

May 13, 2024

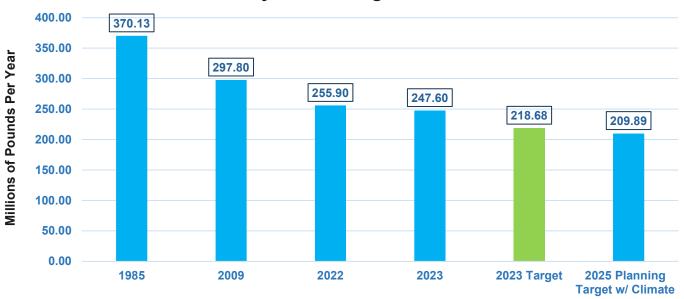
2023 Modeled Load Reduction Indicator (MLRI) Overview to FFWG

MLRI Overview

- Purpose: This indicator is used to estimate annual progress towards achieving the CBP partnership's goal of having all practices and controls in place by 2025 to achieve applicable water quality standards as articulated in the Bay TMDL.
- **Method of Measurement:** This progress estimate is generated using the Chesapeake Assessment Scenario Tool-2019 (CAST-19), which is part of the Phase 6 suite of modeling tools utilizing annually reported data from jurisdictions. The 2025 Planning Targets with Climate are the reference point for this indicator.
- *90% of the 2025 Planning Targets w/ Climate is considered 'on track' by 2023.
- Reporting Period: 07/01/2022 06/30/2023

5/13/2024 2

Bay-Wide Nitrogen Load



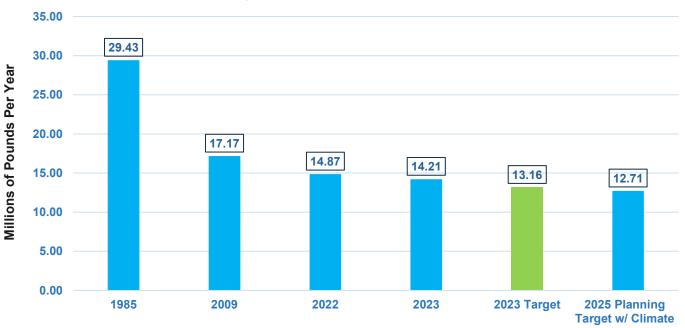
Nitrogen by Jurisdiction Outlook: Off Course

By Jurisdiction	1985	2009	2022	2023	2023 Target	2025 Planning Target w/ Climate	% Completion of 2025 Planning Targets w/ Climate
New York	18.64	14.42	12.83	12.47	11.70	11.40	65%
Pennsylvania	122.23	113.23	104.69	101.07	75.83	71.68	29%
Maryland	85.33	57.61	50.60	46.91	45.98	44.69	83%
Virginia	84.34	67.91	55.36	54.70	53.02	51.37	80%
West Virginia	8.70	8.04	7.89	7.93	8.21	8.23	100%
Delaware	7.00	6.85	6.18	6.64	4.75	4.51	9%
District of Columbia	6.48	2.76	1.64	1.56	2.45	2.42	100%
EPA: Atmospheric Deposition to Watershed (to be reduced under Clean Air Act)	15.90	7.18	0.66	0.41	0.72	0.00	94%
EPA: Atmospheric Deposition to Tidal Water (to be reduced to 15.6 million lbs/yr under Clean Air Act)	21.52	19.80	16.04	15.90	16.02	15.60	93%
Total Simulated N Load to Bay	370.13	297.80	255.90	247.60	218.68	209.89	57%

^{*} All units are millions of pounds per year.

5/13/2024

Bay-Wide Phosphorus Load



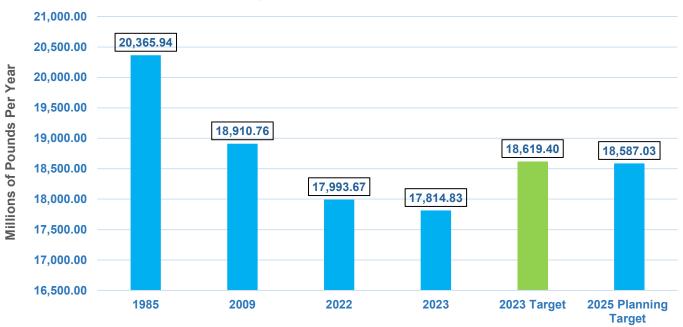
Phosphorus by Jurisdiction Outlook: Off Course

By Jurisdiction	1985	2009	2022	2023	2023 Target	2025 Planning Target w/ Climate	% Completion of 2025 Planning Targets w/ Climate
New York	1.19	0.74	0.55	0.54	0.46	0.43	66%
Pennsylvania	6.02	4.46	3.71	3.63	2.97	2.81	50%
Maryland	7.62	4.15	3.97	3.50	3.63	3.57	100%
Virginia	13.55	6.98	6.00	5.90	5.42	5.25	62%
West Virginia	0.76	0.63	0.44	0.44	0.44	0.42	91%
Delaware	0.22	0.13	0.12	0.12	0.11	0.11	39%
District of Columbia	0.09	0.07	0.07	0.07	0.12	0.13	100%
Total Simulated P Load to the Bay	29.43	17.17	14.87	14.21	13.16	12.71	67%

^{*} All units are millions of pounds per year.

5/13/2024

Bay-Wide Sediment Load



Sediment by Jurisdiction Outlook: Completed

By Jurisdiction	1985	2009	2022	2023	2023 Target	2025 Planning Target	% Completion of 2025 Planning Targets
New York	798.31	699.10	662.94	656.17	549.38	532.74	26%
Pennsylvania	3,638.86	3,299.53	2,745.30	2,642.87	2,275.29	2,161.48	58%
Maryland	8,327.38	7,663.05	7,570.76	7,553.63	8,274.88	8,342.86	100%
Virginia	6,761.79	6,556.93	6,397.52	6,341.86	6,840.85	6,872.39	100%
West Virginia	733.45	597.87	548.65	548.89	607.79	608.89	100%
Delaware	62.91	50.32	33.14	35.21	29.07	26.71	64%
District of Columbia	43.23	43.96	35.36	36.22	42.14	41.94	100%
Total Simulated S Load to Bay	20,365.94	18,910.76	17,993.67	17,814.83	18,619.40	18,587.03	100%

^{*} All units are millions of pounds per year.

5/13/2024



Thank you!

Any questions? You can contact me at smith.auston@epa.gov

