

2026

NUTRIENT MANAGEMENT RECORD-KEEPING CALENDAR

The Nebraska Nutrient Management Calendar is a product of Nebraska Extension's Animal Manure Management Team. It was originally developed by: Leslie J. Johnson, Larry Howard, Richard Koelsch, Amy Millmier Schmidt, Charles A. Shapiro, and Charles S. Wortmann.

The authors would like to thank Mara Zelt, Brad Edeal, Amber Vogel, Lindsey Roark, Javed Iqbal, Aaron Nygren, Beth Zelt, and Carol Calderon for their contributions and reviews. This publication was produced with the permission of Tamilee Nennich Adolph, on whose work it was based.

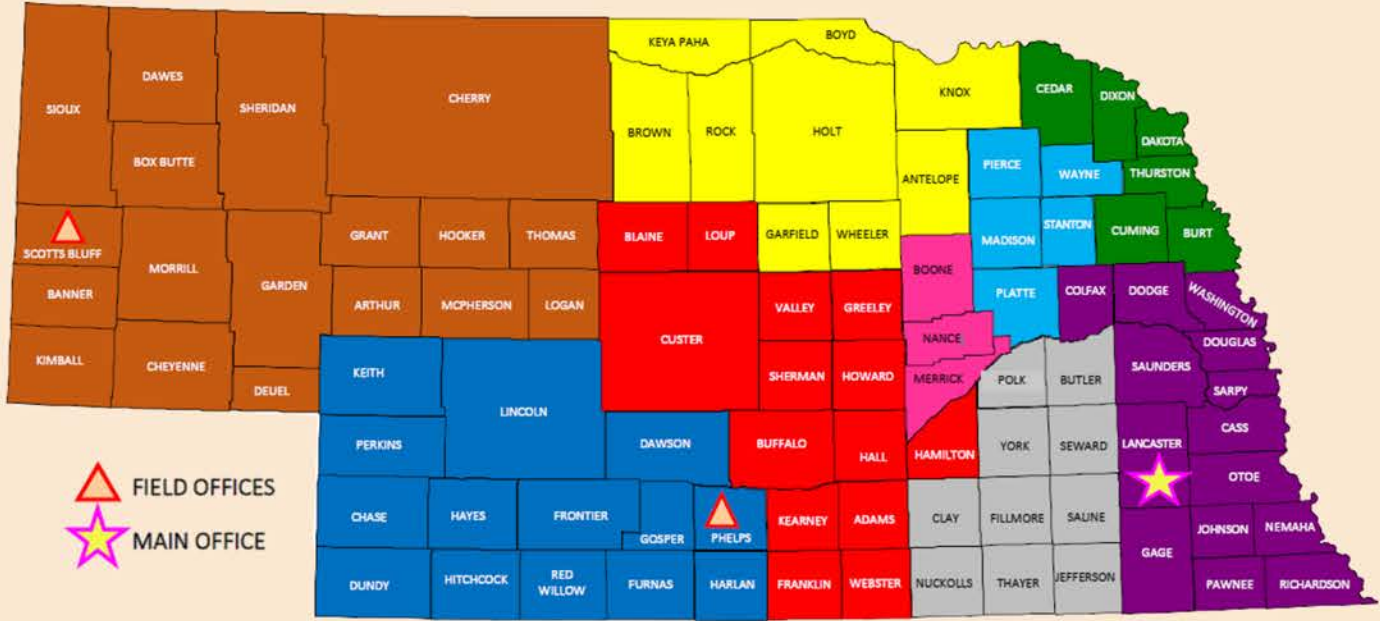


Reach out with any of your manure management questions!

