

## **Agricultural Modeling Team (AMT) Meeting**

**DAY 1:** November 1st, 2022

09:00 AM - 02:00 PM

**Meeting Materials:** [Day 1 Materials](#)

**Join by Webinar:**

<https://umces.webex.com/umces/j.php?MTID=mf83e763d6d1b1c79dcbc9351b76cf43d>

**Meeting Number:** 2621 300 0237 **Password:** AMT1234

Or join by phone

**Conference Line:** +1-408-418-9388 **Access code:** 2621 300 0237

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

---

### **Statement of purpose:**

*This two-day workshop will educate members of the newly formed AMT on relevant topics identified by the Ag Workgroup. After educating members the group will prioritize these topics and create a timeline to work through issues.*

#### **Introduction – 09:00-09:15 [15 min (Tom Butler, EPA)]**

We will introduce ourselves and set the stage for what the group will be doing. [Just a reminder for members that all meetings are public and meeting records will be published.]

#### **Group Structure and Decision making – 09:15-09:45 [30 min (20 min presentation 10 min discussion) (Tom Butler, EPA)]**

We will go over how the group is organized and how the group will make decisions.

#### **Introduction of Topics – 09:45-10:30 [45 min (25 min presentation 20 min discussion) (Tom Butler)]**

We will provide an initial list of topics that have been raised for the group to examine and rank. Ranking will occur after we discuss the context in which topics interact. [Remember that rankings may be more relevant to states who engage in Bay Program activities than academics in the group so the state perspective of what's important could be given more weight.]

#### **BREAK –10:30-10:35 (5 minutes)**

#### **Introduction to the Chesapeake Assessment Scenario Tool (CAST) PART 1 – 10:35-11:15 [40 min (25 min presentation, 15 min discussion) (Olivia Devereux, Devereux Consulting)]**

We will discuss what CAST is, how it is used by partners, including how it is used to evaluate progress and develop Watershed Implementation Plans.

#### **Introduction to the Chesapeake Assessment Scenario Tool (CAST) PART 2 – 11:15-11:55 [40 min (25 min presentation, 15 min discussion) (Gary Shenk, USGS)]**

We will discuss how CAST operates from a technical perspective in addition to the tool's sensitivities to inputs. We will also examine the relationships between CAST, and other Bay Program models and tools.

#### **LUNCH BREAK 11:55-12:30 [35 min NONE IS PROVIDED]**

#### **Animal Categories – 12:30 -01:10 [40 min (30 min presentation 10 min discussion) (Sucharith Ravi, UMCES)]**

We will discuss the animal types used in CAST as well as how population data are determined.

#### **Crops and Land Use Data – 01:10-01:50 [40 min (30 min presentation 10 min discussion) (Jess Rigelman J7 Consulting/Olivia Devereux, Devereux Consulting)]**

We will go over crop types and the categorization of crops into land use groups.

#### **Concluding remarks – 01:50-02:00 [10 min]**

#### **Adjourn – 02:00**

## **Agricultural Modeling Team (AMT) Meeting**

**DAY 2:** November 2<sup>nd</sup>, 2022

09:00 AM - 01:20 PM

**Meeting Materials:** [Day 2 Materials](#)

**Join by Webinar:**

<https://umces.webex.com/umces/j.php?MTID=mf83e763d6d1b1c79dcbc9351b76cf43d>

**Meeting Number:** 2621 300 0237 **Password:** AMT1234

Or join by phone

**Conference Line:** +1-408-418-9388 **Access code:** 2621 300 0237

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

---

### **Introduction/Recap – 09:00-09:15 [15 min]**

We will recap day one and go over the order of day 2.

### **Manure Data and Biosolids – 09:15-09:55 [40 min (20 min presentation 20 min discussion) (Tom Butler, EPA)]**

We will discuss the process of calculating manure and biosolid inputs for CAST.

### **Fertilizer Data – 09:55-10:30 [35 min (15 min presentation 20 min discussion) (Tom Butler, EPA)]**

We will discuss the current fertilizer data and how these data are used to across the Chesapeake Bay watershed.

### **Existing Fertilizer Data Investigation – 10:30- 10:40 [10 min (5 min presentation 5 min discussion) (Tom Butler, EPA)]**

We will briefly discuss an existing fertilizer investigation that will directly inform the AMT's examination of inorganic fertilizer data.

### **Break – 10:40-10:45 [5 min]**

### **Soil Data: Revised Universal Soil Loss Equation (RUSLE) and Soil Phosphorus data – 10:45-11:25 [40 min (20 min presentation 20 min discussion) (Tom Butler)]**

We will discuss the use of RUSLE and the focus on cover factors (C factors) across the Chesapeake Bay watershed. We will also discuss soil P data sources utilized by the model.

### **Break – 11:25-11:30 [5 min]**

### **Revisit: Prioritization of Topics - 11:30-12:00 [30 min (Tom Butler, EPA)]**

We will go over the focus topics for the AMT again and describe how we plan to create a workplan for the AMT via ranking topics. To repeat: rankings may be more relevant to states who engage in Bay Program activities than academics in the group so the state perspective of what's important could be given more weight

### **LUNCH BREAK 12:00-12:30 [30 min NONE IS PROVIDED]**

### **General Discussion – 12:30-01:00 [30 min (Tom Butler, EPA)]**

This time is open for further discussion of anything members might find unclear such as group structure, roles, and responsibilities, etc.

### **Action Items for the Group - 01:00-01:15 [15 min (Tom Butler, EPA)]**

- We will poll members to determine:
  - The timing of monthly meetings (2 hours a month)
    - 2nd Friday of each month?
  - The prioritization of topics

### **Closing Remarks - 01:15-01:20 [5 min (Tom Butler, EPA)]**

### **Adjourn – 01:20**