NUTRIENT MANAGEMENT PLAN	
I. GENERAL INFORMATION	
A. FACILITY INFORMATION 1. Facility Name:	
2. Address (Physical Location): 3. City: 4. State: 5. Zip 6. Owner or Operator Name:	p Code:
B. NUTRIENT MANAGEMENT PLAN INFORMATION	
Indicate the date the nutrient management plan was or will be implemented:	
Note: A current version of the nutrient management plan must be implemented at the ti at the permitted facility.	ime of permitting and must be kept on site
2. Indicate the date this nutrient management plan was most recently reviewed or revised:	
C. TYPE AND NUMBER OF ANIMALS	
1. Indicate the number and type of animals covered by this nutrient management plan.	
Note: The NMP must address the manure, litter, and process wastewater generated from all the not just the sector that meets the CAFO size threshold.	animals confined at the permitted CAFO,
a. Animal Type	b. Number
D. RECORDKEEPING – GENERAL INFORMATION	
The following records must be maintained on site at the permitted facility for at least five years from recommended that these records be kept with the NMP. Check the box to indicate the records that	
$1.\ \Box$ A copy of the current site-specific NMP must be maintained on-site at the permitted facility.	
II. STORAGE	
NPDES requirement: Ensure adequate storage of manure, litter, and process wastewater, including procedures to ensure facilities. [40 CFR 122.42(e)(1)(i)]	proper operation and maintenance of the
 ELG requirements: The production area [must be] designed, constructed, operated and maintained to conta wastewater including the runoff and the direct precipitation from a 25-year, 24-hour rai the facility has requested and the Director has approved Voluntary Alternative Perform 412.31(a)(2). There must be routine visual inspections of the CAFO production area. At a minimum Weekly inspections of all storm water diversion devices, runoff diversion st contaminated storm water to the wastewater and manure storage structure; Daily inspection of water lines, including drinking water or cooling water Weekly inspections of the manure, litter, and process wastewater impoundn liquid impoundments as indicated by the depth marker in paragraph (a)(2) of [40 CFR 412.37(a)(1)] All open surface liquid impoundments must have a depth marker which clearly indicated 	infall event. [40 CFR 412.31(a)(1)(i)] OR hance Standards in accordance with 40 CFR, the following must be visually inspected: tructures, and devices channeling lines; hents; the inspection will note the level in of this section.
contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event. [40 CI	

A. STORAGE	NEEDS								
1. How much n	nanure is ge	enerated annually by the facility?tons							
2. How much litter is generated annually at the facility?tons									
3. How much p	rocess wast	tewater is generated annually by the facility?	gallons						
4. Are nutrients	imported f	from external sources? \square Yes \square No (If no, skip to section	n II.B)						
If yes, indica	te the type	and amount imported:							
b. □ Litter: _c. □ Process	wastewate	tons/yeartons/year r:gallons/year zer:lbs/year N,lbs/ ids):lbs/year N,lbs/	year P 'year P						
5. For manure, approximate		process wastewater imported from external sources, indicatiod:	ate the amount stored prior to l	and application and the					
T		a. amount stored	b. approximate s						
c. Manure		tons	(uu)	0)					
d. Litter		tons							
e. Process waste	ewater	gallons							
B. STORAGE	CAPACIT	TY							
For each stor	age structui	re, list the storage structure ID, type of storage, and total c	• •						
1. Storage		2 T		Capacity					
Structure ID		2. Type of Storage	a. Gallons or tons	etermining total capacity) b. Number of days					
			u. Gunons or tons	o. I taille of or days					
4. If storage str	uctures are	covered, describe the type of cover used:							
C. STORAGE	STRUCT	URE OPERATION AND MAINTENANCE							
1. Describe procedures to operate and maintain storage structures to hold all wastes accumulated during the storage period, the direct precipitation and runoff from a 25-year, 24-hour storm, including visual inspections, as appropriate. Attach additional sheets if needed.									
D. RECORDK	EEPING -	- STORAGE							
The following recommended the	ecords mus nat these re	t be maintained on site at the permitted facility for at least cords be kept with the NMP. Check the box(es) to indica	t five years from the date they te the records that will be main	are created. It is stained.					
contamina 2. Records of 3. Records of 4. Weekly re 5. Design do	ted storm we feet daily inspective feet weekly incords of decumentation	sual inspections of all storm water diversion devices, rund vater to the wastewater and manure storage structure. ection s of water lines, including drinking water or coolin spections of the manure, litter, and process wastewater im pth of manure and wastewater in all liquid impoundments in for all manure, litter, and wastewater storage structures.	g water lines; apoundments as as indicated by the depth mar	-					
 6. □ Documentation of all overflows from manure and wastewater storage structures. 7. □ Documentation of all corrective actions. 									

