MICHIGAN STATE UNIVERSITY EXTENSION

Three-Fold Manure Management Data Collection Sheet

Draw a map of the existing farmstead. Include all barns, feed lot areas, feed storage, manure collection locations, manure storage systems, wells (in use and abandoned), pesticide storage, fuels storage, shut off for utilities, emergency equipment, adjacent roads, contiguous surface waters, houses, and other relevant physical features. Indicate North arrow and surface slope around barn areas.

Animal Group ID	Animal type	Ave. Wt. Lbs.	Average Number at one time	Bedding type, amount	Adjusted Amount for wash water, etc.

Overview: Basic description of the farm enterprise. Goals, long term resource management. Ex: number of animals, number milked, farrow to finish, how majority of manure is handled, injected, daily haul, total acres, rented, tillage, etc.

Other Sources of Nutrients: amount, frequency, where would runoff go and how is it handled.	
Source	**Comments**
Silage bunker	
Feed bunks	
Spoiled feed	
Wash water	
Water systems	
Manure additives	
Feed inputs	
Phytase	
Other	

Total quantity of manure produced annually. Site Source no. of head x quantity/day x days/yr.	**Calculate the annual nutrients produced by manure.** Use manure tests or book values. Site source. Total N	Total P_2O_5	Total K_20
Total Quantity/year=	Total lbs. N/yr =	Total lbs. P_2O_5/yr.=	Total lbs. K_2O/yr.=

Describe manure hauling, land application methods, winter spreading and incorporation.
Calculate manure application rate per acre for each spreader:
Width of manure application in feet = x distance traveled in feet = ÷ 43,560 sq.ft./A = of an acre.
Weigh or estimate volume of manure that was applied and divide by the amount of an acre covered = rate per acre.
Estimate or use manure tests to calculate the amount of N-P_2O_5-K_2O applied per acre from the above application rate.
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Storage ID	Type of storage age/specs.	Dimensions	Potential volume (7.48 gallons times cu.ft. = total gallons)	Days of storage	Collection & Transfer to Storage method, frequency, location, hauling method, incorporated, rates/acre

Describe your plan for maintaining freeboard, preventing pit overflows, maintain earthen berms and emergency planning.

Have manure storage systems been inspected lately, when empty, to assess integrity of the structure?

Do you have records of manure applications? (Number of loads, source of manure, fields applied, dates, etc.)

List county, township and section numbers farmed.	**To do list:**
Pick up new map pages of each section that you farm at the FSA office. Draw in the field boundaries and identify them by field names that correlate to your soil tests. Also pick up soil maps at the SCD office for the same sections.	

Indicate your cropping plan for the coming year. Include cover crops, double crops etc. *Use the crop removal tables in the Generally Accepted Ag and Mgt. Practices for Manure Management and Utilization for the N, P_2O_5 and K_2O columns. If the same crop has two different yield goals, such as irrigated and non-irrigated, list them separately as yield goal impacts the crop removal rates.

Crop Plan for 200_	Number of Acres	Yield Potential	*N Crop Removal	Total N Removal (A. x yield x crop removal)	*P_2O_5 Crop Removal	Total P_2O_5 Removal (A. x yield x crop removal)	*K_2O Crop Removal	Total K_2O Removal (A. x yield x crop removal)
Totals:	Total Acres			Total N removal		Total P_2O_5 removal		Total K_2O removal

Describe your current fertilizer practices on each crop (rate, timing, analysis, method applied). Indicate any differences in fertilizer applied on manured fields and non-manured fields.

Describe how veterinary wastes are disposed of.

Describe how dead animals are taken care of and in what time frame.

This form was developed to assist producers in compiling information for manure nutrient planning. Filling this out does not constitute a Comprehensive Nutrient Management Plan (CNMP). Developed for educational purposes only by N. Rector, MSU Extension Agent, September 2001.

Field ID/sub ID	**Acres**	**Next crop**	**Bray P1 soil test level** (ppm or lbs/a.)	**Yield potential**	**Soil Type** (see county soil survey)	**Tillage**	**Comments:** Surface waters, ditches, inlets, drained, irrigated, cover crops, buffers, abandon wells, suitability for winter spreading.
If you have a large amount of fields with soil tests, it may be more efficient to type them directly into a computer program, rather than listing them here. Total up the acres available by phosphorus levels as indicated below.							
Total acres less than 150#/A Bray P1 =							
Total acres 150-299#/A Bray P1=							
Total acres over 300#/A Bray P1 =							