



Chesapeake Bay Program Office

Manure Management Manual (MMM) Manure Management Plan (MMP) Guidance (361-0300-002) Revision Process

Agriculture Advisory Board

March 18, 2021

Agenda

LAND APPLICATION OF MANURE

A supplement to Manure Management for Environmental Protection

Manure Management Plan Guidance

361-0300-002



- Progress to date
- Next steps and proposed timeline
- Request continued engagement from AAB

MMM Revision Process To Date

Manure Management
Plan Guidance

Effective Date

October 29, 2011

Survey - Evaluation and
Revision Needs
Assessment

Responses Received

**October 29, 2018 to
November 30, 2018**

Survey Results
Reported AAB
Meeting

December 20, 2018

Manure & Nutrient
Management Planning
Technical Team
(MNPTT)

Convened

**October 17, 2019 to
August 5, 2020**

MNPTT
Recommendations
Shared AAB Meeting
August 27, 2020

Manure Management Plan Guidance

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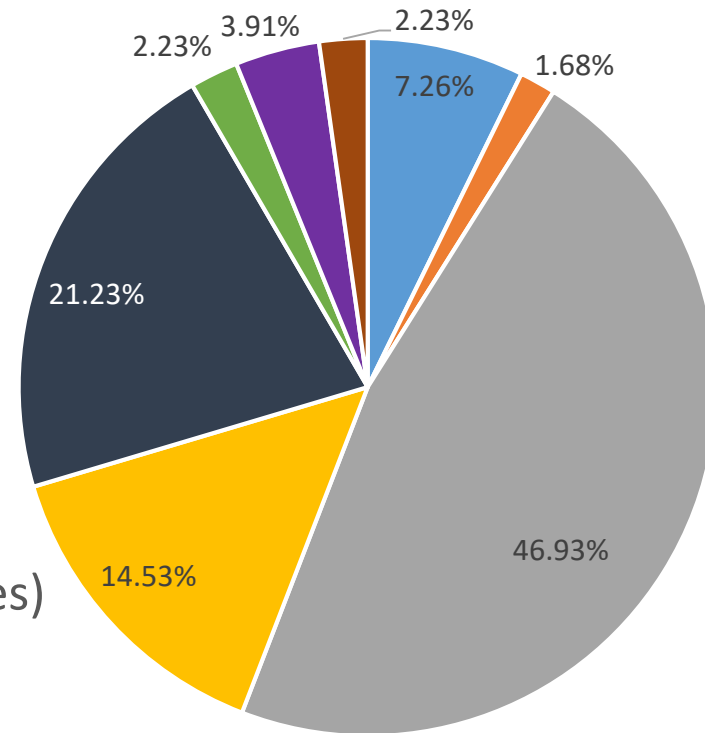
- Effective Date: October 29, 2011
- Meets the planning requirements for land application of manure and agriculture process wastewater under Chapter 91.36(b)
 - Does not apply to CAOs or CAFOs
 - Applicable to all other operations that generate or apply manure or agricultural process wastewater.

