12 Step CNMP Inventory Sheet (Full Version)

Development of a Comprehensive Nutrient Management Plan (CNMP) requires an inventory of individual farm information related to:

- manure handling and storage
- land application of manure
- land management practices that influence nutrient runoff and leaching
- management of dead animals
- feed management
- soil and manure testing

This information is necessary in order to determine manure nutrient content, as well as to identify practices that may be needed to solve potential pollution problems. The following sheets provide a format for farmers and ranchers to gather and record inventory information on their farms. This information is necessary in order to develop a CNMP. If it is not clear what information is needed or how to gather the information, help is available from the Natural Resources Conservation Service (NRCS), County Extension Agent, Soil Conservation District, producer association, or a private consultant.

The **plot drawing** should show the general outline of the feedlot or facility where the animals are confined. It should also show buildings such as feed storage areas and housing areas, storage structures, and ditches or other waterways that run through or are adjacent to the facility. If necessary an additional sheet should be used. Lot size in square feet is calculated by multiplying the length and the width in feet of the lot. Where more than one feedlot or facility exists on the individual farm or ranch, information should be provided for each one. Aerial maps may be obtained from you local Farm Service Agency.

Soil and manure testing are two very important components of the inventory gathering process. Contact the County Extension Agent or NRCS for help in taking soil and manure tests. Initially, soil tests should be taken on every field. The soil test should be taken for soil phosphorus levels only, unless manure will be applied to an annual crop, When manure is to be applied to an annual crop, the soil test should include a test for soil nitrogen level as well as phosphorus. Manure tests should be taken separately for different manure types. This information should be attached to the inventory worksheets.

Feed management is an optional part of a CNMP. If feed management practices are not being used or will not be used, this information can be left blank.

The information provided should be as specific and accurate as possible. The numbers provided have a large impact on the design of storage and handling systems and on the potential for nutrient runoff and leaching. If additional room is needed, record the information on a blank sheet and attach it to the inventory sheets. The information should reflect any plans to increase the number or type of animals, to purchase additional land, or to make other changes in the way manure is handled or stored, or in land management practices.

Additional information such as Farm A Syst worksheets, Best Management Practices for Dairies, or other brochures can be obtained through the County Extension Agent, NRCS or over the Internet. These informational materials can be used to identify potential pollution problems as well as provide possible solutions to the problems.

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Pl	☐ To maximize productivity and profitability ☐ To correct unacceptable environmental conditions ☐ To improve efficiency of manure handling facilities ☐ To get the highest possible benefit from all available resources ☐ To stay in compliance with state and federal laws and regulations ☐ To prevent runoff and/or leaching of nutrients and pathogens into surface and groundwater ☐ Other ☐ Other ☐ Other ☐ Plot Map (Draw a picture of the feedlot including buildings, feed storage, etc.):																									
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La	Other Lot Size (sq. ft): width (ft) X length (ft) = sq. ft.																									

Lot Runoff (Check	all that a	apply):			
☐ Lot runoff flow☐ Lot runoff flow☐ Lot runoff flow☐ Lot runoff is di☐ Lot has a dike o☐ Water from place☐ Lot has a dike o☐ Lot has a di	s off the s directly rected in or diversi te cooler	lot onto someo y into a ditch, s to a sediment b ion that prevent s, troughs, road	one else's property tream, river, or othe asin, pond, or othe ts clean water fron ls, etc. is kept fron	er collection area in running onto the in running onto the	e lot
Roof Runoff (Check	all that	apply):			
☐ All roof runoff☐ All roof runoff☐ All roof runoff☐	is diverte	ed off the lot	g water troughs		
Production Informa	ition:				
Type of Animal	(s)	Actual Animal #'s	Planned Animal #'s	Avg. Weight (lbs)	Number of Days Confined
Bedding (Enter the	type and	l amount of be	edding used – leav	ve blank if none	is used):
Type of bedding	*Amou	unt Used		Total Tons U	Jsed Yearly
*Loads, tons, or bales, **	Daily, weekl	y, or monthly			
Facility Wash, Parle	or, and/o	or Flush Wate	r (Enter the amo	unt of water used	l):
*Type of Water	**Amo	ount Used	***How Often	Total Gallon	s Used Yearly
*Barn, Parlor, Plate Cool	er, etc., **G	allons, ***Daily, wee	kly, or monthly		
☐ Check if flush v	water or	other water is r	ecycled		

