Agricultural Modeling Team (AMT) Meeting

March 6th, 2023

01:00 PM – 03:00 PM

Meeting Materials

Microsoft Teams Link: Click here to join the meeting

Meeting ID: 258 583 978 795

Passcode: cSMqgm

Phone: +1 202-991-0477 United States, Washington DC

Phone Conference ID: 380 178 575#

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

Statement of purpose:

This virtual meeting will serve to connect relevant experts on potential data sets pertaining to inorganic fertilizer data. These data are used by the Chesapeake Bay Program to inform the Chesapeake Assessment Scenario Tool.

Background [01:00-01:40]:

Introduction – 01:00-01:10 [10 min (Tom Butler, EPA)]

This group will serve as a formal committee to develop short-term, interim resolutions to fertilizer data concerns before moving forward with CAST 2021 as well as long-term resolutions for Phase 7 model.

The Long and Short of it: A timeline for working to solve immediate and future issues with how CAST utilized Fertilizer data – 01:10 - 01:25 [15 min (10 min presentation 5 min discussion) (Tom Butler, EPA)]

This group has been tasked with working on short term (4 month) and long term (2 year) solutions for data. We will work to make sure that the difference in what can be done for each of these time scales is clearly articulated.

Background: Chesapeake Assessment Scenario Tool and how it uses Inorganic Fertilizer data– 01:25-01:40 [15 min (10 min presentation 5 min discussion) (Tom Butler, EPA)]

CAST currently utilizes manure inorganic fertilizer data from the Association of American Plant Food Control Officials. We will examine how these data are processed and what other data sets are applied to these data to create the current fertilizer stock for the watershed.

Potential New Data Sources [01:40-03:00]:

State reported fertilizer tonnage sales data – 01:40-02:00 [20 min (10 min presentation 10 min discussion) (Tom Butler, EPA)]

We will examine the potential for utilizing state reported fertilizer sales tonnage data. These data have been compared to the AAPFCO fertilizer data used by CAST. Data reported directly from states can help eliminate the latency issues associated with AAPFCO data.

USDA NASS and Survey Data – 02:00-02:20 [20 min (10 min presentation 10 min discussion) (Tony Dorn, USDA-NASS)]

The National Agricultural Statics Service conducts surveys on agricultural data. We will examine the potential to utilize these data in CAST. A presentation regarding the types of surveys and availability of data will be provided.

The potential for industry supplied data sets– 02:20-02:40 [20 min (10 min presentation 10 min discussion) (Tom Butler, EPA)]

We will examine the potential to utilize industry supplied inorganic fertilizer data. We hope to gain a better understanding of the types of data which might be supplied by industry representatives.

General discussion - 02:40-02:55 [15 min discussion) (Tom Butler, EPA)]

This time will be open for further discussions of different data types and recommendations about the possible ways to deal with the data available.

Closing –02:55-03:00 (5 minutes)

Action Items:

- Document discussions
- Plan potential next meeting

Adjourn –03:00

Up Next: TBD

**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