

# Comparing Options for E3 and No Action Scenario Base Year in Planning Targets

8/19/2026

| Criteria                                                                        | 2010            | 2022            | 2022a               | 2022b               |
|---------------------------------------------------------------------------------|-----------------|-----------------|---------------------|---------------------|
| Data Confidence                                                                 | Lower           | Higher          | Higher*             | Higher              |
| Growth after 2010 is the responsibility of the jurisdiction where it took place | Yes             | No              | Yes                 | Partially           |
| Level of Risk for E3 Not Meeting WQ Standards                                   | Higher          | Lower           | Higher              | Moderate            |
| Simplification of communication to partners                                     | Straightforward | Straightforward | Potential Confusion | Potential Confusion |

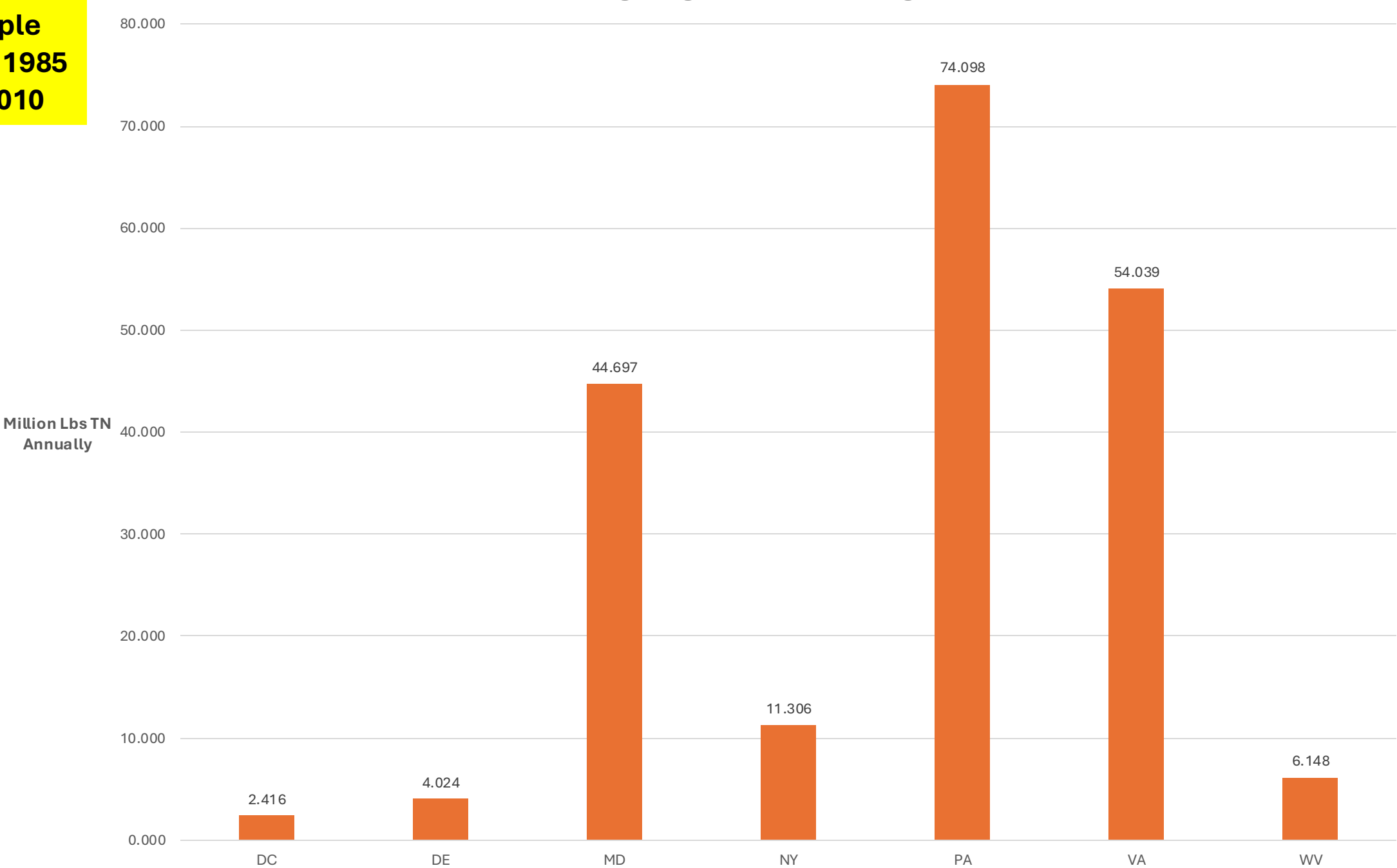
\* = Benefit of higher quality data is negated by artificially adjusting back to 2010 levels