Manure Management Manual (MMM) Evaluation and Revision Needs Assessment

- Responses received: October 29, 2018 to November 30, 2018
- 156 respondents

Respondent's Current Occupation

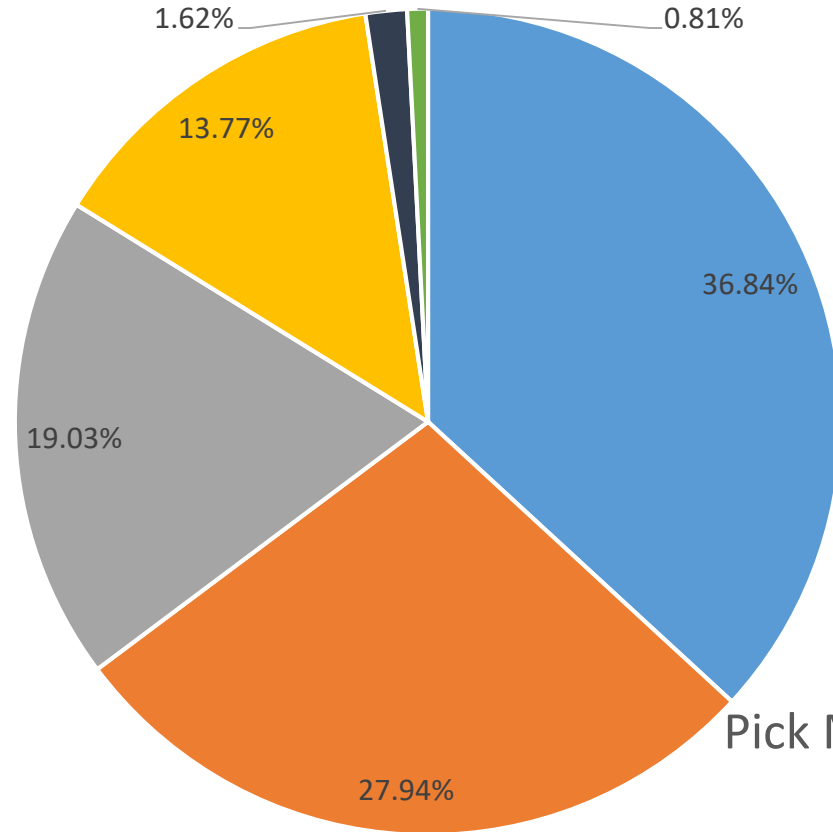
Pick Multiple (179 total responses)



- State Agency
- County Conservation District
- Certified Commercial NM Specialist
- Hauler/Broker

- Federal Agency
- Farmer
- PSU
- Other

Manure Management Manual (MMM) Evaluation and Revision Needs Assessment



Respondent's Professional Interaction
with the Manure Management Manual

■ Planner ■ Verifier ■ BMP Designer/Engineer ■ Implementer (Owner/Operator) ■ Hauler/Broker ■ Other

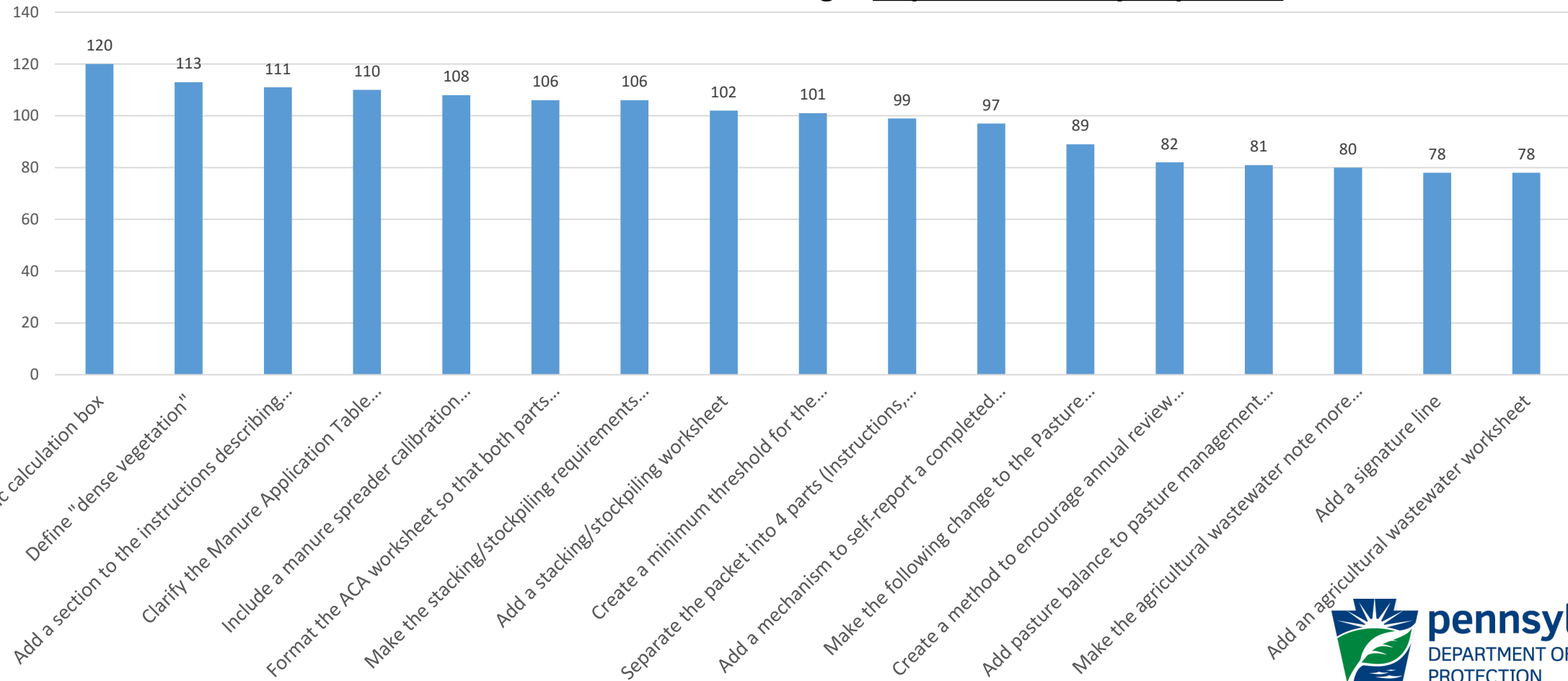
Manure Management Manual (MMM) Evaluation and Revision Needs Assessment