NEBRASKA EXTENSION MANURE MANAGEMENT TEAM

Leslie Johnson	Haskell Ag Lab	402-584-3818	Animal Manure Management Extension Educator
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Amy Schmidt	Biological Systems Engineering	402-472-0877 aschmidt@unl.edu	Manure, Mortality & Environmental Management
Todd Whitney	Lincoln County	308-696-6785	Irrigated Cropping Systems & Manure
Rick Stowell	Biological Systems Engineering	402-472-3912	Extension Engineer - Animal Environment
Aaron Nygren	Saunders County	402-624-8030	Cropping Systems & Nutrient Management
Alfredo DiCostanzo	Cuming County	402-372-6006	Integrated Livestock Systems

Nebraska Department of Water, Energy, and Environment (DWEE) Livestock Waste Control Inspection Areas of Coverage



Brad Edeal, Supervisor, Livestock Inspections, Compliance & Permitting - (402) 471-0282

Jerry Newth	(308) 991-1780		
Glenn Marker	(308) 765-9293		
Emma Lichtenfeld	(402) 471-0098		
Derek Schreiter	(402) 471-8132		
Garret Newcomer	(402) 471-4280	Jinsheng You, Engineer	(402) 471-4202
Nathan Kreutzer	(402) 471-8137	Jared Gaspers, Engineer	(402) 471-4255
Kevin Franzluebbers	(402) 471-6687	Tiffany O'Neill, Agronomist	(402) 471-4700
Jordan Jaeger	(402) 471-8131	Lindsey Turner Roark, Title 198 - Secondary Containment	(402) 471-4233
Jasmine Wilson	(402) 471-4221		

Records for Nebraska Animal Feeding Operations

Operation ID: _____

ID Type: ☐ IIS Number ☐ Program Number ☐ Premises ID ☐ Operation Name ☐ Other: _____

General Directions

- Record the initials of the person performing the inspection each time (see table below for initial codes).
- Checkmarks will not satisfy the recordkeeping requirements.
- Record any maintenance and/or repairs.
- Correct all deficiencies within 30 days.

DAILY Records and Inspections

- Inspect all waterlines (drinking and cooling) within the drainage area.
- Record any measurable rainfall that occurs at the facility and subsequent liquid storage levels.
- Record wind speed and direction daily during manure pumping activities.
- Collect carcasses and properly dispose of them within 36 hours.

WEEKLY Records and Inspections

- Record the liquid depth of the manure storage structure as indicated on the depth marker. Be sure that the recommended pumping levels are indicated on the marker.
- Before use, inspect any equipment used for land application of manure and/or wastewater.
- Inspect all waste control facilities, including lagoons, holding ponds, concrete tanks, pits, and manure storage structures.
- Inspect all stormwater and runoff diversion devices used to channel contaminated stormwater to storage structures.

MONTHLY Records and Inspections

- Inspect facilities used for disposal of carcasses. Include composting facilities, containers, and recent burial sites in the inspection.
- Do NOT dispose of carcasses in any liquid manure or process wastewater system.

YEARLY Records and Inspections

- Evaluate the depth of the sludge layer of the lagoon or holding pond.
- At least 1 representative from an operation must attend Land Application Training every 5 years. See go.unl.edu/ManureEd for more information.
- The Nebraska P-Index must be assessed for land application areas every 5 years, prior to land application. See go.unl.edu/Pindex

YEARLY Sample Collection and Analysis

- Collect and analyze manure and/or wastewater samples at least annually. Recommended minimum analysis should include: total nitrogen (N), organic N, and phosphorus.
- Collect soil samples every year prior to site being used for N application.
- Analyze soil samples for phosphorus at least once in 5 years.
- Irrigation water must be sampled and analyzed for nitrates every 5 years.

YEARLY Site Requirements

- Complete and submit an annual report for the previous year to DWEE by March 1 (NPDES permits only).
- Keep records on site for a minimum of 5 years.

Name	Initials

Name	Initials

Name	Initials

Name	Initials

Additional information and space for records is provided in the back of the calendar.

Disclaimer: The information in this calendar should assist producers to meet legal requirements and protect environmentally sensitive areas around their operations. The use of this calendar and accompanying information is intended to serve as a guide and does not guarantee compliance with the DWEE rules and regulations.

Manure & Wastewater Applied

Weather information for each date of application, the day prior to, and day after application should be recorded on the calendar or kept separately.

