Chesapeake Bay Program
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Interim Targets Overview

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Proposed Definitions for Planning Targets

- **Initial Planning Targets** - Phase 3 WIP Planning Targets as agreed to by the PSC in 2018, modified by subsequent basin-to-basin and nitrogen and phosphorus exchanges. The initial version of the Phase 3 WIPs were intended to address this load.
- **2025 Climate-Adjusted Planning Targets** - Initial Planning Targets updated for climate factors. In 2020, the partnership agreed to additional reductions to offset climate change from 1995 through 2025.
- **Interim Targets -** Interim Targets are the Phase 3 Planning Targets factoring in 2025 climate and Unaccounted Additional Loads (UALs). In 2023, the partnership agreed to use these targets until the Phase 7 modeling tools were developed. The UALs are equal to the increased load from cumulative Phase 6 CAST updates to model inputs that occurred after the Phase 3 Planning Targets were set in 2018. Accounting for the UALs balances the load increases from the model changes. Additional reductions necessary to account for Conowingo infill are not included.

Addressing Climate Change

The PSC met in March 2018 and agreed that the jurisdictions' Phase III WIPs would address climate change narratively and include numeric pollutant reduction loads due to 2025 climate change conditions. Specifically, the WIPs would include a narrative strategy describing the jurisdictions' current action plans and strategies to address an increase in nitrogen and phosphorus across the watershed as a result of climate change as well as changes in the tidal Chesapeake.

Addressing Unaccounted Additional Loads

Unaccounted Additional Loads (UALs) are the additional effort necessary to meet water quality standards that is due to model updates between the latest version of CAST (CAST-23) and the version of CAST (CAST-19) that existed when the decision was made.

On 9/26/2023, following the initial UALs discussions held in July, the PSC discussed the following definition of UALs: “Unaccounted Additional Loads are calculated as the positive difference between the latest version of the WIPs run on CAST-2023 and CAST-2017, after within-jurisdiction exchanges are performed.”

Nitrogen Interim Targets w/ Conowingo

	million lbs/yr						million lbs/year		million lbs/year	
By Jurisdiction	1985 Progress	2009 Progress	2022 Progress	2023 Progress	Interim Targets	Interim Target % Completion since 2009	2025 Climate Adjusted Planning Targets	2025 Climate Adjusted Planning Target % Completion since 2009	CWIP Adjustments	CWIP Planning Target % Completion
New York	18.64	14.42	13.82	13.45	12.17	43%	11.40	32%	0.08	TBD
Pennsylvania	122.43	112.44	108.62	105.76	77.08	19%	71.68	16%	6.41	TBD
Maryland	85.19	57.92	52.24	48.49	46.20	80%	44.69	71%	0.18	TBD
Virginia	84.44	67.96	55.84	55.13	52.04	81%	51.37	77%	-	
West Virginia	8.72	8.03	7.76	7.78	8.45	100%	8.23	100%	-	
Delaware	7.42	6.61	6.93	7.28	5.61	0%	4.51	0%	-	
District of Columbia	6.48	2.76	1.64	1.56	2.42	100%	2.42	100%	-	
Total Basinwide Simulated N Load	333.33	270.14	246.85	239.46	203.95	46%	194.29	40%	6.67	TBD

These loads were produced using CAST-23, the current model of record for annual progress.

*CWIP was developed to address additional nutrient loads not previously accounted for in jurisdictional WIPs.

TBD=percent progress will be calculated when progress data is available.

Phosphorus Interim Targets w/ Conowingo

	million lbs/yr						million lbs/year		million lbs/year	
By Jurisdiction	1985 Progress	2009 Progress	2022 Progress	2023 Progress	Interim Targets	Interim Target % Completion since 2009	2025 Climate Adjusted Planning Targets	2025 Climate Adjusted Planning Target % Completion since 2009	CWIP* Adjustments	CWIP Planning Target % Completion
New York	1.17	0.75	0.58	0.56	0.46	64%	0.43	58%	(0.013)	TBD*
Pennsylvania	5.95	4.47	3.66	3.58	2.84	55%	2.81	54%	0.153	TBD
Maryland	7.45	3.95	3.49	3.03	3.57	100%	3.57	100%	0.003	TBD
Virginia	13.54	6.76	5.51	5.39	5.25	90%	5.25	90%	-	
West Virginia	0.75	0.63	0.42	0.42	0.43	100%	0.42	100%	-	
Delaware	0.22	0.12	0.12	0.11	0.11	58%	0.11	55%	-	
District of Columbia	0.09	0.07	0.06	0.06	0.13	100%	0.13	100%	-	
Total Basinwide Simulated P Load	29.17	16.75	13.84	13.16	12.78	90%	12.71	89%	0.143	TBD

*These loads were produced using CAST-23, the current model of record for annual progress.

