

# MontFARM - Montana Feedlot Annualized Runoff Model

## Fact Sheet

December 2011

## Natural Resources Conservation Service

### *A Water Quality Assessment Tool*

#### Who Is MontFARM For?

MontFARM is for small and medium open lot animal feeding operations. Its user friendly input/output format can be used by specialists, consultants, agency officials, as well as owners and operators.



#### What Is MontFARM?

MontFARM is an assessment tool used to evaluate the pollution hazard of an open lot animal feeding operation. It is science-based, objective, and easy to use.

#### When Can MontFARM Be Used?

Version 1.2 is available now! It is a Montana-adapted version of MinnFARM, a university-supported spreadsheet tool, used successfully in Minnesota to assess animal feeding operations.

#### Where Can MontFARM Be Found?

MontFARM is an Excel-based spreadsheet which can be downloaded from the NRCS Montana Web site: [www.mt.usda.nrcs.gov](http://www.mt.usda.nrcs.gov). Search on the word MontFARM and find:

- MontFARM.xlsm (3.1 MB)
- User's Guide.pdf (516 KB)

#### Why is MontFARM Needed?

- Owners and operators need an objective, easy-to-use, method to assess the risk their facility poses to water quality.
- Natural resource planners, specialists, and consultants need a science-based, computational tool to evaluate the effect of various Best Management Practices.
- Government agencies with limited funds and resources need a ranking tool with which to prioritize technical and financial services.

#### How Is MontFARM Used?

MontFARM estimates annual pollutant loading for common nutrient and organic measures. The annual pollutant load is converted to a severity index on a scale of 0 (extremely low risk) to 100 (extremely high risk). Input data required include:

- Corral management information
- Land use characteristics above and below the lot area
- The nearest type of and distance to receiving water
- Lot size, roof area

MODEL INPUTS		MODEL RESULTS FOR: Montana Feedlot																																															
Farm Name: Montana Feedlot		Site Summary																																															
Address or other information: Montana		<table border="1"> <thead> <tr> <th>Lot Area</th> <th>Sub 1</th> <th>Sub 2</th> <th>Sub 3</th> <th>Sub 4</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td>4.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>acres</td> </tr> <tr> <td>Min Annual Density</td> <td>697</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>sq/ft/yr</td> </tr> <tr> <td>Max Annual Density</td> <td>697</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>sq/ft/yr</td> </tr> </tbody> </table>		Lot Area	Sub 1	Sub 2	Sub 3	Sub 4	Units	4.0	0.0	0.0	0.0	0.0	acres	Min Annual Density	697	NA	NA	NA	sq/ft/yr	Max Annual Density	697	NA	NA	NA	sq/ft/yr																						
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Phone: _____		Total Feedlot Area: 4.0 acres																																															
County: Dawson		Roof Area: 0.10 acres																																															
Soil Survey: Silverbow Jefferson Be		Total Area 2: 3.90 acres																																															
Weather Station: Glendive		Total Buffer Area: 19.97 acres																																															
Sublot 1: Feedlot area: 4 acres		Total Area 3: 0.00 acres																																															
Type of Animal: Beef Animal		Feedlot Area to Buffer Area Ratio: 13.24																																															
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