

Point Source Annual Progress Evaluation: Evaluating the Evaluation Method

A Presentation
by the State of Maryland
to the Waste Water Workgroup of
the Chesapeake Bay Program

April 2, 2013



University of Maryland
CENTER FOR ENVIRONMENTAL SCIENCE



Background and Issue of Concern

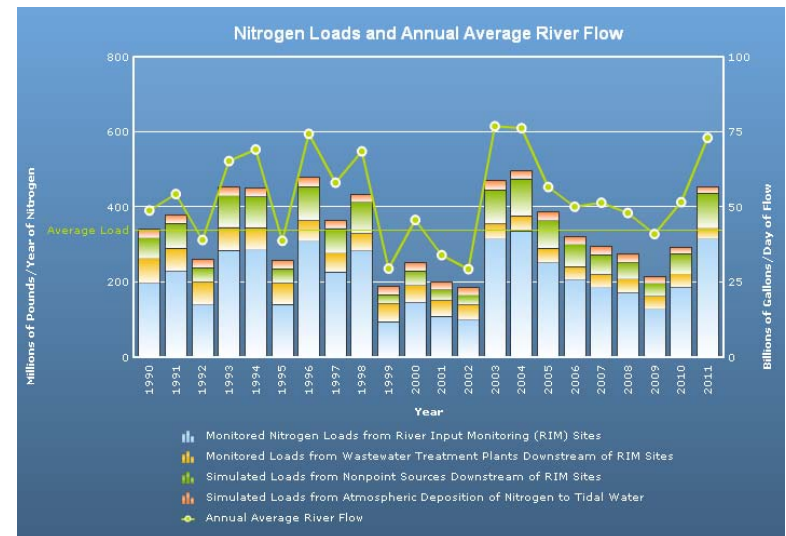
Annual Progress:

- Evaluation of Management Actions.
- NPS is controlled for variable precipitation.
- PS not controlled for variable precipitation.
- **Issue of Concern:** Precipitation obscures evaluation of management actions.



Annual Loads:

- CBP Reports Estimated Annual Loads:



Source:

http://www.chesapeakebay.net/indicators/indicator/nitrogen_loads_and_river_flow_to_the_bay1

Maryland's Motivations

1. Desire to evaluate the effect of management actions on loads.
2. Maryland's point source nitrogen loads are about 26% of the total load; therefore, variation in precipitation obscures our ability to evaluate the impact of management actions.
3. Desire to separately evaluate the effect of growth on loads.