*CWIP was developed to address additional nutrient loads not previously accounted for in jurisdictional WIPs.

*TBD=percent progress will be calculated when progress data is available.

Sediment Interim Targets w/ Conowingo

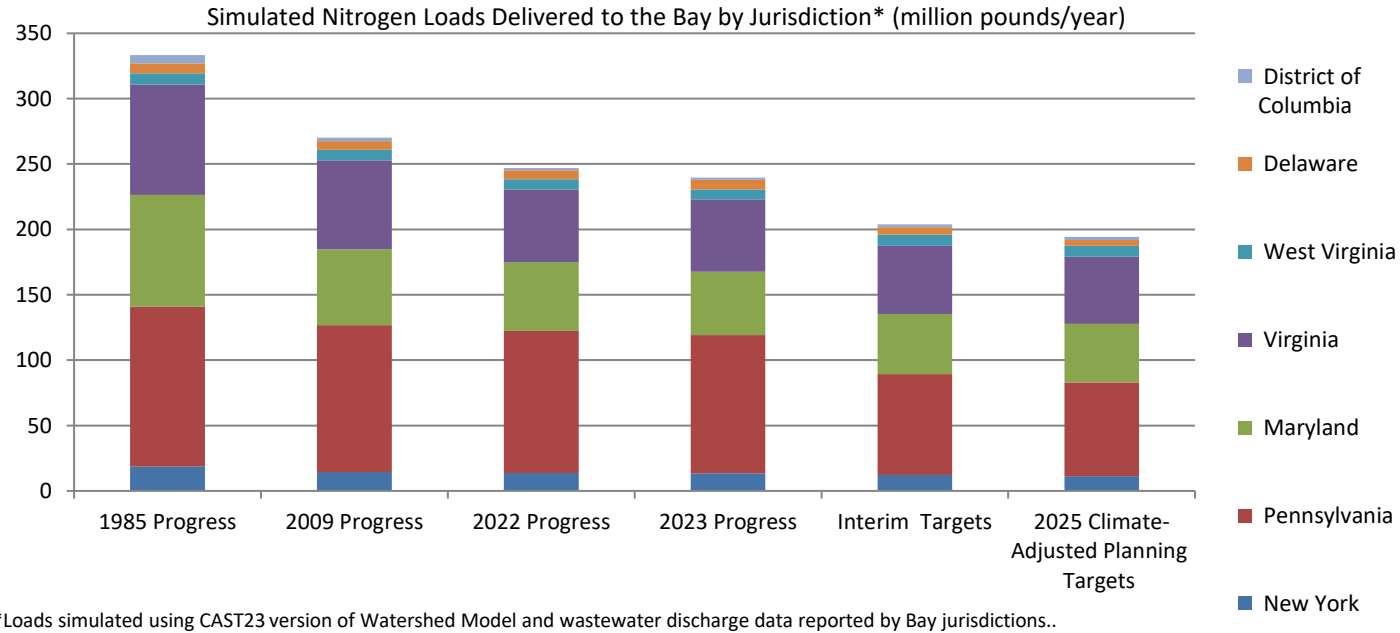
	million lbs/yr						million lbs/year		million lbs/year	
By Jurisdiction	1985 Progress	2009 Progress	2022 Progress	2023 Progress	Interim Targets	Interim Target % Completion since 2009	2025 Climate Adjusted Planning Targets	2025 Climate Adjusted Planning Target % Completion since 2009	CWIP Adjustments	CWIP Planning Target % Completion
New York	798	697	645	636	533	37%	533	37%	(3)	TBD
Pennsylvania	3,641	3,270	2,708	2,610	2,161	60%	2,161	60%	172	TBD
Maryland	8,277	7,612	7,506	7,481	8,343	100%	8,343	100%	8	TBD
Virginia	6,762	6,561	6,350	6,300	6,872	100%	6,872	100%	-	
West Virginia	733	598	541	538	609	100%	609	100%	-	
Delaware	63	48	32	33	27	69%	27	69%	-	
District of Columbia	43	44	35	36	42	100%	42	100%	-	
Total Basinwide Simulated S Load	20,318	18,830	17,817	17,634	18,587	100%	18,587	100%	177	TBD

These loads were produced using CAST-23, the current model of record for annual progress.

*CWIP was developed to address additional nutrient loads not previously accounted for in jurisdictional WIPs.

TBD=percent progress will be calculated when progress data is available.

Chesapeake Progress Mock-Up



*Loads simulated using CAST23 version of Watershed Model and wastewater discharge data reported by Bay jurisdictions..

Thank you!

Any questions?
You can contact me at mcdonnell.lee@epa.gov

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