Example Waste Utilization / Nutrient Management Plan

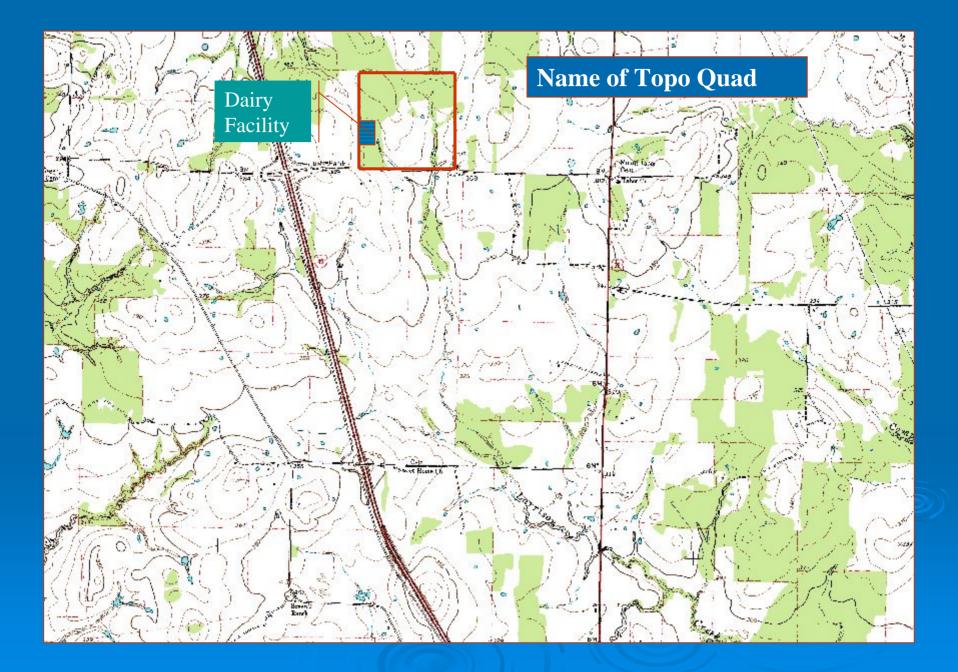
Revised 7/05

Step 1 - Locate Operation

Locate on Topo Map first.

 Note if any named streams or water bodies present within 2000 feet of the application area of any field, look for other areas of environmental significance.







Locate operation on a soil map.
 If published soil survey is not available

 Contact county office to see if they have maps available

 If no maps available locally, have office contact Area Resource Soil Scientist to get mapping done.







 Again, note if any named water bodies present within 2000 feet of the application area of any field, look for other areas of environmental significance.
 Check soils to see if any are frequently flooded.

Step - 4

Site visit

- Discuss operation with producer and mention need to get soil tests on all application fields
- Gather facility data needed for waste utilization plan
- Record slope of the predominant soil of each field
- Note quality of perennial grass cover
- Record cropping system in cropland
- Record yield goal for crops

Step - 5

Develop plan map

 Operation may be located on an aerial photo.
 A sketch of the property can be made.

 You must have <u>current</u> soil test results for each field before you can complete plan.



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N

Scale 1:7920



> Create an application area map

- Show buffers
- Filter Strips
- Other out areas
- > Adjust field acreage due to these out areas

Application Area Map

Dairy Lagoons

Dairy Blds.

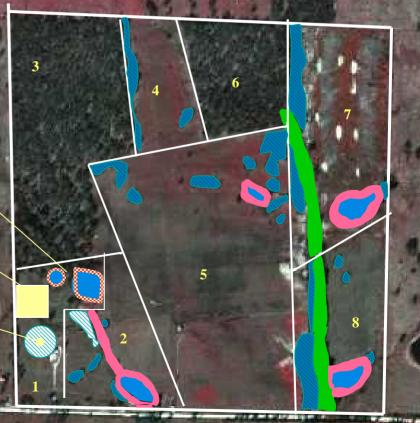
Well



Acres Available For Application

- 1 Headquarters 0.0 ac
- 2 Pasture 6.3
- **3 Pasture 0.0 ac**
- **4 Pasture 7.7 ac**
- 5 Hay Land 40.5 ac
- 6 Wildlife land 0.0 ac
- 7 Hay land 20.7 ac
- 8 Hay land 10.6 ac

Filter Strip Other non-application



3

Scale 1:7920

Step - 7

Locate fields on soil map.