5. Please rate the importance of the following revisions to the MMM:

	Not at all important	Slightly Important	Important	Fairly Important	Very Important
Separate the packet into 4 parts (Instructions, Plan, Record-keeping forms, Charts)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create a minimum threshold for the requirement to complete the MMP. Example: 8 AEU's and no ACAs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Define "dense vegetation"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Add a signature line	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Move date of development to a more visible location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Manure Management Manual (MMM) Evaluation and Revision Needs Assessment

- 136 of 156 respondents believe that revisions to the MMM are needed.
- Of those 136 over half believed that the following is **Important to Very Important**



Manure and Nutrient Planning Technical Team (MNPTT)

- In June and July 2019, the SCC and DEP met with stakeholders to discuss several topics related to NM, MM, and CAFO programs
- Technical team with five subcommittees assembled from October 17, 2019 to August 5, 2020 to discuss potential NM, MM, and CAFO planning standards revisions.
- MNPTT Members
 - Owners/operators,
 - Public and private plan writers,
 - MMP Verifiers / NMP Reviewers
 - State and federal agencies
 - CCDs
 - Penn State
 - Industry

Manure and Nutrient Planning Technical Team (MNPTT)

MMM Revision Subcommittee

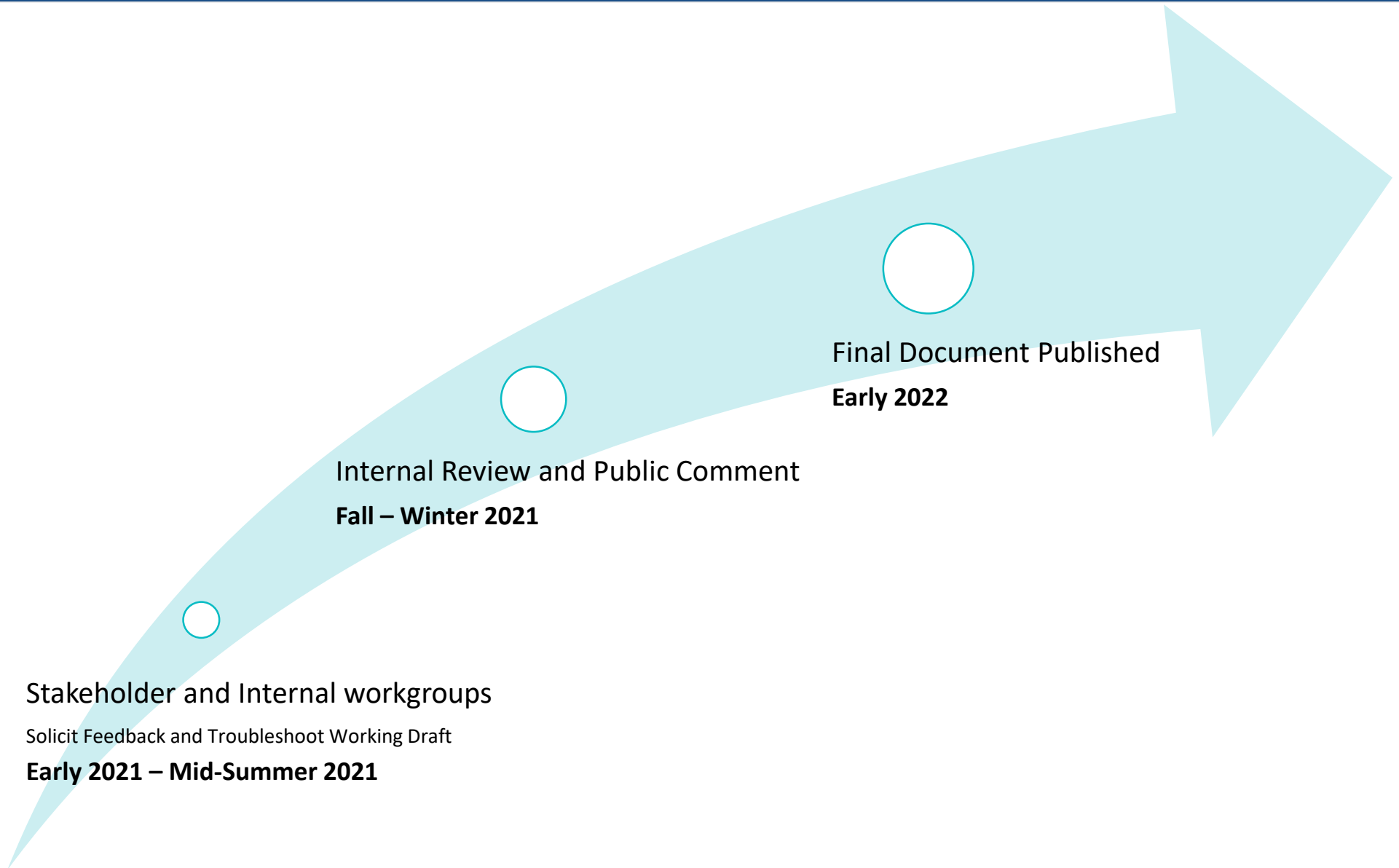
- MMM Revision Subcommittee Members
 - MMP Verifiers / NMP Reviewers
 - State and federal agencies
