


**CHESAPEAKE  
PROGRESS**





**Chesapeake Bay Program**  
*Science. Restoration. Partnership.*

## Planning Targets

Placeholder for Subtitle or Presenter Identification

## Bay TMDL Allocations


- The 2010 Bay TMDL required specific reductions to nitrogen, phosphorus and sediment to meet water quality standards.
- Each watershed jurisdiction was assigned specific targets to meet to collectively achieve the Bay TMDL.

2

## WIP Planning Targets

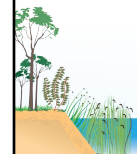
- Planning targets differ for each watershed jurisdiction.
- Jurisdictions received planning targets that reflect refinements to the model with the most up-to-date science and monitoring data available.
- Although different from the 2010 Bay TMDL limits, these planning targets establish new goals for the jurisdictions to achieve in order to meet water quality standards.



3

## WIP Planning Targets (continued)

- Jurisdictions develop individual Watershed Implementation Plans (WIPs), which outline specific steps they will take to meet their planning targets (pollution reduction goals).
- Development of a third (Phase III) WIP since the Bay TMDL launched in 2010 is underway by all jurisdictions



4



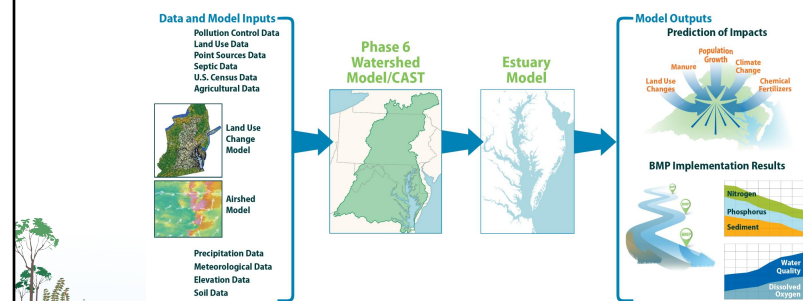
## Three Partnership Principals

1. Pollution loads must result in achievement of the jurisdictions' Bay water quality standards.
2. Major river basins that contribute the most to Bay water quality problems must do the most to resolve those problems: "More Impact, Do More!"
3. All tracked and reported reductions in loads are credited toward achieving assigned loads.

5



## Chesapeake Bay Suite of Modeling Tools



6



## Improved Chesapeake Bay Suite of Modeling Tools

- High-resolution land cover data available for entire watershed.
- Hundreds more conservation practices available for crediting.
- Significant amounts of data gathered from local, agricultural and municipality partners.
- Independent scientific peer reviews completed.
- More monitoring data incorporated.
- Calibrated much better than in the past.
- Extensive testing of the models conducted throughout the watershed.

7



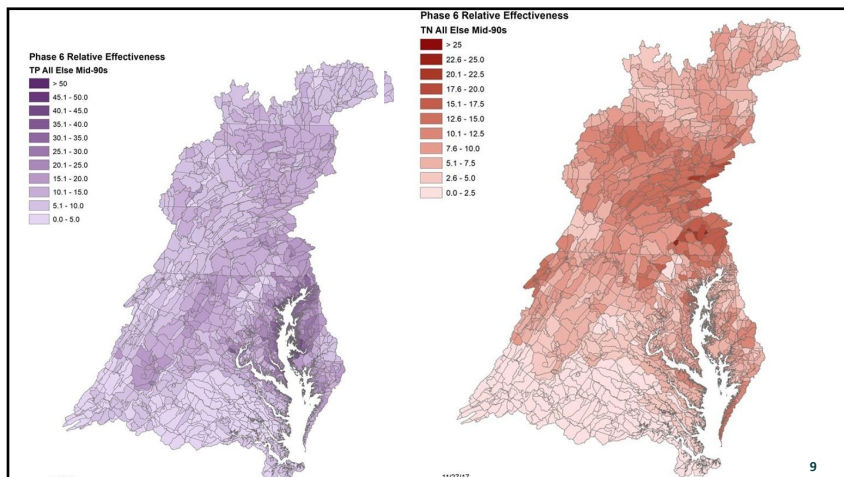
## Targets Focus on the Most Effective Areas

- Planning targets are set by a state-basin scale (each state's portion of a particular basin)
- The pollutant-reducing ability of conservation practices varies by watershed, so implementing the same controls in different watersheds has different levels of effectiveness.
  - Example: One pound of nitrogen in the James River may not be the same as one pound of nitrogen in the Potomac River
- Planning targets are set depending upon the watershed's overall level of impact

### State-Basins

DC Potomac  
 DE Eastern Shore  
 MD Eastern Shore  
 MD Patuxent  
 MD Potomac  
 MD Susquehanna  
 MD Western Shore  
 NY Susquehanna  
 PA Eastern Shore  
 PA Potomac  
 PA Susquehanna  
 PA Western Shore  
 VA Eastern Shore  
 VA James  
 VA Potomac  
 VA Rappahannock  
 VA York  
 WV James  
 WV Potomac

8



## Planning Targets Account for Nitrogen and Phosphorus, not Sediment

- Formation of low dissolved oxygen areas (i.e., dead zones) are more dependent on nitrogen and phosphorus than sediment
- Conservation practices implemented to reduce pollution from agricultural sources will help decrease sediment flowing into the Bay
  - Actions taken to reduce nitrogen and phosphorus will inform how sediment is reduced

10

## Nutrient Exchanges within State Basins

- Jurisdictions can trade within their state-basins to help improve water quality, meet planning targets and improve effectiveness.
  - Nitrogen loads for phosphorus loads.
  - Nitrogen loads for nitrogen loads.
  - Phosphorus loads for phosphorus loads.
- Exchange ratios are set based on extensive modeling and vary from basin-to-basin and jurisdiction to jurisdiction.
- Pollution load exchanges can only occur within the same state.

State-Basins
DC Potomac
DE Eastern Shore
MD Eastern Shore
MD Patuxent
MD Potomac
MD Susquehanna
MD Western Shore
NY Susquehanna
PA Eastern Shore
PA Potomac
PA Susquehanna
PA Western Shore
VA Eastern Shore
VA James
VA Potomac
VA Rappahannock
VA York
WV James
WV Potomac

11

## Assistance in Meeting Pollutant Loads by 2025

- CBP will provide as many resources as possible to help the jurisdictions meet their WIP planning targets.
- Potential federal actions may occur if jurisdictions do not meet their targeted pollution reductions.
  - Any federal actions will be guided by common sense, the best available information, and a shared goal to restore the Chesapeake Bay

12