

# WQGIT Recommendations on Climate Allocations

May 26, 2020

Water Quality Goal Implementation Team Conference Call

# WQGIT Decisions to Date

## Climate allocation options

These don't matter!

- Open Water
  - ~~• Ignore Open Water~~
  - Lump OW in with other segments
  - Separate allocations and then reconcile
- WWTP responsibility
  - Only non-WWTP sources
  - Include WWTP
- Variances
  - ~~• Assume variances can change~~
  - ~~• Keep variances the same~~
  - Meet variances and load balance
- Relative impact Conowingo
  - ~~• 1995 level as used in TMDL/2017~~
  - Current status
- Relative impact segments
  - ~~• Always use TMDL/2017 segments~~
  - Use the group of segments being protected
- Watershed loads first
  - Take out jurisdiction loads first
  - Do not consider jurisdiction loads

# Requested WQGIT Climate Allocation Recommendations to the Management Board

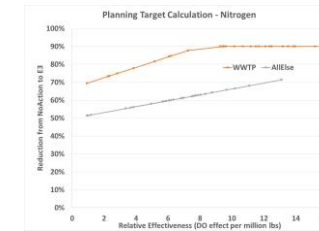
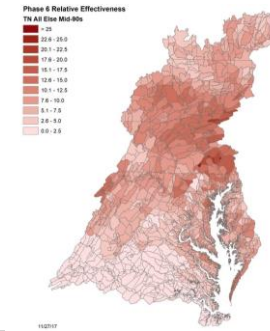
1. WWTP responsibility
  - Only non-WWTP sources
  - Include WWTP
2. Watershed loads first
  - Take out jurisdiction loads first
  - Do not consider jurisdiction loads
3. Year
  - 2025
  - 2035
4. Open Water (*Confirm April Recommendation*)
  - How to deal with open water violations in the lower Bay

# 1. WWTP responsibility

- Increased effort can be allocated based on increased effort for *non-WWTP loads* or based on *all loads*
- Loads are specified by state-basin, not by source. Adding WWTP responsibility does not mean that jurisdictions must get reductions from WWTP, just jurisdictions with high WWTP loads will have to do more
- MD, VA, DC do more with *All Loads* / DE, NY, PA, WV do less with *All Loads*
- Total reduction needed is higher because WWTP loads are in less-effective areas

## 2. Watershed Loads First

- Ran WQSTM run to show reduced non-attainment for jurisdiction reductions equal to the climate load increase
- Allocated remaining effect



	Climate Increase	Allocated Additional Reduction	Total Reduction
DC	0.00	0.00	0.00
DE	0.00	0.01	0.01
MD	0.11	0.09	0.20
NY	0.04	0.01	0.06
PA	0.09	0.12	0.21
VA	0.34	0.16	0.49
WV	0.01	0.01	0.02
Total	0.60	0.40	1.00

### 3. Year

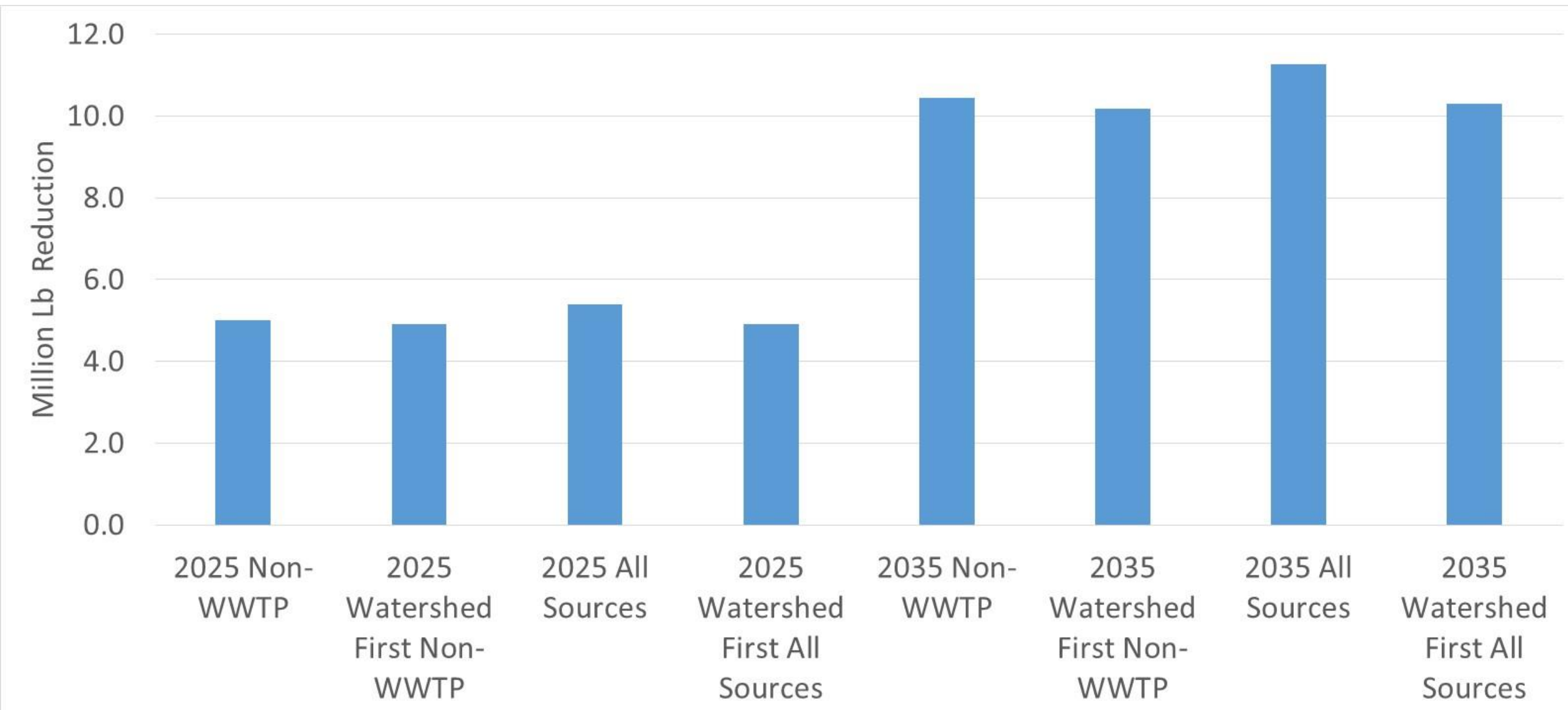
- What change to account for:
    - 1995-2025
    - 1995-2035
  - When the reductions would need to be accomplished:
    - 2025
    - 2035
    - Some other date
- WQGIT previously discussed using the same year to account for the climate change and when the reductions would need to be accomplished

