AMT Initial Topic Prioritization

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Why are we doing this?

Update the Bay programs Phase 7 model ag input data

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There are many topics which need to be addressed

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We must start somewhere

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Members creating a living document to help move forward

Topics refresher

24 [topics](#)

- Provided by CAST users
- Agricultural Workgroup members

Refined during [Two-day workshop](#)

Collected information from core members via online poll

- Topic ranking
- Additional suggestions

Averaged rankings

Ranking: Topics 1-12

1 - Re-evaluate Land Uses	7 - Manure production factors
2 - Nutrient Application	8 - Timing of crop nutrient applications
3 - Crop uptake vs removal	9 - Agricultural plant categories
4 - Crop nutrient application	10 - Ensure Model data transparency
5 - Double cropping	11 - Examine potential Agricultural data sources (NOTE a fertilizer investigation is underway which will have more information by Q2 of 2023)
6 - Legume nitrogen fixation	12 - Soil and Water Extractable Phosphorus

Ranking: Topics 13-24

13 - Manure storage and handling losses	19 - Feeding operations (NOTE Land Use information will be available to address this issue in 2024)
14 - Nitrogen mineralization	20 - Housing and in field volatilization
15 - Re-evaluate animal types	21 - Revisit AAPFCO NH_4 to NO_3 (NOTE a fertilizer investigation is underway which will have more information by Q2 of 2023)
16 - Re-evaluate Cover factors	22 - Climate change and crop types
17 - Manure Transport	23 - Additional Soil nutrient supplement groups
18 - Fertilizer bucket scale processing (NOTE a fertilizer investigation is underway which will have more information by Q2 of 2023)	24 - Biologicals

Additional suggestions

Model transparency will permeate all discussions

Downscaling to the management level is worth investigation

Animal numbers for partial counties (not fully in the watershed)

Focus on land uses and nutrient generation first THEN focus on nutrient applications
- Need to wait for inorganic fertilizer data

Improve understanding of Pastureland, soil health, and cover crops
- Potential application of Pre-sidedress Soil Nitrate Test data

What next?

Improve your understanding of CAST

Reevaluate the prioritization

Questions?