# Establishing Scenario Years for Planning Targets and Phase III WIPs <br> Presentation for Water Quality GIT <br> September 25, 2017 

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Planning Target Calculation - Nitrogen - 9/2017


## Hypothetical Example with Planning Targets Calculated at 2010

## Basins with Equal Effort and Targets



Basin A

## Basin B

Target

## Hypothetical Example with Planning Targets Calculated at 2017

## Basin A grows, base targets on future year



Basin A

## Basin B

Target

## Hypothetical Example with Planning Targets Calculated at 2010

## Basins with Equal Effort and Targets



Basin A

## Basin B

Target

## Hypothetical Example with Planning Targets Calculated at 2010

## Basins A grows, Base targets on 2010



## Basin A

Basin B
NoAction E3 Target

# Considerations for Selecting Planning Target Year 

| Criterion | 2010 | 2012 | 2017 | 2025 |
| :---: | :---: | :---: | :---: | :---: |
| Level of Confidence in Data (LU, Animals, Septics, etc.) |  | Most Confidence |  |  |
| Consistency with 2010 decisions | Same Year | Not Consistent | Year of Decision | Not Consistent |
| Responsibility for additional load from a state-basin that grows (in load due to LU, Animals, Septics, etc.) | State basin that is growing |  |  | All statebasins |
| Possibility of planning target beyond 2025 E3 for growing basins |  |  |  |  |

## Planning Target Calculation

- Assumed the assimilative capacity was the WIP2 with the mid-1990s Conowingo
- Calculated Planning Targets based on the Conowingo in current state

Planning Target Calculation - Nitrogen - 9/2017


Planning Target Calculation - Nitrogen - 9/2017



Planning Target Calculation - Phosphorus- 9/2017


## Comparison of N Cap Loads to using 2010



Million pounds of $\mathbf{N}$

## Comparison of P Cap Loads to using 2010



Million pounds of $P$

## N:P exchanges

- Recall that states could choose to reduce N more and $P$ less or vice versa
- The ratios are based on the geographic isolation runs.
- This allows us to calculate state totals in units of N


## Comparison of N\&P Cap Loads to using 2010



Million pounds of $\mathbf{N}$

## Comparison of N\&P Cap Loads to using 2010



Percent change

## Observations

- Maybe not such a big deal for everyone
- Differences are on the order of $1 / 2$ million lbs
- Some smaller states have big relative numbers


## Decision

- What scenario year should be used to establish Phase III WIP planning targets?
- 2010? 2012? 2017? 2025?


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