## 4. Open Water Decision

- Open water is an important use for living resources
- Open water may be more affected by temperature due to concentrations closer to saturation
- The Modeling Workgroup did not advocate for the WQGIT to drive allocations with CB6 and CB7 open water
  - Relatively insensitive to load reductions
  - No other Mainstem Open Water violations through 2055
    - Other large rivers mostly have no violations through 2055
  - Strong dependence on the appropriate delineation between 'Open Water over Deep Water' and 'Open Water to the bottom'
- **The WQGIT decided to not include Open Water in the climate allocations pending CBF consideration**

# Nitrogen Total Reductions

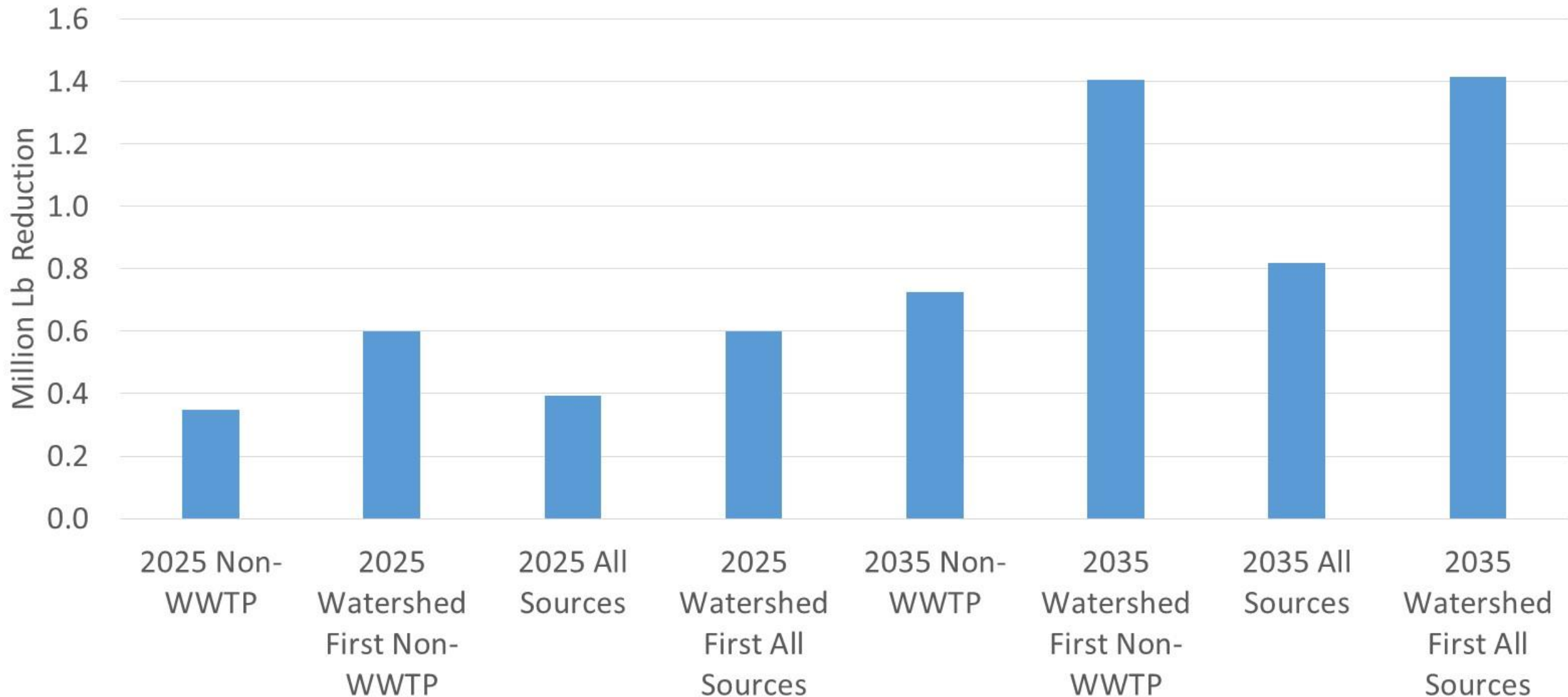
- 2035 increases effort substantially
- Including WWTP increases necessary reductions
- Watershed loads first are a little lower for N





# Phosphorus Total Reductions

- 2035 increases effort substantially
- Including WWTP increases necessary reductions
- Watershed loads first is a larger reduction for P



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## 1. **WWTP responsibility**

- Only non-WWTP sources  
*OR*
- Include WWTP

## 2. **Watershed loads first**

- Take out jurisdiction loads first  
*OR*
- Do not consider jurisdiction loads

## 3. **Year**

- 2025  
*OR*
- 2035

## 4. **Open Water (*Confirm April Recommendation*)**

- Do not include Open Water