

Workplan for CAST21

**Goal:** Accommodate new data and methods with CAST21 for changes that have been approved by the Partnership up until COB Sept. 1, 2021

**Outcome:** A Partnership approved CAST21 model that uses the best available science, data and information to inform and support our shared restoration efforts and collective decision-making processes, adhering to our principals of adaptive management

\* Timelines are the estimated completion dates (month & year) for the investigating body (e.g., CBP office technical staff) to make final presentations about options for the relevant source workgroups to consider. Agreement about what will be included and excluded from CAST21 depends on votes of members of the workgroups and WQGIT. Approved data and method changes for CAST21 need to be finalized through the WQGIT by Sept. 1, 2021.

— As each key action is considered and signed off by workgroups and the WQGIT, there will be no determination where and to what degree nutrient and sediment loads would be higher or lower than CAST 19. Additional key actions may be added to this workplan if the addition is approved by the WQGIT. CAST21 will accommodate all key actions approved through the Partnership by COB Sept. 1, 2021 and will be available for review, including loads, Nov. 1, 2021.

Key Action	Participating Entities	Timeline*
Investigate alternatives to the current methods for forecasting agricultural land uses and animals and propose options for Partnership consideration. Particular attention will be paid to trends in acres of full-season soybeans, double-crops, and idle and fallow lands	<b>Agriculture Workgroup</b> , Land Use Workgroup, Watershed Technical Workgroup, WQGIT, CBPO technical staff	March 2021
Investigate use of latest landcover and LiDAR imagery to better define changes in total agriculture areas and crop acres through time as well as all other source categories in the developed sector, forest, mixed open, and wetlands	<b>Land Use Workgroup</b> , Agriculture Workgroup, Forestry Workgroup, Urban Stormwater Workgroup, Wetlands Workgroup, Watershed Technical Workgroup, WQGIT, CBPO technical staff	Aug., 2021
Investigate alternatives for estimating acres of double-crops and propose options for Partnership consideration	<b>Agriculture Workgroup</b> , Watershed Technical Workgroup, WQGIT, CBPO technical staff	July, 2021

Consider additions to current methods for “crediting” Nutrient Management on soybeans and propose options	<b>Agriculture Workgroup</b> , Watershed Technical Workgroup, WQGIT, CBPO technical staff	May, 2021
Accommodate with CAST21 QA/QC’d historic and current layer population data for Hillendale Farms, Spring Grove, PA.	<b>Agriculture Workgroup</b> , Watershed Technical Workgroup, WQGIT, CBPO technical staff	May, 2021
Build in Partnership-approved products of the BMP Verification Ad-Hoc Action Team	Relevant source workgroup (Agriculture, Forestry, Urban Stormwater, Wetlands), <b>BMP Verification Ad-Hoc Action Team</b> , Watershed Technical Workgroup, WQGIT, CBPO technical staff	June, 2021
Continue with updates to data and methods for the following that typically occur every two years – as well as other proposals agreed-to and approved by the CBP Partnership: <ul style="list-style-type: none"> <li>• New or updated BMPs, their effectiveness values, and implementation costs</li> <li>• Revised reported BMP history from jurisdictions</li> <li>• County-level and/or Census zone population, housing, and employment projections</li> <li>• The number of septic systems and their projections, related to sewer service area boundaries</li> <li>• MS4 area boundaries</li> <li>• Zoning</li> <li>• State-specific land use data, especially where it relates to land use by agency type</li> <li>• Construction acres</li> <li>• Manure nutrient concentrations</li> <li>• Manure or litter mass produced per animal</li> <li>• Permitted/Non-permitted animal fractions</li> <li>• Soil phosphorus data by crop type and county</li> </ul>	Relevant source workgroup ( <b>Agriculture, Forestry, Land Use, Urban Stormwater, Wastewater Treatment, Wetlands</b> ), BMP Expert Panels, BMP Verification Ad-Hoc Action Team, Watershed Technical Workgroup, WQGIT, Jurisdictions, CBPO technical staff	June, 2021

<ul style="list-style-type: none"><li>• AAPFCO for fertilizer sales and use data for farm (crop) and non-farm (urban turfgrass) entities – as well as other supplemental sources of data</li><li>• Crop yields, e.g. bushels per acre</li><li>• Harvested forest areas</li><li>• USDA-NASS crop yield data</li><li>• Biosolid and spray irrigation mass and nutrient concentration applications</li><li>• Rapid infiltration basin load data</li><li>• Large monitored onsite septic system load data</li><li>• CSO connections and pass-through data</li></ul>		
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