

Chesapeake Bay Program
Phase 7 Agricultural Modeling Team (AMT)

Log of Actions and Decisions

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[*NOTE Sandbox decisions are tentative decisions made with the intent of providing a direction to allow test runs of CAST to facilitate the development of Phase 7.](#)

October 10, 2025 | [Meeting Materials](#)

Action: The September meeting minutes will be approved at a subsequent AMT meeting, once all federal partners are back to work and able to review.

Action: At a future meeting, the AMT will discuss renaming the original hay and pasture classes to hay low and pasture low, once all federal partners are back to work.

Action: Time permitting, the group will discuss soil phosphorus and manure nutrient concentration data at a future meeting, at the request of VA DCR.

Action: Joseph Delesantro will work on projection methods of fertilizer trends for comparison at future meeting. These projections include state trends for nonreporting, crop need trends for non-reporting, and averaging the last three year trends and three to five year trends for non-reporting.

Action: The AMT will work with Robert Sabo to create a table highlighting fertilizer consumption trends across national data sets as an additional line of evidence for the fertilizer projection method.

September 12, 2025 | [Meeting Materials](#)

Decision: The AMT approved the [August minutes](#).

Decision: The AMT agreed to adopt the following land use loading ratios: Pasture High =1.26 and Hay High = 1.30.

Decision: The AMT approved altering the names of the managed pasture and managed hay land uses to pasture high and hay high, respectively.

Decision: At this time, the AMT does not feel comfortable changing the default conversion of animal units excluded per 1,000 linear feet of fencing. This is largely due to data and time constraints. As such, this value will remain the Phase 6 value (17.6 animal units excluded), with the idea that this value can be revisited by a relevant workgroup in the future, once additional data is available.

Action: The AMT developed a preliminary recommendation to send to the Watershed Technical Workgroup. This language will be sent to AMT members for their review and modifications, prior to being sent to the WTWG for their discussion and approval.

Post Meeting Note: The AMT workshopped the recommendation offline and agreed on the following recommendation to be sent to the Watershed Technical Workgroup for their consideration: "[Exclusion fencing](#) is credited in acres, but reportable in linear feet or acres, with

buffer width or animal units (AU) excluded being optional. However, because of differences in data availability among the various jurisdictions, credit for exclusion fencing can sometimes only be obtained by reporting buffer acres. When buffer acreage is reported without a buffer width, the default width of 10 ft or 35 ft for narrow or regular, respectively, is used to calculate the associated linear feet of exclusion fencing. This is then used to further calculate the associated AU (based on the default value of 17.6 AU excluded/ 1000 LF fencing). The AMT recognizes that average buffer widths of exclusion fencing are typically larger than the current default values used for calculating linear feet. Given this **the AMT is recommending a change in the default buffer widths for calculations to 22.5 ft and 67.5 ft for narrow and regular buffers.** (**It was noted that 22.5 is the average of 10-35, not 27.5)

August 8, 2025 | [Meeting Materials](#)

Main Meeting

Decision: The AMT approved the [July minutes](#).

Action: Chris Brosch, DDA, will email details related to the poultry litter data collection effort and data request to AMT members.

Post Meeting Note: Please see the data request sent via email by Chris Brosch (Chris.Brosch@delaware.gov) on 8/11/25.

Decision (Update): Following updated votes from Delaware and Maryland from the July meeting, the AMT approved utilizing state specific farm only fertilizer stocks that are smoothed across time.

Action: The AMT will reconvene the land use loading rate ratio subgroup, with additional resources and participants, to continue investigating the literature to propose loading rate ratios for managed hay and pasture.

Post Meeting Note: The land use loading rate ratio subgroup met on 8/21. Findings will be presented at the September AMT meeting for continued discussion.

Action: An informational overview of the land use loading rate ratio effort for managed hay and pasture will be presented to the AgWG at their August meeting. Following the September AMT meeting, time will be made on the AgWG agenda as necessary, should this topic become decisional for the AgWG.

Action: An interim meeting for members to discuss BMP excess as it relates to exclusion fencing will be scheduled, per member request.

Post Meeting Note: An interim BMP excess discussion was scheduled for August 27, 2025.

Animal BMP Excess Meeting

Action: Jess Rigelman will work up a spreadsheet analysis with pasture stocking rate by county and state, to help examine whether the existing default conversion of square feet to animal units excluded should be modified spatially across the watershed.

