

README file: Instructions
CNMP Technical Tools. Michigan NRCS eFOTG, Section IV

What follows are brief instructions for using these files.

1. Ag Waste Management Software. The new version is 2.1. The folder is actually a link to the Water Climate Center in Portland, Oregon. At this link users can download the install file somewhere on the computer, but an administrator should install the software on the C drive, Program Files, USDA directory. The climate file is a direct download from the eFOTG web site; install it in the same location as the AWM Program file. The third file is PDF users guide that is well written and helpful for users with questions. We use this software for addressing rainwater contributions on the headquarter site, describing the flowpath of both manure and water into storage, and in the design of either solid or liquid storage structures based upon desired length of storage by month. One significant improvement is the addition of an annual volume report page, which provides users accurate volume data for Manure Management Planning (MMP). These volumes, once placed in MMP, override the MMP book volume calculations which do not account for rainwater management on the headquarter site.
2. Fertilizer Recommendation Spreadsheet. There are two files in this folder. The Excel spreadsheet is a simple fertilizer calculator developed by MSU Crops and Soils Department. Users select the crop, then input soil test results, expected crop yield, and nitrogen carryover. We do not use this sheet for planning manure applications as part of a crop budget. But it is handy for quick use of fields receiving fertilizers once the soil test values are known. The data source is MSUE 2904, the new Nutrient Recommendations for Field Crops publications. The PDF of this document is the second file in this folder.
3. Manure Management Planner. Users should remove old versions on their computers and install the newest version: 0.1.9.7. Clicking on the set up Manure Management Planner file will bring up the download box. Users may download this file anywhere on their computer, but have the administrator install the file in the on the C drive, Program Files, USDA Directory. Users must download the Michigan MMP Template zip file, and then unzip it in the Custom folder of MMP. This step (unzipping) is done only after MMP is installed, and must be placed in this Custom directory. The template, once run, converts MMP output into a Word document of tables only or tables and suggested text. Users can write farm specific text for these tables, which becomes the body of the CNMP.
4. MARI Spreadsheet. The Manure Application Risk Index spreadsheet is an Excel file, which can be downloaded anywhere on your computer and used. Users should download the file instead of opening it at the MI NRCS Web site.
5. Nutrient Balance Spreadsheets. There are two Excel files in this folder. The Michigan Farm Nutrient Balance Sheet is used for strategic planning. Users define the animal specie, herd composition, and animal weight's by category, then define the entire farm crop program by crop type and crop yield. Default values for animal manure are MWPS 18 Section 1, Table 6 (copyright 2000). Default values for crops are taken from MSUE2904 (above). This sheet has just been upgraded to reflect current book values for both manure and crop nutrient concentrations. The Ration Sheet is a simple one page document users should use when herd ration knowledge of dietary or ration phosphorus is known. This spreadsheet calculates the annual P mass produced on a farm, given ration P concentration, animal type, and animal productivity. This sheet can be used for all livestock species, but only once the landowner has provided the ration P concentration. Units are converted to phosphate (P₂O₅) for agronomic work from the elemental P unit used in animal rations.

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January 2005