

Agricultural Modeling Team (AMT) Meeting

February 9th

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: 2024 **Phone:** +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 [January minutes](#)

Announcements:

- Ag Modeling Team office hours
 - Optional time EACH MONTH to walk through upcoming topics.
- Remote Sensing discussions
 - [February 15th AgWG](#)

Introduction/Recap: 09:00-09:15 [15 min (Zach Easton, Virginia Tech)]

We will seek approval of [January minutes](#) and take attendance.

Zach will provide a brief recap presentation on what topics the group is currently covering.

Crop Yield trends 09:15- 09:35 [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.**

Loading Rates/Ratios in CAST 09:35-10:25 [50 min (15 min presentation 35 min discussion) (Gary Shenk, USGS; Tom Butler, EPA)]

As per group requests we will discuss the results of a CAST test scenario in which loading rates have been modified. This exercise will prompt a sandbox decision about how to represent Land Uses and their associated loading rates in Phase 7. **Decisional**

Manure Generation and Acres in CAST 10:25-10:55 [30 min (10 min presentation 20 min discussion) (Tom Butler, EPA)]

We will review CAST data demonstrating how CAST calculates manure. These example data will help inform members on the current state of manure related information in CAST.

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

Action Items:

- Discuss: crop yields update, and relevant Ag Land Uses for Phase 7.
- Decide if Ag Land Uses should be changed for Phase 7.

Adjourn – 11:00

Up Next: Friday, March 8th, 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](#)