Find soil information needed for P-Index or other waste utilization planning

- Soil legend
- Soil and Water Features
- Physical & Chemical Properties of Soil

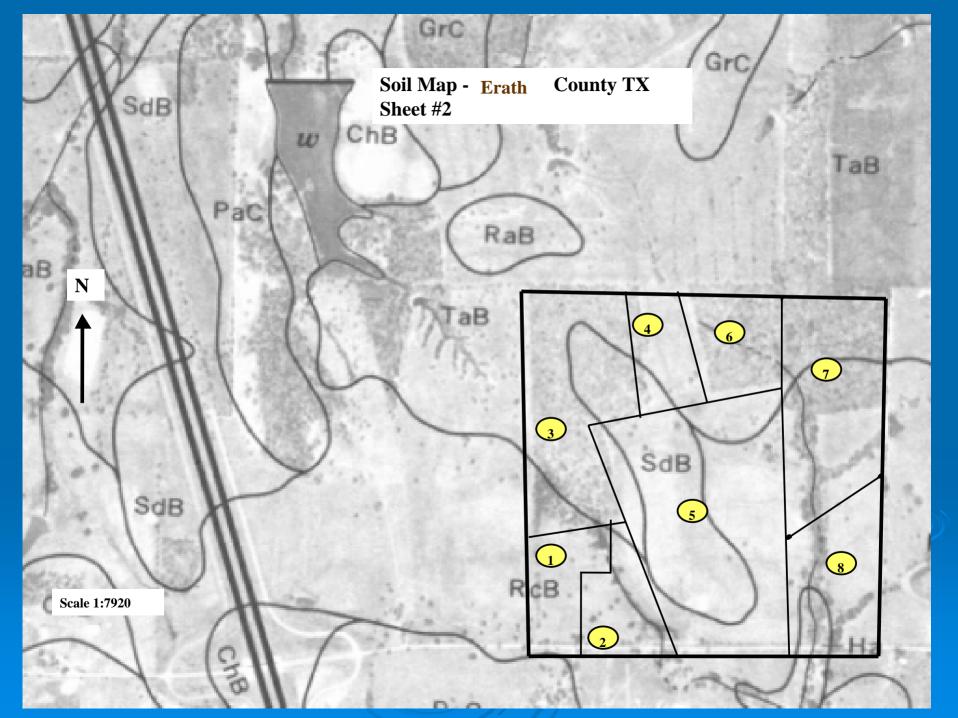


TABLE 4. -- ACREAGE AND PROPORTIONATE EXTENT OF THE SOILS

Map ymbol	Soil name	Acres	Percen
Yndor			
	Arriola fine sandy loam, 5 to 8 percent slopes	722	0.3
		702	1 0.2
		2,747	1 0.9
		21,397	1 7.:
		609	1 0.:
		1,358	1 0.
		12,068	4.
		2,825	1 0.
		887	1 0.
		7,833	2.
		375	1 0.
		343	1 0.
		999	1 0.
		2,336	1 0.
		780	1 0.
		769	1 0.
		1,654	1 1.
		4,307	1 0.
		4,323	1 1.
h	Gladewater clay, occasionally flooded	1,935	1 0.
n	Gladewater clay, frequently flooded	25,031	1 8.
0	Gladewater and Nanatche soils, frequently flooded	4,026	1 1.
pA	Gowker_Clay loam, frequently induced Gowker-Portersprings complex, 0 to 2 percent slopes	15,826	1 5.
rC	[Gredge fine sandy loam, 5 to 8 percent slopes[[Gredge fine sandy loam, 5 to 8 percent slopes	6,254	1 2.
rD	Gredge fine sandy loam, 5 to 8 percent slopes Hatliff fine sandy loam, frequently flooded	5,134	1 1.
la	Hatliff fine sandy loam, frequently flooded	1,053	1 0.
luC		2,669	1 0.
TeD		4,604	i 1.
a		2,247	i 0.
(f			i 0.
CuC		2,015	i 0.
fA			1 0.
laA		10,846	1 3.
la IvB			1 0.
PaC		2,678	1 0.
RaB			11
RbA			1 4
RCB			3.
ROC			1 0.
RVC			1 0.
SaB			
SdB			
SpB			
TaB			
ToD			•
ACA			
ZaB			
ZaC2			
ZaD			
ZgC3			
ZuB			
		502	
	Water areas more than 40 acres in size	115 	
	Total	302,451	100

* Less than 0.1 percent.

Soil name and	 Hydro-	Flooding			Hig	h water	table	l Bee	drock	Risk of	corrosion
map symbol		Frequency	Duration	 Months 	 Depth 	 Kind 	 Months 	 Depth 	 Hard- ness	1	1.
	1			1	Ft	1	1	In	1	1	1
RbA*:	1			1	1	1	1	1	1	1	L.
Rader	D	None			12.0-5.0	Perched	 Dec-Mar	>60		 High	 Moderate.
Derly	I D	None			0-1.5	Perched	 Dec-Apr	>60		 High	 High.
RcB Robco	i c	None 			 1.5-3.5 	 Perched	 Jan-Apr 	 >60 		 High	 High.
RoC, RvC Rosanky	l C	 None 		 	 >6.0	 	 	 >60		 High	Low.
SaB Silawa	в	None			 >6.0	 		>60		 Moderate 	 Moderate.
SdB Silstid	A	None		 	 >6.0 	 		>60 		 Moderate 	 Moderate.
SpB Spiller		None		 	 >6.0 	 		>60 		 High	 Moderate.
TaB Tabor	D	None		 	 >6.0 	 	 	>60		 High	 High.
ToD Tonkavar	A	None			 4.0-6.0 	 Perched	 Nov-May 	>60 		 Moderate	High.
WcA	D	None 			 0.5-1.5 	Perched	 Nov-Mar 	>60		 High	High.
ZaB, ZaC2 Zack	DI	 None 			>6.0 		 	>60		 High	Low.
ZaD Zack	DI	 None 			 >6.0 			>60		 High	Low.
/gC3*: Zack Gullied land.	D [1]]	 None 			>6.0 			>60		High	Low.
 uB Zulch	 D	None			0.5-1.0	Perched	Dec-Feb	>60		High	Moderate.

TABLE 18. -- SOIL AND WATER FEATURES -- Continued

* See description of the map unit for composition and behavior characteristics of the map unit.

Erath County, Texas

TABLE	17	PHYSICAL	AND	CHEMICAL	PROPERTIES	OF	THE	SOTT.S
-------	----	----------	-----	----------	------------	----	-----	--------

Soil name and map symbol	 Depth 	 Clay 	 Moist bulk density	 Permeability	 Available water capacity	 Soil reaction 	 Shrink- poten
	<u>In</u>	Pct	g/cc	In/hr	In/in	l pH	1
RaB Rader	25-34 34-50	18-30 35-50	1.40-1.60 1.40-1.60 1.45-1.70 1.45-1.70	0.2-0.6 <0.06	0.10-0.15 0.12-0.18 0.12-0.18 0.12-0.18	5.1-6.5 4.5-5.5	 Low Moderat High Moderat
RbA*:	ii		i i			1	
Rader	24-29 29-33	18-30 35-50	1.40-1.60 1.40-1.60 1.45-1.70 1.45-1.70	0.2-0.6 <0.06	0.10-0.15 0.12-0.18 0.12-0.18 0.12-0.18	5.1-6.5 4.5-5.5	 Low Moderat High Moderat

Step 8

Confer with engineer in charge of designing the waste management system in order to get quantities of waste to be land applied.

Start entering data into ag. waste utilization / nutrient management spreadsheet.