Animal Type Number ☐ Open lot ☐ Free Stall ☐ Stanchion ☐ Covered Open lot Free Stall Stanchion Covered Open lot Free Stall Stanchion Covered ☐ Open lot ☐ Free Stall ☐ Stanchion ☐ Covered Dead Animal Management (Enter animal type and how dead animals are disposed of): Animal Type ☐ Burial ☐ Rendering ☐ Incineration ☐ Composting ☐ Landfill ☐ Burial ☐ Rendering ☐ Incineration ☐ Composting ☐ Landfill **Manure Collection:** Solid: **Area ***Method *Type How Often □ Daily □ Weekly □ Monthly □ Semi-Annually □ Annually ☐ Manure Pack ☐ Other _____ **Area ***Method How Often □ Daily □ Weekly □ Monthly □ Semi-Annually □ Annually ☐ Manure Pack ☐ Other *Beef, dairy, etc..., **Holding area, cement lot, dirt lot, feeding area, ***Scrape, flush, or left in place Liquid: *Type **Area ***Method How Often □ After Each Milking □ Twice Daily □ Once Daily □ Other ***Method **Area How Often □ After Each Milking □ Twice Daily □ Once Daily □ Other *Barn, flush, runoff etc..., **Milk barn, lanes/alleys, feeding area ***Spray down, flush, or below pen pit Manure Transfer (Check all that apply): Solid: □ Tractor/Loader/Bobcat □ Gutter/Gravity Flow □ Scrape lanes/alleys □ Flush tanks/lanes/alleys \square Pump/pipeline \square Mechanical Scraper \square Push off ramp \square Vacuum □ Conveyor □ Solid Spreader □ Dump Truck □ Irrigation System □ Slatted Floor **□** Other ____ Liquid: □ Flush tanks/lanes/alleys □ Gutter/Gravity Flow □ Pump/pipeline □ Vacuum ☐ Liquid Spreader ☐ Irrigation System ☐ Slatted Floor ☐ Other

Housing (Enter the animal type, number and check the type of housing used):

Solid: Composting Mechanical Separation (Concrete, Static Incline, Vibrating Screen, Rotating Screen) Settling Basin Dilution Other Liquid: Anaerobic Aerobic Mechanical Aeration Evaporation Filter Separation Mechanical Separation (Concrete, Static Incline, Vibrating Screen, Rotating Screen) Dilution Other Manure Storage (Check all that apply): Solid: Open Lot (Manure Pack) Concrete Bunker Concrete Pit Roofed Storage ☐ Manure Staging Area ☐ Waste Storage Pond ☐ Other Size: length (ft) _____, width (ft) _____, depth (ft) _____ Liquid: ☐ Waste Storage Pond ☐ Anaerobic Lagoon ☐ Aerobic Lagoon ☐ Evaporation Pond ☐ Above Ground Tank ☐ Below Ground Tanks ☐ Pit ☐ Other Size: length (ft) , width (ft) , depth (ft) Manure Application Timing (Check all that apply): Solid: □ Spring □ Summer □ Fall □ Winter □ Not Applied Liquid: □ Spring □ Summer □ Fall □ Winter □ Not Applied **Crop(s) Manure is Applied To:** Manure Incorporation (Check all that apply): Solid: Within 1 day following application Within 1 week following application ☐ Within 1 month following application ☐ Not Incorporated ☐ Other Liquid: □ With injection equipment □ With irrigation system □ Within 1 day following application \square Within 1 week following application \square Within 1 month following application □ Not Incorporated □ Other Equipment Used for Incorporation: \square Plow \square Disk \square Chisel \square Harrow \square Injection Equipment \(\begin{align*} \text{Irrigation System } \begin{align*} \text{Other} \end{align*}

Manure Treatment (Check/circle all that apply):

Manure App	lication Equip	ment (Check/	Circle all that apply):		
Solid: 🖵 B	ox Spreader 🗖	Dump Truck/E	Blade 🗆 V Box Spreader [☐ Slinger ☐ F	lail Spreader
☐ Truck S	preader 🖵 Othe	r			
☐ Îrrigatio	*	Gun, Center Pi	Driven, Other) □ Slinger vot, Sideroll Sprinkler, Ha		
	Manu	re Annlication	Equipment (Solid and l	(Janid)	
Type of Spreader	Dimensions (l-w-h)(dia)	Capacity (ft ³ ,bu,gal)	Number and Kind of Spreader Setting(s)		Spread Distance (ft
			nanure, ft³=cubic feet, bu=bushtings=PTO, apron, etc.	els, gal=gallons, t	ype of
Manure App	lication Rates:				
Solid:	tons/acr	e, or	loads/acre		
Liquid:	gallons	s/acre,	loads/acre, or	_ acre-inches	
Soil/Manure	Testing (Chec	k all that appl	y):		
			Once every 2-3 years Spring Fall Other		
			arly Once every 2-3 ye Spring Fall Other_		
(Attach copies o	of all soil and manure te	ests taken within the la	st 5 years)		
Feed Manage	ement (Check	all that apply)	:		
Animal Ty	pe				
	☐ Feedin	_	Milk Urea Testing Lowed Manure Intensive G		ntent Feeds
	☐ Feedin	g of Composte	Milk Urea Testing Lowed Manure Intensive G		ntent Feeds

*Field #	Crop	Acres	Yield	*STP	*Sensitive Areas	*Site Problems
or Name						

^{*}Enter only fields that have had or will have manure applied to them. STP = Soil Test Phosphorus (ppm), Sensitive Areas = areas next to water, wetlands, etc., Site Problems = problems such as rocky or sandy soils, watertable, shallow soil depths, steep slopes, etc.

Conservation Practices You Believe Are Needed (List and describe the practices such as changes needed in collection, storage, treatment, transfer, or utilization, changes in land management practices, animal numbers or type, feed management, etc.):