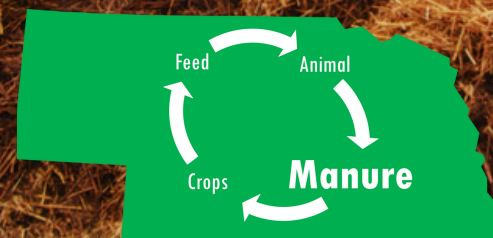


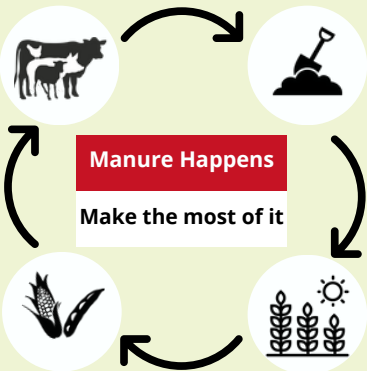


2025 NUTRIENT MANAGEMENT RECORD-KEEPING CALENDAR



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, Amber Vogel, Lindsey Roark, Javed Iqbal, Aaron Nygren, Beth Zelt, and Agnes Kurtzhals for their contributions and reviews. This publication was produced with the permission of Tamilee Nennich Adolph, on whose work it was based.

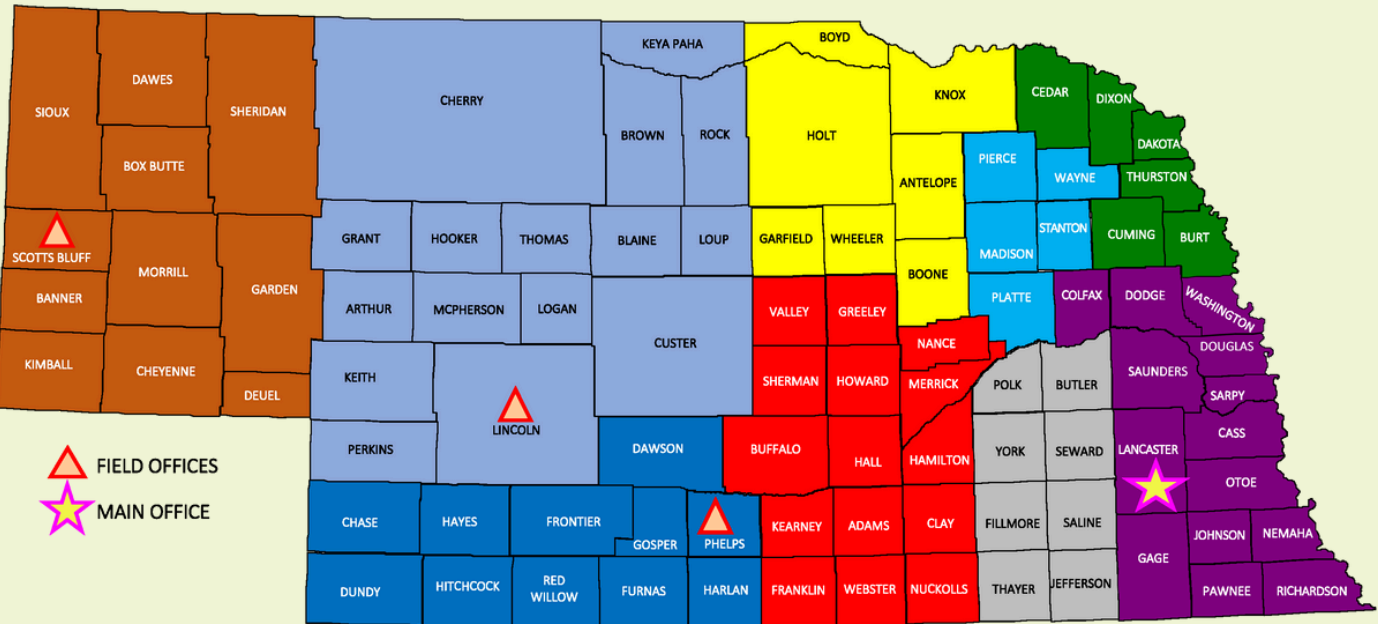


Reach out with any of your manure management questions!

