

Manure Management III, Developing a Manure Management Plan

Manure Application Planning is a complex process of determining how to most economically distribute manure from a livestock operation on cropland while protecting the environment. This workshop is the third in a four-part comprehensive educational program on manure management and is the result of a collaborative effort by the University of Minnesota, the University of Minnesota Extension Service, the Minnesota Pollution Control Agency, the Minnesota Natural Resource Conservation Service, the Department of Agriculture, and the Minnesota County Feedlot Officers Association.



This third workshop in the series will provide detailed instruction on developing a manure application plan. This course will provide experience integrating the knowledge gained in the first and second workshops in the series with other regulatory requirements and the practical considerations found in the field implementation of the plan.

Upon completion of Manure Management III the participants will

- Understand the difference between manure management plans (MMP), nutrient management plans (NMP), and comprehensive nutrient management plans (CNMP);
- Understand the critical aspects of manure management planning;
- Be able to complete a manure management plan that meets MPCA requirements;
- Have some understanding of the tools available to help write a manure application plan;
- Have an understanding of the issues regarding the field implementation of manure management plans.

Who Should Attend:

This workshop series is designed specifically for consultants and technical staff involved in the writing or review of manure management plans. Farmers intending to write their own manure plans are also encouraged to attend any or all of this series. The three workshops in this series build on each other. This is the third of the workshop series.

Course Instructors:

Kevin Blanchet, Manure management Specialist, University of Minnesota Extension Service
David Wall, Senior Hydrologist, Minnesota Pollution Control Agency
Robert Koehler, University of Minnesota Southwest Research and Outreach Center

**To register: <http://www.manure.umn.edu/workshops>
or call 1-800-646-2282**

Detailed Course Agenda

MMP III, Developing a Manure Management Plan

- I. What is required in Different Types of Plans and When Required**
 - a. MPCA manure management plan (MMP)
 - b. CAFO nutrient management plan (NMP)
 - c. NRCS comprehensive nutrient management plan (CNMP)

- II. Writing the Manure Management Plan (MMP)**
 - a. Minimum information needed from producer to write a plan
 - b. Matching available manure with available fields (balancing supply and demand)
 - c. Selecting the fields and rotations for manure application
 - d. Dealing with sensitive areas and high phosphorus soils
 - e. Selecting rates and frequencies of application for different crop rotation scenarios

- III. Keeping Records of Manure Application**
 - a. Minimum record keeping requirements – CAFOs and AFOs
 - b. Benefits of keeping records
 - c. Field based, Farm based, Transfer Ownership records
 - d. Methods of keeping records, available forms and checklists

- IV. Manure Economics**
 - a. Soil compaction
 - b. Economics of land application
 - c. The practical side of land application

- V. Available Tools for Developing Manure Management Plans**
 - a. Non-software based planning
 - b. Use of computer software

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