Field ID & Location _____ Acres Applied _____ Date _____

Manure Source _____ Application Method _____

Application Rate _____ Available N/acre* _____ Applied P _____

When Applying Liquid: Start Pump Time _____ Stop Pump Time _____

Total Hours Pumped: _____ Time of Monitoring: _____

*Nitrogen availability calculation worksheet can be found at the end of this publication.

Land Application Training Required Every 5 Years

Large livestock operations with National Pollutant Discharge Elimination System (NPDES) and/or construction and operating permits issued by DWEE are required to take Land Application Training every 5 years. Initial training and recertification workshops are available, typically during the winter months. All employees applying manure or keeping manure records are encouraged to participate. Small & medium operations are encouraged to attend!

An online course is also available at:

(water.unl.edu/lat-online)



More manure information can be found at



manure.unl.edu and lpeic.org.

The University of Nebraska-Lincoln does not discriminate based upon any protected status. Please see go.unl.edu/nondiscrimination.

Employee Training

At least 1 representative must complete Land Application Training every 5 years.

Training Type _____ Date _____

Employees Trained _____

Trainer & Location _____

Training Type _____ Date _____

Employees Trained _____

Trainer & Location _____

Training Type _____ Date _____

Employees Trained _____

Trainer & Location _____

Training Type _____ Date _____

Employees Trained _____

Trainer & Location _____

Training Type _____ Date _____

Employees Trained _____

Trainer & Location _____

Training Type _____ Date _____

Employees Trained _____

Trainer & Location _____

Notes:

*Additional space for records is provided in the back of the calendar.

JANUARY 2026

SUN

MON

TUE

WED

THU

FRI

SAT

				1 Rainfall_____ Wind_____ Waterline Inspection_____	2 Rainfall_____ Wind_____ Waterline Inspection_____	3 Rainfall_____ Wind_____ Waterline Inspection_____
4 Rainfall_____ Wind_____ Waterline Inspection_____	5 Rainfall_____ Wind_____ Waterline Inspection_____	6 Rainfall_____ Wind_____ Waterline Inspection_____	7 Rainfall_____ Wind_____ Waterline Inspection_____	8 Rainfall_____ Wind_____ Waterline Inspection_____	9 Rainfall_____ Wind_____ Waterline Inspection_____	10 Rainfall_____ Wind_____ Waterline Inspection_____
11 Rainfall_____ Wind_____ Waterline Inspection_____	12 Rainfall_____ Wind_____ Waterline Inspection_____	13 Rainfall_____ Wind_____ Waterline Inspection_____	14 Rainfall_____ Wind_____ Waterline Inspection_____	15 Rainfall_____ Wind_____ Waterline Inspection_____	16 Rainfall_____ Wind_____ Waterline Inspection_____	17 Rainfall_____ Wind_____ Waterline Inspection_____
18 Rainfall_____ Wind_____ Waterline Inspection_____	19 Rainfall_____ Wind_____ Waterline Inspection_____	20 Rainfall_____ Wind_____ Waterline Inspection_____	21 Rainfall_____ Wind_____ Waterline Inspection_____	22 Rainfall_____ Wind_____ Waterline Inspection_____	23 Rainfall_____ Wind_____ Waterline Inspection_____	24 Rainfall_____ Wind_____ Waterline Inspection_____
25 Rainfall_____ Wind_____ Waterline Inspection_____	26 Rainfall_____ Wind_____ Waterline Inspection_____	27 Rainfall_____ Wind_____ Waterline Inspection_____	28 Rainfall_____ Wind_____ Waterline Inspection_____	29 Rainfall_____ Wind_____ Waterline Inspection_____	30 Rainfall_____ Wind_____ Waterline Inspection_____	31 Rainfall_____ Wind_____ Waterline Inspection_____
				In case of a spill or discharge, take immediate measures to contain the spill and contact DWEE at 1-402-471-4239 within 24 hours. Written reports of a spill must be submitted within 5 days.		

