

**INVENTORY JOB SHEET
FOR
COMPREHENSIVE NUTRIENT MANAGEMENT PLANS**

SECTION 1 – Producer Information & Objectives

A. Producer & Livestock Operation Location

Owners Name: _____ Date: _____

Address: _____
Street/RR/P.O. Box / City / State / Zip Code

Business Telephone # _____ Business Cell # _____

Operator/Manager Name & Phone # (optional): _____

Livestock Operation Name (If different than above): _____

Address: _____
Street/RR/P.O. Box / City / State / Zip Code

Legal Description of Operation: _____ County: _____
Qrt. Qtr. Section – Township – Range (E or W)

Directions from Nearest Town to Livestock Operation: _____

B. Owner(s)/Operator(s) Plans & Objectives: _____

C. Additional Information

- 1) Is an expansion current livestock numbers expected? No Yes
- 2) Does the existing livestock operation have existing manure and waste water storage facility? No Yes
 - a) If YES, complete Section 3, Tables A & B of this document.
 - b) If YES, are the existing manure & waste water storage facilities state permitted? No Yes
 - c) If NO, are there any design plans, as-built plans & year constructed info available? No Yes
- 3) Has NDEQ completed an inspection of the operation? No Yes - If YES, attach a copy of the letter
- 4) Is Producer already working with a Private Consultant on an NDEQ Application? No Yes
- 5) Does the producer sell or give away any of the manure generated by this operation? No Yes
 - a) If YES, complete Section 4, Table F - Manure Sold or Transferred.
- 6) What is the Mortality Plan for the dead animals? _____

- 7) Include in an aerial photo with the location of the fuel tanks, chemicals and mixing area.

SECTION 2 - Livestock Information

A. Animal Numbers Fed (One Time Maximum Capacity) – Please Include All Existing & Proposed Livestock in the Operation

Livestock Type	No. of Animals Fed/Confined For Each Facility			Total Number	Average Weight (lb.)
	#1- _____ Existing or proposed?	#2- _____ Existing or Proposed?	#3- _____ Existing or Proposed?		
<i>Example: Feeder Cattle</i>	<i>1000 head – existing</i>	<i>2500 head – proposed</i>		<i>3500 head</i>	<i>900</i>
Beef Cattle					
Yearlings					
Feeder Cattle					
Dairy Cattle					
Mature Cows					
Heifers					
Calves					
Swine					
Nursery					
Growers					
Finishing					
Grower/Finish					
Gestating Sows					
Boars					
Farrow/Nursery					
Poultry					
Turkeys					
Layer Hens					
Broiler Hens					
Other					

SECTION 3 - Existing Manure & Waste Water Handling / Storage Facility Information

A. Manure & Waste Water Storage Facility Description

No. & ¹ Type of Animals Contributing to the Facility	Type of Manure Storage	Confinement Facilities		Dairy	Open Lots			Management of Facility
		Storage of Manure / Urine? Yes or No	Description of Process Waste Water	Solid Separator Yes or No	No. of Debris Basins	Acres in Open lots	Acres of Foreign Drainage	
<i>Example: 2500 SW</i>	<i>Shallow underfloor pits & Lagoon</i>	<i>Yes</i>	<i>Cleaning of Pit/Pens - Pull plug</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>Pits emptied every 30 days Pump from lagoon thru pivot in summer& fall</i>
<i>Example: 1000 FC</i>	<i>2 Debris Basins & 1 Holding Pond</i>	<i>No</i>	<i>NA</i>	<i>NA</i>	<i>2</i>	<i>30</i>	<i>10</i>	<i>Scrap pens every 6 mo; Clean basins in summer; pump from holding pond in summer& fall</i>

¹FC = Feeder Cattle; SW = swine > 55 lb; WP = swine < 55 lb; DC = Dairy Cattle; CH= Chickens; T= Turkeys, H= Horses

B. Manure & Waste-Water Storage Facility Capacity (If capacity is unknown, use facility dimensions & formulas below to calculate capacity)

Facility ID	Depth to Water Table (feet)	Dimensions (feet)				Slope (run to rise)		Total Storage Capacity
		Top Length	Top Width	Depth	Diameter	End-Walls	Side-walls	
<i>Example: Anaerobic Lagoon (south)</i>	<i>50+ ft</i>	<i>330 ft.</i>	<i>230 ft</i>	<i>20 ft</i>	<i>NA</i>	<i>3 to 1</i>	<i>3 to 1</i>	<i>1,200,000 ft³</i>

Circular Structure:

Volume = 3.14 x diameter² x depth ÷ 4

Rectangular Structure

Volume = Length x Width x Depth

Earthen Structure with Sloping Sidewalls and Rectangular Top. The following is an approximation that underestimates volume by about 2 to 3%

Volume = Depth x (Top Length – (End Wall Slope* x Depth) x (Top Width – (Side Wall Slope* x Depth)

*For wall slope, use Run: Rise ratio. For wall slope of 3:1, enter slope of 3.

