



Know how. Know now

EC136

Nutrient Management Record Keeping Calendar

January 2014 - January 2015

Records for Nebraska Animal Feeding Operations

Operation	ID:

General Directions

- Record the initials of the person performing the inspection each time (see table below for initial codes). Check marks 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 (both drinking and cooling) within the drainage area.
- Weather Information Record any measurable rainfall that occurs at the facility.
- · 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 level is 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 storm water and runoff diversion devices used to channel contaminated storm water 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.
- The P-Index must be assessed for land application areas every 5 years, prior to land application.

Yearly Sample Collection and Analysis

- Collect manure and/or wastewater samples at least 1 time per year.
- Analyze manure/wastewater samples for at least total nitrogen, organic nitrogen, and phosphorus.
- Collect soil samples every year on sites used for nitrogen application.
- Analyze soil samples for phosphorus at least once in 5 years.

Yearly Site Requirements

- Complete and submit an annual report for the previous year to NDEQ 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 on the back page.

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 NDEQ rules and regulations.

Manure / Wastewater Weather information for each of should be recorded on the calc	date of application, the day prior to, and day after application	Employee Training At least 1 representative must comp years.	lete Land Application Training every 5
Field ID & Location	Acres Applied Date	Training Type	Date
Manure Source		Employees Trained	
	Available N/acre*Applied P	Trainer and Location	
Field ID & Location	Acres Applied Date	Training Type	Date
Manure Source	Application Method	Employees Trained	
Application Rate	Available N/acre* Applied P	Trainer and Location	
Field ID & Location	Acres Applied Date	Training Type	Date
Manure Source	Application Method	Employees Trained	
Application Rate	Available N/acre*Applied P	Trainer and Location	
*Nitrogen availability calculation worksl	neet can be found at the end of this publication.		
		Training Type	Date
_			
Dung	Beetles are Beneficial	Trainer and Location	
associated with below is strongly are important if fly reduction. Re	e beneficial insects that are often nanure. This species pictured attracted to cattle manure. They insects in manure recycling and ecent work has shown that these nificantly reduce the emission of	a written statement that manure / wa state and the nutrient analysis must Manure volume/weight	r operation name and address along with a stewater must not enter waters of the be provided to the recipient. Date

*Additional information and space for records is provided on the back page.

methane (CH₄) from manure on rangeland.

More manure information at manure.unl.edu and extension.org/animal_manure_management

Analysis Number:

Manure volume/weight ______ Date _____

Recipient Name and Address ______Analysis Number:_____

Manure volume/weight ______ Date _____

Recipient Name and Address _____



March 2014

Monthly Inspections

Mortality Management System _____ Date _____

Notes

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	yan rday	Weekly Inspections
		1		Ann	ual Report Due	RainfallWaterline Inspection	Note: Annual Permit Fee is due March 1 for large CAFOs, and Annual Reports are due for NPDES permit holders.
2	3	4	5	6	7	8	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date
Rainfall Waterline Inspection	Rainfall Waterline Inspection	Rainfall Waterline Inspection	Rainfall	RainfallWaterline Inspection	RainfallWaterline Inspection	RainfallWaterline Inspection	Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
9	10	11	12	13	14	15	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date
Rainfall Waterline Inspection	RainfallWaterline Inspection	Rainfall Waterline Inspection	Rainfall Waterline Inspection	RainfallWaterline Inspection	Rainfall Waterline Inspection	Rainfall Waterline Inspection	Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
16	17	18	19	20	21	22	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date
Rainfall Waterline Inspection	Rainfall Waterline Inspection	Rainfall Waterline Inspection	Rainfall	Rainfall Waterline Inspection	Rainfall Waterline Inspection	Rainfall Waterline Inspection	Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
23	24	25	26	27	28	29	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date
Rainfall Waterline Inspection	Rainfall	Rainfall Waterline Inspection	Rainfall Waterline Inspection	RainfallWaterline Inspection	RainfallWaterline Inspection	RainfallWaterline Inspection	Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
30	31			ase of a spill or dischediate measures to			Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date
Rainfall Waterline Inspection	Rainfall Waterline Inspection	spill and contact NDEQ at 1-402-471-4239 within 24 hours. Written reports of a spill must be submitted within 5 days.					Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes

Manure Sold or Given Away An information sheet containing your operation name and address along with a written statement that manure / wastewater must not enter waters of the state and the nutrient analysis must be provided to the recipient.	Weat	nure / Wastewater her information for each d be recorded on the cal	date of appl	ication, th		r to, and day af	ter application
	Field	ID & Location		Acres Ap	plied	Date	.
Manure volume/weight Date Date	Manı	ure Source	<i>,</i>	Applicati	on Method	d	
Recipient Name and Address	Appli	cation Rate	<i>F</i>	vailable	N/acre*_	Applied	d P
Manure volume/weight Date	Field	ID & Location		Acres Ap	plied	Date	;
Recipient Name and Address	Manı	ure Source	<i>H</i>	Applicati	on Method	d	
	Appli	cation Rate	<i>P</i>	vailable	N/acre*_	Applied	d P
Manure volume/weight Date	Field	ID & Location	<i>F</i>	Acres Ap	plied	Date	
Recipient Name and Address	Manı	ure Source	/	Applicati	on Method	d	
	Appli	cation Rate	<i>P</i>	vailable	N/acre*_	Applied	d P
Stockpiled Manure	1	ID & Location					
Otookphoa manaro	Appli	cation Rate	F	vailable	N/acre*_	Applied	d P
Manure stockpiles must be located and managed to prevent contamination of water.	1	ID & Location					
Stockpiles placed in risky areas must be	1	cation Rate					
covered, diked, or otherwise managed to prevent runoff of nutrients and organic		en availability calculation works					<u></u>
matter into water until the stockpile material	Crops Harvested - Nutrients Removed						
is utilized. Two feet is the recommended minimum height for dikes.		Field ID and Location	1	1	Acreage	N Removed*	P Removed
, and the second							
Remember, all discharges MUST be reported.	Cror	Nutriont Noods Es	timataa fa	r Novt \	/oor	<u> </u>	

Notes _ records is provided on the back page.

More manure information at manure.unl.edu and extension.org/animal_manure_management

* Crop removal rates can be found at the back of this publication.

Crop Nutrient Needs - Estimates for Next Year

Date | Field ID and Location | Crop Type | Yield



P Required

N Required

Acreage

August 2014

Monthly Inspections	
Mortality Management System	Date
Notes	

							Notes
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Weekly Inspections
					Rainfall	RainfallWaterline Inspection	Remember to order your 2015 Nutrient Management Record Keeping Calendar using the coupon here!
Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	9 Rainfall_ Waterline Inspection	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection_	Rainfall_ Waterline Inspection	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
Rainfall_ Waterline Inspection	Rainfall	Rainfall_ Waterline Inspection	Rainfall_Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_Waterline Inspection	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
Rainfall_ Waterline Inspection	Rainfall_Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_ Waterline Inspection	Rainfall_Waterline Inspection	Rainfall_Waterline Inspection	Lagoon Depth Marker (ft) Date Manure Storage & Equipment Inspection Notes Date Water & Runoff Diversion or Containment Devices Notes Date Maintenance or Repairs Date Notes
Rainfall_ Waterline Inspection		s	take immediate mea pill and contact NDE within 24 hours. Wri	will or discharge, asures to contain the EQ at 1-402-471-423 atten reports of a spill ed within 5 days.	39		

General Directions

- Record the initials of the person performing the inspection each time. Check marks will not satisfy the recordkeeping requirements.
- Record any maintenance and/or repairs.
- · Correct all deficiencies within 30 days.
- More detailed instructions can be found on page 3.

Phosphorus Inde	e)	K
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Must be completed every 5 years for all manured fields

Must be con	npieted every 5 ye	ears for al	i manured fields
Date	Field ID and	Risk	Management
Completed	Location	Rating	

Employee Training

Trainer and Location

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

Training every 5 years.	
Training Type	_ Date
Employees Trained	
Trainer and Location	
Training Type	
Employees Trained	
Trainer and Location	
Training Type	
Employees Trained	

Soil Sampling For guidelines see go.unl.edu/g1740 Field ID and Location Sample Depth Date of Collection

Manure / Wastewater Sampling (for quidelines see qo.unl.edu/q1450)

Sampling Location	Sampling Details	Date of Collection

Irrigation Water Sampling (for nitrates)

Sampling Location	Date of Collection	Results (ppm nitrate)

Annual Sludge Level

Depth	Date

Disclaimer

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Accidental Spill or Discharge

Date and time of spill	or discharge
Length of time of spill	or discharge
Location and source	of spill

Date and time of oral NDEQ notification (must be within 24 hours)

Call NDEQ at 1-402-471-4239.

Estimated discharge volume
Date of sample collection (must be analyzed by
a laboratory)
Description of the cause of the discharge

Precipitation	amount (if cause	of the	discharge)
	Date		

Within 5 days, send written spill report to:

Nebraska Dept. of Environmental Quality

Attention: Ag Section

1200 N Street, Suite 400

Lincoln. NE 68508

Annual Report (for NPDES permits)

Date report s	upmittea	TO NUEQ	
•			

Reports are due March 1 of each year.

Location of files and records for inspections

Dates of NDEQ inspections

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.

			,				
Date	Field ID and Location	Acreage Applied	Volume / Weight Applied	Manure Source	Application Method	Available N*	Applied P

^{*}Nitrogen availability calculations can be found at the end of this publication.