Monthly Inspections Mortality Management System _____ Date _____ Notes _____
Weekly Inspections Lagoon Depth Marker (ft) _____ Date _____ Manure Storage & Equip. Inspection _____ Notes _____ Date _____ Water & Runoff Diversion, Containment Devices _____ Notes _____ Date _____ Maintenance or Repairs _____ Date _____ Notes _____
Lagoon Depth Marker (ft) _____ Date _____ Manure Storage & Equip. Inspection _____ Notes _____ Date _____ Water & Runoff Diversion, Containment Devices _____ Notes _____ Date _____ Maintenance or Repairs _____ Date _____ Notes _____
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Lagoon Depth Marker (ft) _____ Date _____ Manure Storage & Equip. Inspection _____ Notes _____ Date _____ Water & Runoff Diversion, Containment Devices _____ Notes _____ Date _____ Maintenance or Repairs _____ Date _____ Notes _____

Emergency Contacts 9-1-1 Supervisor: _____ Heavy Equipment*: _____ Extension: _____ Other: _____ *Know who to call for help to contain a manure spill!
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Manure & Wastewater Applied

Weather information for each date of application, the day prior to, and day after application should be recorded on the calendar or kept separately.

Field ID & Location_____ Acres Applied_____ Date_____

Manure Source_____ Application Method_____

Application Rate_____ Available N/acre*_____ Applied P_____

When Applying Liquid: Start Pump Time_____ Stop Pump Time_____

Total Hours Pumped:_____ Time of Monitoring:_____

*Nitrogen availability calculation worksheet can be found at the end of this publication.

Application Equipment Maintenance

For calibration instructions visit go.unl.edu/calibration.

Date	Equipment	Maintenance Done/ Calibration Type	Manure Source & Rate

How much water do cattle need and what water problems should cattle producers watch for?

Cattle require substantial water, 10 to 14 gallons per day for mature cows, with consumption rising during hot weather. Common issues include muddy or silty water and elevated levels of nitrates, sulfates, or disinfectants like chlorine, which can reduce intake and lead to digestive problems. Regular monitoring of water quality, including microbial and chemical testing, along with cleaning basins and shading tanks, can support better consumption and productivity.

For more info, go to
<https://go.unl.edu/ebnh>



The University of Nebraska-Lincoln does not discriminate based upon any protected status. Please see go.unl.edu/nondiscrimination.

Crops Harvested - Nutrients Removed

Date	Field ID & Location	Crop Type	Yield	Acreage	N Removed	P Removed

Estimated crop removal rates can be found at the back of this publication.

Crop Nutrient Needs for Next Year

Date	Field ID & Location	Crop Type	Yield	Acreage	N Required	P Required

Manure Sold or Given Away

When transferring manure, a nutrient analysis must be provided to the recipient. It is also recommended that your operation provide a written statement that manure/wastewater must not enter the waters of the state to the recipient.

Manure Volume/Weight_____ Date_____

Recipient Name & Address_____

Analysis Number_____

More manure information can be found at manure.unl.edu and lpeic.org.

JULY 2026

SUN

MON

TUE

WED

THU

FRI

SAT

			1 Rainfall _____ Wind _____ Waterline Inspection	2 Rainfall _____ Wind _____ Waterline Inspection	3 Rainfall _____ Wind _____ Waterline Inspection	4 Rainfall _____ Wind _____ Waterline Inspection
5 Rainfall _____ Wind _____ Waterline Inspection	6 Rainfall _____ Wind _____ Waterline Inspection	7 Rainfall _____ Wind _____ Waterline Inspection	8 Rainfall _____ Wind _____ Waterline Inspection	9 Rainfall _____ Wind _____ Waterline Inspection	10 Rainfall _____ Wind _____ Waterline Inspection	11 Rainfall _____ Wind _____ Waterline Inspection
12 Rainfall _____ Wind _____ Waterline Inspection	13 Rainfall _____ Wind _____ Waterline Inspection	14 Rainfall _____ Wind _____ Waterline Inspection	15 Rainfall _____ Wind _____ Waterline Inspection	16 Rainfall _____ Wind _____ Waterline Inspection	17 Rainfall _____ Wind _____ Waterline Inspection	18 Rainfall _____ Wind _____ Waterline Inspection
19 Rainfall _____ Wind _____ Waterline Inspection	20 Rainfall _____ Wind _____ Waterline Inspection	21 Rainfall _____ Wind _____ Waterline Inspection	22 Rainfall _____ Wind _____ Waterline Inspection	23 Rainfall _____ Wind _____ Waterline Inspection	24 Rainfall _____ Wind _____ Waterline Inspection	25 Rainfall _____ Wind _____ Waterline Inspection
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				<p>In case of a spill or discharge, take immediate measures to contain the spill and contact DWEE at 1-402-471-4239 within 24 hours. Written reports of a spill must be submitted within 5 days.</p>		