C. Sketch layout of all existing pens, buildings, manure and waste water handling/storage facilities and components (piping, debris basins, etc.), clean water diversions, drainage patterns and water well location or attach a map or drawing showing the approximate location of all facilities.



SECTION 4 – Land Application Site and Nutrient Management Information

A. Maps & Inventory Information of Application Areas Assembled by NRCS with the help of the applicant

- 1) Obtain from the producer 156-EZ forms and FSA-578 forms for all land owned/operated by producer. If 156-EZ forms and FSA-578 forms are not available, please complete Tables 1 & 2, Part B of this Section.
 - Include rented acres and acres associated with any existing manure application agreements.
- 2) Identify Sensitive Areas on maps
 - Sandy soils,
 - Streams, lakes, frequently flooded sites, wetlands, drainage courses, etc.;
 - Ephemeral & gully erosion areas,
- 3) Identify Soils & Site Information on maps
 - Soils and slopes
- 4) Identify All Existing Land Treatment Practices and needs on maps
 - Grass Filter Strips (note width), sediment basin, buffers, waterways, and terraces, other erosion control measures.

B. Land Available for Manure Application - Group all tracts/fields with the same crop rotation and field operations.

Table 1 – Crop Rotation

Tract	Fields	Cropping Rotation	Dryland (D) or Irrigated (I)	Which of these fields currently have functioning terraces?
<i>Example: 1234</i>	<i>1, 4, 6</i>	<i>Corn – Soybeans – Wheat</i>	<i>D</i>	<i>1, 6</i>

1) Is alfalfa normally grown as part of your crop rotation (grown on the entire field and rotated with annual crops on a regular basis)? Yes No

If YES, complete the following:

- a) How many years is the field in alfalfa? _____
- b) How many years is the field planted to annual crop? _____

Table 2 - Tillage Inventory - For each crop in the rotation indicate the number of passes for each operation.
 Use additional sheets if needed.

List current crop in rotation:				
List previous years crop:				
Field Operation	# of Passes	# of Passes	# of Passes	# of Passes
NOTES:				
Bale crop or crop residue				
Graze stubble or residue				
Shredder, flail or rotary				
Rotary Stalk Chopper				
Row Stalker (Stalk puller)				
Plow, moldboard				
Subsoiler				
Sweep plow 20-40 inches wide				
Chisel, straight point, sweep or twisted shovel				
Chisel, straight point, 12 inches deep				
¹ Disk				
Mulch Finisher				
¹ Field Cultivator				
¹ Rotary Harrow (Seedbed Conditioner)				
Commercial Fertilizer – Anhydrous, 12 in.				
Commercial Fertilizer - Anhydrous injector, 30 in.				
Manure Application – Inject				
Manure Application – Surface, no incorporation				
Manure Application – Surface, incorporate (with disk, field cultivate, or harrow) within 24 hours				
Manure Application – Surface, incorporate (with disk, field cultivate, or harrow) within one week				
Drill or air seeder tee slot openers 7-10 in. spacing				
Drill or air seeder, hoe/chisel openers 6 to 12 inch spacing				
Drill or airseeder, double disk, with fluted coulters				
Planter, double disk opener with or without fluted coulter				
Planter, ridge till or strip till				
Rotary hoe				
Row Cultivation				
Row Cultivation, ridge till - cultivate				
Row Cultivation, ridge till - hill				
Other:				

¹Do not list a pass for these if you have checked manure application with incorporation for the same operation.

C. Total Acres Each Crop & Yields

Current Crop	Irrigated?	Total Acres	Yield	¹ Check if Proven Yields
	Y or N			
	Y or N			
	Y or N			
	Y or N			
	Y or N			
	Y or N			

¹**NOTE:** If certified proven yields for the last 5 years are available, they can be used, as long as Producer provides copies of certification (crop insurance records, etc.). Otherwise, 5-year county averages must be used.

