



Model Schedule

Jeff Sweeney
Environmental Protection Agency
Chesapeake Bay Program Office
sweeney.jeff@epa.gov
410-533-6617

Watershed Technical Workgroup Meeting
May 7, 2020



Model-Related Schedule 2019 Progress (CAST17)

- Coordinating the release of “official” 2019 Progress (CAST17) model scenario with the Bay Program Reducing Pollution Indicator (<https://www.chesapeakeprogress.com/clean-water/watershed-implementation-plans>), in May.
- 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 has finished Milestone draft evaluations, both 18-19 Milestones (CAST17) and 20-21 Milestones (CAST19)
- Draft evaluations have been shared with jurisdictions
- Calls with jurisdictions – through the week of May 110, 2020
- Jurisdictions submit final 2020/2021 programmatic Milestone no later than May 30



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

- Jurisdictions post final milestones to website – no later than June 23
- Share EPA evaluations of final milestones with jurisdictions for fatal flaws – week of July 20
- Post evaluations to EPA website – no later than July 29



Model-Related Schedule CAST19

- Currently, continuing investigations and state outreach about CAST19 data and methods
- CAST19 presentation to the Water Quality GIT at May 25th where we hope to finalize



Model-Related Schedule CAST19

- CAST17 will not be publicly available when CAST19 becomes the public tool, but CAST19 will have archive of key scenario data from CAST17



BMP Verification

Jeff Sweeney
Environmental Protection Agency
Chesapeake Bay Program Office
sweeney.jeff@epa.gov
410-533-6617

Watershed Technical Workgroup Meeting
May 7, 2020



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE III

~~Data Collection and Verification Expectations from Review Process that go Above and Beyond Protocols~~

- ~~• PA and DE use a transect survey methodology for verifying conservation tillage and cover crops. Concerns were expressed at the Agriculture Workgroup (AgWG) when modifications were proposed to this transect survey approach.~~

Action:

- ~~• The EPA CBPO (leads: Jeff Sweeney and Mark Dubin) will further investigate this issue with PA and DE and propose a resolution for the transect survey methodology. The proposed resolution will be presented to the AgWG and the WQGIT for review and approval. Decisions will need to be reflected in the BMP verification plans for PA and DE if they adopt the revised methodology.~~

Action taken:

- After investigation, issue was likely 1) proposal to use transect-survey approach for other BMPs, and/or 2) transect surveys are approved for Traditional Cover Crops, not Commodity Cover Crops
- Proposed changes to verification protocols go through source sector work groups



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE IV

~~Ensuring Transparency in How Verification is Treated in Terms of Credit Duration~~

- ~~• NEIEN error reports are not readily available to broader implementation partners beyond the jurisdictional progress and verification contacts.~~

Actions:

- ~~• Charge the WTWG to discuss potential solutions of making the error reports available in partnership's CAST after the final progress run in February of each year — particularly for those BMPs that are removed from CAST due to credit duration.~~
- ~~• Lucinda Power will follow up with the CAST development and CBP Communications teams to discuss options for presenting the error reports (e.g., graphical representation or numeric tabular form), as well as the development of fact sheets about the overall progress and verification reporting and assessment.~~

Action taken:

- This has been discussed at previous WTWG meetings. Validation and error reports will be made available through CAST for the final versions of the Progress scenarios.



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE II

Timing of Review and Approval of QAPPs

- Jurisdictions feel that the requirements of verification program plans may not have been consistently applied across and between jurisdictions.
 - The BMP verification SOPs were distributed to the jurisdictions as part of the first round of BMP verification assessment findings in late January 2020.
- Confusion was expressed about whether guidance was given to the jurisdictions to use grouped inspection dates for those BMPs where no specific dates are known.

Actions:

- Jurisdictions submitted questions and comments on the SOP document to CBPO and they will be answered and incorporated.
- Charge the WTWG to develop options for more consistent approaches for reporting and documentation inspection dates as part of the annual BMP verification reporting to the EPA CBPO. Recommendations will then be shared with the WQGIT for their review and approval.



