

Modeling Workgroup Timeline

Challenges and Implications of Delayed Phase 6 Model Inputs

The Phase 6 fine-scale land use/land cover* (LU/LC) input will be available on or around March 1, 2017. The last revised PSC schedule had fine-scale LU/LC completed by October 2016, but the deadline was subsequently moved back to December 2016, then to January 2017, and LU/LC is now expected by the beginning of March. At least eight weeks are required for a sufficient calibration of the Phase 6 Watershed Model once all inputs are in. Nevertheless, a calibration could be completed by April 1 as currently scheduled, but the quality of the calibration would be degraded. Ultimately the PSC has the scheduling decision and will take up the issue at their March meeting. Consequently, the original schedule is maintained below in black font and a schedule that allows for eight weeks of Phase 6 calibration are in red in parentheses.

* It's important to note that the Phase 6 Model calibration needs land use and land cover, a more evolved product than simple land cover which is the description of the cover of the land like trees, grass, impervious cover, and water. Land use, however, includes necessary modeling information like crop type, applied fertilizer, and manure loads by land use, pasture stocking rates, atmospheric deposition loads, etc. Chesapeake watershed land cover data has recently been released to the CBP, but the associated land use is unavailable for Phase 6 calibration until about March 1.

Schedule for Phase 6 Release and Application – January 2017 to 2018

January 2017	Key final Phase 6 inputs from the partnership due on 12/31. <i>(Note: fine-scale land cover data is unavailable until on or around March 1, 2017.)</i>
January 31, 2017	All nutrient inputs from Scenario Builder needed for Phase 6 land uses complete. <i>(Note: As of February 14, 2017 fine-scale land cover data are unavailable making this task incomplete.)</i>
Feb 6 – Feb 28, 2017	Expanding on the December 13-14 work on estuarine geographic efficiency scenarios, ensure estuarine <i>Beta 4</i> geographic efficiency scenarios are equivalent to estuarine <i>Beta 3</i> geographic efficiency scenarios. If so begin estuarine geographic efficiency scenarios.
Feb 6 – Feb 28, 2017	Run Key scenarios of No Action, WIP2, and E3 scenarios on Phase 6 <i>Beta 4</i> watershed and estuarine models. (This task will likely be delayed because the SB Team will be occupied with LU/LC inputs for Phase 6 during this period and unable to develop scenarios.)
February 14-15	Quarterly Review
February 23, 2017	WQSTM Peer Review

March 2017 (TBD)	Conowingo infill and climate change simulation peer review.
April 1, 2017 (May 1)	Sendoff final Phase 6 Version for WQSTM calibration.
April 3, 2017 (May 1)	Release of Phase 6 for fatal error review.
April 4-5, 2017	Quarterly Review. (Move to May?)
April 17, 2017 (May 15)	Key scenarios of WIP2 Level of Effort, E3, Recent Progress Scenarios, No Action, All Forest and 1985 delivered.
April 30, 2017 (June 1)	WQSTM calibration to final Phase 6 Version complete.
May - June (June-July)	Consistent with the timing of the PSC meeting, complete draft planning targets for PSC deliberation.
May-June	PSC meeting on climate change, Conowingo infill, and draft planning targets findings and decisions.
June 4, 2017 (July 1)	Fatal flaw review completed.
June – December 2017	Modeling Workgroup assists CBP partners in draft planning target development.
July 2017	Modeling Quarterly Meeting.
October 2017	Modeling Quarterly Meeting.
December 2017	Planning targets final.
2018	Modeling Workgroup assists CBP partners on WIP development.