D. Fertilizer & Manure Application Information

Crop	Previous Crop	Irrigated Yes or NO?	Type of Fert. / Manure	Average Application Rate	Application Method / Equipment	Application Timing/ Pre- or Post-Planting
<i>Example: Corn</i>	<i>following</i>	<i>Soybeans</i>	<i>Y</i>	<i>Feedlot Manure</i>	<i>20 tons / acre</i>	<i>Surface apply</i>
				<i>10-34-0</i>	<i>50#</i>	<i>Planter</i>
	<i>following</i>					<i>Fall</i>
						<i>At Planting</i>
	<i>following</i>					
	<i>following</i>					
	<i>following</i>					

E. Other Land Application Site & Nutrient Management Information

- 1) Are any manure application sites utilized by other Animal Feeding Operations (AFOs)? No Yes
 - a) If YES, note location(s) of other AFOs & identify the manure application site that is shared on aerial photo(s) and attach.
- 2) Have application sites been soil tested in last 5 years? No Yes
 - a) If YES, attach copy of reports
 - b) If YES, has manure been applied to that site since the soil test was conducted? No Yes
 - c) If NO soil tests are available, the producer is not required to conduct soil testing in order for CNMP development. Use estimated N & P₂O₅ values based on crop history & past fertilizer/manure applications rates.
- 3) Is a manure analysis available? No Yes
 - a) If YES, attach copies of analysis
- 4) Does the producer calibrate the application equipment? No Yes
- 5) Does producer use a crop consultant? No Yes
 - a) If YES, please list Name/Company: _____

F. Manure Sold or Transferred (Given Away)

Date	Name of Recipient	Recipient's Address (town)	Amount of Manure (gal. or T)	
			Sold	Transferred
<i>Example: 10/2/05</i>	<i>Charles Smith</i>	<i>Wahoo</i>	<i>20,000 tons</i>	

SECTION 5 - Manure Transfer & Waste Application Equipment Inventory

A. Manure Application Equipment Inventory

Type/Model	Possession of Equipment			Size / Capacity	Average Application Rate	Type of Manure	Facility from which manure came from
	Own	Rent / Custom	Needs				
<i>Example: WP Spread-All</i>	<i>X</i>			<i>18 Tons</i>	<i>18 T/ac</i>	<i>Solids from pens & debris basin</i>	<i>Pens & debris basins 1 & 2</i>

B. Irrigation Equipment Inventory

Type/Model	Possession of Equipment			Size / Capacity	Average Application Rate	Type of Runoff or Manure / Waste Water	Facility from which manure came from
	Own	Rent / Custom	Needs				
<i>Example: Pump & Pivot</i>			<i>X</i>	<i>800 gal/min</i>	<i>4 ac-in/ac/yr</i>	<i>High Pressure Volume Guns at Each Tower</i>	<i>Holding Ponds 1 & 2</i>

C. *Manure Transfer Equipment Inventory

Type/Model	Possession of Equipment			Size / Capacity
	Own	Rent / Custom	Needs	
<i>Example: Loader</i>	<i>X</i>			<i>3 Yards³</i>

*Manure transfer equipment includes, but is not limited to conveyance system using structures, conduits, or equipment. The system is designed to transfer animal manure & waste water through a hooper, reception pit, a pump, a conduit, or hauling equipment.

SECCION 6 – Other Information (as applicable)

A. Feed Management

- 1) Attach copy of feed ration sheets.
- 2) For Cattle Operations:
 - a) What is the type of feed? High Energy High Forage
 - b) Do you feed any of the following in your operation? No Yes, If YES, please indicate which of the following:
 - No Yes Wet Milling Corn - Wet Corn Gluten Feed or Steep Liquor
 - No Yes Drying Milling Corn Wet Distillers Grain plus Solubles (WDGS), Dry Distillers Grain plus Solubles (DDGS), or Corn Syrup (Distillers Soluble)
 - No Yes Other (i.e. sorghum) If YES, please list _____
 - c) If YES to any of the above by-products is feed, what percent of the diet does it make up? _____
- 3) For Swine Operations:
 - a) Do you feed a wet/dry or dry diet?
- 4) For Swine or Poultry Operations:
 - a) Is phytase used as a feed additive? No Yes

B. Other Waste Treatment or Utilization Options

- 1) Does the Producer utilize any additional waste treatment options or are they interested in any other waste treatment methods?
 - Compost - If marked, see next two questions.
 - Methane Capture/Digestion
 - Other - Explain: _____
- 2) If the Producer composts any of the manure, explain what happens with the composted product:
 - Reused for bedding (example - dairy)
 - Utilized on application sites listed within this Inventory Job Sheet
 - Given / Sold to farmers
 - Given / Sold to greenhouse or general public
 - Other – Explain: _____
- 3) If the Producer composts, does he mix the manure with any grass clippings/leaves, etc.? No Yes

C. Other Pertinent Information

NRCS Staff –
After Completion of this Inventory Sheet, Proceed to - Step B Evaluation of NMP, Manure Storage Facility Capacity, Manure Transfer & Land Treatment Using Appropriate Tools” in the CNMP Checklist / Guidance Document.