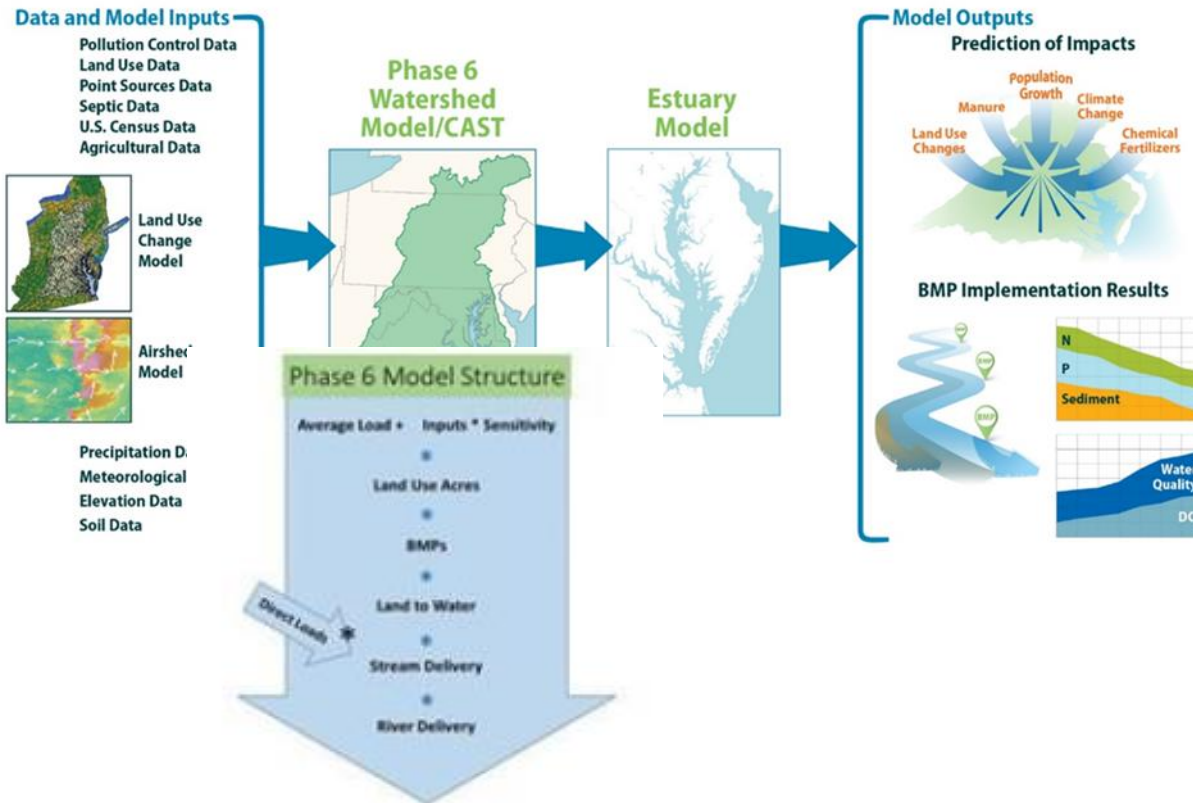


Bay Program's Modeling Suite



Comparing CAST 21 (prelim) to CAST 19

Change in Nutrient Loads to the Chesapeake Bay

Differences between CAST versions with each update: 6.2M lbs TN, -0.6M lbs TP
 By source sector; 2020 Progress scenario

Nitrogen

Jurisdiction	Source	CAST19 - CAST21 (Reviewed)		CAST21 Effect of Broiler Data		CAST21 Effect of Yield Data		CAST19 - CAST21 (All Effects)	
		(M lbs)	(%)	(M lbs)	(%)	(M lbs)	(%)	(M lbs)	(%)
CBW	Agriculture	4.056	3.4%	0.024	0.02%	1.863	1.5%	5.943	5.0%
CBW	Developed	0.177	0.4%	0	0	0	0	0.177	0.4%
CBW	Wastewater	0	0	0	0	0	0	0	0
CBW	Septic	-0.080	-1.0%	0	0	0	0	-0.080	-1.0%
CBW	Natural	0.120	0.3%	0.001	0.00%	0.094	0.2%	0.215	0.5%
CBW	AllSources	4.273	1.8%	0.025	0.01%	1.957	0.8%	6.255	2.6%

Phosphorus

Jurisdiction	Source	CAST19 - CAST21 (Reviewed)		CAST21 Effect of Broiler Data		CAST21 Effect of Yield Data		CAST19 - CAST21 (All Effects)	
		(M lbs)	(%)	(M lbs)	(%)	(M lbs)	(%)	(M lbs)	(%)
CBW	Agriculture	0.086	2.1%	0.001	0.03%	-0.029	-0.7%	0.058	1.4%
CBW	Developed	-0.454	-17.4%	0	0	0	0	-0.454	-17.4%
CBW	Wastewater	0	0	0	0	0	0	0	0
CBW	Septic	-0.003	-60.6%	0	0	0	0	-0.003	-60.6%
CBW	Natural	-0.127	-2.2%	0.000	-0.01%	-0.006	-0.1%	-0.134	-2.4%
CBW	AllSources	-0.498	-3.7%	0.001	0.01%	-0.036	-0.3%	-0.533	-4.0%

