

Agricultural Modeling Team (AMT) Meeting

October 11th

09:00 AM – 11:00 AM

[Meeting Materials](#)

Microsoft Teams: [Join the meeting now](#)

Meeting ID: 246 929 423 243

Passcode: z872qn

Dial-in by phone: [+1 202-991-0477,,913721509#](#) United States, 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 [September minutes](#)

Announcements:

- [October tree plantings](#) (Alliance for the Chesapeake Bay).

Introduction/Recap: 09:00-09:10 [10 min (Zach Easton, Virginia Tech)]

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

Manure applications in CAST 09:10- 09:40 [30 min (5 min presentation 25 min discussion) (Tom Butler, EPA)]

Tom will recap the changes made to the acres and manure applications in CAST agricultural Land Uses. The group will be asked if they approve of these changes for Phase 7 development.

Decisional.

Decisions:

- *Should the acres of Grains with Manure should be determined using Plant Available Nitrogen?*
- *Should the manure spread algorithm be modified to create a fourth group as shown in this presentation?*

Crop Yields 09:40-10:10 [30 min (10 min presentation 20 min discussion) (Joseph Delesantro, ORISE; Tom Butler, EPA)]

We will discuss the results of adding in updated crop yield trends progress being made to improve long term crop yields. This includes a fix to the trends which had previously predicted a lower yield then would be expected. **Decisional.**

Decision:

- *Should this new statistical framework be used to determine long term crop yield trends?*

Industry Data 10:10- 10:55 [45 min (10 min presentation 35 min discussion) (Paul Bredwell, US Egg, and Poultry)]

Paul will request that the group decide on the potential to collect relevant production information directly from the poultry industry to update, replace, and/or supplement existing model data sources. **Decisional.**

Decision:

- *Should new data sources from the poultry industry be incorporated into nutrients calculations in CAST?*

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

Action Items:

- Decide: Phase 7 crop yield trends, manure application and acre calculations, and if there is support for using industry data.
- Prep comments for Fertilizer in November.

Adjourn – 11:00

Up Next:

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

AMT Meeting: Friday, November 8th, 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](#)