

Agricultural Modeling Team (AMT) Meeting

March 8th

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 [February minutes](#)

Announcements:

- [February 15th AgWG](#) Remote Sensing discussions.
- Thank you, Jackie!

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

Zach will provide a quick recap of the AMT progress to date as well as the groups timeline.

Crop Yield trends 09:15- 09:35 [20 min (5 min presentation 15 min discussion) (Joseph Delesantro, ORISE)]

We will 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 09:35-10:35 [60 min (20 min presentation 40 min discussion) (Gary Shenk, USGS; Mark Dubin, UMD)]

Gary and Mark will provide a refreshed on how CAST works as well as where within its framework Loading Ratios factor in. They will also go over what information was captured in previous efforts to create the current Loading Ratios. **Informational.**

Discussing a Path Forward 10:35-10:55 [(20 min discussion) (Zach Easton, VT)]

We will use this time to further discuss information presented earlier in the meeting. These discussions will be used to collect feedback on how we propose to move forward regarding the Loading Ratio's and Land Uses currently in CAST.

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

Action Items:

- Discuss: crop yields update, and relevant Ag Land Uses and Ratios for Phase 7.

Adjourn – 11:00

Up Next:

Office Hours: Friday, April 12th, 2024, from 8:00 - 9:00 am.

AMT Meeting: Friday, April 12th, 2024, from 09:00 - 11:00 am.

**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](#)