NEBRASKA EXTENSION MANURE MANAGEMENT TEAM

Leslie Johnson	Haskell Ag Lab	402-584-3818	Animal Manure Management Extension Educator
Javed Iqbal	Agronomy & Horticulture	402-472-1432	Nutrient Management & Water Quality
Amy Schmidt	Biological Systems Engineering	402-472-0877	Manure, Mortality & Environmental Management
Todd Whitney	Phelps County	308-995-4222	Soil Microbial Research, Manure Management
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 Environment and Energy (NDEE)
Livestock Waste Control Inspection Areas of Coverage**



Brad Edeal, Livestock and Compliance Unit Supervisor - (402) 471-0282

Jerry Newth	(308) 991-1780	Patrick Ducey, NPDES & State Permits Supervisor	(402) 471-4288
Glenn Marker	(308) 765-9293		
Emily Kammerer	(308) 530-0874	Jinsheng You, Engineer	(402) 471-4202
Derek Schreiter	(402) 471-8132	Vacant, Engineer	(402) 471-4255
Garret Newcomer	(402) 471-4280	Tiffany O'Neill, Agronomist	(402) 471-4255
Nathan Kreutzer	(402) 471-8137		
Kevin Franzluebbbers	(402) 471-6687	Lindsey Turner Roark, Title 198 - Secondary Containment	(402) 471-4233
Jordan Jaeger	(402) 471-8131		
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 NDEE 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 NDEE 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 Effluent: 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 Effluent: 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 NDEE 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 lpec.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 2025

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 NDEE 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_____
Lagoon Depth Marker (ft)_____ Date_____
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Water & Runoff Diversion, Containment Devices_____
Notes_____ Date_____
Maintenance or Repairs_____ Date_____
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Lagoon Depth Marker (ft)_____ Date_____
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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_____

Emergency Contacts **9-1-1**

Supervisor: _____

Heavy Equipment*: _____

Extension: _____

Other: _____

*Know who to call for help to contain a manure spill!

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 Effluent: 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.

Trading Manure and Crop Residues

The easiest part of making sure any trade is fair is to make sure that the cash value of both products is similar. Along with fertilizer value, consider who is paying for harvest costs for the residues, application costs for the manure, and transportation costs for both products. Other things to consider include labor, feed value, proximity, loss of residue for soil cover, and soil health impacts.

For more info, go to
<https://go.unl.edu/tmcr23>



Notes:

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

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

An information sheet containing your operation name & address along with a written statement that manure/wastewater must not enter waters of the state & the nutrient analysis must be provided to the recipient.

Manure Volume/Weight_____Date_____

Recipient Name & Address_____

Analysis Number_____

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



AUGUST 2025

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 NDEE 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_____
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_____

**Order your 2026 UNL
Nutrient Management
Record-Keeping Calendar now!**

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 Effluent: 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 Effluent: 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.

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_____

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

Stockpiled Manure

Manure stockpiles must be located to prevent contamination of water, and should be placed to minimize odors and neighbor nuisances. If there is a chance runoff may leave the site, stockpiles should be covered, diked, or other means must be used to prevent runoff into water until the stockpile material is utilized. Two feet is the recommended minimum height for dikes. Remember, all discharges MUST be reported.



**For more information, go to
<https://go.unl.edu/deh9>**

Manure Sold or Given Away

An information sheet containing your operation name & address along with a written statement that manure/wastewater must not enter waters of the state & the nutrient analysis must be provided to the recipient.