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE VI

Revisiting Credit Duration

- Credit durations established for some agricultural BMPs are based on NRCS specifications. The remaining credit durations were established by the WQGIT's source sector workgroups. There is debate as to whether these credit durations were based on the best available scientific information.
- There may be some inconsistency with how these credit durations were established.
- Jurisdictions may want to consider conducting a data collection exercise to draw some statistical conclusions to what an appropriate credit duration may be.

Action:

- Charge the WQGIT with convening ad-hoc team to discuss BMP credit duration and lifespan.
 - Composition of this action team should include all WQGIT signatories and at-large members; representative from source sector WG; representative from 3 Advisory Committees. Membership to include national experts on verification could be explored.
 - A specific charge, the purpose, and targeted objectives will be developed, as well as a timeline for fulfilling the charge. It is likely that this action team may be convened in the future to discuss new verification concerns and issues.



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE V

Alternatives to “All or Nothing” Approach to BMP (Re)verification

- Can there be gradual or partial credit over a period of time as opposed to zero credit for those BMPs that cannot be verified? Perhaps there's room for a compromise that's acceptable (particularly for those BMPs that are NRCS practices).
- Perhaps it is not too soon to revisit the verification structure and framework after only 2 years of verification reporting. Evolving the verification program was always intended, with continuous improvement.
- A one-size fits all approach will not work to verification (MDA would be very willing to discuss what's worked well with their verification program and associated procedures)

Action:

- Charge the WQGIT with convening ad-hoc team to discuss BMP credit duration and lifespan.
 - Composition of this action team should include all WQGIT signatories and at-large members; representative from source sector WG; representative from 3 Advisory Committees. Membership to include national experts on verification could be explored.
 - A specific charge, the purpose, and targeted objectives will be developed, as well as a timeline for fulfilling the charge. It is likely that this action team may be convened in the future to discuss new verification concerns and issues.



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE VII

Back-out and Cut-off Procedures

- Back out and cut-off procedures have really impacted jurisdictions when reporting at a finer scale. If jurisdictions have data at a scale finer than at the county level, they may be subjected to more cut off.

Action:

- Charge the WTWG with revisiting the back-out and cut-off procedures, working with the appropriate source sector workgroups, if necessary.
- This issue will be added to the March WTWG conference call agenda. Proposed solutions will be raised and discussed with the WQGIT before any modifications are finalized and implemented.

Action to be taken:

- Please submit data from model scenarios showing the effects of back-out and cut-off procedures as soon as possible, no later than Friday, April 10.



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE I

Timing of Updates for Jurisdictions BMP Verification Program Plans (QAPPs)

- What works best for the jurisdictions in submitting updates to the QAPPs as part of the annual BMP progress and verification reporting?
- Perhaps have revised QAPPs due to EPA by October 1 and the data still due by December 1?
- Is the QAPP the best place to provide documentation of significant implementation increases? Or should this be handled through the programmatic milestones?

Action:

Charge the WTWG to develop options for updating and submitting changes to the jurisdictions' QAPPs to the EPA CBPO. Recommendations will then be shared with the WQGIT for their review and approval.



BMP Verification

Action Items from 1/22/20 Meeting

ISSUE VIII

Incorporating Verification Costs into CAST

- Much of the cost data is dependent on jurisdictions supplying this data to the CBPO.

Action:

- Lucinda Power will work with the CAST development team to identify what specific data is needed from the jurisdictions for including this data into CAST, as well as any constraints in doing so.



BMP Verification

Action Items from 1/22/20 Meeting

Additional Discussion

- Not all (potential) solutions to these BMP verification concerns will work on the same timeline and in parallel. There could be different CBP partnership groups working on these issues.
- Jurisdictions were encouraged to prioritize the 2019 Progress and verification assessment, as the quality of the data varies greatly.
- There can be great value in having a group within the partnership that can talk about verification and work through these challenges. It might be worth exploring holding a (bi)annual meeting to collectively discuss how we as a partnership can improve verification procedures and advance verification programs, as well as to discuss new procedures and methods for verification since there have been many advancements in scientific and technical data and methods.

Action:

- The Management Board will discuss the possibility and utility of convening a larger and formalized partnership group to tackle verification issues and concerns that have watershed-wide implications.