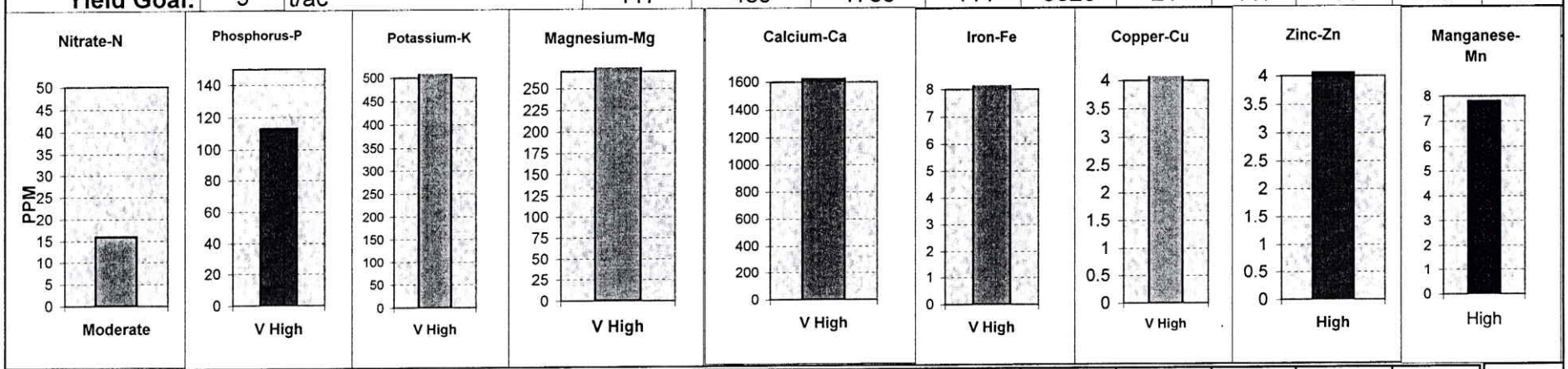
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	1	Crop Rotation:	Oats
Client Name:	Cottonwood Springs	Record #:	1	Acres: 18.00	Irr. Water (acin/ac): 42.5
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	
	Lake Arthur, NM				
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (meq/l)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
1	7.9	0.56	Loam	2.9	16.0	113.0	763.0	461.0	5531.0	22.0	62.2	5.7	7.8	22.4
Crop to grow:		Alfalfa, 21% Pro. (manure applied)			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		9	t/ac		117	489	1735	444	5326	21	117	11	15	42



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	488	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	478	28	1573						
Irrigation Water Credits (ppm NO_3-N): 1	10								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Manures contain P2O5 and sulfur among other plant nutrients. If application rate does not meet crop need then additional fertilizer may be needed.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend		0 lbs/ac	Urea 45% N	3.2 lbs Total Needed
Total Blend (lbs/ac):	0	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac):	$0.04	0 lbs/ac		0.0 lbs Total Needed
		N-P2O5-K2O G	45% 0% 0%	3.2 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic and Manure Land Application

Client Name:	Cottonwood Springs	Acres:	18	Date:	7/28/2010	Field ID:	1
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Oats			Needed for field (acin):		378	
	Liquid Applied:	21	Acin/ac	(gal):		10,262,700	
	Solids Applied:	2	ton/ac	Needed for field (tons):		36	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

	TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
	Book	Test	Book	Test	Book	Test	Book	Test
	0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	477.9	28.3	1573.3

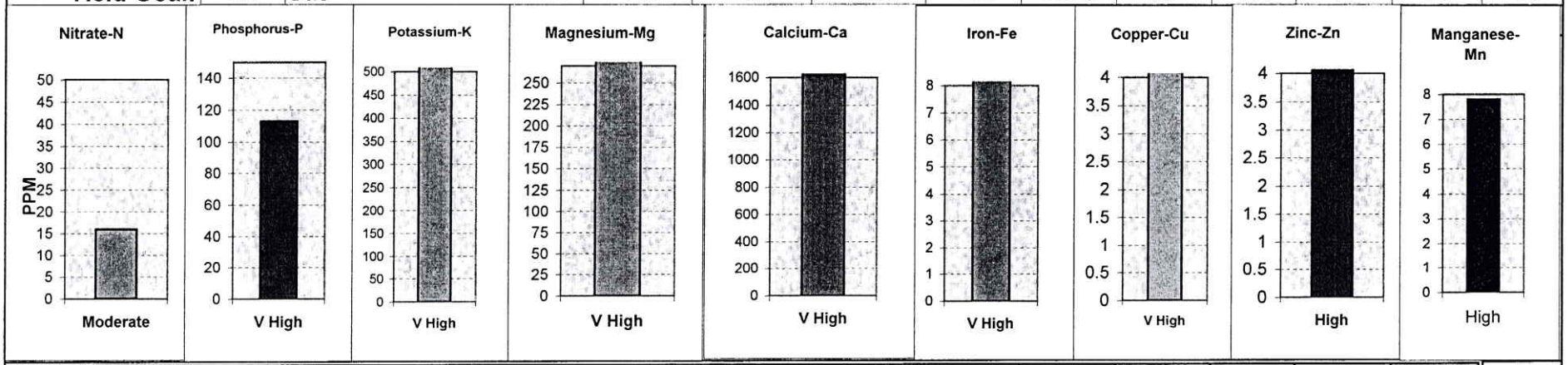
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	1	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 18.00	Irr. Water (acin/ac): 32.6
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	
	Lake Arthur, NM				
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (meq/l)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
1	7.9	0.56	Loam	2.9	16.0	113.0	763.0	461.0	5531.0	22.0	62.2	5.7	7.8	22.4
Crop to grow:		Corn, silage 35% DM			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		28	t/ac		117	489	1735	444	5326	21	117	11	15	42