Manure Volume/Weight_____ Date_____

Recipient Name & Address_____

Analysis Number_____

Manure Volume/Weight_____ Date_____

Recipient Name & Address_____

Analysis Number_____

Notes:

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

DECEMBER 2025

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 NDEE 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_____
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_____

**NEBRASKA**
MANURE APPLICATION & STOCKPILE SETBACKS
for **SMALL & MEDIUM**
Animal Feeding Operations
At least 30 ft. from any surface water, wells, open tile lines, etc.
All animal feeding operations must maintain a 1000-ft setback from municipal wells.

**30 FT.**

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 NDEE 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 NDEE 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 written spill report to:

Nebraska Dept. of Environment & Energy | Attn: Ag Section | PO Box 98922 | Lincoln, NE 68509

Annual Report (for NPDES permits)

Date report submitted to NDEE_____ *Reports are due March 1 of each year.*

Location of files & records for inspections_____

Dates of NDEE 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 NDEE rules and regulations.

Soil Sampling

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

Phosphorus 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

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

An information sheet containing your operation name & address along with a written statement that manure/wastewater must not enter waters of the state & the nutrient analysis must be provided 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, 2025

EXAMPLE NPDES ANNUAL REPORT to NDEE

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 NDEE, 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

Crop Removal Rates

Crop	DM%	N	P2O5	Units	Crop	DM %	N	P2O5	Units
Corn (grain)	85	0.70	0.31	lb/bu	Corn (stover)	85	17.7	3.5	lb/ton
Corn (silage)	35	9.0	3.2	lb/ton	Oats (grain)	86	0.60	0.23	lb/ton
Oats (straw)	90	12.7	2.5	lb/ton	Wheat (grain)	86.5	1.2	0.50	lb/ton
Wheat (straw)	90	10.1	2.1	lb/ton	Small Grain Hay	85	34	11.7	lb/ton
Soybean (grain)	87	3.5	0.79	lb/ton	Alfalfa (hay)	85	46.2	9.3	lb/ton
Alfalfa (silage)	40	21.8	4.9	lb/ton					

Other crop information can be found on page 89 of the Manure Application Workbook, which can be found at go.unl.edu/manure_workbooks.

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	lb/ton lb/1000 gal lb/ac-in	0.5 (see figure below)	2.4	16.4	lb/ton lb/1000 gal lb/ac-in	0.40 (see figure below)	6.6	9	11	tons/acre 1000 gal/acre ac-in/acre	10	90	0	10	0	100	215
1					lb/ton lb/1000 gal lb/ac-in				lb/ton lb/1000 gal lb/ac-in					tons/acre 1000 gal/acre ac-in/acre							
2					lb/ton lb/1000 gal lb/ac-in				lb/ton lb/1000 gal lb/ac-in					tons/acre 1000 gal/acre ac-in/acre							
3					lb/ton lb/1000 gal lb/ac-in				lb/ton lb/1000 gal lb/ac-in					tons/acre 1000 gal/acre ac-in/acre							
4					lb/ton lb/1000 gal lb/ac-in				lb/ton lb/1000 gal lb/ac-in					tons/acre 1000 gal/acre ac-in/acre							
5					lb/ton lb/1000 gal lb/ac-in				lb/ton lb/1000 gal lb/ac-in					tons/acre 1000 gal/acre ac-in/acre							

* 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 _{gx} 0.20)	t. 2 years from now (l _{gx} 0.10)	u. 3 years from now (l _{gx} 0.05)
Ex.	33	16	8
1			
2			
3			
4			
5			

Ammonium-N (NH ₄ -N) Available this Year					
Sidedress Application		Preplant application	Solid	Liquid*	Liquid**
Incorporated	0.95	Incorporated***			
Sprinkler Irrigation		Immediately	0.95	0.95	0.95
>0.4 inches applied	0.8	One day later	0.50	0.70	0.70
≤0.4 inches applied	0.4	Two days later	0.25	0.45	0.55
		Three days later	0.15	0.25	0.45
		7+ days later	0.00	0.00	0.40
		Not incorporated	0.00	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.	