County:	Date Plan Submitted	Crop years of CNMP:
		to
Producer/Owner Name, Address & Phone Number	Farm #(s):	Section:
		Twp:
	Tract #(s):	Range:
	Cropland Acres:	Lat:
		Lon:
lan Reviewed by:		Date Plan Reviewed:
eviewer's Key:		
IA: Not available or Not applicable.		
I: Item was found in plan document.		
Item was not fount in plan document, of	or was deficient.	

\*: Item needs attention before approval

## PLANNING

#### **Deliverables:**

These deliverables apply to this individual planning activity. When specific conservation practices are utilized, refer to the appropriate Statements of Work.

A comprehensive nutrient management plan (CNMP) shall address all land units that the animal feeding operation (AFO) owner and/or operator owns or has decision-making authority over and on which manure and organic by-products will be generated, handled, stored, or applied. The CNMP shall address all manure produced by the livestock operation, including manure applied to land that is part of the operation as well as manure transported off-site.

- 1. Document the AFO owner's/operator's consideration of the six CNMP elements. It is recognized that a CNMP may not contain all six elements; however, they need to be considered by the AFO owner/operator during development of the CNMP, and the decisions regarding each must be documented. These elements are:
  - A. Manure and Wastewater Handling and Storage
  - B. Land Treatment Practices
  - C. Nutrient Management
  - D. Record Keeping
  - E. Feed Management
  - F. Other Utilization Activities

NOTE: Each CNMP element must meet the specific criteria provided in Section 600.54 of the National Planning Procedures Handbook (NPPH).

CNMPs will contain actions that address water quality criteria for the livestock production area, and land on which the manure and organic by-products will be applied (i.e., as a minimum address CNMP elements A, B, C, and D listed in item 1 above). This includes addressing soil erosion to reduce the transport of nutrients within or off of a field to which manure is applied. For AFO owners and/or operators who do not land-apply any manure or organic by-products, the CNMP will address only the livestock production areas (i.e., address CNMP elements A, D, E, and F listed in item 1 above).

Provide documentation that addresses the following items:				
Item		Status	Comments	
Sec	tion I. General Site Information and Plan			
a.	Names, phone numbers, and addresses of the AFO owner(s)			
	and operator(s)			
b.	Location of production site: legal description, driving			
	instructions from nearest post office, and the emergency 911			
	coordinates			
с.	Plat map or local proximity map			
d.	Farmstead sketch showing the proximity of animal			
	production facilities and manure storage structures. Include			
	applicable storage profile drawings that will aid the operator			
_	in managing manure storage and withdrawals.			
e.	Summary of procedures specific to the animal feeding operation, including producer objectives, production site			
	operation, manure storage, crop production, manure			
	application, and land treatment practices. This should be in			
	narrative form and should describe the operation			
	comprehensively, but succinctly.			
f.	Existing documentation of present facility components that			
	would aid in evaluating existing conditions, capacities, etc. (i			
	e, as-built plans, year installed, number of animals a			
	component was originally designed for).			
g.	Applicable permits or certifications			
-	1. Federal, Tribal, State or local permits and/or ordinances			
	2. Operator or manager certifications			
	3. Manure applicator certifications			
	4. Written manure application agreements (where			
	applicable)			
	a. Signed spreading agreements			
2.	Spreading easements as required			
3.	Record of inspections or site assessments			
4.	Record of changes made to CNMP. Include:			
5.	Name of the planner making the change			
6.	Date of change tion II Sustainability/Ecosibility Evolution for the			
	tion II. Sustainability/Feasibility Evaluation for the eration			
	Vhole-farm nutrient balance			
	Manure hauling/application requirements for animal feeding			
	operation (loads/yr given available equipment.)			
	Estimate of acres needed to apply manure generated on this			
	site respecting nitrogen or phosphorus soil loading limits. Must			
	consider anticipated crops and use current removal rates.			
	iv. Expected times suitable for application and estimated days of			
	application per season. A calendar is the preferred format for this			
	information.			
v. F	v. Estimate of soil test phosphorus at end of current planning			
per				

Section III Common description of the Brustech muchustion	
Section III. General description of the livestock production	
system	
i. Animal types, phases of production, and length of confinement	
for each type at this site	
ii. Animal count and average weight for each phase of production	
on this site	
iii. Calculated or measured manure and wastewater volumes for	
this site	
iv. Manure storage type, volume, and approximate length of	
storage	
v. Manure transfer facilities and (or) equipment, if applicable	
vi. Other utilization activities for manure (composting, pelleting,	
etc.), if applicable	
vii. Balance of manure produced and manure distributed for land	
application or off-site use	
viii. Animal mortality management system	
1. System for managing typical mortalities	
2. Plan for managing catastrophic mortality events	
ix. Operation & Maintenance activities applicable to the livestock	
production system, especially those related to manure storage,	
transfer, modification, and land application	
Section IV. Land Application Site Information	
i. General description of the fields and locations for land	
application	
1. Designated land use for planning period (e.g., row	
crop, pasture, hayland)	
ii. Aerial maps of land application areas with field acreage	
designated	
iii. Individual field maps with marked setbacks, buffers, and	
waterways, environmentally sensitive areas, such as sinkholes,	
wells, gullies, tile inlets, etc. Identify spreadable acreage	
available.	
iv. Legal description of land application sites, including	
watershed codes	
v. Specific and unique field identification codes	
vi. Soil map, with appropriate interpretations	
vii. Land treatment practices planned and applied, and level of	
treatment they provide on field-by-field basis	
viii. Operation & Maintenance activities applicable to the land	
treatment practices, especially those related to practices that	
reduce overland movement of water and manure	
Section V. Regularly Recurring Activities Related to Land	
Application of Manure	
i. Current soil tests – not more than 4 years old from an approved	
laboratory. Soil tests shall be less than two years old for a new	
plan.	
ii. Risk assessments for potential nitrogen and phosphorus losses	
from fields (Missouri Leaching Index and Missouri Phosphorus	
Index)	