Action: Jess Rigelman will start conversation with the land data team to see if it would be possible to conduct a similar exercise from Phase 6 where an analysis was done to show the total number of bufferable acres, as a planning resource for states.

Action: Jurisdictions are asked to reach out within their jurisdiction and provide state-based information on buffer width to Tom Butler (Butler.Thomas01@epa.gov), ideally by the week of September 1st.

Action: If you have comments on excess as it relates to animal waste management systems and mortality disposal, please provide them to Tom Butler (Butler.Thomas01@epa.gov). Otherwise, **if we**

hear no proposed path forward from the group, we will not proceed with investigating animal waste management system and mortality disposal excess.

July 11, 2025 | [Meeting Materials](#)

Main Meeting

Action: Given the Phase 7 [timeline extension](#) for broiler updates, layer updates, and inorganic fertilizer, the AMT will continue to meet monthly through February. Tom will extend the meeting invitation to reflect this change.

Decision: The AMT approved the [June minutes](#).

Tentative Decision: We should utilize state specific farm only fertilizer stocks that are smoothed across time. ***Pending final votes from Delaware and Maryland**

Action: Tom Butler will follow-up offline with Clint Gill and Alisha Mulkey to get final votes for Delaware and Maryland, respectively, on the decision to use state specific farm only fertilizer stocks that are smoothed across time.

Action: If there are changes to the methods for determining acreage for managed hay and pasture in your jurisdiction and the method for allocating nutrient management (see slide 3 on the [LULR presentation](#)), please provide that feedback within the next two weeks.

Decision: The AMT was asked to provide their votes on the question to what extent do you agree with the following: We should adopt the following Land Use Loading Rate Ratios:

- i. Managed Pasture (High Application) =1.52
- ii. Managed Hay (High Application) =1.56

During the meeting, USDA-ARS, USDA-NRCS, and New York voted 2-hold, and Pennsylvania voted 1-stop, citing a request for additional time to discuss with others, Maryland has not voted on this item.

Action: Tom will follow-up with Maryland, New York, Pennsylvania, USDA-ARS, and USDA-NRCS to get final votes on the land use loading rate ratio decision.

Post Meeting Note: Following the meeting, Pennsylvania remained a 1-stop, and we are awaiting final votes from ARS, NRCS, Maryland, and New York.

Action: Since the group was unable to discuss BMP excess during the July main meeting, Jess Rigelman and Tom Butler will follow-up with AMT members with the presentation and questions to consider, prior to the August meeting.

Action: Tom and Dave will meet offline to determine next steps and see if an interim meeting should be scheduled to discuss BMP excess prior to the August AMT meeting.

Post Meeting Note: An interim meeting for members to discuss BMP excess was scheduled for July 24th, 2025.

Animal BMP Excess Meeting

Action: Please provide comments and feedback on the animal bmp excess questions (slide 13 of the [animal BMP excess slides](#)) via email to Tom Butler (Butler.Thomas01@epa.gov) within the next week.

Action: The AMT will continue to discuss animal BMP excess at the August meeting.

June 13, 2025 | [Meeting Materials](#)

Decision: The AMT approved the [May minutes](#).

Action: Tom will reach out to the state chemist points of contact, copying the respective AMT representative, to collect updated state data including fertilizer tonnage. Examples of data fields requested include: Year, State, FinalFIPsRepPeriod, FarmReal, RealTonsRealLbs, Nconc, Pconc, FarmNLbs, NonFarmNLbs, UnknownNLbs, FarmP205Lbs, NonFarmP205Lbs, and UnknownP205Lbs. Members are asked to provide any information they have on updated state fertilizer data to Tom (Butler.Thomas01@epa.gov) and Joseph (jdelesantro@chesapeakebay.net) by July 11th.

Action: AMT members are asked to provide feedback on potential methodologies for the processing and scale of inorganic fertilizer. Members with specific data requests or clarifications should reach out to Tom (Butler.Thomas01@epa.gov) and Joseph (jdelesantro@chesapeakebay.net) within the next two weeks.

Action: Tom and Jess will coordinate offline to confirm that fixation in CAST does not include non-leguminous fixation.

Offline: This was confirmed to be only fixation from leguminous crops.