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5										'S'			
7	General		5 Database										
8			USDA - NRCS - Texas										
9 10													
11	Buffers		Wast	e Utilizat	tion and	Nutrien	it Manage	ment		OProtect All			
12										Sheets			
13 14													
15	AFO Info									Actual Application			
16										Documentatic			
17 18					590AFO-E	raftVers1							
19	Analysis												
20	Information ^a	From this she	eet, you can g	o to any work	sheet for view	ing. When y	you begin to en	ter data, use tr	ie macros to	Cover Page			
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25 26		Data ca	n only be inpu	ited into Yello	ow Cells. More	e details car	n be found on th	e Instructions	Sheet.				
20			Crops	Crops									
28	Bird Information	West TX PI	Information	Information	Instru	ctions	Chicken Plan	Solids and Effluent Plan	Tables	Birds			
29 30	monuton		for Effluent	for Solids				Lindent Fidi					
31	1				2	Available		r					
32	PI Report	East TX PI	Runoff	Adjust Solids	Adjust Effluent	Water	Solids Plan	Effluent Plan	CLEAR A	LL DATA			
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Go to Welcome Page	Proceed to Next Entry										
			GENERAL DATA		<u> </u>						
Data d	Data on all Entry Sheets are automatically placed into the correct place on all other sheets. Values on the "S" Sheet come from the Nutrient Management Standard (590).										
		Date:	7/16/2005								
	Farm	er Name:	Joe Doe								
	Planner	's Name:	Jim Childers								
	Your	Position:	Conservation Agronomist								
	Your E	mployer:	USDA - NRCS								
	Your Mailing	Address:	13434 Leopard St, Suite A-10								
	Your Town	, ST, Zip:	Corpus Christi, TX, 78410								
	Phone	Number:	361-241-0609								
County in wi	nich the Land is	located:	Erath		(must use the drop down menu)						
	Type of Wa	ste Plan:	Other AFO-CAFO Waste Plan		(must use the drop down menu)						
TMDL watershed for nutrients? Yes or No			Yes		TMDL watershed - Watershed that has been designated a TMDL area as being impaired due to						
ls any fiel	d PERMITTED b ነ	y TCEQ? ′es or No	Yes		agricultural non-point source nutrients or organics.						
	lf permitted,	Permit #:	345								

Go Welco Pag	ome	to to t Entry									
Application Areas											
Enter the field numbers and acres for each field in the appropriate block below. Enter the acres in each field which will be devoted to each type of buffer and/or non-application area. The value calculated as Actual Application Acres will be the acres used in the plan.											
	FS = Filter S OLEA =	— ·	= Field Bo 1d Exclusi	-	-		•				
Field No.	Total Field Acres	FS	FB	RFB	OLEA	Total Buffer Acres	Actual Application Acres				
2	9.5	19			13	3.2	6.3				
4	8.7				1.0	1.0	7.7				
5	44 D	1.2			23	35	40.5				
7	24.8	1.1		1.5	1.5	4.1	20.7				
8	16.1	1.0		2.7	1.8	55	10.6				

Go to Welcome Page	Proceed to Next Entry								
		Er	nter Data as Requested	ter Data as Requested					
			AFO-CAFO Data						
		Plan Year:	2005	ļ					
	Number o	f animals:	850	ſ					
	Approximat	te Weight:	1400						
Daț	ys per year in con	finement:	365.0						
	Hours per day	confined:	6.0						
Acre inches	of effluent to be i	irrigated*:	473.00		*From engineering design				
Estimated annual gallons of effluent to be irrigated/applied annually:			12,843,842		acre inches times 27,154				
Estimated Ton	s Solids to be Lar Annually (on or				*From engineering design				

	A		в	C	U	E
Go to Welcome Page	Proceed to Next Entry					
			Enter Data as Requested	ł		
		E	Effluent / Manure Analysis	Da	ta	
	Effluent Info	mation:		_		
	Date o	of Analysis:	March 5, 2005			
	Manu	ire Source:	Dairy Lagoon	Ţ	(Must use dropdown box)	
	Nitrogen % From	n Analysis:	0.008		Use N/A if no effluent analysis	
Pi	hosphorus % Fron	0.003		Use N/A if no effluent analysis		
	Potassium % Fror	n Analysis:	0.037		Use N/A if no effluent analysis	
	Moisture % Fron	n Analysis:	99.5		Moisture use: 99.5%, for lagoon effluent, Layer scraped 70%, 97% storage pond effluent and 91% swine (slats) respectively, if not reported on analysis. Liquid sludge ranges 83 - 92% moisture or less. Consult testing lab to determine if it is run as a liquid or a solid.	
Manure	I Solids Info	mation:				
	Date o	of Analysis:	March 5, 2005			
	Nitrogen % Fron	n Analysis:	2.200		Use N/A if no effluent analysis	
. Р	hosphorus % From	n Analysis:	0.500		Use N/A if no effluent analysis	
i r	Potassium % Fron	n Analysis:	1.800		Use N/A if no effluent analysis	
	Moisture % Fron	n Analysis:	34.0		Use 45% moisture for Beef feedlot, 35% for Dairy solids, 82% for swine if not reported on analysis. Solid sludge ranges 63 - 81% moisture or less. Consult testing lab to determine if it is run as a liquid or a solid.	
What will be Ap	plied to Fields on	this Farm?	Effluent Only		(Must use dropdown box)	
ls this	Farm part of an <i>i</i>	AFO-CAFO?	Yes		(Must use dropdown box)	
<u> </u>						



Complete P-Index for each field to be used for waste application.



Application Area Map

Dairy Lagoons

Dairy Blds.

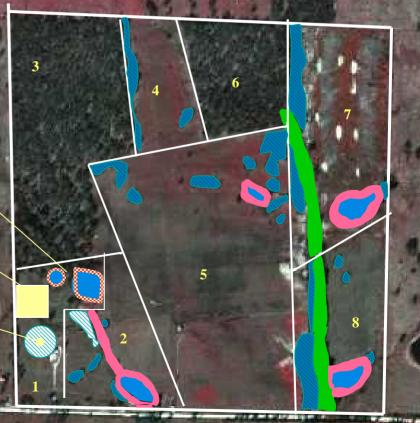
Well



Acres Available For Application

- 1 Headquarters 0.0 ac
- 2 Pasture 6.3
- **3 Pasture 0.0 ac**
- **4 Pasture 7.7 ac**
- 5 Hay Land 40.5 ac
- 6 Wildlife land 0.0 ac
- 7 Hay land 20.7 ac
- 8 Hay land 10.6 ac

Filter Strip Other non-application



3

Scale 1:7920

Fields 2, 4, 5, 7, & 8 will be used for waste application.