# 2022 E3 isn't ready yet

- Instead: Compare 1985 and 2010 as base year options using the phase 6 suite of models

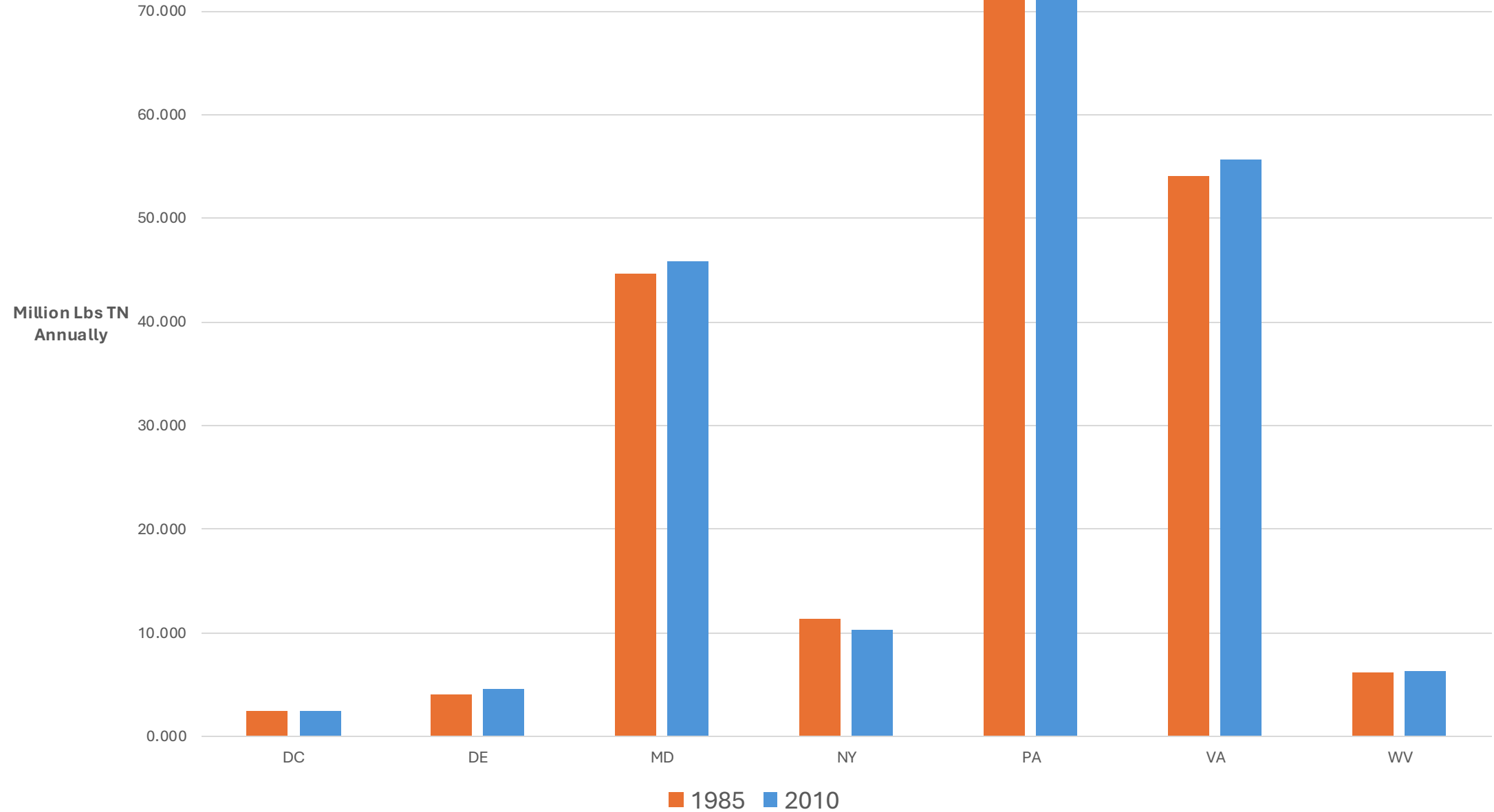
**Example  
using 1985  
and 2010**

**1985 Planning Targets for TN Using P6**

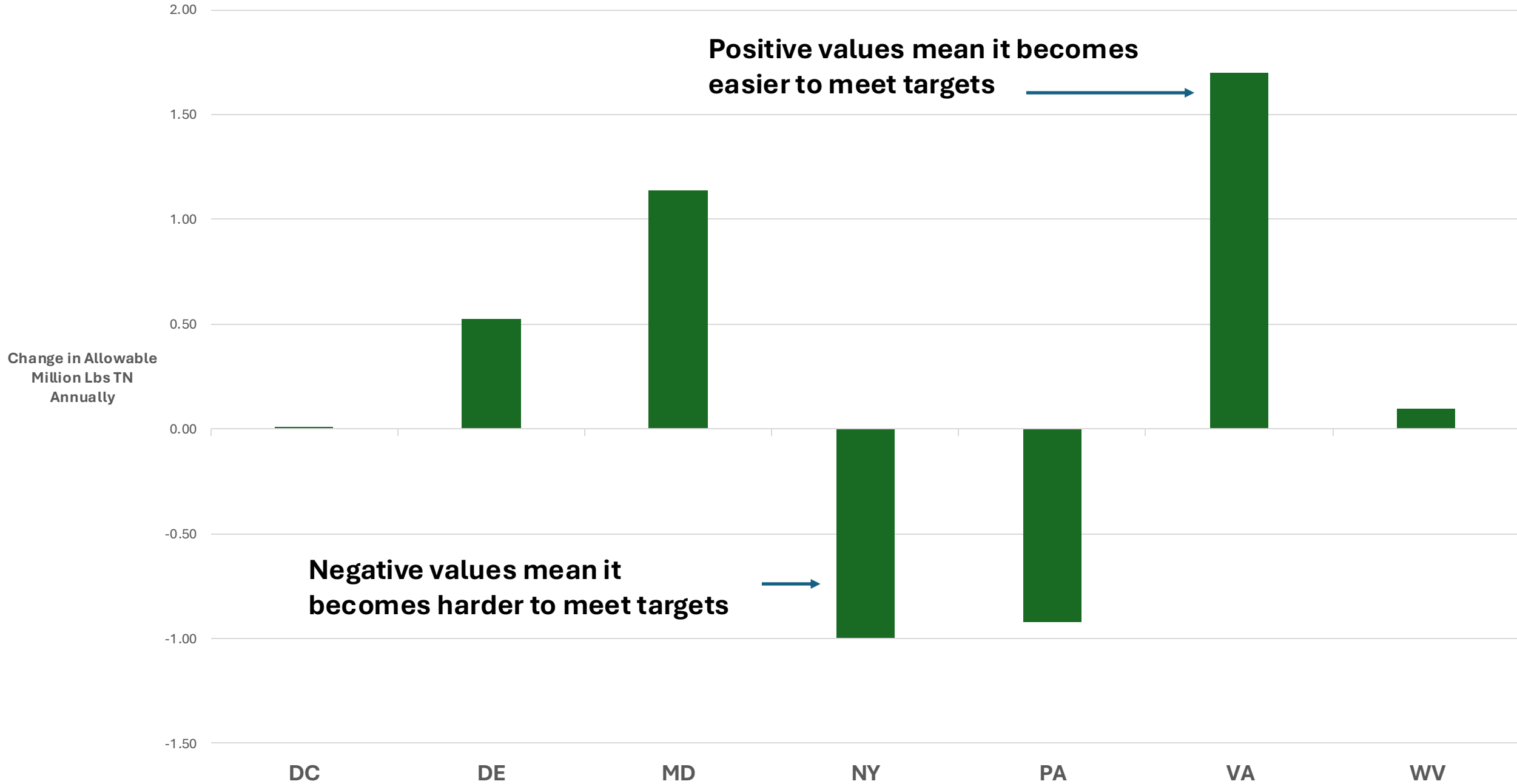


**Example  
using 1985  
and 2010**