Action: Members with additional information on the systems to animal units conversion as it relates to mortality composting should contact Jess (jrigelman@j7llc.com) or provide that information at the July meeting.

May 9, 2025 | [Meeting Materials](#)

Decision: The AMT approved the [April minutes](#).

Action: By 5/23, please provide feedback on the remaining topics you'd like to see added or prioritized ahead of the September model input deadline, as well as any input on increasing AMT meeting frequency. Please email this feedback to Zach Easton (zeaston@vt.edu), Tom Butler (butler.thomas01@epa.gov), and Caroline Kleis (Kleis.Caroline@epa.gov).

Decision: The AMT approved adopting the new statistical methods for determining crop yield trends for all crops that have nutrient application goals per production per acre (true yield units).

Action: AMT members are asked to provide feedback to Joseph Delesantro (jdelesantro@chesapeakebay.net), indicating their thoughts on pursuing the modeling of crop yield trends for the eight additional crops that are currently without true yield units.

Action: If you have additional questions or feedback regarding the ag land use mapping data, please contact Jackie Pickford (jpickford@chesapeakebay.net), Sarah McDonald (smcdonald@chesapeakebay.net), and Peter Claggett (Pclagget@chesapeakebay.net).

Action: If you have any questions regarding the inorganic fertilizer data, please reach out to Tom Butler (Butler.Thomas01@epa.gov).

Action: The group will continue to discuss inorganic fertilizer data at the June meeting.

Action: If you have additional feedback on the handling of animal systems excess or if you have specific counties of concern, please contact Tom Butler (Butler.Thomas01@epa.gov), Jess Rigelman (jrigelman@j7llc.com), and Joseph Delesantro (jdelesantro@chesapeakebay.net).

Action: The AMT will continue discussions on animal systems excess at a subsequent meeting.

April 11, 2025 | [Meeting Materials](#)

Decision: The AMT approved the [March minutes](#).

Decision: Both crops; Other haylage; grass silage and greenchop AND Other Dry Hay should have no nitrogen fixation associated with them.*

*Note: The mixture of species composing these crops may contain leguminous species, but expert opinion determined that there is no accurate way to parse out the percentage of crops from the mixture as reported by NASS which fix Nitrogen. Furthermore, the percentage of leguminous crops is likely a small proportion. Therefore, the group suggested the Nitrogen fixation rate should be zero since it does not affect N losses from this land use or the application of any other N sources to this land use. Note: not including N fixation makes cropland mass balance calculations inappropriate for these land uses.

Action: Tom and Joseph will compile data on CAST runs for the 11 major crops using the new method to determine crop yield trends and distribute this data to the group. Data requested to visualize state and county data with these new yields can be found at the following [link](#). Members are asked to review the requested data ahead of the May 9th meeting.

Action: Joseph will return at the May 9th meeting for decision on adopting the new statistical method for determining crop yield trends for the 11 major crops in Phase 7.

Action: Tom will follow up offline to continue discussions on the backfilling of fertilizer.

March 14, 2025 | [Meeting Materials](#)

Decision: The AMT approved the [February minutes](#)

Decision: Following a discussion on the 2022 Census of Agriculture form and the 2022 Census of Agriculture instructions, the group decided to not make a decision at this meeting on changing the land

use for other haylage; grass silage and greenchop to the leguminous hay land use. ***Further investigation is necessary.***

Action: Tom will work with James to compile information and return to a subsequent meeting to discuss the land use category and nitrogen fixation rates for other managed hay and other haylage; grass silage, and greenchop. An additional discussion will occur on nitrogen fixation rates overall and how it relates to our application.

Action: If you have any state contacts that might have concentration or volume information for poultry litter, please contact Chris Brosch (Chris.Brosch@delaware.gov), Tom Butler (Butler.Thomas01@epa.gov), Zach Easton (zeaston@vt.edu), and Caroline Kleis (Kleis.Caroline@epa.gov) with their contact information.

February 14, 2025 | [Meeting Materials](#)

Decision: The AMT approved the January 2025 [meeting minutes](#).

Decision: We will alter the Land Uses in CAST to represent Managed and Unmanaged Hay as well as Managed and Unmanaged Pasture.

