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Watershed Technical Workgroup Meeting July 2, 2020



- Consensus could not be reached at the WQGIT for approving CAST19
 - *Endorse CAST19: VA, MD, DC, NY, EPA, DoD, CBC,
 *CBF
 - *Stand-aside: PA, UD (at-large), DE MD Agribusiness
 *Association (at-large)
 - Hold: DE, WV, and PA Farm Bureau (at-large)

*Some with reservations or needing final communications piece



- Management Board meeting is Thursday, 6/9/20
- Decision to reverse Jan., 2016 Management Board decision to update the modeling tools every two years (in alignment with the Milestone periods) – or not



- Beginning in 2014, the Milestone Workgroup conducted a year-long investigation and deliberation into how best to introduce new data and methods to the accounting tools.
- The impetus for the investigation was new data from the 2012 Agricultural Census, the 2011 National Land Cover Dataset, and human population projection data from states.
- The Milestone Workgroup recommended to the WQGIT that jurisdictions be evaluated with the same model over a two-year milestone period that they used to develop their 2-year plans.



- In December, 2015 and January, 2016, the WQGIT and the MB, respectively, reached consensus on the Milestone Workgroup recommendations.
- Any changes to the decision to update the model every two years would need formal review and approval by the CBP partnership.



- 2025 Phase III WIP planning targets do not change with updates to the model
- WIP or local action plans do not need to change.
- Two-year milestones are in place in order to make any necessary adjustments to planning and implementation efforts, as part of the partnership's adaptive management framework.



- Updating the model helps ensure that it's more accurately measuring and capturing changes in the landscape over a two-year period, as well as historical progress.
- This leads to a better understanding of how those changes impact water quality and living resources at the regional and local levels.



What data sets will not be available for planning purposes and progress if CAST19 is not approved?

- Land Use and Populations
- Agricultural Data
- BMPs

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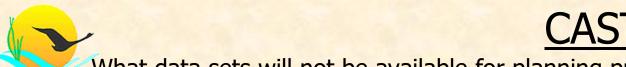
Land Use and Populations

- The latest high-resolution land cover data that will be used to greatly improve forecasts of acres of dozens of land use categories across all source sectors – every two years; CAST 2021 and every model version thereafter
- County-level and/or Census zone population, housing, and employment projections – every two years; CAST 2019 and every model version thereafter
- US Census Bureau human population every ten years from Bureau but more frequent from states; CAST 2023 and every model version thereafter
- Zoning every two years; CAST 2019 and every model version thereafter

What data sets will not be available for planning purposes and progress if CAST19 is not approved?

Land Use and Populations

- State-specific land use data, especially where it relates to land use by agency type – every two years; CAST 2019 and every model version thereafter
- AAPFCO fertilizer sales for non-farm every two years; CAST 2019 and every model version thereafter
- Sewer service area boundaries every two years; CAST 2019 and every model version thereafter
- MS4 area boundaries every two years; CAST 2019 and every model version thereafter
- Septic system growth by county and/or model land-river segment
 every two years; CAST 2019 and every model version thereafter



What data sets will not be available for planning purposes and progress if CAST19 is not approved?

Agricultural Data

- Animal populations and crop acres by county from USDA-NASS 2017 and 2022 Census of Agriculture – incorporated every five years except some animal types where annual data are incorporated every two years; CAST 2019 and CAST 2025
- USDA- NASS annual poultry production data incorporated every two years; CAST 2019 and every model version thereafter
- Nutrient concentrations for animal manure every two years;
 minimum of three-year trend needed; CAST 2019 and every model version thereafter

CAST:

What data sets will not be available for planning purposes and progress if CAST19 is not approved?

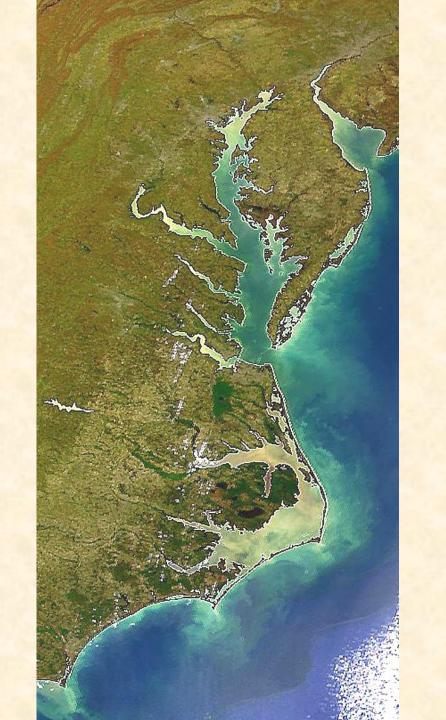
Agricultural Data

- Manure or litter mass produced per animal every two years;
 CAST 2019 and every model version thereafter
- AAPFCO fertilizer sales for farm every two years; CAST 2019 and every model version thereafter
- USDA-NASS crop yield data every two years; CAST 2019 and every model version thereafter
- Soil phosphorus data by crop type and county updated as part of the calibration of the watershed model; currently using data through 2014

What data sets will not be available for planning purposes and progress if CAST19 is not approved?

• BMPs

- Newer BMPs approved through the Partnership added every two years
 - Agricultural Stormwater Management
 - Conservation Landscaping Practices
 - Septic Effluent Advanced
 - Septic Secondary Treatment Advanced
 - Septic Denitrification Advanced





Model Schedule

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Watershed Technical Workgroup Meeting May 7, 2020



Model-Related Schedule 2019 Progress (CAST17)

- Access to the scenario now to WTWG+ through CAST with scenario name "2019 Progress 20200211"



18-19 Milestone (CAST17) and 20-21 Milestone (CAST19)

- EPA and jurisdictions have discussed draft versions of Milestone evaluations, both 18-19 Milestones (CAST17) and 20-21 Milestones (CAST19)
- EPA to post final evaluations to EPA website no later than July 29



- July 31, 2020 BMP listing, descriptions, and mapping due from jurisdictions for any proposed BMPs that will be submitted for that year's progress assessment that are NOT included in the NEIEN Appendix.
- July 31, 2020 Requests to modify the NEIEN Schema or Plug-In due.



- August 31, 2020 Final requests for changes to the NEIEN Appendix due to the Watershed Technical Workgroup. The WTWG is responsible for approving the NEIEN Appendix and codes list by August 31, 2020.
- August 31, 2020 Data submissions and descriptions due for: 1) permitted forest harvest acres, 2) continually disturbed and permitted construction acres – including estimates of any unpermitted acres, 3) CAFO/AFO animal splits by county, 4) nutrient concentrations in manure for poultry and swine



- September 1, 2020 Jurisdictions are encouraged to begin submitting their BMP implementation to NEIEN for the progress assessment. Ongoing review of submissions will occur between September and December, with the expectation that December 1 submissions are final.
- No later than September 30, 2020 or outstanding comments about the 2019 progress BMP data and/or the jurisdiction's BMP Verification Program Plan (QAPP) should be addressed.



- December 1, 2020 QA/QC'd final data to be submitted by jurisdictions, including any updates to BMP Verification Program Plans describing new data sources and changes to methods of tracking to CBPO – both wastewater data and non-wastewater BMPs.
 - Wastewater data includes the categories CSO, bio-solids, spray irrigation, large onsite systems, and rapid infiltration.
 - Additional revisions to the jurisdictions' QAPPs may be necessary after December 1 as a result of EPA's review of each jurisdictions 2020 Progress submission.



 February 8, 2021 – Final progress run information for progress available to jurisdictions – needed for outside reporting of progress on commitments and to keep results relevant.