

Attachment A: Chesapeake Bay Program Partnership's Phase 6 BMP Expert Panel Scheduling and Modeling Considerations

The Chesapeake Bay Program (CBP) Partnership currently has 17 BMP expert panels underway to inform the calibration of the Phase 6 suite of modeling and decision support tools. Each of these Expert Panels was identified by the Water Quality Goal Implementation Team's (WQGIT) Source Sector Workgroups as priority Expert Panels for inclusion in the Phase 6 suite of modeling tools. However, some of the Expert Panels are experiencing delays in either producing a draft report for Partnership review or delays are incurred during the Partnership review and approval process. Therefore, it is necessary to understand which of these Phase 6 Expert Panels need to be completed by September 30, 2016 in order to meet the final Phase 6 calibration deadline, or those Panels that can be deferred until after the Phase 6 modeling tools are complete.

BMP Panel Name	Priority Level	Workgroup/WTWG Approval Date	WQGIT Approval Date
Animal Waste Storage Systems (Agriculture Workgroup)	Tier 1- This is the most important BMP panel report to approve. It has a very large impact on the amount of manure available to crops. The Phase 6 Model cannot be effectively calibrated without updated values.	AgWG Proposed Report Decision –Targeting September for the release of the report for the Partnership's 30-day review period. Panel will work to provide draft efficiencies to the modelers for the October calibration.	TBD
Phase 6 Nutrient Management (Agriculture Workgroup)	Tier 1- This is the second most important BMP report to finalize. It is the largest BMP in the watershed and has a substantial impact on the calibration.	AgWG Proposed Report Decision – September 7, 2016. Will need concurrent decision from WTWG.	September 12, 2016
Advanced Onsite Systems (Attenuation), Part 2	Tier 2- The recommendations from this report are different from standard BMPs because	September 2016	Final approval by Modeling Workgroup anticipated on September 22, 2016

(Wastewater Treatment Workgroup)	they affect delivery factors. This report can't be incorporated into the model if it is not incorporated prior to the final Phase 6 calibration. Draft analysis has confirmed the current bay-wide average attenuation value. Recommendations will provide fine-tuning at more localized scales.		
Phase 6 Conservation Tillage (Agriculture Workgroup)	Tier 2 - This practice is extensive in the calibration history, and thus would have a relatively substantial impact on the Phase 6 calibration. States are tracking this practice already according to the draft panel recommendations. Final efficiency values are still needed.	AgWG Proposed Report Decision – September 22, 2016. Will need concurrent decision from WTWG.	September 26, 2016
Wetlands (Wetlands Workgroup)	Tier 2 - These recommendations would have a relatively minor impact on the calibration. The larger impact is on the amount of credit that can be claimed for each wetland BMP currently being reported in Phase 5.3.2. Draft recommendations may be available by September.	September 2016. Will likely need concurrent review and approval by the Wetlands Workgroup and the WTWG.	September 2016 – most likely the September 26 call.
Cropland Irrigation Management (Agriculture Workgroup)	Tier 3 - States have never been asked to track this BMP, but current data sources suggest that it is extensive throughout the calibration history.	AgWG Report Decision - TBD	Targeting December 2016

Manure Injection/Manure Incorporation (Agriculture Workgroup)	Tier 3- Difficult to judge impact of this practice on the calibration. States have never been asked to track this BMP before, and the scale of implementation is not currently known	AgWG Proposed Report Decision – September 22, 2016. Will need concurrent decision from WTWG.	September 26, 2016
Urban Tree Canopy (Forestry Workgroup)	Tier 3- Draft recommendations are already programmed into the Beta 3 version of the Model. There is a relatively small number of acres of this BMP.	Approved (with contingency of Tier-2 BMP for Urban Forest Planting) by FWG June 23, 2016 Will seek WTWG approval on September 1, 2016	September 12, 2016
Phase 6 Cover Crops (Agriculture Workgroup)	Tier 4- No changes to tracking and reporting are anticipated based on this report. Efficiency changes are expected to be minimal.	AgWG Proposed Report Decision – September 22, 2016. Will need concurrent decision from WTWG.	September 26, 2016
Manure Treatment Technologies (Agriculture Workgroup)	Tier 5- Can be incorporated after the final Phase 6 calibration in 2017	Jul-16 AgWG Approved Report – July 20, 2016 Will seek WTWG approval on September 1, 2016	September 26, 2016
Oyster Restoration/Aquaculture (Water Quality GIT)	Tier 5- Can be incorporated after the final phase 6 calibration in 2017.	N/A	November 2016

Floating Wetlands (Urban Stormwater Workgroup)	Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017	Approved by USWG on July 26, 2016	August 2016
Impervious Disconnection (Urban Stormwater Workgroup)	Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017	September 2016	TBD
Boat Pump-Out (Wastewater Treatment Workgroup)	Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017.	August 2016	September 2016
Advanced Onsite Systems (drip dispersal and peat treatment w/ dispersal to pad), Part III (Wastewater Treatment Workgroup)	Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017	August 2016	September 2016
Agricultural Ditch (NRCS BMPs) (Agriculture Workgroup)	Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017	AgWG Report Decision - TBD	TBD
Ag Stormwater Structures (Agriculture Workgroup)	Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017	AgWG Report Decision - TBD	Targeting December 2016

Tier Definitions:

Tier 1: Highest Priority Panels. Must be approved prior to September 30, 2016 due to their very large impact on the calibration.

Tier 2: High Priority Panels. Should be approved prior to September 30, 2016 due to large impact on the calibration.

Tier 3: Moderate Priority Panels. Should be approved prior to September 30, 2016, but the impact on the calibration is either unknown, or preliminary recommendations have already been approved and incorporated as a placeholder.

Tier 4: Lower Priority Panels. Should be approved prior to September 30, 2016, but the impact on the calibration is either small, or preliminary panel recommendations indicate that there will be minimal changes to tracking and reporting procedures that would impact how the BMP is programmed into the Phase 6 Model.

Tier 5: Lowest Priority Panels. Do not need to be approved prior to September 30, 2016 and do not impact the calibration.