Crops Harvested - Nutrients Removed Field ID and Location Crop Type Yield Acreage N Removed P Removed Date **Crop Nutrient Needs - Estimates for Next Year** Field ID and Location N Required P Required Crop Type Yield Date Acreage

Manure Sold or Given Away (transferred)

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

provided to the recipient.	
Manure volume/weight	_ Date
Recipient Name and Address	
Analysis Number:	
Manure volume/weight	Date
Recipient Name and Address	
Analysis Number:	
	5 .
Manure volume/weight	_ Date
Recipient Name and Address	
Analysis Number:	
Manure volume/weight	_ Date
Recipient Name and Address	
Analysis Number:	

Crop Removal Rates

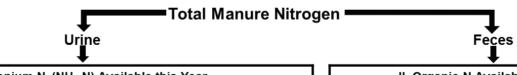
Other crop information can be found on page 89 of the Manure Application Workbook which can be found at: http://go.unl.edu/manure_workbooks

	Crop	Test Weight	DM, %	N	P ₂ O ₅	Units
-	Corn (grain)	56	84.5	0.70	0.31	lbs./bu.
	Corn (stover)		85	17.7	3.5	lbs./ton
-	Corn (silage)		35	9.0	3.2	lbs./ton
	Oats (grain)	32	86	0.60	0.23	lbs./bu.
	Oats (straw)		90	12.7	2.5	lbs./ton
	Wheat (grain)	60	86.5	1.2	0.50	lbs./bu.
	Wheat (straw)		90	10.1	2.1	lbs./ton
	Small grain hay		85	34.0	11.7	lbs./ton
	Soybeans (grain)	60	87	3.5	0.79	lbs./bu.
	Alfalfa (hay)		85	46.2	9.3	lbs./ton
	Alfalfa (silage)		40	21.8	4.9	lbs./ton

Cr	Crop Available Nitrogen Calculations								N B	udget	Rec	ords						
	a. Site, Crop, and Yield Goal	b. Soil Test N, ppm	c. Proposed N-rate*	d.NH₄-N Content †	e. Availablity Factor (see I in figure below)	f. Available NH ₄ -N (d X e)	g. Organic-N Content †	h. Availablity Factor (see II in figure below)	i. Available Organic-N (g X h)	j. N Available from Manure (f + i)	K. Application rateneeded to meetN need(c / j)	I. Actual Application Rate	m. Actual Manure N Applied (I X j)	n. Commercial N applied ‡	o. Irrigation N applied ‡	p. Other N applied ‡	q. Total N applied (m + n + o + p)	q. Actual Yield
Ex.	Home 1/4 Corn, 200 bu	15	100	4.8 lbs/ton lbs/1000 gal lbs/ac-in	0.5	2.4	16.4	0.25	4.1	6.5	15 ton/ac 1000 gal/ ac-in/ac	ac 12	78	0	20	0	98	215
1				lbs/ton lbs/1000 gal lbs/ac-in							ton/ac 1000 gal/ ac-in/ac	ac						
2				lbs/ton lbs/1000 gal lbs/ac-in							ton/ac 1000 gal/ ac-in/ac	ac						
3				lbs/ton lbs/1000 gal lbs/ac-in							ton/ac 1000 gal/ ac-in/ac	ac						
4				lbs/ton lbs/1000 gal lbs/ac-in							ton/ac 1000 gal/ ac-in/ac	ac						
5				lbs/ton lbs/1000 gal lbs/ac-in							ton/ac 1000 gal/ ac-in/ac	ас						

^{*} This number should include all sources of N in lbs/acre. Guidelines for fertilizer rates can be found in UNL Publications listed on the manure resources page at go.unl.edu/manurepubs

Availability Factors for Manure Nitrogen



I. Ammonium-N (NH₄-N) Available this Year								
Sidedress application ¹		Preplant application & Incoporated ¹						
Incorporated	1.0	Immediately 0.95						
Sprinkler Irrigation	0.5	One day later	0.50*	0.70†	0.70‡			
		Two days later	0.25*	0.55 [†]	0.45 [‡]			
		Three days later	0.15*	0.45†	0.40‡			
Preplant application &		7 or more days later	0.00*	0.40†	0.00‡			
Not Incorporated	0.0	* Solid Manure † Liquid Manure Applied when Air Temp is at or below 50° F ‡ Liquid Manure Applied when Air Temp is above 50° F						

II. Organic-N Available this Year ²							
Beef/Dairy		Poultry					
Solid (e.g. feedlot)	0.25	Deep Pit 0.45					
Stored Liquid	0.35	Solid with litter 0.30					
Compost	0.15	Solid without litter 0.35					
Swine		Next year 0.15					
Fresh	0.5	2 years from now 0.07					
Stored Liquid	0.35	3 years from now 0.04					

[†] 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.

