Step-by-step instructions for submitting input data to Phase 5.3 Watershed Model and Scenario Builder for Watershed Implementation Plan development

Data regarding WIP practice and program implementation and waste loads are to be submitted to the CBPO following the "ScenarioBuilder-WWTP_InputDeck_Templates".

Nonpoint sources, regulated animal feeding operations and regulated stormwater

For nonpoint sources, regulated animal feeding operations and regulated stormwater, there are three spreadsheets that need to be completed:

- RegularBmps
  - Planned implementation of practices and programs is accounted for at the following Phase 5.3 Watershed Model "SegmentId" scales:
    - LandRiverSegment
    - RiverSegment
    - LandSegment
    - FIPS
    - StateBasin
    - TribStratBasin
    - State
  - A complete listing of available spatial scales can be found on "SegmentId_Domains".
  - Within a jurisdiction, the spatial scale of reported implementation can vary among BMPs but there cannot be more than one scale used for each BMP.
  - Each practice and program needs to be reported with a "BMP Shortname", the landuse or landuse group and/or animal type the BMP applies to, and the unit of the BMP.
    - A full listing and description of each BMP Shortname, Landuse Shortname, and Landuse Groupname can be found on "Landuses_BMPs_AcceptableLanduse".
    - If a landuse or landuse group is not identified to apply the BMP to, the reported planned implementation will be distributed among default landuses associated with the jurisdiction and practice.
  - It is important to note that planned practices on animal feeding operations need to be split between regulated and unregulated animal feeding operations and planned stormwater management needs to be split among regulated and unregulated urban land types.
    - If these divisions are not identified, the CBPO will distribute relevant WIP practices proportionally among regulated and unregulated landuse types.

- AnimalFeedBmps
  - Practices involving the reduction of nutrients excreted by animals includes poultry phytase, swine phytase, and dairy precision feeding.
  - AnimalFeedBmps needs to be reported at the spatial scale of counties with the type of practice and relevant animal type identified.
  - For implementation, states are to report the fraction of animals affected and the planned TN and TP reductions as a fraction from the pre-BMP condition.

- ManureTransport
  - The transport of animal manure and litter is reported at the scale of counties with the sending and receiving county identified.
    - For manure transported out of the Chesapeake Bay Watershed, the FIPSTo column is left blank.
    - For each county pairing, the type of animal or animal group and the tons of manure transported is identified.

Significant and non-significant municipal and industrial plants and CSO

- For significant and non-significant municipal and industrial plants and CSO, the following needs to be identified for inputs to the Chesapeake Bay Program Phase 5.3 Watershed Model:

  - Flow
    - design flow or
    - specific year flow
  - TN (mg/l)
  - TP (mg/l)
  - BOD (mg/l)
  - DO (mg/l)
  - TSS (mg/l)

- For municipal and industrial plants, states and DC can provide this information either by providing reference to existing scenario definitions for significant and non-significant facilities using the "General_WWTP_ScenarioTemplate" worksheet or by submitting facility-specific loading data using the "Detailed_WWTP_ScenarioTemplate" worksheet. If states/DC want to submit loading data for proposed new facilities, they must use the "Detailed_WWTP_ScenarioTemplate" worksheet.
- If states are submitting facility information by referencing existing scenario definitions, "WWTP_CurrentScenarios" lists the concentrations and flows for the key model scenarios: E3, Tributary Strategies, 1985 (Actual), 1985 No-Action, and 2010 No-Action.
- For CSOs, EPA expects states to provide the reduction levels defined in the CSO Long Term Control Plan if they have not already provided this information to CBPO.
- By providing data using existing scenario definitions or including the NPDES permit numbers in the "Detailed_WWTP_ScenarioTemplate" worksheet, CBPO will automatically use detailed data already provided by the jurisdictions to EPA and CBPO to assign loading information to the appropriate land-river model segment.