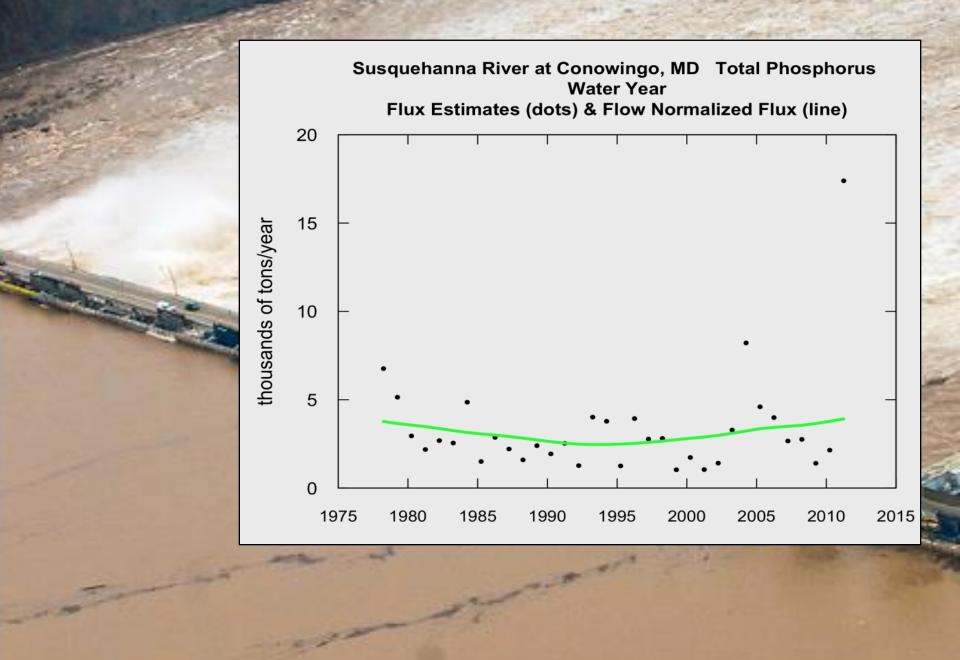


Soils are PSaturated

Yield in pounds per day per square mile







Causes of Stalled Progress

- MORE soils are P-saturated & manure production is <u>INCREASING</u> in agricultural areas
- INCREASE in runoff from urban /suburban
- INCREASE in stream erosion/sediment
- INCREASE in release of sediment from Conowingo Dam

Policy Focus - Agriculture

Maryland, Pennsylvania and Virginia must increase Ag BMP's to meet 2017 & 2025 TMDL phosphorus reduction targets and practices must address elevated Phosphorus in soils.

STRATEGIES TO MEET TMDL

- Nutrient Management
- Phosphorus Management Tool
- Manure Transport
- Stream Exclusion
- Manure to Energy
- Alternative uses of manure & biosolids
- New BMP's to treat legacy phosphorus

Policy Focus - Stormwater

Stormwater is the only growing source of pollution in the Bay watershed.

STRATEGIES TO MEET TMDL

- MS4 permits requiring retrofit of impervious acres
- Headwater Stream Channel Erosion Control
- Stream Restoration
- New BMP's- focus on Runoff Reduction/infiltration
- Turf Fertilizer Legislation
- Retrofit of non-regulated urban acres