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	112	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	105	7	341						
Irrigation Water Credits (ppm NO_3-N): 1	7								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	0 lbs/ac	Urea 45% N		1.7 lbs Total Needed
Total Blend (lbs/ac): 0	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.02	0 lbs/ac			0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0%	1.7 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic and Manure Land Appl

Client Name:	Cottonwood Springs	**Acres:**	18	**Date:**	7/28/2010	**Field ID:**	1
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Alfalfa			**Needed for field (acin):**		81.18	
	Liquid Applied:	4.51	Acln/ac	**(gal):**		2,204,037	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		36	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	104.6	**7.4**	**341.1**

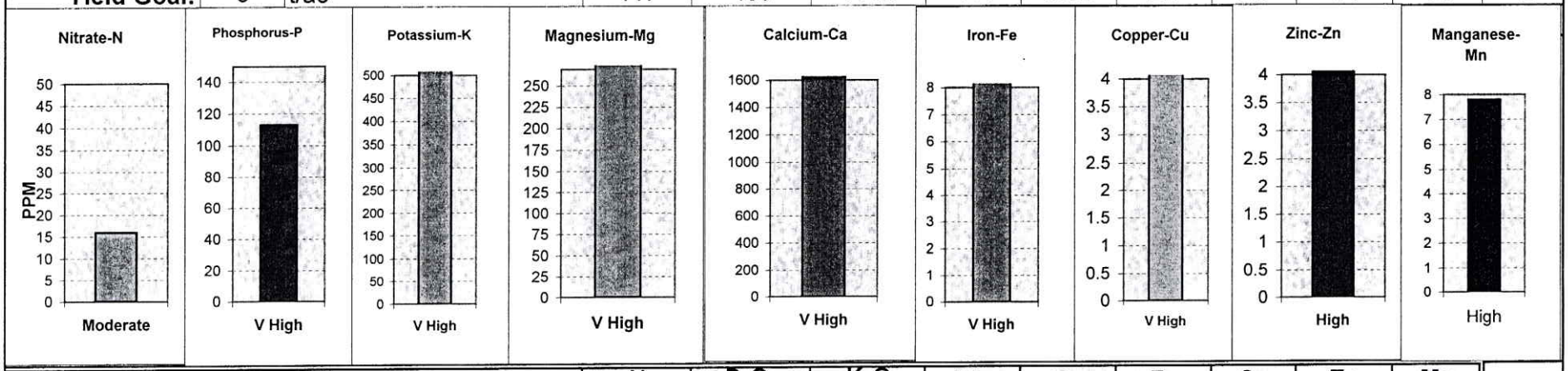
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	1	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 18.00	Irr. Water (acin/ac): 11.2
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	
Zip Code:	88253	Date:	7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1 ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (meq/l)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
1	7.9	0.56	Loam	2.9	16.0	113.0	763.0	461.0	5531.0	22.0	62.2	5.7	7.8	22.4
Crop to grow:		Oats for silage, Irrigated			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		5	t/ac		117	489	1735	444	5326	21	117	11	15	42



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	150	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	147	10	482						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.	**Suggested Fertilizer Blend**	0 lbs/ac	Urea 45% N	3.4 lbs Total Needed
Agronomy and Soils	**Total Blend (lbs/ac):** 0	0 lbs/ac		0.0 lbs Total Needed
cc: Eddy County Extension Agent	**Blend Cost ($/ac):** $0.04	0 lbs/ac		0.0 lbs Total Needed
Client Signature:	Planner Signature:	N-P2O5-K2O G	45% 0% 0%	**3.4 Tt Blend (lbs)**