 - Penn State
 - Industry
- Met twice and discussed
 - Trends from the Manure Management Manual (MMM) Evaluation and Revision Needs Assessment
 - Any additional comments from members of the MNPTT and relevant stakeholders
- Made recommendations to the MNPTT for final determinations and next steps.

Manure and Nutrient Planning Technical Team (MNPTT)

MMM Recommendations

- Form a workgroup to solicit feedback and troubleshoot the following:
 - Standard DEP plan for very small operations that meet a set of criteria
 - Manure generation calculation
 - Concentrated Animal Operation (CAO) calculation
 - Manure spreader calibration Worksheet
 - Pasture balance and Best Management Practices (BMPs) on pasture management worksheet
 - Agricultural wastewater Worksheet
 - Summary of soil samples for N-based plans

MMM Revision Process Next Steps



Stakeholder and Internal Workgroups

Early 2021 to Mid-Summer 2021

- Internal Workgroup
 - CCD, DEP, SCC, and end users
 - Solicit feedback and troubleshoot working drafts
- Stakeholder Workgroup
 - AAB Membership Workgroup
 - Offer feedback and troubleshoot working drafts
 - 4-6 virtual meetings, maximum 1.5 hours per meeting
 - Early spring to mid-summer
 - Review and comment on working drafts

Stakeholder Workgroup

Early 2021 to Mid-Summer 2021

Request for AAB Representation
4-5 Members
Stakeholder Workgroup

Summary

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- Thank you for your continued engagement in this process!
- Progress to date
- Next steps and proposed timeline



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION



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