Soil test P results are:

- Field 2 405 ppm (Very High)
- Field 4 70 ppm (Very High)
- Field 5 50 ppm (High)

- Field 7 9 ppm (Low)
- Field 8 12 ppm (Medium)



Start with Field 2



ClientName:	Dairy		Field(s):	2	Date:	3/5/2005		
Planner:			Location:		Crop:	Coastal Grazing		
Impaired Watershed:		Yes	Runoff Curve No.:	74	Slope (%):	2		
Site Characteristic	Place an X	in the approprat	e box for each of t below.	e box for each of the Site Characteristic listed				
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High			
Phosphorus Fertilizer (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P ₂ O ₅	41-90 lbs/ac P ₂ O ₅	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅			
Organic Phosphorus (P ₂ O ₅) Application Rate	None Applied	1-40 lbs/ac P ₂ O ₅	41-90 lbs/ac P ₂ O ₅	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅			
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15			
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15			
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet			
Stream or Lake								
Runoff Class	Negligible	Very Low or Low	Moderate	High	Very High			
(Runoff Class Table)			M	18.1				
Soil Erosion	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac			
(All Sources)								
				Tota	al Index Points:			

Soil Test P Level 405 ppm P = Very High

PHOSPHORUS INDEX WORKSHEET for East Texas											
ClientName:	Dairy		Field(s):	2	Date:	3/5/2005					
Planner:			Location:		Crop:	Coastal Grazing					
Impaired Watershed:		Yes	Runoff Curve No.:	74	Slope (%):	2					
Site Characteristic	Place an X	in the approprat	e box for each of t below.	he Site Characte	eristic listed	Sub Total					
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High						
					x	8.00					
Phosphorus Fertilizer (P ₂ O ₅) Application Rate	None Applied	1-40 lbs/ac P ₂ O ₅	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅						
				91-150 lbs/ac	>150 lbs/ac						
Organic Phosphorus	None Applied	1-40 lbs/ac P ₂ O ₅	41-90 lbs/ac P ₂ O ₅	P_2O_5	P_2O_5						
(P ₂ O ₅) Application Rate				. 2-5	- 2-5						
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15						
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15						
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet						
Stream or Lake											
Runoff Class (Runoff Class Table)	Negligible	Very Low or Low	Moderate	High	Very High						
Soil Erosion (All Sources)	Very Low <1 t/ac			High 5-10 t/ac	Very High >10 t/ac						
				Tota	al Index Points:	8.00					

- P Fertilizer Application Rate
 - none



PHOSPHORUS INDEX WORKSHEET for East Texas						
ClientName:	Dairy		Field(s):	2	Date:	3/5/2005
Planner:			Location:		Crop:	Coastal Grazing
Impaired Watershed:	Yes		Runoff Curve No.:	74	Slope (%):	2
Site Characteristic	Place an X in the approprate box for each of the Site Characteristic listed below.					Sub Total
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High	
					x	8.00
Phosphorus Fertilizer (P ₂ O ₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
	x					0.00
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(1 ₂ 0 ₅) Application Nate						
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet	
Stream or Lake						
Runoff Class (Runoff Class Table)	Negligible	Very Low or Low	Moderate	High	Very High	
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac	
Total Index Points:					8.00	

- Organic P application rate
 - Start with the > than 150 lb / ac rate.
 - This will give you the highest value to begin with and then work back there, if enough acreage is available to reduce rate.
 - Use a lower rate to start if you know the planned crop has a low P requirement.

PHOSPHORUS INDEX WORKSHEET for East Texas						
ClientName:	Dairy		Field(s):	2	Date:	3/5/2005
Planner:			Location:		Crop:	Coastal Grazing
Impaired Watershed:	Yes		Runoff Curve No.:	74	Slope (%):	2
Site Characteristic	Place an X in the approprate box for each of the Site Characteristic listed below.					Sub Total
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High	
					x	8.00
Phosphorus Fertilizer (P ₂ O ₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
	x					0.00
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P ₂ O ₅	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(1 ₂ 0 ₅) Application Rate					x	6.00
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet	
Stream or Lake						
Runoff Class (Runoff Class Table)	Negligible	Very Low or Low	Moderate	High	Very High	
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac	
Total Index Points:					14.00	

P fertilizer application method and timingNone applied

PHOSPHORUS INDEX WORKSHEET for East Texas						
ClientName:	Dairy		Field(s):	2	Date:	3/5/2005
Planner:			Location:		Crop:	Coastal Grazing
Impaired Watershed:	Yes		Runoff Curve No.:	74	Slope (%):	2
Site Characteristic	Place an X in the approprate box for each of the Site Characteristic listed below.					Sub Total
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High	
					x	8.00
Phosphorus Fertilizer (P ₂ O ₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(. 205)	x					0.00
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(1 ₂ 0 ₅) Application Rate					x	6.00
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
	x					0.00
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet	
Stream or Lake						
Runoff Class (Runoff Class Table)	Negligible	Very Low or Low	Moderate	High	Very High	
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac	
Total Index Points:					14.00	