<p>Monthly Inspections</p> <p>Mortality Management System _____ Date _____</p> <p>Notes _____</p>
<p>Weekly Inspections</p>
<p>Lagoon Depth Marker (ft) _____ Date _____</p> <p>Manure Storage & Equip. Inspection _____</p> <p>Notes _____ Date _____</p> <p>Water & Runoff Diversion, Containment Devices _____</p> <p>Notes _____ Date _____</p> <p>Maintenance or Repairs _____ Date _____</p> <p>Notes _____</p>
<p>Lagoon Depth Marker (ft) _____ Date _____</p> <p>Manure Storage & Equip. Inspection _____</p> <p>Notes _____ Date _____</p> <p>Water & Runoff Diversion, Containment Devices _____</p> <p>Notes _____ Date _____</p> <p>Maintenance or Repairs _____ Date _____</p> <p>Notes _____</p>
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MAXIMIZE MANURE'S VALUE.

Get a nutrient analysis
and match application
to crop needs.

NebGuide 1335
go.unl.edu/g1335



Manure & Wastewater Applied

Weather information for each date of application, the day prior to, and day after application should be recorded on the calendar or kept separately.

Field ID & Location_____Acres Applied_____Date_____

Manure Source_____Application Method_____

Application Rate_____Available N/acre*_____Applied P_____

When Applying Liquid: Start Pump Time_____Stop Pump Time_____

Total Hours Pumped:_____Time of Monitoring:_____

Field ID & Location_____Acres Applied_____Date_____

Manure Source_____Application Method_____

Application Rate_____Available N/acre*_____Applied P_____

When Applying Liquid: Start Pump Time_____Stop Pump Time_____

Total Hours Pumped:_____Time of Monitoring:_____

*Nitrogen availability calculation worksheet can be found at the end of this publication.

Soil Sampling

Field ID & Location	Sample Depth	Date of Collection	Field ID & Location	Sample Depth	Date of Collection

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Crops Harvested - Nutrients Removed

Date	Field ID & Location	Crop Type	Yield	Acreage	N Removed	P Removed

Estimated crop removal rates can be found at the back of this publication.

Crop Nutrient Needs for Next Year

Date	Field ID & Location	Crop Type	Yield	Acreage	N Required	P Required

Maximizing Manure Efficiency in the Fall

As harvest ends and cooler weather arrives, fall becomes the optimal season for planning manure application—and doing it right can yield huge benefits. Treat manure with the same precision as commercial fertilizers by pairing grid soil sampling with variable rate application technology. This ensures manure is applied where crops need it most, reducing waste and saving on fertilizer costs. Integrating manure into site-specific fertility plans enhances soil health, supports balanced yields, and boosts long-term nutrient efficiency.



For more information, go to <https://go.unl.edu/3uoi>

More manure information can be found at manure.unl.edu and lpec.org.

NOVEMBER 2026

SUN	MON	TUE	WED	THU	FRI	SAT
1 Rainfall_____ Wind_____ Waterline Inspection	2 Rainfall_____ Wind_____ Waterline Inspection	3 Rainfall_____ Wind_____ Waterline Inspection	4 Rainfall_____ Wind_____ Waterline Inspection	5 Rainfall_____ Wind_____ Waterline Inspection	6 Rainfall_____ Wind_____ Waterline Inspection	7 Rainfall_____ Wind_____ Waterline Inspection
8 Rainfall_____ Wind_____ Waterline Inspection	9 Rainfall_____ Wind_____ Waterline Inspection	10 Rainfall_____ Wind_____ Waterline Inspection	11 Rainfall_____ Wind_____ Waterline Inspection	12 Rainfall_____ Wind_____ Waterline Inspection	13 Rainfall_____ Wind_____ Waterline Inspection	14 Rainfall_____ Wind_____ Waterline Inspection
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29 Rainfall_____ Wind_____ Waterline Inspection	30 Rainfall_____ Wind_____ Waterline Inspection			<div>Solid Manure Spreader</div> <div>What you'll need:<div>Tarp/plastic sheet, 4' x 5 1/2' X 3</div><div>What you'll do:<div><div>1. Lay out tarps in a line.</div><div>2. Apply manure across all tarps.</div></div></div></div>		

