

Ag Modeling Team Charge/Nominations Feedback

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Purpose of Today

- Seek consensus approval of the updated AMT charge and group structure
- IF approval is given begin accepting AMT nominations

Background

We need to ensure the best available agricultural input data is in the
Phase 7 Watershed model (WSM)

AND

Reviewing this information is a very detailed, time expensive task

BUT

The Agriculture Workgroup does not have the capacity to do this

THEREFORE

We are making the Ag Modeling Team to decide the ag inputs for the
Phase 7 Model.

Charge and functions

Support the Agriculture Workgroup (AgWG) through the development of the Phase 7 Watershed Model (WSM) inputs.

Ensure Phase 7 utilizes the best available information reflecting agricultural conditions and changes through time.

Determine if changes are appropriate from Phase 6 to Phase 7.

Consider land use/load source category changes.

Coordinate with USDA agencies to identify analysis methods and agricultural databases.

Make decisions on what the most appropriate agricultural input data are for the Phase 7 WSM.

Expertise

****Represent technical expertise AND jurisdictions****

Agricultural systems

- Bovine
- Equine
- Hogs
- Poultry
- Livestock Feed
- Row Crops
- Hay and Ag Open Space
- Specialty Crops
- Pasture and Riparian Pasture

Application/storage of both manure and fertilizer

- Storage and handling
- Transport
- Nutrient Management
- Soil Phosphorus
- Nutrient Volatilization

Agricultural nutrient modeling data within the Chesapeake Bay watershed

- CAST
- SPARROW
- USDA
- Land Use
- Data management
- Model my watershed
- Climate change

Group Structure

12 voting
members

- Chair
- Six states
- EPA
- Four at large positions.

**** NOTE**

- Voting members must be people who do not already vote in the AgWG.
- At large bids are limited to governmental and academic personnel, such as, USDA, USGS, and land grants.

Updated proposed AMT voting structure

Ag Modeling Team Voting members		
<u>Affiliation</u>	<u>Primary</u>	<u>Alternate</u>
Chair		None
Delaware		
Maryland		
New York		
Pennsylvania		
Virginia		
West Virginia		
U.S. Environmental Protection Agency		
At Large		
At Large		
At Large		
At Large		

General member estimated commitment

Table 2. General member time commitment breakdown

Activity	Time commitment (Hrs./Mo.)
Meeting preparation	4
General activities	4
Monthly meetings	2
TOTAL	10

Chair estimated commitment

Table 3. Chair time commitment breakdown	
Activity	Time commitment (Hrs./Mo.)
Meeting preparation	6
General activities	4
Monthly meetings	2
Meeting agendas	2
Direct group work	4
Preparatory meetings	1
Post meeting briefs	1
TOTAL	20

Initial Focus Topics

CROP	ANIMAL	MANURE	INORGANIC FERTILIZER	MODELING
Crop nutrient application	Reevaluate animal types	Dissolved Air Flocculants (DAF).	Soil and Water Extractable Phosphorus	Nutrient Application
Agricultural plant categories	Feeding operations	Manure Storage	Fertilizer breakdown	Land Use
Legume nitrogen fixation	Animal mortality	Nitrogen mineralization	Revisit AAPFCO NH ₄ to NO ₃	Cover factors
Timing of crop nutrient applications	Size	Transport	Biostimulants and biofertilizers	Evaluation of alternative agricultural data sources
Nutrient use Efficiency	Feeding additives	Storage and handling losses		Model Structure
Double cropping				
Climate change effects on crop types				
Crop uptake vs removal				

Structure (Consensus)

****The AMT will make decisions itself****

1) Discuss item



2) Form Proposal



3) Call for consensus



4) Identify and address concerns



5) Modify proposal

Tentative Timeline



* We will need to structure meetings to boost attendance on relevant topics, Crops then Animals, alternate, etc. *

Next Steps IF we get approval

Call for nominations →
July 21st – August 18th

- AgWG members will submit names, Conflict of interest forms and CV/resumes for review.



Confirm group
nominations → August
18th - September 15th

- AgWG will vote to accept or reject state and EPA nominees, and select at large positions
- Contact nominees and confirm their availability



Establish workgroup
priorities/timeline →
End of October

- 2 Day in depth review of CAST
- Provide context to new members
- MANDATORY

Questions/Comments?

Call for Nominations

- July 21st – August 18th
- **3 things**
 - Name
 - CV/Resume
 - Signed [Conflict of Interest](#) Form
- At Large should be government or academic (preferably land grant)
- Voting members should not vote in the AgWG