III. SITE SPECIFIC CONSERVATION PRACTICES

NPDES requirement:

Identify appropriate site-specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the United States. [40 CFR 122.42(e)(1)(vi)]

ELG requirement:

Unless the CAFO exercises one of the compliance alternatives provided for in paragraph (c)(5)(i) or (c)(5)(ii) of this section, manure, litter, and process wastewater may not be applied closer than 100 feet to any down-gradient surface waters, sinkholes, agricultural well heads, or other conduits to surface waters. [40 CFR 412.4(c)(5)]

- As a compliance alternative, the CAFO may substitute the 100-foot setback with a 35-foot wide vegetated buffer where application of manure, litter, or process wastewater is prohibited. [40 CFR 412.4(c)(5)(a)]

al	ternative co		c conditions will provide pollu	er is no necessary because implementation of stant reductions equivalent or better than the ()(b)]
A. BEST M.	ANAGEM	ENT PRACTICES		
Please check protect water		xt to any of the following best manag	gement practices that are being	g implemented at the facility to control runoff and
1. ☐ Buffers 5. ☐ Infiltrat		2. □ Land Application Setbacks6. □ Vegetative Filter	3. ☐ Conservation Tillage 7. ☐ Terrace	4. ☐ Constructed Wetlands 8. ☐ Other (specify):
B. SETBAC	CKS (for La	arge CAFOs)		
		ed 100-foot land application setbacks il well heads, or other conduits to wa		r of the U.S., open tile line intake structures, No
agricultura	al well head			e U.S., open tile intake structures, sinkholes, inure, litter, or process wastewater are prohibited
		emented approved alternative complia e describe: No, please explain:	ance practices to the 100-foot	setback or 35-foot vegetated buffer requirement?
_				
	using a cor		oot vegetated buffers, and/or a	pproved alternative compliance practices, please
a. Field ID	b. Ident	tify down-gradient water of the U.S. water of the U.S.	or conduit to c. Identi	fy practice used (setback, buffer, or alternative)
C. MAP				
		ling the location of each field and wa cation of setbacks identified in III.B,		ement practice checked in III.A, above, and, for
D. RECORI	DKEEPIN	G – CONSERVATION PRACTIC	EES	
		nust be maintained on site at the pern records be kept with the NMP. Che		years from the date they are created. It is records that will be maintained.
1. □ Records	s of inspect	ions and activities conducted to main	ntain the effectiveness of BMF	Ps implemented to control runoff of pollutants.

IV. MANURE, LITTER, PROCESS WASTEWATER AND SOIL TESTING NPDES requirement: Identify protocols for appropriate testing of manure, litter, process wastewater, and soil. [40 CFR 122.42(e)(1)(vii)] ELG requirement: Manure must be analyzed a minimum of once annually for nitrogen and phosphorus content, and soil analyzed a minimum of once every five years for phosphorus content. The results of these analyses are to be used in determining application rates for manure, litter, and other process wastewater. [40 CFR 412.4(c)(3)] A. SAMPLING FREQUENCY AND PARAMETERS 1. Indicate t he frequency of manure, litter, and process wastewater sampling: 2. Indicate the frequency of soil sampling: ____ 3. Indicate the form of each nutrient used for nutrient management planning. a. Nitrogen: b. Phosphorus: c. Other: B. SAMPLING PROCEDURES AND RESULTS 1. List the procedures used for sampling each of the following (Attach additional sheets if needed): a. manure: __ b. litter: c. process wastewater: d. soil: 2. Book Values If this is the first year of NMP implementation, indicate whether book values will be used for manure, litter, and process wastewater nutrient content: ☐ Yes ☐ No 3. List the nutrient content (sample results or book values) of manure, litter, process wastewater, and soil, by field, at the CAFO. For sample results, indicate the sample date; for book values, indicate the source used to determine the values. i. Nutrient Content (A) N (B) P ii. Date/Source (lbs/ton or gal) (lbs/ton or gal) iii. Manure iv. Litter v. Process wastewater vi. Soil, by field (attach additional sheets if needed): Field ID: Field ID: Field ID: Field ID: Field ID:

C. RECORDKEEPING - MANURE, LITT	TER, PROCESS WASTEWATER, AND SOIL TESTING								
	site at the permitted facility for at least five years from the date they are created. It is the NMP. Check the box(es) to indicate the records that will be maintained.								
 □ Records of manure, litter, and process wastewater sampling. □ Records of nitrogen and phosphorus analysis results for manure, litter, and process wastewater. □ Records of soil sampling for each field where manure, litter, or process wastewater is applied. 									
4. ☐ Records of phosphorus analysis results fo	for soil for each field where manure, litter, or process wastewater is applied.								
	nmary information on nutrient land application rates, including the source, amount, timin In addition, complete the attached Land Application Rate Worksheet to provide detailed d l below.								
	er or process wastewater in accordance with site specific nutrient management practices that the nutrients in the manure, litter or process wastewater. [40 CFR 122.42(e)(1)(viii)]	t							
the CAFO must minimize phosphors standards for nutrient management a. Include a field-specific a waters, and address the realistic production goal b. Include appropriate flex technical standards, include potential for phosphorus and other components, a [40 CFR 412.4(c)(2)]	r, and other process wastewater applied to land under the ownership or operational control or our and nitrogen transport from the field to surface waters in compliance with the technical established by the Director. Such technical standards for nutrient management shall: assessment of the potential for nitrogen and phosphorus transport from the field to surface form, source, amount, timing, and method of application of nutrients on each field to achieved, while minimizing nitrogen and phosphorus movement to surface waters; and cibilities for any CAFO to implement nutrient management practices to comply with the luding consideration of multi-year phosphorus application on fields that do not have a high is runoff to surface water, phased implementation of phosphorus-based nutrient management as determined appropriate by the Director.	l eve							
A. NUTRIENT TRANSPORT RISK 1. Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify:	sk of nutrient transport from the land application areas to surface waters:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations									
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA									
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA	ATES, AND TIMING								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used for a. Field ID	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used for a. Field ID	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used for a. Field ID	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used for a. Field ID i. Manur i. Manur	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used fo a. Field ID i. Manur 2. Describe procedures to periodically inspect 3. Equipment calibration a. How often is land application equipment	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of: re/Litter ii. Process wastewater t land application equipment for leaks, including the frequency and timing of inspections:								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used fo a. Field ID i. Manur 2. Describe procedures to periodically inspect 3. Equipment calibration a. How often is land application equipment	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of: re/Litter ii. Process wastewater t land application equipment for leaks, including the frequency and timing of inspections: t calibrated?								
Indicate the method(s) used to assess the ris a. □ Phosphorus Index b. □ Nitrogen Leaching Index c. □ Soil Phosphorus Threshold Values d. □ Soil Test Recommendations e. □ Other, please specify: □ □ ■ B. LAND APPLICATION METHODS, RA 1. For each field, identify the methods used for a. Field ID □ i. Manure 2. Describe procedures to periodically inspect □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	ATES, AND TIMING or land application of manure/litter, and process wastewater: b. Method for land application of: re/Litter ii. Process wastewater t land application equipment for leaks, including the frequency and timing of inspections: t calibrated? ents for each piece or type of land application equipment:								

in questi	field, indicate whether on (W)IV.D.7 (for nitrets if needed.														
		c. Supplemental N								e. Total to be applied (lbs/acre)					
a. Field ID	b. Nutrient Basis (circle one)	source f applicat		sed land		d. Application Rate (tons or gallons/acre)				i. N		ii. P (Indicate if multi- year P application)			
	N or P				***************************************	re/litter:									
						ss wastew re/litter:	ater:								
	N or P					ss wastew	ater								
						re/litter:	utcr.								
	N or P				***************************************	ss wastew	ater:								
	N or P					re/litter:									
						ss wastew	ater:								
	N or P					re/litter: ss wastew	ater								
	N. D.				_	re/litter:	utor.								
	N or P				Proce	ss wastew	ater:								
5. Indicate	the timing for land app	plication o	f manui	e/litter ar	nd process	s wastewa	iter:								
	р.:						b. C	Other							
	a. Daily	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
c. Manure/	i. □ All year	vari	1 00	1,141	1.191	11143	- U GII	0 0.1	1148	Зер	300	1101	200		
litter	ii. ☐ Growing season														
d. Process wastewater	i. □ All year ii. □ Growing season														
	ENT BALANCE the amount of each nu	1					d exporte			1			. 1		
a. Nutrient	Source	b. Amount generated on the CAFO				to land owned or operated CAFO				nom the CAFO					
		i. total		l. N lbs)	iii. P (lbs)	i. tota	1 1	. N bs)	iii. P (lbs)	i. tota	1	ii. N (lbs)	iii. P (lbs)		
i. Manure ii. Litter			_												
	Wastewater														
iv. Compos	t														
	cial (indicate type)		1	n/a								n/a			
	rcial (indicate type)			n/a								n/a			
2. Total nu	mber of acres availabl	e for land	applica	tion of ma	anure, litt	er, and pr	ocess wa	stewater:	·			_ acres			
	the minimum number						tter, and	process v	wastewate	r nutrien	ts acco	rding to rea	alistic		
y lord on	dia son test	tations and soil test recommendations (i.e., agronomic rates). a. Total Generated (lbs)						b. Application rate (lbs N or P/acre) c. Minimum acres needed							
c. Nitrogen			(2.2)						,						
d. Phosphor															
	nimum number of acress manure, litter, and						res of lan	d needed	l for nutri	ent utiliza	ation (V	7.C.3), des	cribe		
	,,	1				1									