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	Acres:	18	Date:	7/28/2010	Field ID:	1
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Alfalfa			Needed for field (acin):		115.2	
	Liquid Applied:	6.4	Acln/ac	(gal):		3,127,680	
	Solids Applied:	2	ton/ac	Needed for field (tons):		36	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

	TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
	Book	Test	Book	Test	Book	Test	Book	Test
	0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	147.4	9.8	482.3

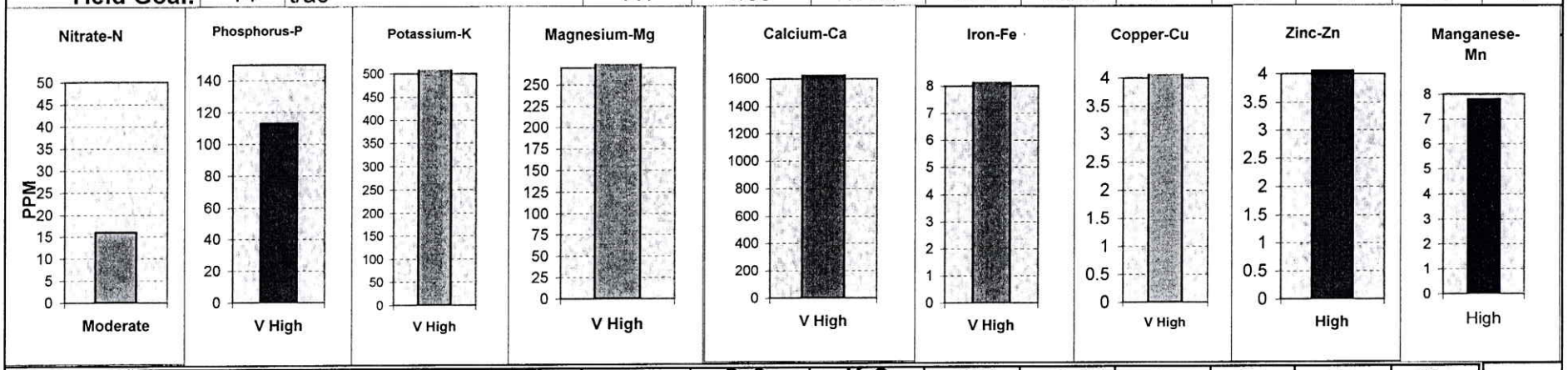
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	1	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 18.00	Irr. Water (acin/ac): 13
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (meq/l)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
1	7.9	0.56	Loam	2.9	16.0	113.0	763.0	461.0	5531.0	22.0	62.2	5.7	7.8	22.4
Crop to grow:		Wheat for silage, Irrigated, wet basis			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		14	t/ac		117	489	1735	444	5326	21	117	11	15	42



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	150	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	147	10	481						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	0 lbs/ac	Urea 45% N		5.4 lbs Total Needed
Total Blend (lbs/ac): 0	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.07	0 lbs/ac			0.0 lbs Total Needed
	N-P2O5-K2O G	45%	0%	0%	5.4 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic and Manure Land Application

Client Name:	Cottonwood Springs	Acres:	18	Date:	7/28/2010	Field ID:	1
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Alfalfa			Needed for field (acin):		114.84	
	Liquid Applied:	6.38	AcIn/ac	(gal):		3,117,906	
	Solids Applied:	2	ton/ac	Needed for field (tons):		36	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

	TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
	Book	Test	Book	Test	Book	Test	Book	Test
	0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	146.9	9.7	480.8