Monthly Inspections

Mortality Management System_____ Date_____

Notes_____

Weekly Inspections

Lagoon Depth Marker (ft)_____ Date_____

Manure Storage & Equip. Inspection_____

Notes_____ Date_____

Water & Runoff Diversion, Containment Devices_____

Notes_____ Date_____

Maintenance or Repairs_____ Date_____

Notes_____

Lagoon Depth Marker (ft)_____ Date_____

Manure Storage & Equip. Inspection_____

Notes_____ Date_____

Water & Runoff Diversion, Containment Devices_____

Notes_____ Date_____

Maintenance or Repairs_____ Date_____

Notes_____

Lagoon Depth Marker (ft)_____ Date_____

Manure Storage & Equip. Inspection_____

Notes_____ Date_____

Water & Runoff Diversion, Containment Devices_____

Notes_____ Date_____

Maintenance or Repairs_____ Date_____

Notes_____

Records for Nebraska Animal Feeding Operations

Operation ID: _____
ID Type: ☐ ISS Number ☐ Program Number ☐ Premises ID ☐ Operation Name ☐ Other: _____

General Directions

- Record the initials of the person performing the inspection each time (see table at front of calendar for initial codes).
- Checkmarks will not satisfy the recordkeeping requirements.
- Record any maintenance and/or repairs
- Correct all deficiencies within 30 days
- More detailed instructions can be found at the start of this calendar.

Accidental Spill or Discharge

Call DWEE at 1-402-471-4239

Date & time of spill or discharge _____ Length of time of spill or discharge _____
Location & Source of spill or discharge _____
Date & time of oral DWEE notification (must be within 24 hours) _____
Estimated discharge volume _____ Date of sample collection (analyzed by a laboratory) _____
Description of the cause of the discharge _____
Precipitation amount (if cause of the discharge) _____

Within 5 days, send a written spill report to:

Nebraska Dept. of Water, Energy, and Environment | ATTN: Livestock & Agriculture Section
245 Fallbrook Blvd, Suite 100 | Lincoln, NE, 68521

Annual Report (for NPDES permits)

Date report submitted to DWEE _____ **Reports are due March 1 of each year.**
Location of files & records for inspections _____
Dates of DWEE inspections _____

Disclaimer: The information in this calendar should assist producers to meet legal requirements and protect environmentally sensitive areas around their operations. The use of this calendar and accompanying information is intended to serve as a guide and does not guarantee compliance with the DWEE rules and regulations.

Soil Sampling

Field ID & Location	Sample Depth	Date of Collection	Field ID & Location	Sample Depth	Date of Collection

Phosphorus Index (P-Index)



Must be completed every 5 years for all manure fields. More information at go.unl.edu/Pindex.

Date Completed	Field ID & Location	Risk Rating	Management

Crops Harvested - Nutrients Removed

Date	Field ID & Location	Crop Type	Yield	Acreage	N Removed	P Removed

Estimated crop removal rates can be found at the back of this publication.

Crop Nutrient Needs for Next Year

Date	Field ID & Location	Crop Type	Yield	Acreage	N Required	P Required

Groundwater & Irrigation Water Sampling

Irrigation water samples must be taken and analyzed for nitrates every 5 years.

Sampling Location	Date of Collection	Results (ppm nitrate)

Manure Sold or Given Away

When transferring manure, a nutrient analysis must be provided to the recipient. It is also recommended that your operation provide a written statement that manure/wastewater must not enter the waters of the state to the recipient.