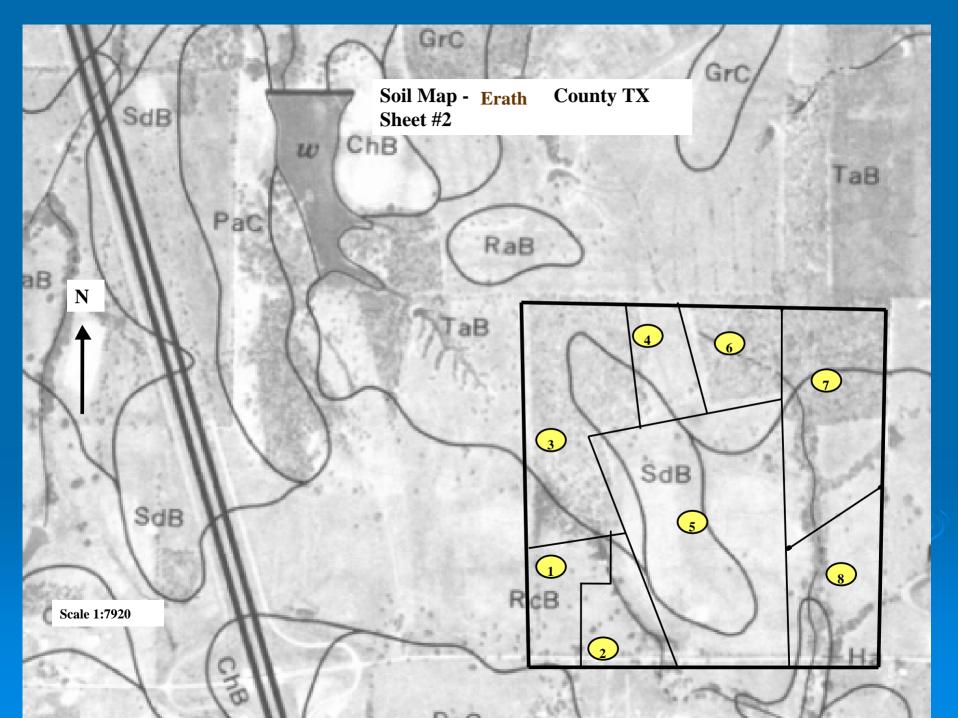
Organic P application method and timing
 Unless the dates shown in very high can be avoided you must check this box.

PHC	SPHOR	US INDEX	WORKSHE	ET for Ea	st Texas	
ClientName:	Dairy		Field(s):	2	Date:	3/5/2005
Planner:			Location:		Crop:	Coastal Grazing
Impaired Watershed:		Yes	Runoff Curve No.:	74	Slope (%):	2
Site Characteristic	Place an X	in the approprat	e box for each of t below.	Sub Total		
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High	
					x	8.00
Phosphorus Fertilizer (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(- 2-5/ · · · · · · · · · · · · · · · · · · ·	X					0.00
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(1 ₂ 0 ₅) Application Rate					x	6.00
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
	x					0.00
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
					x	4.00
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet	
Stream or Lake						
Runoff Class (Runoff Class Table)	Negligible	Negligible Very Low or Low		High	Very High	
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac	
				Tota	al Index Points:	18.00

Site Characteristic #6

Proximity of nearest field edge to named stream or lake.

- See soil map
- 1000 1999 feet

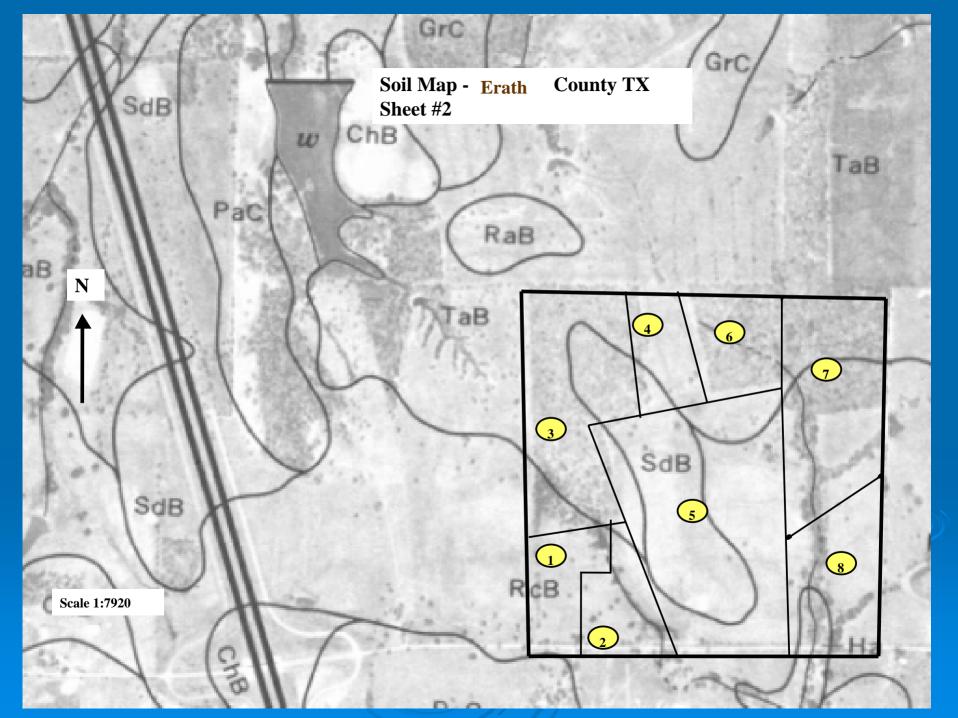


PHC	SPHOR	US INDEX	WORKSHE	ET for Ea	st Texas	
ClientName:	Dairy		Field(s):	2	Date:	3/5/2005
Planner:			Location:		Crop:	Coastal Grazing
Impaired Watershed:		Yes	Runoff Curve No.:	74	Slope (%):	2
Site Characteristic	Place an X	(in the approprat	e box for each of t below.	Sub Total		
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High	
					x	8.00
Phosphorus Fertilizer (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(* 2°5) * PP	x					0.00
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(1 ₂ 0 ₅) Application Rate					x	6.00
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
	x					0.00
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
					x	4.00
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet	
Stream or Lake		x				1.25
Runoff Class (Runoff Class Table)	Negligible	Very Low or Low	Moderate	High	Very High	
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac	
				Tota	al Index Points:	19.25

Site Characteristic #7

> Runoff class

- Use predominant soil map unit for field 2
- Use avg. field slope (2%) of that map unit (as determined in field)
- Find the hydrologic group for that soil
- Need to know field cover type and hydrologic condition.