D. RECORDKEEPING - LAND APPLICATION								
The following records must be maintained on site at the permitted facility for at least five years from the date they are created. It is recommended that these records be kept with the NMP. Check the box(es) to indicate the records that will be maintained.								
1. □ Documentation of the nutrient basis for land application for each field (N- or P-based) 2. □ Documentation of the total nitrogen and phosphorus to be applied to each field including nutrients from the application of manure, litter, and wastewater and other sources. 3. □ For each application event where manure, litter, or process wastewater is applied, document the following by field: a. □ Date of application b. □ Method of application c. □ Weather conditions at the time of application and for 24 hours prior to and following application d. □ Total amount of nitrogen and phosphorus applied 4. □ Documentation of the crop and expected yield for each field 5. □ Records of periodic land application equipment inspections. 6. □ For all manure transfers, the CAFO must maintain the following records: a. □ date of transfer b. □ name and address of recipient c. □ approximate amount of manure, litter, and/or process wastewater transferred								
VI. ANIMAL MORTALITIES								
NPDES requirement: Ensure proper management of mortalities (i.e., dead animals) to ensure process wastewater storage or treatment system not specifically designe ELG requirement: Mortalities must not be disposed of in any liquid manure or process was discharge of pollutants to surface water, unless alternative technologies to handle mortalities. [40 CFR 412.37(a)(4)]	d to treat animal mortalities. [40 CFR 122.42(e)(1)(II)] stewater system, and must be handled in such a way as to prevent the							
A. METHOD OF ANIMAL MORTALITIES HANDLING	B. METHOD OF MORTALITY STORAGE PRIOR TO							
Composting Rendering Burial Other:	FINAL DISPOSAL							
C. RECORDKEEPING - ANIMAL MORTALITIES								
The following records must be maintained on site at the permitted facili recommended that these records be kept with the NMP. Check the box(
Documentation of mortality handling practices. N.H. DIVERDIGION OF CHEAN WATER.								
	ction area. At a minimum, the following must be visually inspected: levices, runoff diversion structures, and devices channeling							
A. DIVERSION OF CLEAN WATER FROM THE PRODUCTION	AREA							
1. Is clean water diverted from the production area? \Box Yes \Box No								
a. If Yes, please describe the clean water diversion system:								
b. If No, please ensure that the attached calculations for determining including clean water that has not been diverted from the production								

B. RECORDKEEPING – DIVERSION OF CLEAN WATER
The following records must be maintained on site at the permitted facility for at least five years from the date they are created. It is recommended that these records be kept with the NMP. Check the box(es) to indicate the records that will be maintained.
1. Records of weekly visual inspections of all storm water diversion devices, runoff diversion structures, and devices channeling contaminated storm water to the wastewater and manure storage structure.
VIII. PREVENTION OF DIRECT CONTACT OF ANIMALS WITH WATERS OF THE UNITED STATES
NPDES Requirement: Prevent direct contact of confined animals with waters of the United States. [40 CFR 122.42(e)(1)(iv)]
A. PREVENTION OF DIRECT CONTACT
1. Do the animals have access to waters of the United States within the production area? \Box Yes \Box No
B. MEASURES TO PREVENT DIRECT CONTACT
1. List the measures used to prevent direct contact (e.g. fencing) of animals with waters of the United States within the production area:
IX. CHEMICAL HANDLING
NPDES requirement: Ensure that chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants. [40 CFR 122.42(e)(1)(v)] A. MEASURES FOR CHEMICAL HANDLING
Check the appropriate boxes below to indicate the measures taken to prevent pesticides, commercial fertilizers, hazardous and toxic chemicals, and petroleum by-products from contaminating process wastewater or storm water storage and treatment systems:
1. Chemicals are stored in proper containers. Please describe:
2. Chemicals are properly disposed of that have expired or will not be used. Please describe:
3. Chemical containers are properly disposed. Please describe:
4. \Box Chemical storage areas are self-contained (no drains or other pathways for spilled chemicals to exit the storage area). Please describe:
5. Chemical storage areas are covered to prevent contact with rain and snow. Please describe:
6. Emergency procedures and equipment are in place to contain and clean up chemical spills. Please describe:
7. Chemical handling and equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. Please describe:
8. Chemicals are handled according to the label. Please describe:
B. RECORDKEEPING - CHEMICAL HANDLING
The following records must be maintained on site at the permitted facility for at least five years from the date they are created. It is recommended that these records be kept with the NMP. Check the box(es) to indicate the records that will be maintained.
1. Records of inspections and maintenance activities conducted to ensure that chemical and other contaminants do not enter any manure, litter, process wastewater, or storm water storage or treatment system not specifically designed to treat such chemicals and other contaminants.