## 1985 vs 2010 Planning Targets for TN Using P6



**Result of Switch from 1985 to 2010 for Scenario Base Year  
On Allowable TN Loads for Planning Targets**



# How would a move from 1985 to 2010 Influence Jurisdictions' TN Planning Targets?

- Becomes easier to meet TN planning targets

- VA – can pollute an extra 1.7M lbs TN
- MD – can pollute an extra 1.14M lbs TN
- DE – can pollute an extra 0.53M lbs TN
- WV – can pollute an extra 0.1M lbs TN
- DC – can pollute an extra 0.01M lbs TN



The net effect of moving from 1985 to 2010 is that the overall level effort across the board goes down slightly. Meaning, the intercept for the “All Else” line goes down by 0.001.

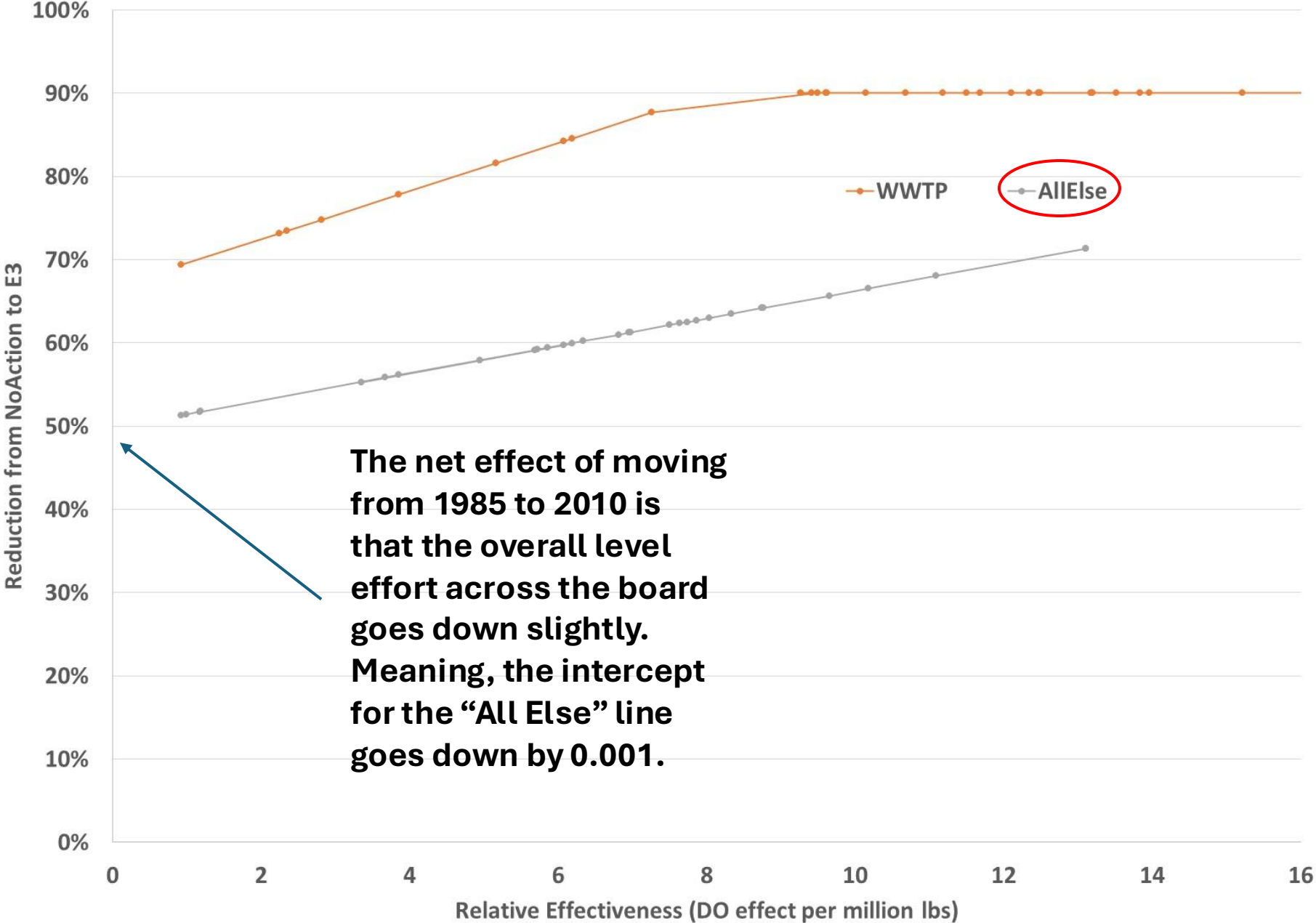
- Becomes harder to meet TN planning targets