Soil name and	1		looding		Hig	h water	table	Bea	drock	Risk of	corrosion
map symbol	Hydro- logic group	 Frequency 	Duration	 Months 	 Depth 	 Kind 	 Months 	 Depth 	 Hard- ness	 Uncoated steel	 Concrete
				1	Ft	1	1	In	1	1	1
RbA*:	1			1	1	1	1	1		1	L
Rader	D	None		1	12.0-5.0	 Perched	 Dec-Mar	>60		 High	 Moderate
Derly		 None			1	1	 Dec-Apr	1		1	1
RcB	1	i i		i	1	1	1	E 1		High	High.
Robco		None			11.5-3.5	Perched	Jan-Apr	>60		High	High.
RoC, RvC Rosanky		None			 >6.0 	 		>60		 High	Low.
SaB Silawa	B	 None 		 	 >6.0	 		>60		 Moderate	 Moderate
SdB Silstid	A	 None 			 >6.0 			>60		 Moderate	 Moderate
SpB Spiller	C I	None			 >6.0 			>60		 High	 Moderate
TaB Tabor	D 	None 		 	 >6.0		 	>60		 High	 High.
CoD Tonkavar	A 	None 			 4.0-6.0 	Perched	 Nov-May	>60		 Moderate	High.
cA Wilson	D 	None			 0.5-1.5 	Perched	 Nov-Mar	>60		 High	High.
aB, ZaC2 Zack	DI	None 			>6.0 >6.0			>60		High	Low.
aD Zack	D [1	None 			 >6.0			>60		High	Low.
 gC3*: Zack Gullied land.	 	 None 			 >6.0 			>60		High	Low.
uB Zulch	ן 1 ס 1	None			0.5-1.0	Perched	Dec-Feb	 >60		 High	Moderate.

TABLE 18. -- SOIL AND WATER FEATURES -- Continued

* See description of the map unit for composition and behavior characteristics of the map unit.

		Rur	off Curve I	Number			
Slope	% <50	50 to 60	60 - 70	70 to 80	> 80		
<	1 N	N	N	N	М		
1 to	2 N	N	VL	L	М		
>2 to	4 N	N	L	М	Н		
>4 to	8 N	VL	М	Н	VH		
>8 to ′	6 VL	L	М	VH	VH		
> ′	6 VL	L	Н	VH	M H VH VH VH 8-TX5, runoff		
Refer to Texas NRCS En Estimating Runoff for Co curve numbers. Estimating Runoff for Co	nservation Pra	ctices - 10	/90 for info				
information on runoff cu	rve numbers.						
N = Negligible, VL = Very	Low, $L = Low$,	M = Mode	erate, H = H	igh, VH = V€	ery High		

Table 3 Runoff Class Based on Field Slope and Runoff Curve Number

Table 4 - Partial Listing of Curve Numbers 1/

Cover Type	Hydrologic Condition <u>2</u> /	Soil	Hydrologic	Group		
		Α	D			
Pasture	poor	68	79	86	89	
	fair	49	69	79	84	
	good	39	61	74	80	
Hayland not grazed		30	58	71	78	

PHC	SPHOR	US INDEX	WORKSHE	ET for Ea	st Texas	
Client Name:	Dairy		Field(s):	2	Date:	3/5/2005
Planner:			Location:		Crop:	Coastal Grazing
Impaired Watershed:		Yes	Runoff Curve No.:	74	Slope (%):	2
Site Characteristic	Place an X	(in the approprat	e box for each of t below.	Sub Total		
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High	
					X	8.00
Phosphorus Fertilizer (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P ₂ O ₅	91-150 lbs/ac P₂O₅	>150 lbs/ac P ₂ O ₅	
(1 ₂ 0 ₅) Application Rate	X					0.00
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅	
(P ₂ O ₅) Application Rate					x	6.00
Phosphorus Fertilizer Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
	x					0.00
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast with incorporation within 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15	
					x	4.00
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet	
Stream or Lake		x				1.25
Runoff Class	Negligible	Very Low or Low	Moderate	High	Very High	
(Runoff Class Table)		x				1.00
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High 5-10 t/ac	Very High >10 t/ac	
, ,						

Site Characteristic #8

- Soil Erosion must be controlled to acceptable levels
 - For water erosion RUSLE2 can be used
 - For wind erosion see field office
 - General guidance if the area is pasture or hayland erosion is <1 unless poor cover, then 1 - 3 tons per acre should be used
 - Cropland needs to be calculated, unless already in the file.

ClientName:	Dairy		Field(s):	2	Date:	3/5/2005		
Planner:			Location:		Crop:	Coastal Grazing		
Impaired Watershed:		Yes	Runoff Curve No.:	74	Slope (%):	2		
Site Characteristic	Place an X	in the approprat	e box for each of t below.	he Site Characte	eristic listed	Sub Total		
Soil Test P Level	N/A	Very Low -Low	Moderate	High	Very High			
					x	8.00		
Phosphorus Fertilizer (P ₂ O ₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅			
(1 205) Application Rate	x					0.00		
Organic Phosphorus (P₂O₅) Application Rate	None Applied	1-40 lbs/ac P_2O_5	41-90 lbs/ac P_2O_5	91-150 lbs/ac P ₂ O ₅	>150 lbs/ac P ₂ O ₅			
(1 ₂ 0 ₅) Application Rate					X	6.00		
Phosphorus Fertilizer Application Method and Timing	None Applied proadcast with		Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	2/16 - 4/15 or Surface Applied			
	x					0.00		
Organic Phosphorus Source Application Method and Timing	None Applied	Placed Deeper than 2 in. or broadcast w ith incorporation w ithin 48 hrs.	Surface applied 12/1 - 2/15	Surface applied 2/16 - 4/15 or 6/16 - 11/30	Surface Applied 4/16 - 6/15			
					x	4.00		
Proximity of Nearest Field Edge to Named	Very Low >2000 feet	Low 1000 - 1999 feet	Medium 500 - 999 feet	High 100 - 499 feet	Very High <100 feet			
Stream or Lake		x				1.25		
Runoff Class	Negligible	Very Low or Low	Moderate	High	Very High			
(Runoff Class Table)		x				1.00		
Soil Erosion (All Sources)	Very Low <1 t/ac	Low 1-3 t/ac	Medium 3-5 t/ac	High Very High 5-10 t/ac >10 t/ac				
(All Sources)	x					0.00		
				Tota	al Index Points:	20.25		
	Р	Runoff Potential:	Medium					

