Agricultural Modeling Team (AMT) Meeting

September 8th, 2023
09:00 AM – 11:00 AM
Meeting Materials
==Zoom Link:== https://umces-edu.zoom.us/j/83326580784
Meeting ID: 833 2658 0784
Passcode: 573041
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 land uses in CAST and discuss potential alternatives for Phase 7.

Decision items:

1. Approve the August minutes

Announcements:

- Fertilizer Expert Group Phase 7 recommendations were presented ot the MB on September 5th working through the partnership
- Nutrient timing and eligibility are being discussed for use in Phase 6 at the September 21st AgWG meeting.

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

Approval of August minutes and take attendance.

Scenario Discussions: Crop Yield trends 09:05- 09:35 [30 min (10 min presentation 20 min discussion) (Tom Butler, EPA; Zach Easton, Virginia Tech)]

We will provide additional information on the current yield data utilized in CAST. Discussions will continue regarding potential methods to improve yield trends, including several methods proposed at last month's meeting.

Background on Load calculations 09:35-09:55 [20 min (10 min presentation 10 min discussion) (Gary Shenk, USGS)]

Gary will help connect our previous work on crop yields to the way nutrient loads are calculated. A short presentation outlining the role of inputs in the load's calculation will be provided.

Background: Land Uses in CAST 09:55-10:15 [20 min (15 min presentation 5 min discussion) (Peter Claggett, USGS)]

Peter will introduce the topic of Land Use categories in CAST and set the stage for future discussions.

Combining Ag Census and Satellite-Based Land Use 10:15-10:35 [20 min (5 min presentation 15 min discussion) (Gary Shenk, USGS)]

Gary will discuss how the Census of Agriculture and satellite imagery work together to create the land use classifications in CAST.

Scenario Discussions: Land Use Categories 10:35-10:55 [20 min (5 min presentation 15 min discussion) (Tom Butler, EPA)]

Tom will discuss the current agricultural land uses in CAST as well as introduce discussion questions about Land Use categories for Phase 7.

Closing –10:55-11:00 (5 minutes)

Action Items:

- Discuss the inputs needed to accurately account for Crop Yields
- Discuss potential ways to adjust Land Uses for Phase 7.

Adjourn – 11:00

Up Next: Friday, October 13th, 2023, 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