

Agricultural Modeling Team (AMT) Meeting

January 12th

09:00 AM – 11:00 AM

[Meeting Materials](#)

Zoom Link: Zoom Link: <https://umces-edu.zoom.us/j/86874895821>

Meeting ID: 868 7489 5821

Passcode: 2024Phone: +1 301 715 8592 US (Washington DC)

This meeting will be recorded for internal use to assure the accuracy of meeting notes.

Statement of purpose:

To evaluate the crop yield and loading rates/ratios in CAST and discuss potential alternatives for Phase 7.

Decision items:

1. Approve the [December minutes](#)

Announcements:

- BMP Excess presentations:
 - Tentative [Watershed Technical Workgroup February 2024](#)
 - Tentative [Land Use Work Group March 2024 meeting](#)
- Ag Modeling Team office hours
 - Optional time EACH MONTH to walk through upcoming topics.
- [Phase 7 office hours](#)
 - ONE TIME February 5th 12:30-02:00
 - Gather feedback from our partners on what they want to hear about at the February WQGIT meeting with regard to Phase 7 (P7) modeling progress and/or concerns that P7 is missing something important to them.

Introduction: 09:00-09:05 [5 min (Zach Easton, Virginia Tech)]

Seek approval of [December minutes](#) and take attendance.

Crop Yield trends 09:05- 09:25 [20 min (5 min presentation 15 min discussion) (Joseph Delesantro, ORISE)]

We will recap the importance of Crop Yield data in CAST as well as discuss progress being made to improve long term crop yields. This includes multiple potential approaches for estimating yields from the Five-Year Census of Agriculture using correlations to crops with existing annual yield data. **Informational Update.**

Manure Generation and Acres in CAST 09:25-11:00 [35 min (15 min presentation 20 min discussion) (Tom Butler, EPA)]

As per discussion in the December AMT we will discuss the processes behind manure generation as well as the calculation which determines manure acres. We will then discuss potential ways to improve on these items for Phase 7.

Loading Rates/Ratios in CAST 10:00-10:55 [55 min (15 min presentation 40 min discussion) (Tom Butler, EPA)]

We will discuss why loading rates and ratios exist within CAST in addition to how they were determined. This will be followed by discussion regarding potential improvements for the Phase 7 of CAST.

Recap/Closing 10:55-11:00 [5 min (Zach Easton, VT)]

Action Items:

- Provide feedback on the time for Ag Modeling Team office hours.
- Discuss crop yields update and relevant ag Land Uses for Phase 7.

Adjourn – 11:00

Up Next: Friday, February 9th, 2024, from 09:00 - 11:00am.

****Common Acronyms**

AgWG- [Agriculture Workgroup](#)

AMT- [Agricultural Modeling Team](#) (Phase 7)

BMP- Best Management Practice

CAST- [Chesapeake Assessment Scenario Tool](#) (user interface for the CBP Watershed Model)

CBP- [Chesapeake Bay Program](#)

CBPO- Chesapeake Bay Program Office (houses EPA, federal partners, and various contractors and grantees working towards CBP goals)

CBW-Chesapeake Bay Watershed

CRC- [Chesapeake Research Consortium](#)

EPA- [United States] Environmental Protection Agency

PSC – [Principals' Advisory Committee](#) (CBP)

STAC- [Scientific & Technical Advisory Committee](#)

TMDL- Total Maximum Daily Load

WQGIT- [Water Quality Goal Implementation Team](#)