Decision: We will modify the manure spread algorithm to create a fourth group and fill these groups as follows;

- a. Group 1: Grain with manure, Silage with manure, managed Other hay, managed pasture,
- b. Group 2: Small grains, double cropped, other crops, specialty high, specialty low,
- c. Group 3: Other Hay, Pasture,
- d. Group 4: Soybeans, Legume Hay.

Decision: The AMT approved the provided definitions for managed and unmanged hay and pasture for Phase 7.

Decision: The AMT approved the language that acres of managed hay and pasture will be reported by states by November 1st.

Decision: The AMT accepts the NM effects with a non nm multiplier of 1.2 for N and 1.5 for P for Phase 7.

Action: Please email Tom and Caroline if you would like to help with literature and science review for loading rate ratios.

Action: AMT members are encouraged to look at the reporting [methodology for urban data](#) and consider this methodology for our use.

January 10, 2025 | [Meeting Materials](#)

Decision: The AMT approved the [December 2024 minutes](#).

Tentative Decisions (*Both items are pending review by Delaware*):

- The group voiced support for altering the Land Uses in CAST to include Managed and Unmanaged Hay and Managed and Unmanaged Pasture.
- Members also supported the idea to modify the manure spread algorithm to create a fourth group.

Action: Tom will follow up with Delaware offline to gauge their level of support for going through with Virginia's proposal and the subsequent creation of two new land uses. (*Due to Avian Influenza outbreaks we have not been able to get the required responses as of 2/6/2025*).

Action: Tom will work to firm up a list of other decisions and information needed before proceeding with this proposal. Please send Tom any feedback on reporting acres, ratios, non-nutrient management factors, a definition for managed and unmanaged, and additional insights on fertilizer.

Action: Data requested to summarize the shifts in nutrient application can be found at the [following link](#).

December 13, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [November 2024 minutes](#).

Action: Candiss will work to get relevant aggregated NRI/CEAP data for the Chesapeake Bay watershed and distribute it to AMT group members.

Action: Tom will coordinate with Virginia representatives offline to gather the specifics of the proposed test of creating managed and unmanaged hay and pasture Land Uses in CAST.

November 8, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [October 2024 minutes](#).

Action: Follow-up offline to determine a time for the AMT to revisit the discussion on crop yields at a subsequent meeting

Action: The AMT will revisit agricultural inorganic fertilizer data in CAST at the December meeting. Please come prepared with any feedback on preferred methodology.

October 11, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [September 2024 meeting minutes](#)

Action: Tom will reach out, offline, to members not present and get their votes on using Plant Available Nitrogen to determine the acres of grains with manure.

Action: Tom will reach out to non-present voting members and to those who requested additional information, to get their votes on modifying the manure spread algorithm to create a fourth group by Friday, 10/18.

Action: Tom will reach out to members not present to get their votes on using the proposed statistical framework to determine long term crop yield trends.

Action: Tom will follow up with members over email and work to reach a consensus on the incorporation of poultry industry data sources into CAST nutrient calculations by Wednesday, 10/16.

Post Meeting Follow up:

Decision 1: Should the acres of Grains with Manure should be determined using Plant Available Nitrogen?

Passed by consensus- The new method will be employed for Phase 7.

Decision 2: Should the manure spread algorithm be modified to create a fourth group as shown in this presentation?

No consensus was reached - No change will occur from Phase 6 regarding the application curves for manure.

Decision 3: Should this new statistical framework be used to determine long term crop yield trends?

No decision was made – Data reviews are under way meaning the topic will be revisited in November.

Decision 4: Should new data sources from the poultry industry be incorporated into nutrients calculations in CAST?

No consensus was reached – There will not be an implementation of the proposed item. Data from Phase 6 will still be used.

September 13, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [August 2024 meeting minutes](#).

Action: Tom will reach out to states not present on the call as well as those who requested county-specific data. He will provide requested information necessary to facilitate decision-making on this topic at the next meeting.

Action: Please reach out to Joseph Delesantro (jdelesantro@chesapeakebay.net) and Tom Butler (Butler.thomas01@epa.gov), if you have additional feedback on or data requests for manure applications.

August 9, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [July 2024 meeting minutes](#).

Action: Submit remaining comments and feedback to Tom (Butler.Thomas01@epa.gov) regarding additional changes you want to test in CAST related to the PAN and manure application calculations and processes.