Manure Volume/Weight_____ Date_____

Recipient Name & Address_____

Analysis Number_____

Manure & Wastewater Sampling

Sampling Location	Sampling Details	Date of Collection

Application Equipment Maintenance

For calibration instruction visit go.unl.edu/calibration.

Date	Equipment	Maintenance Done/ Calibration Type	Manure Source & Rate

Due March 1, 2027

EXAMPLE NPDES ANNUAL REPORT to DWEE

Name of Facility: _____ Facility ID Number: _____ Section: _____ Township: _____ Range: _____

Address: _____ City, State and Zip code: _____

- **Livestock** - Maximum number of livestock at the CAFO at any one time during the previous calendar year: _____ head of _____ (species)
- **Generated Manure** - Total amount of waste generated by the operation during the previous calendar year, including manure and process wastewater: Solid tons = _____ Liquid gallons = _____
- **Transferred Manure** - The total amount of waste sold or given away by the operation in the previous calendar year, including manure and process wastewater. Solid tons = _____ Liquid gallons = _____
- **Land Application Responsibility** -
 - a. Primary responsibility for land application: Name: _____ Phone Number: _____ Address: _____ City, State and Zip code: _____
 - b. Is the person an authorized representative, owner, or an employee? Circle one. yes / no
 - c. Most recent date the person completed land application training? _____
- **Land Application Area** -
 - a. Total number of land application acres covered by CAFO's current Nutrient Management Plan. _____ acres.
 - b. Total number of acres used for land application of livestock waste during the previous year _____ acres.
- **Discharges** - Summary of all livestock waste discharges (including manure and process wastewater) from the production areas and the land application areas during the previous year. The summary must include the following information for each discharge:
 - a. Date discharge began _____ and ended _____
 - b. Time of day/night discharge occurred _____ and the duration of discharge _____ hours.
 - c. Approximate volume of waste discharged (provide supporting figures) = _____
- **Nutrient Management Plan Information** - CAFO's current Nutrient Management Plan on file with the Department was developed and approved by a certified nutrient management planner? Circle one. yes / no
- **Changes to Nutrient Management Plan** - Yes () or No () If the CAFO has made any changes to the nutrient management plan during the previous calendar year, the changes must be reported to the Department. Supporting documents must be included with the information submitted. The information submitted should include changes in:
 - a. Any changes in land application areas: _____
 - b. Methods of soil sampling or soil analysis: _____
 - c. Means of determining land application rates: _____
- **Individual field records** - For each field crop during the previous 12 months provide:
 - a. Actual crop planted and yield: _____
 - b. Actual N and P content of manure, litter, or wastewater applied (include analysis): _____
 - c. Results of calculations made according to NMP: _____
 - d. Amount or volume of manure, litter, and wastewater applied to each field during the past 12 months: _____
 - e. Results of any soil testing for N and P during the preceding 12 months: _____
 - f. Any conversion or availability factors used to determine nutrient availability: _____
 - g. Amount of supplemental fertilizer used in previous 12 months: _____

NOTE: Changes in nutrient management plans or other major modifications may require the submission of the 1) application to DWEE, 2) the appropriate application fee, and 3) Departmental approval prior to any changes.

Manure & Wastewater Applied

Date	Field ID & Location	Vol or Weight	Acreage Applied	Manure Source	Application Method	Available N	Applied P

Estimated Crop Removal Rates

Crop	DM%	N	P ₂ O ₅	Units	Crop	DM %	N	P ₂ O ₅	Units
Corn (grain)	85	0.70	0.33	lb/bu	Oats (grain)	86	0.6	0.28	lb/bu
Corn (silage)	35	9.0	4.2	lb/ton	Oats (straw)	90	11.0	4.0	lb/ton
Corn (stover)	85	10.0	3.5	lb/ton	Sorghum (grain)	86	0.65	0.40	lb/bu
Wheat (grain)	86.5	1.2	0.60	lb/bu	Sorghum (silage)	35	10	3.0	lb/ton
Wheat (straw)	90	10.1	3.5	lb/ton	Small Grain Hay	85	34	11.7	lb/ton
Soybean (grain)	87	3.6	0.80	lb/bu	Alfalfa (hay)	85	55	10.0	lb/ton
					Alfalfa (silage)	40	21.8	8	lb/ton

These numbers were derived from multiple states' extension publications. For other crops, please contact Javed Iqbal at javed.iqbal@unl.edu.

