

Differences with NRCS requirements

The Natural Resources Conservation Service requires a nutrient/manure management plan for all facilities receiving any kind of NRCS cost-share assistance, even if the project does not involve construction of a manure storage structure. These plans are very similar to the state 7020 rule manure management plan. The primary differences between MPCA and NRCS requirements are:

- MPCA does not require information on fields that receive only commercial fertilizer and never receive manure. However the spreadsheet can include these fields, as required by the NRCS;
- MPCA does not require potassium information. However, the spreadsheet has a tab for assessing potassium needs and additions, as required by the NRCS;
- NRCS requires more information about soil and water conservation practices; MPCA requires this information only for NPDES-permitted sites;
- NRCS addresses safety; MPCA does not.
- NRCS requires information on certain “sensitive” features that are not required by the MPCA (such as high water table soils, grassed waterways, ephemeral erosion gullies).

There are a few other minor differences, as noted in the NRCS publication, “Components of a Nutrient Management Plan in Minnesota, available on the Web at <http://www.mn.nrcs.usda.gov/technical/ecs/nutrient/planning/2003CompNMP.pdf>. An NRCS nutrient/manure management plan, if done correctly, should meet or exceed all state 7020 rule requirements.

Other publications on the MPCA Manure and Nutrient Management Web page

“Manure Management Plan – A step-by-step guide for Minnesota feedlot operators” – A 30-page how-to booklet with worksheets.

“Applying Manure in Sensitive Areas” – A guide to state rule requirements and recommended practices for manure application to protect water quality.

“Manure Management Plan Requirements and Checklist”

“Land Application of Manure: Minimum State Requirements”

Other Web sites

- [Manure Education, Research, and Applied Information — University of Minnesota](http://www.manure.umn.edu)
www.manure.umn.edu
- [Manure and nutrient management guidelines — University of Minnesota](http://www.manure.umn.edu/applied/application)
www.manure.umn.edu/applied/application
- [University of Minnesota Extension— Livestock Manure Sampling](http://www.extension.umn.edu/distribution/cropsystems/DC6423)
www.extension.umn.edu/distribution/cropsystems/DC6423
- [Commercial Animal Waste Technician Licensing – Minnesota Department of Agriculture](http://www2.mda.state.mn.us/webapp/lis)
www2.mda.state.mn.us/webapp/lis
- [Manure Nutrient Management – Minnesota NRCS](http://www.mn.nrcs.usda.gov/technical/ecs/nutrient/nutrient)
www.mn.nrcs.usda.gov/technical/ecs/nutrient/nutrient

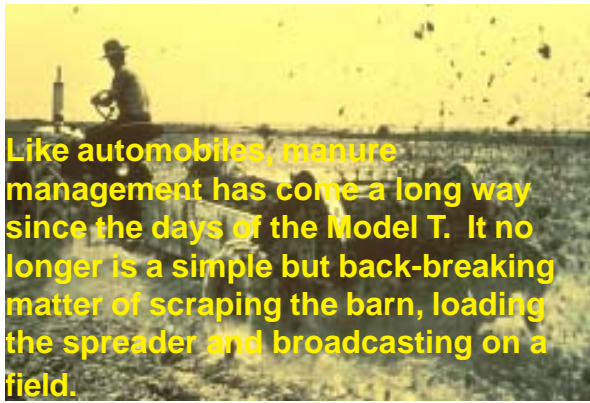


Manure Management Planner Spreadsheet

A tool for developing a Manure Management Plan that values the benefits of livestock manure and meets Minnesota 7020 feedlot rule requirements



**Minnesota Pollution
Control Agency**



Like automobiles, manure management has come a long way since the days of the Model T. It no longer is a simple but back-breaking matter of scraping the barn, loading the spreader and broadcasting on a field.

Today livestock manure in all its forms must be tested for nutrient content and land-applied according to crop needs. Setbacks must be followed to prevent manure-contaminated runoff into lakes, streams and wetlands. Manure is too valuable to waste or use inefficiently.

Meets state 7020 rule

The Manure Management Plan computer spreadsheet developed by the MPCA offers an efficient, useful tool for developing a MMP that values the benefits of manure and meets state requirements (Minn. Rule ch. 7020.2225). Other computer programs and tools also are acceptable to develop an MMP. To find out more information about who needs a MMP, what must be included, requirements for manure ownership transfer, and other forms and/or programs for MMP development, go to MPCA's [Nutrient and Manure Management](http://www.pca.state.mn.us/hot/feedlot-management) Web page at: www.pca.state.mn.us/hot/feedlot-management

How to use the MMP spreadsheet

1. Identify all manure source information under the "Manure Source Info" tab (worksheet).
2. For each field receiving manure identify all field information under the "Field Info" tab (worksheet).
3. If sensitive features are identified within the "Field Info" tab (worksheet) then select the management practice that will be followed in the "Sensitive Areas Management" tab (worksheet).
4. If high phosphorus soils are identified within the "Field Info" tab (worksheet) then select the management practice that will be followed in the "High P Soil Management" tab (worksheet).
5. Complete the "Field Specific Land Application" tab (worksheet) by entering the necessary information in the cells. Note: The information in this tab will automatically be entered in the "Record Keeping Form" tab. To complete the record keeping requirements indicate the dates of application and make any necessary changes to reflect the actual manure application.

A complete MMP will consist of printing the five worksheets noted above and attaching aerial photographs or maps that identify the fields that will be receiving manure along with the sensitive areas within each field. For convenience a button has been created on the custom toolbar that will print off the sheets required by the MPCA.

All cells highlighted in gray are automatically calculated based on University of Minnesota recommendations. You may change these values; however, if you want to restore the automatic calculations you must click the button at the end of the row, or clear the entire sheet using the appropriate button.

"Help" text boxes are available throughout the spreadsheet that explain what information is required for a particular item by clicking on the ? boxes.

After completing your MMP be sure to either print and/or save a copy of the information entered.

Additional Worksheets and Tables

- Minimum acres calculator.
- Economic value of manure applied to cropland.
- Potassium management worksheet.

Contact us

If you discover errors in the spreadsheet please report them to George Schwint, MPCA feedlot engineer, 320-214-3793, george.schwint@pca.state.mn.us. Check the [MPCA feedlot program Web page](http://www.pca.state.mn.us/hot/feedlots) at www.pca.state.mn.us/hot/feedlots periodically to learn if any updates to the spreadsheet have been made since you last downloaded a copy.