

DATE: 04-08-03 (original e-mail message)

The standards 590 Nutrient Management and 633 Waste Utilization have been revised to address terminology used in the standards and the need to address problems with liquid manure applications and manure application on frozen and snow covered fields.

The revisions are now on the Ohio e-FOTG website.

The revisions involved several meetings with our conservation partners as well as the Ohio Department of Agriculture, Ohio EPA, USEPA, the Ohio Livestock Coalition, and the State Technical Committee.

Each DC and nutrient planner in the field office should carefully read and study both standards and begin using the new standards in their planning.

The criteria changes are being incorporated into the CNMP document maker within the Purdue MMP software and the SNMP for setback distances. It is hoped these changes will appear within the next month in the MMP and SNMP software.

The following highlights the parts of the standards where revisions have been made:

Revisions to the Nutrient Management (590) Standard June 2003:

1. Criteria that applies to all purposes - Item 8, page 2; added more definitive criteria to meet sheet, rill, ephemeral, and gully erosion.
2. Additional criteria applicable for manure or organic by-products applied as a plant nutrient - Item 1a, page 4; added a reference to Standard 633 regarding capturing liquid manure tile discharge.
3. Additional criteria applicable for manure or organic by-products applied as a plant nutrient - Item 1c(2), page 4; added the limit of 150 lbs/ac as a maximum nitrogen application for legume crops.
4. Additional criteria to minimize non-point source pollution of surface and ground water resources - Item 3a, page 5; added reference to the 150 lbs/ac of nitrogen for legume crops and added the reference to Table 4 - Determining The Most Limiting Manure Application Rates found in the Ohio Standard Waste Utilization (633).
5. Additional criteria to minimize non-point source pollution of surface and ground water resources - Item 3b, page 6; the reference to coarse textured soils and fine to medium textured soils was deleted. The new criteria simply refers to fields that are "High Nitrogen Leaching Potential".
6. Considerations - Item 3i, page 7; added the consideration: If fields have a history of liquid manure entering the subsurface drainage system, the subsurface drainage outlets should be closed or plugged prior to application.
7. Considerations - Item 14, page 8; added oats as a cover crop example.

8. Plans and Specifications - Item 1, page 8; Identified that the Purdue MMP and document maker is the official software and plan format for all CNMPs in Ohio and where other formats are available for commercial fertilizer only plans.
9. Nutrient Management Software - page 11; listed websites for the nutrient planning software.
10. Table 1 - page 12; revised the footnotes to delete reference to coarse and medium fine textured soils and referred to high nitrogen leaching soils.

Revisions to the Waste Utilization (633) Standard June 2003:

1. Additional criteria to protect water quality - Item 2, page 2; added the reference to Section II of the Ohio eFOTG for information on frequently flooded soils.
2. Additional criteria to protect water quality - Item 3, page 2; added the reference to the new Table 4 Determining The Most Limiting Manure Application Rates.
3. Additional criteria to protect water quality - Item 4, page 3; a major revision for the criteria to apply liquid manure on tile drained fields.
4. Additional criteria to protect water quality - Item 5, page 3; major addition of criteria to apply manure on "surface drained fields".
5. Additional criteria to protect water quality - Item 7, page 4; major addition of criteria to apply manure on "frozen and snow covered soil".
6. Additional criteria to protect water quality - Minimum setbacks; major revisions to all setbacks distances and footnotes where made. A new Table 5 - Ohio Department of Agriculture Setbacks was added to serve as a quick reference for setback distances that must be used for permitted operations.
7. Considerations - Item 6g(3), page 7; added the use of "pulse irrigation technology" as a consideration.
8. Considerations - Item 8, page 7; added more information about considerations for injection of manure.
9. Consideration - Item 9, page 7; new consideration to address liquid manure entering tile drains.
10. Considerations - Item 10, page 7; new consideration for stock piling manure.
11. Considerations - Item 17, page 7; revised the reference from OEPA policy to EPA CAFO rules.
12. Plans and Specifications - page 8; Added additional references for NRCS official plan formats and software.
13. Operation and Maintenance - Item 1j, page 8; added criteria to monitor fields for runoff and tile discharge.
14. Tables - page 9; added Table 4 Determining The Most Limiting Manure Application Rates.
15. Table 1 - page 10; the table has been revised to show gallons per acre for only the AWC in the 0-8 inch layer of soil. The 0-24 inch volume was deleted because that volume would create runoff situations.

16. Table 4 - page 13 and 14; this is a new table to serve as a reference to determine the most limiting factor to on application rates- Part I is for tilled fields and Part II is for non tilled fields.
17. Fertilizer and Manure Application Record - page 15; added a column for acres applied.
18. Table 5 - page 16; Added the Ohio Department of Agriculture setback distances for permitted facilities. These are the setbacks that are to be planned if the manure is coming from a permitted facility.

Filing Instructions.

SECTION IV FOTG:

Remove any printed Nutrient Management (590) and Waste Utilization Standards (633) that you may have in your "practice thunder books" and save them where you keep copies of any old standards. Copies of the old standards are also maintained in the State Office.

Go to the Ohio e-FOTG site and print a copy of each standard, review it, and discuss with your staff.