Crop Available Nitrogen Calculations

N Budget Records

	a. Site, Product, Crop & Yield Goal	b. Soil Test N, ppm	c. Planned N-rate*	d. NH ₄ N Content **	e. NH ₄ N Availability Factor	f. Available NH ₄ N (dxe)	g. Organic N Content	h. Organic N Availability Factor	i. Available Organic N (gxh)	j. N available from manure (f+i)	k. Application rate needed (c/j)	l. Actual application rate	m. Actual manure N applied	n. Commercial N applied ***	o. Irrigation N applied ***	p. Other N applied ***	q. Total N applied	r. Actual yield
Ex.	Home 80, feedlot solids, Corn, 200 bu.	15	100	4.8 <small>lb/ton lb/1000 gal lb/ac-in</small>	0.5 <small>(see figure below)</small>	2.4	16.4 <small>lb/ton lb/1000 gal lb/ac-in</small>	0.40 <small>(see figure below)</small>	6.6	9	11 <small>tons/acre 1000 gal/acre ac-in/acre</small>	10	90	0	10	0	100	215
1				<small>lb/ton lb/1000 gal lb/ac-in</small>			<small>lb/ton lb/1000 gal lb/ac-in</small>				<small>tons/acre 1000 gal/acre ac-in/acre</small>							
2				<small>lb/ton lb/1000 gal lb/ac-in</small>			<small>lb/ton lb/1000 gal lb/ac-in</small>				<small>tons/acre 1000 gal/acre ac-in/acre</small>							
3				<small>lb/ton lb/1000 gal lb/ac-in</small>			<small>lb/ton lb/1000 gal lb/ac-in</small>				<small>tons/acre 1000 gal/acre ac-in/acre</small>							
4				<small>lb/ton lb/1000 gal lb/ac-in</small>			<small>lb/ton lb/1000 gal lb/ac-in</small>				<small>tons/acre 1000 gal/acre ac-in/acre</small>							
5				<small>lb/ton lb/1000 gal lb/ac-in</small>			<small>lb/ton lb/1000 gal lb/ac-in</small>				<small>tons/acre 1000 gal/acre ac-in/acre</small>							

* This number should include all sources of N in lb/acre. Guidelines for fertilizer rates can be found in UNL publications listed on the manure resources page at go.unl.edu/manurepubs.
** Use "as is" basis from manure analysis. Units should be selected in NH-N column and used throughout the table.
*** Actual manure application rates should be adjusted for these N applications.

Future N Available

Availability Factors for Manure Nitrogen

	s. Next Year (l _g x0.20)	t. 2 years from now (l _g x0.10)	u. 3 years from now (l _g x0.05)
Ex.	33	16	8
1			
2			
3			
4			
5			

Ammonium-N (NH₄-N) Available this Year

Sidedress Application	Preplant application	Solid	Liquid*	Liquid**
Incorporated	Incorporated***			
Sprinkler Irrigation	Immediately	0.95	0.95	0.95
>0.4 inches applied	One day later	0.8	0.50	0.70
≤0.4 inches applied	Two days later	0.4	0.25	0.45
	Three days later		0.15	0.25
	7+ days later		0.00	0.40
	Not incorporated		0.00	0.00
* Applied when air temp is above 50 F.				
** Applied when air temp is at or below 50 F.				
*** Incorporation can be accomplished by tillage or rainfall of one-half inch or greater.				

Organic- N Available this Year †

Composted Feedlot Manure	0.15
Layer manure with no bedding	0.45
All other manures or stored liquids	0.40
Future Years	
Next Year	0.20
2 years from now	0.10
3 years form now	0.05
† Organic-N availability assumes spring seeded crops. For fall seeded crops multiply organic N availability factor by 0.7.	