Post the P-Index to the PI Report

Go to Welcome Page	Clear All Pl Worksheets	- Print Pl Report	Go to East TX P Worksheet to add fields	P Work	sheet	Proceed to Next Entry							
For operations in counties with > 25" rainfall, use the East TX P Worksheet. For operations in counties with < 25" rainfall use the West TX P Worksheet. Go to the appropriate sheet, enter the data and POST to this Summary Report and PRINT.													
			PI Report										
Client Name:	J	oe Doe			Date:	7/16/2005	i						
Planner:	Jim	Childers			Location:	Erath							
					Rainfall:	>25.0 inch	es						
Fields		Сгор	Runoff Curve	Total Index Points	P Runoff Pote	ential	Soil Test Date:						
2	Coastal Gra	azing 1 AU/0.5 a	c 2.0%	74	21.75	Medium	1	3/5/05					
,				1	1								

Complete P Index for other Fields



Go to Welcome Page	Clear All Pl Worksheets	Print PI Report	Go to East T P Workshee to add fields	t P Wor	Vest TX ksheet I fields	Proceed to Next Entry								
For operations in counties with > 25" rainfall, use the East TX P Worksheet. For operations in counties with < 25" rainfall use the West TX P Worksheet. Go to the appropriate sheet, enter the data and POST to this Summary Report and PRINT.														
			PI Report											
Client Name:		loe Doe			Date:		5							
Planner:	Jin	n Childers			Location:									
					Rainfall: Total	>25.0 inch	ies							
Fields		Сгор	Slope	Runof Curve	f Index	P Runoff Pot	ential	Soil Test Date:						
2	Coastal Gra	azing 1 AU/0.5 ad	c 2.0%	74	21.75	Medium	n	3/5/05						
4	Coastal Gra	azing 1 AU/0.5 ad	c 2.0%	80	25.5	High		3/5/05						
5	Coast	al 3 Cut Hay	2.5%	71	22.5	Medium	n	3/5/05						
7	Coast	al 3 Cut Hay	1.5%	71	17	Medium	n	3/5/05						
8	Coast	al 3 Cut Hay	1.5%	5 71	17	Medium	1	3/5/05						

													-
Go to		Proceed				lf a	coll in t	ho Dlan	t Analus	ie Sactic	n Colu	nne M D	, is RED,
Welcome		to							-		•		
			.			_			•	-	ACE in th		
Page		Next Entr	y				musche	LEARE	D and I	will be	come YE		iyain.
			SOIL	TEST, CROP INFORMAT	[ION and P		NALYS	IS for E	ffluent				
				· Let , erter int ortaini									
Enter the	data in	the Yellow	Cells, If	'you have plant analysis f	for the veg	etation	, enter i	the ana	lysis in	the 4 d	igit dec	imal for	mat (e.g.
.0230 wou	ld equal	2.3%) for	each app	licable field, otherwise le	ave the pla	ant anal	yses ce	lls blan	k. Ente	er the y	ield in p	ounds	per acre.
						Soil	- Test Rec	Analvsis 8	& Yield (if available)				
							<u> </u>		Lime		T 7	,	Yield
Current									(enter				Air Dry
Soil Test		Application		Crop/Land-Use and	Crop N				amt or				Productio
P Level	Field	Area		Index Runoff Potential	Requiremen	N	P ₂ O ₅	K20	leave				n(lbs/ac/yr
(ppm)	Number	Acres		VL - L; M; H; or VH	t (lbs/ac)	(lbs/ac)	(lbs/ac)	(lbs/ac)	blank)	% N	%P	% K) <u> </u>
405	2	6.3	Coastal Gra	zing 1 AU/0.5 ac M	300	240	0	0					
70	4	7.7	Coastal Gra	zing 1 AU/0.5 ac H	300	240	0	0					
50	5	40.5	Coastal 3 C	ut Hay M	300	300	20	0					
9	7	20.7	Coastal 3 C	ut Hay M	300	300	60	0					
12	8	10.6	Coastal 3 C	ut Hay M	300	300	60	0					
				•									

Go ta Welcor Page	ne to																		
	Enter the Data Needed. Enter the depths of the layers and Available Water similar to the example entries.																		
	I	Use data from the Soil Survey or NASIS for the County.												1					
								EX/	AMPLE	ENTR	IES								
	Texture of the soil layer within the																	Available Water Holding	
	upper 24	0	3	0.12	0.2	3	14	0.16	0.21	14	18	0.08	0.12	18	24	0	0	Capacity	
	inches of the		Enter Data for the top 24" only (AWC) of																
	soil profile that										the upper								
	has the lowest		th of	AW	C of	Dept	Depthof AWC of			Depth of AWC of		Depth of		AWC of		24 inches			
Fields	permeability	Fi	irst	Fi	rst	Sec	Second Second Third Third Fourth Fourt					urth	of the soil						
receiving	(Don't	La	yer	La	yer	La	yer	La	yer	La	yer	La	yer	La	yer	La	yer	profile	
Effluent	Abbreviate)	(inc	:hes)	(in	ín)	(inc	nes)	(in	/in)	(inc	nes)	(in	in)	(inc	hes) (in/in)		/in)	(Inches)	
2	Sandy Loam	0	24	0.1	0.15													3	
4	Clay Loam	Ĭ O	8	0.1	0.15	8	24	0.12	0.18									3.4	
5	Clay Loam	0	6	0.1	0.15	6	12	0.12	0.18	12	24	0.12	0.18					3.45	
7	Clay Loam	0	24	0.08	0.12													2.4	
8	Clay Loam	0	24	0.1	0.15													3	

Go to Welcome Page	Proceed to Tables	Proceed to NMP	Proceed to Next Entry									
--------------------------	----------------------	-------------------	-----------------------------	--	--	--	--	--	--	--	--	--

Use this sheet to apply less than the Maximum Application Rates. In situations where more land is available than is needed to utilize the maximum application rate on each field, <u>REDUCE</u> the application rates down to the level that <u>does not exceed</u> the amount of Effluent produced. The amount of supplemental nutrients needed will then be calculated based on the <u>actual amount of waste available</u> rather than the <u>maximum rate that "could" be</u> <u>applied</u> to each field.