1. Field-by-field risk assessments		
2. Provide an interpretation of the risk assessments		
3. List actions to be taken as a result of field risk		
assessment		
iii. Current manure test for each individual manure storage		
containment (sampled annually)		
iv. Desired conditions during nutrient application (weather, soil		
moisture, etc.)		
v. Past crops and actual yield data		
vi. Provide recordkeeping forms for:		
1. Actual weather and soil conditions during manure		
application		
2. Actual crops planted, dates planted and harvested,		
and yields achieved		
vii. Emergency Action Plan for land application of manure		
resulting from chronic/catastrophic storm events		
viii. Operation & Maintenance activities applicable to the land		
application of manure including soil testing, manure testing, risk		
assessment, crop history data collection, and weather data		
collection		
Section VI. Field-by-Field Nutrient Application Plans for		
length of the planning period (usually the soil test cycle)		
i. Brief general description of the nutrient management objectives		
for the operation		
ii. Cropping sequence, realistic yield goals, and expected nutrient		
removal amounts		
1. Provide source of realistic yield goals and nutrient		
removal amounts		
iii. Planned rates, methods of application, and timing (month and		
year) of commercial fertilizer nutrients to be applied for crop use		
(include all nutrient sources and limestone)		
iv. Planned and applied rates, methods of application, and timing		
(month and year) of manure nutrients to be applied for crop use		
(include all sources)		
v. Nutrient budget for application and removal of nutrients (N,		
P2O5, K2O) including residual amounts of these nutrients		
vi. Application equipment descriptions and methods of		
application (including incorporation) for commercial fertilizer		
and manure		
vii. Expected times suitable for application and estimated days of		
application per season. A calendar is the preferred format for this		
information (see 2.b. Sustainability/Feasibility)		
viii. Estimated application amounts per acre (show calculations in		
gallons or tons per acre, and pounds of plant-available nitrogen,		
phosphorus as P205, and potassium as K20 per acre)		
ix. Effect of incorporation operations on surface residue and		
erosion control		
x. Schedule of land applications for each field by month and year		
to meet nutrient need		

xi. Operation & Maintenance activities applicable to manure application planning, including calibration and maintenance of applicators, and recordkeeping guidance for manure applications	
Section VI. Plan Review with Owner/Operator	
i. Review planned treatments step by step, field by field, and year	
by year with the owner/operator	
ii. Incorporate revisions suggested by owner/operator	
iii. Certify that owner/operator understands plan and has	
knowledge, skill, and ability to apply the scheduled treatments	
iv. Provide Finalized Plan for Current Year	

Develop and deliver plan(s) to appropriate sources. Review planned treatments step-by-step, field-by-field, year-by-year with client.

- a. *All:* Provide one (1) copy of the CNMP and supporting documents to the client and review materials
- b. *Technical Service Providers (TSPs):* Deliver one (1) final printed plan and one (1) electronic copy of the CNMP on computer compact disc (CD-ROM) to the local NRCS Field Office by the assigned date. Information used to produce the CNMP document shall be supplied in a format compatible with Manure Management Planner (.mmp). Details on access to Manure Management Planner are provided at the end of this document. The final CNMP shall be free of error and typed in a readable font. The electronic version of the final CNMP will be compatible with Microsoft Office Word/Excel/Access 2003. Any maps provided will be supplied in a JPEG (.jpg) format.
- c. USDA Service Center personnel: Develop and record CNMP in NRCS Toolkit, including digitized land units and practice schedule. Information used to produce CNMP information for NRCS Toolkit shall be supplied in a format compatible with Manure Management Planner (.mmp). Details on access to Manure Management Planner are provided at the end of this document.

### FOLLOWUP

#### **Deliverables:**

- 1. Develop and deliver plan(s) to appropriate sources. Review planned treatments step-by-step, field-by-field, year-by-year with client.
- 2. Review, on-site, the results of the applied management practices outlined in the CNMP
- 3. Assist client to evaluate both annual and strategic components of the CNMP. Update and (or) revise the CNMP as appropriate.
- 4. Evaluate the CNMP's effects on soil, water, air, plant, and animal resources.
- 5. Assist the client to evaluate and assess CNMP record keeping needs.

#### SUPPORT REFERENCES

- Manure Management Planner (MMP), Purdue University. Free download at <u>www.agry.purdue.edu/mmp</u>.
- Missouri NRCS Electronic Field Office Technical Guide (eFOTG). Access at <u>http://www.nrcs.usda.gov/technical/efotg/</u>.

#### REFERENCES

- NRCS National Planning Procedures Handbook (CNMP Technical Guidance)
- NRCS National Environmental Compliance Handbook
- NRCS Field Office Technical Guide
- NRCS National Engineering Manual
- NRCS National Agronomy Manual
- NRCS National Cultural Resources Procedures Handbook

- NRCS National Engineering Handbook, part 652, National Irrigation Guide
- Manure Characteristics. Midwest Plan Service. MWPS-18. (2)
- Missouri Department of Natural Resources Manual 121, Design Guidelines for Animal Waste Management for Concentrated Animal Feeding Operations.

### STATE CONTACT

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