- NY – has to reduce an extra 1.0M lbs TN
- PA – has to reduce an extra 0.92M lbs TN



However, you can see that a decrease in level of effort doesn't yield the same result for each jurisdiction, since the distance between E3 and NA changes for each basin.

Planning Target Calculation - Nitrogen



# Let's Break This Down With A Simple Example

- NY is only comprised of the Susquehanna Above Fall Line, so useful to explain the concept

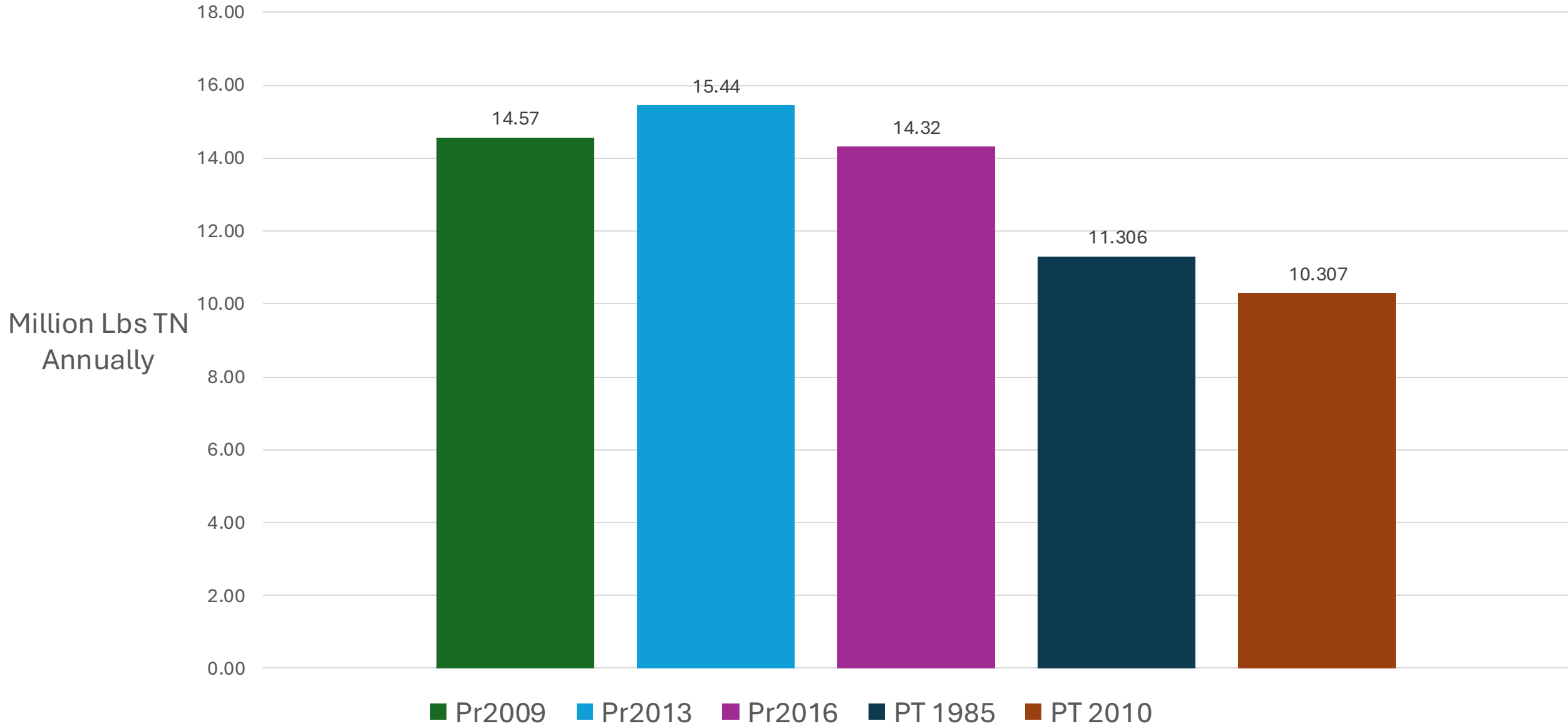
| Scenario Base Year | No Action All Else<br>(M lbs TN) | E3 All Else<br>(M lbs TN) | Planning Target<br>(M lbs TN) | Level of Effort<br>(% difference<br>between E3 & NA) |
|--------------------|----------------------------------|---------------------------|-------------------------------|------------------------------------------------------|
| 1985               | 15.41 M lbs TN                   | 6.72 M lbs TN             | 10.23 M lbs TN                | 59.6%                                                |
| 2010               | 13.24 M lbs TN                   | 6.5 M lbs TN              | 9.23 M lbs TN                 | 59.4%                                                |

- Since No Action shrank more than E3 did (2.17 M lbs vs 0.22 M lbs), the reduction in level of effort is counteracted, and then some
- Potential reasons: land coming out of production and going through natural succession, decrease in population on septic from out-migration

**NY was at  
14.57 M Lbs TN  
at 2009  
Progress**



# Susquehanna NY AFL



# An Opposite Example

- VA Potomac Above Fall Line can show us the opposite: larger gap between No Action and E3

| Scenario Base Year | No Action All Else<br>(M lbs TN) | E3 All Else<br>(M lbs TN) | Planning Target<br>(M lbs TN) | Level of Effort<br>(% difference<br>between E3 & NA) |
|--------------------|----------------------------------|---------------------------|-------------------------------|------------------------------------------------------|
| 1985               | 11.97 M lbs TN                   | 5.00 M lbs TN             | 7.84 M lbs TN                 | 59.3%                                                |
| 2010               | 12.46 M lbs TN                   | 5.01 M lbs TN             | 8.05 M lbs TN                 | 59.1%                                                |

- Growth in load from No Action with a steady E3 & a slight decrease in level of effort mean Potomac AFL VA can pollute more in this case
- Potential reasons: agricultural intensification, population growth and development

# Potomac VA AFL