Illustration of the Concern

All Sectors - TN

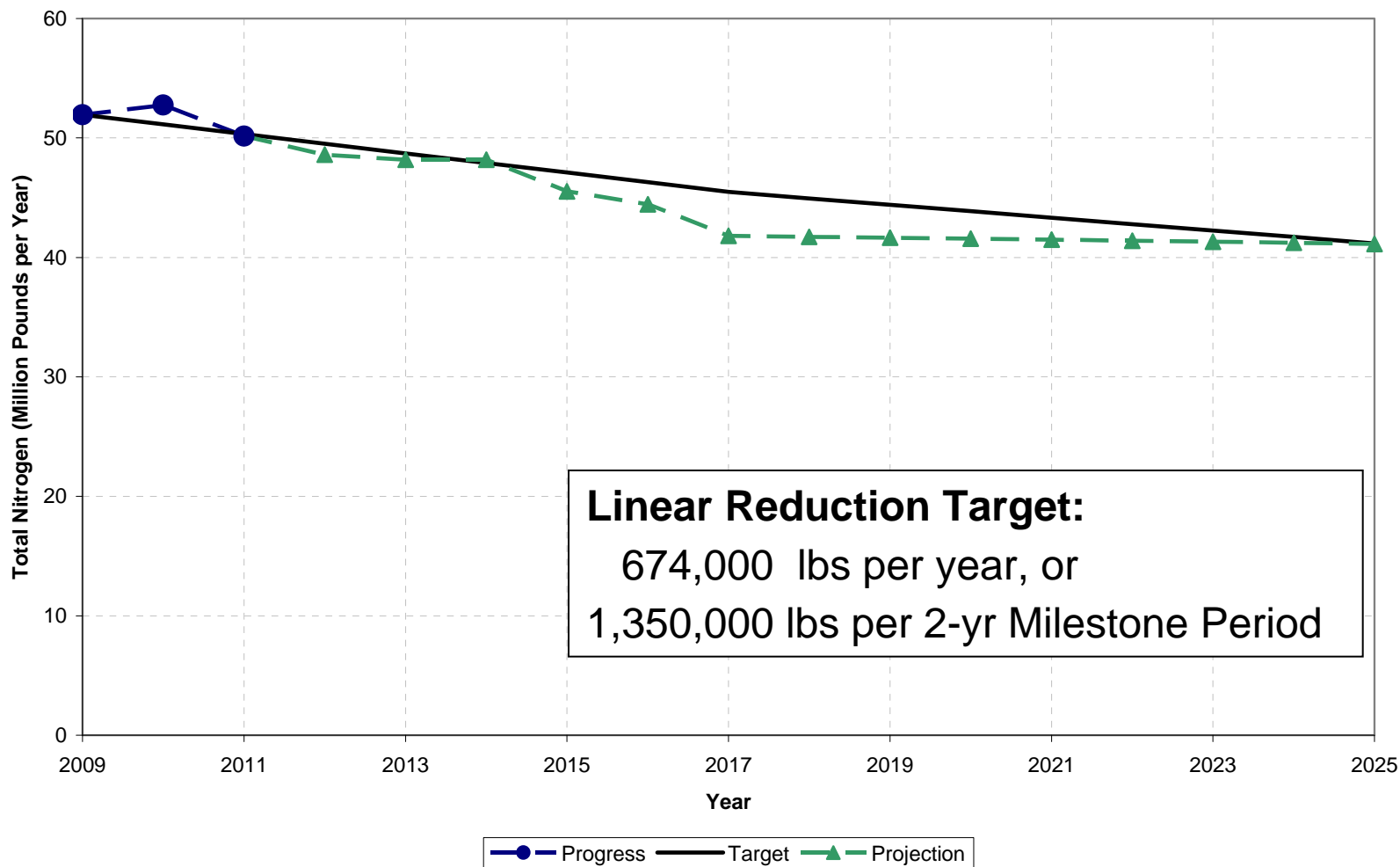


Illustration of the Concern

Wastewater - TN

Please
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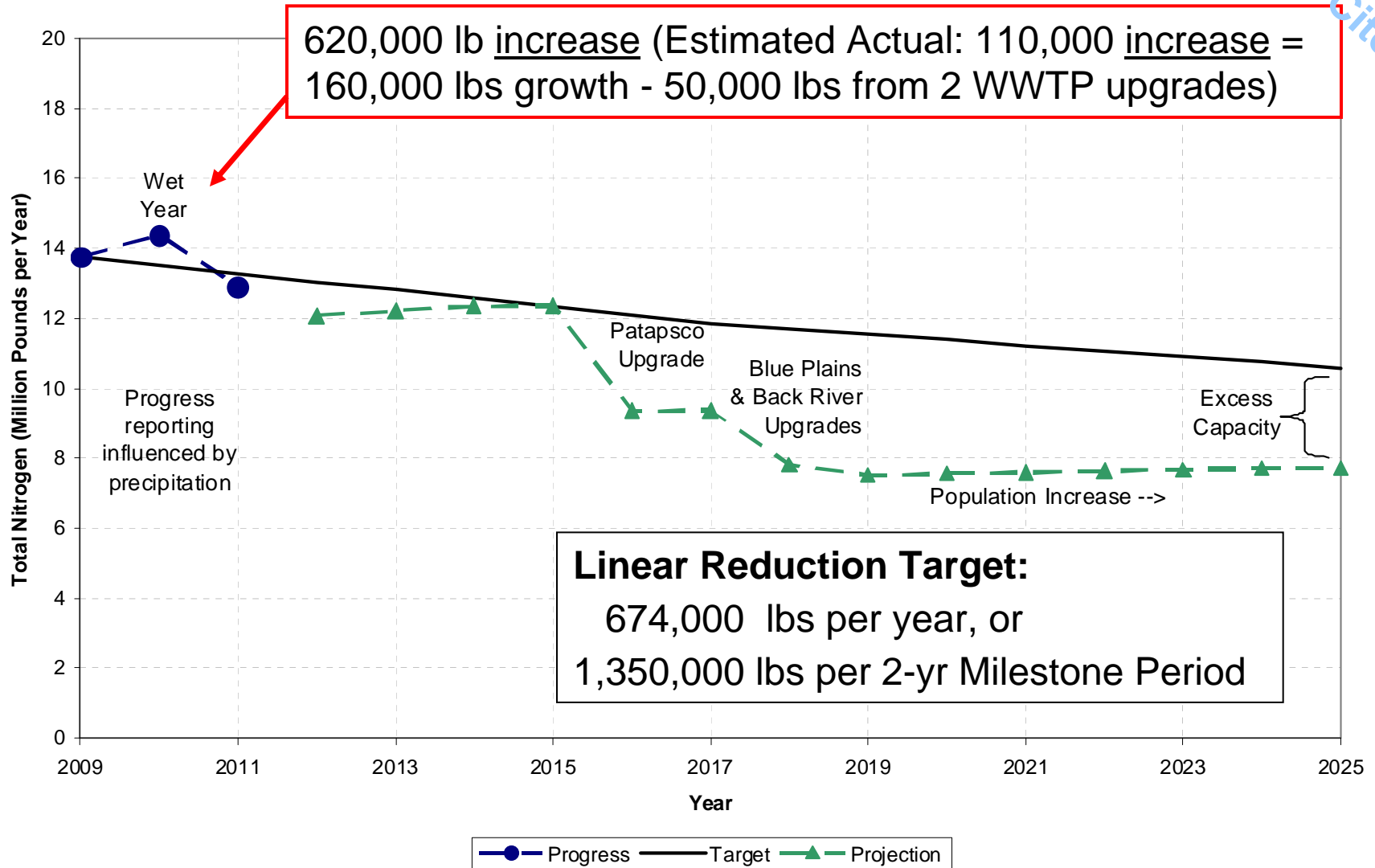
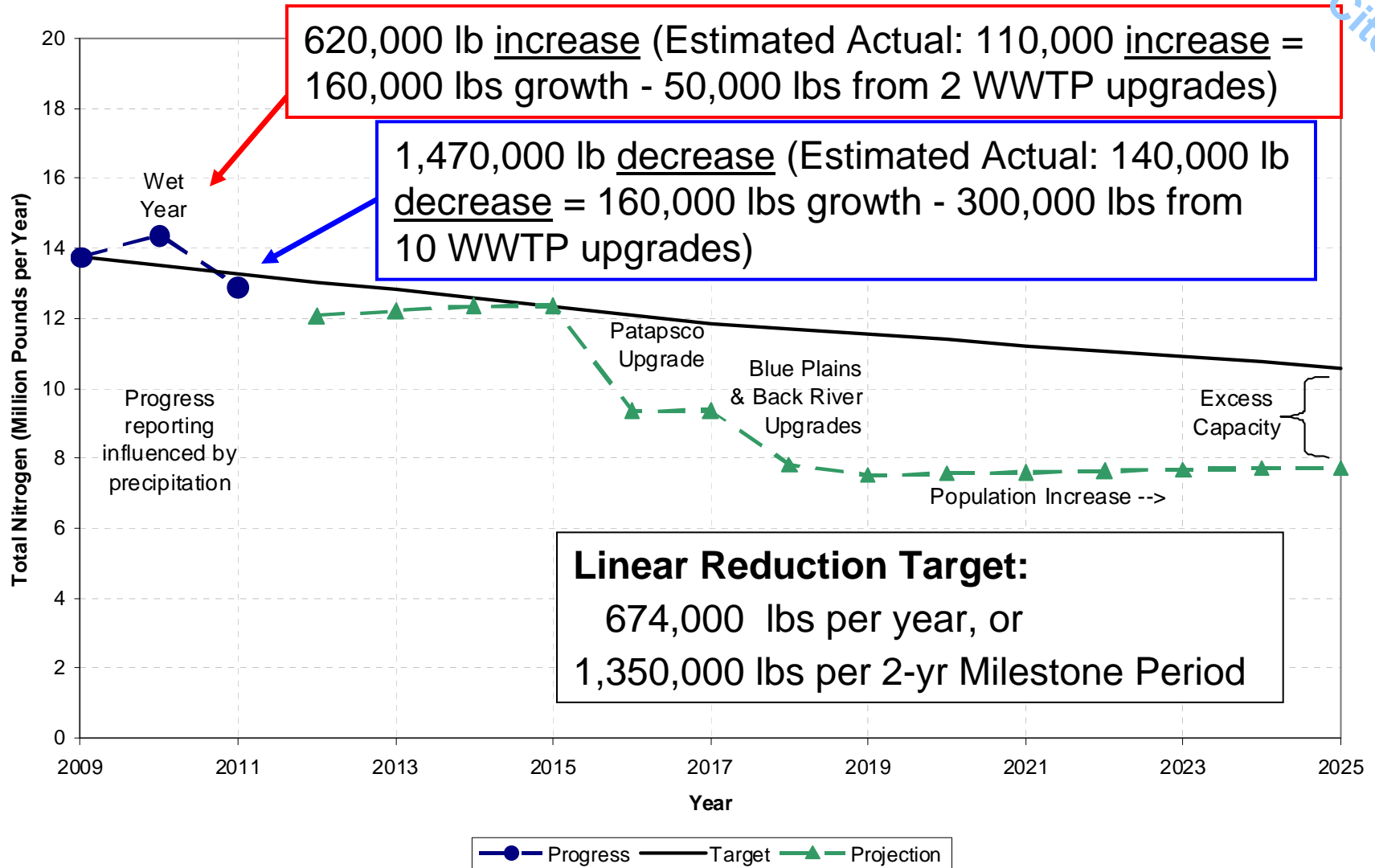


Illustration of the Concern

Wastewater - TN

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Process Issues

1. Time-Sensitivity: Need to address this for the 2013 Milestone period.
2. Decision Process: The broad policy decision should be at a higher level than the wastewater workgroup. The workgroup can advise on technical aspects.
3. Proposed Strategy: States for which this is not a concern need not modify their reporting process.

Technical Issues

1. Separate management & growth impacts on loads, like we plan to do for NPS.
2. Develop baseline plant flows to dampen effect of annual precipitation, yet account for growth.
3. Determine how to create model inputs for progress runs.
4. Determine how to create consistent model inputs for projection runs.

End