When the reduced rates uses all Effluent to be produced in a year, the green cells, L52/L100, will be "Yes". If the percentages are too low, cells L52/L100 will be "No". If "No" is indicated, change the percentages to higher values until "Yes" is indicated in order to use all Effluent unless the extra Effluent will be used off-site.

Different percentages may be used as long as the rate does not exceed the maximum shown for the field and the proper amount of supplemental nutrients are applied. <u>Applying lower rates to fields with higher Soil Test P levels will slow down the P buildup and extend their land application life</u>.

Effl	uent	t - Adjustment to Apply Less than	Joe Doe Nutrient Adjustments ba											
													Nutrients Appli	
	473										YES			Red
					Max	Max	Max.							
			Current		Ann	Annual	Rate	Enter %		Reduced	Reduced			
			Soil	Стор	ual	Gallons	Allowed	of	Reduced	Effluent	Amount			
Field			Test P	P_2O_5	lbs.	Effluent	(ac	Maximum	Rate	(Gallons	/ field		N	
No.	Acres	Crop Mamagement and PI runoff potential	ppm	Req.	P20	/Acre	in/ac)	to apply	(ac in/ac)	/Acre)	(Ac. In)	Field No.	Lb/ac	
2	б.З	Coastal Grazing 1 AU/0.5 ac M	405	70	72	124,676	4.59	0	0.00	0	0.0	2	0	
4	7.7	Coastal Grazing 1 AU/0.5 at H	70	70	105	182,348	6.72	0	0.00	0	0.0	4	0	
5	40.5	Coastal 3 Cut Hay M	50	125	250	434,161	15.99	35	5.60	151956	226.6	5	82	
7	20.7	Coastal 3 Cut Hay M	9	125	250	434,161	15.99	50	7.99	217081	165.5	7	116	
8	10.6	Coastal 3 Cut Hay M	12	125	250	434,161	15.99	50	7.99	217081	84.7	8	116	

	11	1		TN	L	191	IN	0				1			
	02/////////////////////////////////////					to utilize th	<u>}</u>					+			
						duced. The a									
						n rate that "						+			
			<u></u>												
-												+			
						too low, cells	4								
'Yes" is	indicated	d in order t	o use all	Effluent (inless the	extra Effluen									
ed the n	navimu	n shown	for the fi	iold and	the nrone	er amount of									
							extend their	ĺ							
							<u> </u>								
Rate					Joe Doe	Nutrient A	based on R	teduced Rat	es						
							Nutrients App	lied When Ap	plication is at	Supplementa	al Nutrients Ne	eded When A	ppl		
1					YES			Reduced Rates	S	is at Reduced Rates					
Max	Max.	E-1-04		.	n										
Annual Gallons	Rate Allowed	Enter % of	Reduced	Reduced Effluent	Reduced Amount										
Effluent		Maximum		(Gallons	/ field		N	P_2O_5	K ₂ O	N	P ₂ O ₅	K ₂ O			
/Acre	in/ac)	to apply		`	(Ac. In)	Field No.	Lb/ac	Lb/ac	Lb/ac	Lb/ac	Lb/ac	Lb/ac			
124,676	4.59	0	0.00	0	0.0	2	0	0	0	240	0	0			
182,348	6.72	0	0.00	0	0.0	4	0	0	0	240	0	0			
434,161	15.99	35	5.60	151956	226.6	5	82	88	566	220	0	0			
434,161	15.99	50	7.99	217081	165.5	7	116	125	808	185	0	0			
434,161	15.99	50	7.99	217081	84.7	8	116	125	808	185	0	0			

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	А	B C D E F G H I J K										L	М			
1	Go to	Table 1 - Es	timated Eff	uent and Solids Quantities Produced				Permit #: 345 T					Table 3 - Crop Removal			
2	Welcome	Avg, Numbe:	Number of Animals					Type of Waste								
3	Page	85	0					Dairy Lagoon								
4												No.	Acres	Crop and	P In	Q
5	Go to Crop	Contact the lo	ocal Soil and	Water Cons	ervation Dis	trict or USD	A Natural F	Resources C	onservation	Service offic	e if	2	6.3	Coastal G	Fazi	
6	Information	the total num	ber of animal	s changes b	y more than	10% so your	plan can be	e revised.				4	7.7	Coastal G	Fazi	
7	Input											5	40.5	Coastal 3	Cut	
8					Estimated A	lore Inches o	f Effluent t	o be Irrigate	d Annually*	473.0		7	20.7	Coastal 3	Cut	
9	Print Tables			Estimat	ed Tons Soli	ds to be Lan	d Applied A	nnually (on	or off site)*	2,000.0		8	10.6	Coastal 3	Cut	
10	for Review								*From eng	ineering design.						
11																
12	Proceed	Estimated N	lutrient Ava	ilabilty												
13	to	Effluent						Solids								
14	NMP Plan			Pounds /	Pounds /				pounds /	pounds /						
15	Proceed		pounds/yr	_	Acre Inch				yr	ton						
16	to	N	6,890	0.54	14.6	**		N	46,464	23.2	**					
17	Adjustment															
18	Page	P ₂ O ₅	7,396	0.58	15.6			P ₂ O ₅	30,228	15.1						
19																
20		K ₂ O	47,798	3.72	101.1			K ₂ O	57,024	28.5						
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24			2a - Maximun	i annual man				-		350 ppm)*						
25		P- Index Result Annual Manure Rate Based on P-index**														
26			ery Low - Low Balance for Nitrogen Requirement**													
27 28		Medium 2 times crop P requirement *** High 1.5 times crop P requirement ***														M
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Step - 10

Print waste sheetReview with producer





At this point you should point out to the producer fields with maximum application rates that could be adjusted to make better use of nutrients.