X. CERTIFICATION								
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all								
	attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the							
information is true, accurate and complete. I am aware that there are	e significant penalties for submitting false information, including the							
possibility of fine and imprisonment.								
A. NAME AND OFFICIAL TITLE (PRINT OR TYPE)	B. PHONE NO.							
	()							
C. SIGNATURE	D. DATE SIGNED							

NMP TEMPLATE ATTACHMENT - LAND APPLICATION RATE WORKSHEET

The following information is to be provided to support the land application rate summary information included in Section V. of the NMP Template. Provide the information requested, by field, for the first year covered by the NMP. Application rates for subsequent years should be revised, as appropriate, based on annual manure, litter, and process wastewater analyses, soil analyses, and other applicable data.

Sections (W)I, (W)II, and (W)III apply to all fields. Section (W)IV is field-specific. Complete a separate section (W)IV for each field. As an alternative, data report outputs from Manure Management Planner or similar nutrient management planning software may be submitted, provided the data reports include all of the requested information.

W)I. YEAR	:				
W)II. CRO	P NUTRIEN	T NEEDS			
. Identify 1	the crops that	may be grown, and the yi	eld goals and nuti	rient needs for each.	
1. Crop		2. Y	ield goal	3. Crop nitrogen needs (lbs/acre)	4. Crop phosphorus needs (lbs/acre)
. Describe necessary		sed to estimate realistic y	ield goals listed in	n (W)I.A.2. Attach ad	ditional sheets if
Identify (the source of	the phosphorus and nitrog	en utilization data	a listed in (W)I.B, abo	ve:
W)III. SUN	MARY FIE	LD INFORMATION			
A. Field ID	B. Acres	C. RUSLE2 Predicted Soil Loss (tons/acre) (attach calculations)	D. % Slope	E. P Index 1. Method	or Risk Index 2. Result

(W)IV. FIELD-SPECIFIC LAND APPLICATION RATE DETERMINATION

Complete the following E for each field.	owing	sections f	for eac	h field. Iı	ndicate the fi	eld II	D belov	w and <u>co</u>	mplete a sep	arate s	set of tables B –
A. FIELD ID:											
B. NUTRIENT NI	EEDS	S - NITRO	GEN								
1. Crop 2. Rotation or Season Need 2. Rotation Need 2. Manura b. Legume Fertilizer									6. Additional N needed		
		01 2 4 4 5 6		(lbs/acre)	u. Triumui		0. LCg	Sume	(lbs/acr	e)	(lbs/acre)
C. NUTRIENT N	EEDS	S - PHOSP	HORU	JS		•					
1. Crop	2. F	Rotation Season	3.	Crop P l (lbs/acre	4. Plant Soil P (ommercial zer (lbs/acre)		Additional P eeded (lbs/acre)
			- 1000	()		,		(100, 11010)	,	(===, ====)
If you have specific (W)IV.D. If you have complete table (W)	nave s	specified p									
D. APPLICATION	N RA	TES - N R	RECON	MMENDA	ATION						
1. Crop	2.	Net Lbs	3. Ni	trogen	4. Total	5.	N Cont	ent of	6. Amoun	t of	7. Application
1		of N Los		υ	Pounds of	Ma	Ianure (lbs/ton		manure need		rate (lbs or
	ne	eded			N needed	or	gallon)		(lbs or gal	lons)	gallons/acre)
E. APPLICATION	N RA	ΓES - P R	ECOM	IMENDA	ATION						
1.0		1 a B	1 0	1000	03.5		1 4 4	. 0			1
1. Crop		2. Poun P neede			ntent of Man	ure		nount of			plication rate
		r neede	u	(108/ton	or gallon)		neede	a (108 0)	or gallons) (or gallons/acre)
				1							