¹ Incorporation can be accomplished by tillage or rainfall of one-half inch or greater.

² Organic-N availability assumes spring seeded crops such as corn and soybeans. For fall seeded crops such as wheat, multiply organic-N availability factor by 0.7.

CAFO ANNUAL REPORT Due March 1, 2014

Address: City, State and Zip code: Section: Township: Range: 1. Livestock - Maximum number of livestock at the CAFO at any one time during the previous calendar year. head of species 2. Generated Manure - Total amount of waste generated by the operation during the previous calendar year, including manure, and process wastewater. Manure gallons = Liquid gallons	Name of Facility:	Facility ID Number:			
2. Generated Manure - Total amount of waste generated by the operation during the previous calendar year, including manure, and process wastewater. Manure gallons = Liquid gal	Address:	City, State and Zip code:	Section:	Township:	Range:
2. Generated Manure - Total amount of waste generated by the operation during the previous calendar year, including manure, and process wastewater. Manure gallons = Liquid gal	1. Livestock - Maximum number	er of livestock at the CAFO at any one time during the previo	us calendar year.	head of	(species
3. Transferred Manure - The total amount of waste sold or given away by the operation in the previous calendar year, including manure and process wastewater. Manure tons =	2. Generated Manure - Total ar	nount of waste generated by the operation during the previo	us calendar year, including n		
Manure tons = Liquid gallons =	Manure gallons	= Liquid gallons =			
4. Land Application Responsibility - a. Person who has primary responsibility for the land application at the CAFO: Name:	3. Transferred Manure - The to	tal amount of waste sold or given away by the operation in t	he previous calendar year, ir	icluding manure and pi	rocess wastewater.
a. Person who has primary responsibility for the land application at the CAFO: Name: Name: Phone Number: Address: Description of the presentative of the properties of the pro	Manure tons =	Liquid gallons =			
Name: Phone Number: 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? 5. Land Application Area - a. Total number of land application acres covered by CAFO's current Nutrient Management Plan acres. b. Total number of acres controlled by the CAFO and used for land application of livestock waste during the previous year - including manure and process wastewater acres. 6. Discharges - (In case of spill or overflow incident; otherwise, not applicable) 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) =		•			
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? 5. Land Application Area - a. Total number of land application acres covered by CAFO's current Nutrient Management Plan. b. Total number of acres controlled by the CAFO and used for land application of livestock waste during the previous year - including manure and process wastewater. acres. 6. Discharges - (In case of spill or overflow incident; otherwise, not applicable) 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 ende b. Time of day/night discharge occurred and the duration of discharge b. Time of day/night discharge occurred and the duration of discharge c. Approximate volume of waste discharged (provide supporting figures) = 7. 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 8. 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: 9. 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: c. Results of any soil testing for N and P during the preceding 12 months: e. Results of any soil testing for N and P during the preceding 12 months: f. Any conversion					
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c. Most recent date the person completed land application training? a. Total number of land application acres covered by CAFO's current Nutrient Management Plan	Address:	City, State and Zip code:			
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a. Total number of land application acres covered by CAFO's current Nutrient Management Plan		person completed land application training?			
b. Total number of acres controlled by the CAFO and used for land application of livestock waste during the previous year - including manure and process wastewater		application cores severed by CAFO's surrent Nutrient Mana	goment Dian	coros	
wastewateracres. 6. Discharges - (In case of spill or overflow incident; otherwise, not applicable) 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) = 7. 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					anure and process
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c. Approximate volume of waste discnarged (provide supporting figures) =	a Date discharge bega	n and ended	minuty must molude the folio	wing information for cc	ion algoriange
c. Approximate volume of waste discnarged (provide supporting figures) =	b Time of day/night disc	charge occurred and the duration of disch	arge	hours	
7.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 8.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: 9. 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 : 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:	c. Approximate volume	of waste discharged (provide supporting figures) =			
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a. Any changes in land application areas:					
b. Methods of soil sampling or soil analysis:	submitted should include char	nges in:			
b. Methods of soil sampling or soil analysis:	a. Any changes in land	application areas:			
9. 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 : 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:	 b. Methods of soil samp 	ling or soil analysis:			
9. 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 : 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:	c. Means of determining	land application rates:	 		
a. Actual crop planted and yield: b. Actual N and P content of manure, litter, or wastewater applied: 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:					
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f. Any conversion or availability factors used to determine nutrient availability:					
g. Amount of supplemental fertilizer used in previous 12 months:	f. Any conversion or av	ailability factors used to determine nutrient availability:			
	g. Amount of supplemer	ntal fertilizer used in previous 12 months:			

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