Action: Jurisdictions will evaluate whether they can provide on the ground application rates for counties from sources including but not limited to nutrient management plans.

July 12, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [June 2024 meeting minutes](#).

Action: Tom will work to clarify mineralization rates for the group.

Action: Tom will incorporate AMT feedback to further test modifications to the manure application curves used in CAST.

June 14, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [May 2024 meeting minutes](#)

Action: Provide comments and feedback to Tom (butler.thomas01@epa.gov) on the method of calculating the acres of grain, with and without manure, in CAST.

May 10, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [April minutes](#)

Sandbox Decision: The AMT will continue to use the Phase 6 agricultural land uses for the purposes of testing additional changes during the development of Phase 7.

April 12, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [March minutes](#)

Action: Ken Staver will write down and share with the group his proposed method for estimating split on grain with and without manure using what is known about plant available nitrogen per animal unit as opposed to animal units.

Action: Tom Butler will reach out to group members to inquire about and potential new data sources for informing the relationship between grain acres and manure applications.

March 08, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [February 2024 minutes](#).

Action: If you have additional feedback on annual yield estimates, please email Joseph Delesantro (jdelesantro@chesapeakebay.net).

Action: Email Tom Butler (butler.thomas01@epa.gov) with feedback on land use loading ratios by COB Friday, March 15th, focusing specifically on the [discussion questions for a path forward](#).

February 09, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [January 2024 meeting minutes](#) <https://d18lev1ok5leia.cloudfront.net/chesapeakebay/documents/AMT-Minutes-Dec-2023.pdf>.

Decision: The AMT agreed to evaluate changing the land uses for Phase 7 CAST. The specific land uses and associated loading rates have not yet been determined and will be further investigated at future AMT meetings.

Action: Email Tom Butler and Jess Rigelman (butler.thomas01@epa.gov; jrigelman@j7llc.com) by Friday, Feb 16th if you are interested in reviewing the CAST results data from the loading ratio tests.

January 12, 2024 | [Meeting Materials](#)

Decision: The AMT approved the [December 2023 meeting minutes](#).

Action: Provide feedback to Tom (butler.thomas01@epa.gov) on the time for Ag Modeling Team office hours (8 – 9 AM prior to our monthly meeting time).

Action: Tom Butler, EPA, will work with the CBPO & CAST team to address the following requests made from the group:

1. Continue providing updates on crop yields.
2. Distribute the data file specifying CAST inputs for livestock duration in different environments, as well as current manure generation and nutrient concentration values.
3. Discuss the possibility of in-person meetings with state representatives to streamline various data requests for CAST.
4. Provide updates on the impact of changing land use loading rates in CAST.

Action: Group members are asked to provide feedback on the following topics via email (butler.thomas01@epa.gov) or during the Feb 9 AMT meeting:

1. Which parameters we can use with existing data to improve the calculation of manure acres. Some questions include:
 - a. Has the relationship between animal units and manure acres changed?
 - b. Should we attempt to determine individual curves for different animal types?
 - c. Should we attempt to set these numbers with a relationship between the CAST animal units and manure acres?
 - d. Should we use plant available nitrogen (PAN) rather than total N to change this relationship?
2. Whether changes should be made to the existing livestock duration in different environments, manure generation, and nutrient concentration values.

December 8, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [November 2023 minutes](#).

Action: Tom Butler will work with the CBPO & CAST team to address the following requests made from the group:

- Presentation on how manure acres are calculated in CAST.
- A “primer” on land use loading rates/ratios, including topics such as:
 - Why loading rates exist
 - How loading rates and ratios interact within CAST
 - How we determine values for loading rates
 - Additional examination and discussion of the existing loading rate/ratio report
- Provide relevant resources to the topic of BMP “excess” (formerly known as “cutoff”) for interested parties.
- Continue providing updates on Crop Yields, including the results of the poll sent to AMT members.

November 9, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [October 2023 minutes](#).

Action: Please email Joseph Delesantro (jdelesantro@chesapeakebay.net) and Tom Butler (butler.thomas01@epa.gov) if you have any relevant crop yield data that can be used for crops with partial or no data. (See slide 8 of [linked presentation](#) for details.)

Action: VOTING MEMBERS ONLY: Please complete [this poll](#) by COB Wed, Nov 22, to provide feedback on which crops might share yield trends.

October 17, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [September minutes](#).

Action: As per group feedback, data analysts from the Bay Program Office will continue assessing relationships between annually reported crop yields and five-year crop yields from the census of agriculture. Updates will be given at a future meeting.

September 8, 2023 | [Meeting Materials](#)

Decision: The Ag Modeling Team approved the [August meeting minutes](#).

Action: Group members will compile a comprehensive list of crops with available yield data. These data will be used to further examine methods to calculate expected yields.

August 14, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [July meeting minutes](#).

Action: Look into replacing the current method of expected crop yield (best 3 of 5 for census + annual survey data) with the annual survey data to see if there is a major change.

July 14, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [June minutes](#).

Action: Identify information gaps for crop yields and acreage for counties across the watershed. Explore spatial interpolation options for filling those data gaps.

June 9, 2023 | [Meeting Materials](#)

Decision: The AMT approved the May meeting minutes.

Action: Tom Butler will consult CBPO technical staff on ways to spatially distribute crop yield trends. More discussion will occur at the July AMT meeting.

<https://www.chesapeakebay.net/what/event/agricultural-modeling-team-amt-meeting-june-2023>

May 12, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [April meeting minutes](#).

Action: Tom Butler will work to:

- Calculate the linear trend from historic yields data from both Ag Census and NASS survey for crops used in CAST.
- Examine which crops have irrigation data that can be used to calculate trends.
- Brainstorm ways:
 - To potentially incorporate soil productivity maps.
 - Potentially update N removal rates.

April 14, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [March meeting minutes](#).

Decision: The AMT informally agreed to remove timing and eligibility requirements for subsequent CAST testing runs.

Action: Tom Butler will work to provide:

1. Documentation for the yield goal calculation used by the CBPO.
2. A graphical depiction of the different data sets before and after data processing for the yield goal calculation.
3. For specialty crop low and high percentage of
 - a. Load contributed relative to the overall watershed loads.
 - b. Land covered over the watershed.
4. A visualization across the entire watershed of where fertilizer shifts.
5. Any analyses or perspectives on which topics may have more weight in terms of importance to CAST.
6. A background presentation discussing the groups next focus topic, Re-evaluating Land Uses.

March 13, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [February meeting minutes](#).

Action: Tom Butler will work with Jess Rigelman to develop scenarios for the AMT April meeting, including aspects such as moving around land uses, aggregating nutrient management multipliers, and revisiting the eligibility and/or timing components of nutrient management.

Post meeting update, after discussing several possible scenarios with group members two scenarios were agreed upon:

1. Make all manure eligible crops on manure eligible land uses 100% eligible for manure applications and remove the timing component to create a single annual average application.
2. Make all grains and silage land uses eligible to receive manure applications

February 10, 2023 | [Meeting Materials](#)

Decision: The AMT approved the [January 2023 meeting minutes](#).

Action: VOTING MEMBERS - please fill out this survey to prioritize discussion topics and decisional items that the Ag Modeling Team will address. The AMT leadership will compile the results of this survey to develop a workplan for the group. (Note: this workplan will be a living document and is subject to change as the group progresses).

January 13, 2023 | Meeting Materials

Decision: The AMT approved the [December 2023 meeting minutes](#).

Action: If members are interested in viewing the county raw data used in the CAST presentation, please contact Tom Butler (butler.thomas@epa.gov).

December 9, 2022 | [Meeting Materials](#)

Decision: The AMT approved the [November 2022 meeting minutes](#).

Action: If members are interested in viewing the county raw data used in the CAST presentation, please contact Tom Butler (butler.thomas@epa.gov).

November 1-2, 2022 | Meeting Materials [Day 1](#) & [Day 2](#)

Action: VOTING MEMBERS ONLY: Please complete the following poll by COB Wednesday, November 23rd to determine the prioritization of topics for the AMT: <https://www.surveymonkey.com/r/6NMTRYV>.
Please note: This will be used as an initial "temperature check" to determine the AMT's general timeline and schedule, however, this is not a comprehensive list of topics that the group will be discussing.

Action: Please complete the following poll by COB Tuesday, November 15th to determine a monthly meeting time for the AMT (two-hour meetings/month): <https://forms.gle/rtu3xHHnKiexYne9>.