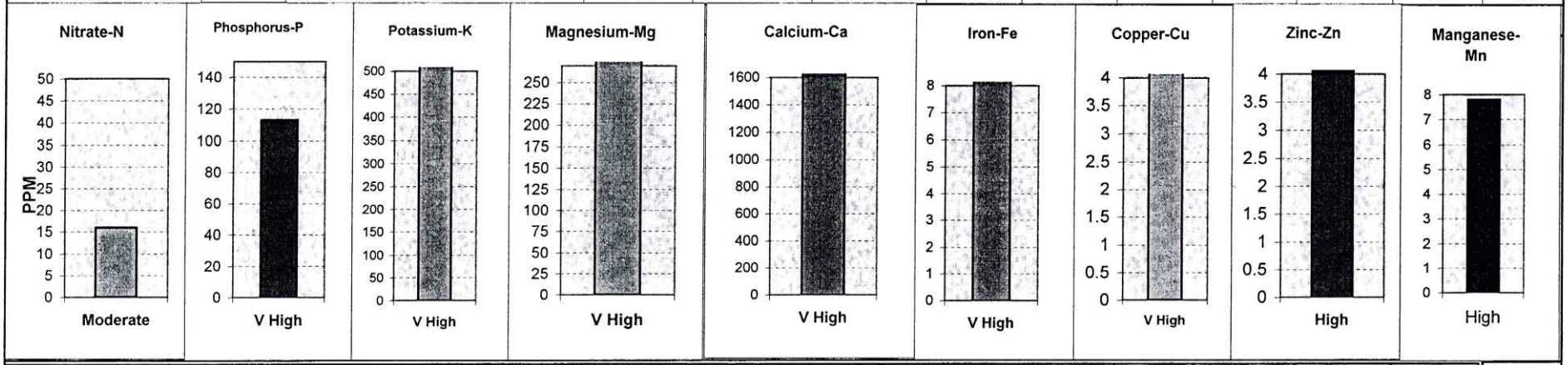
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	1	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 18.00	Irr. Water (acin/ac): 25.8
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (meq/l)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
1	7.9	0.56	Loam	2.9	16.0	113.0	763.0	461.0	5531.0	22.0	62.2	5.7	7.8	22.4
Crop to grow:	Pasture, grass, G stand, L. season				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	6000	lbs/ac			117	489	1735	444	5326	21	117	11	15	42



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	180	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	174	11	570						
Irrigation Water Credits (ppm NO_3-N): 1	6								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring if needed. Split N into 2-4 applications with the first in early spring.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Suggested Fertilizer Blend			
	1 lbs/ac	Urea 45% N	12.5 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.16	0 lbs/ac		0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0% — 12.5 Tt Blend (lbs)

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	18	**Date:**	7/28/2010	**Field ID:**	1
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		136.26	
	Liquid Applied:	7.57	AcIn/ac	**(gal):**		3,699,459	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		36	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	173.9	**11.2**	**569.8**

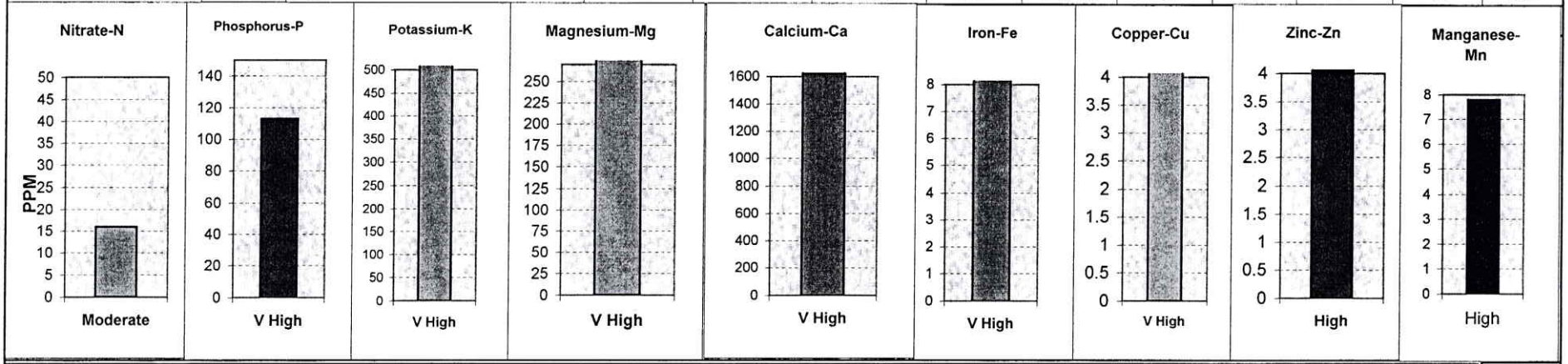
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	1	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 18.00	Irr. Water (acin/ac): 25.8
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (meq/l)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
1	7.9	0.56	Loam	2.9	16.0	113.0	763.0	461.0	5531.0	22.0	62.2	5.7	7.8	22.4
Crop to grow:		Pasturegrass, Bermuda, established			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		5	t/ac		117	489	1735	444	5326	21	117	11	15	42



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	101	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	95	7	309						
Irrigation Water Credits (ppm NO_3-N): 1	6								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring, if needed. Split fertilizer N applications to coincide with harvest regrowth. Consider slow release N for improved efficiency. Follow good Irrigation Water Mgt.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.	**Suggested Fertilizer Blend**	0 lbs/ac	Urea 45% N	2.6 lbs Total Needed
Agronomy and Soils	**Total Blend (lbs/ac):** 0	0 lbs/ac		0.0 lbs Total Needed
cc: Eddy County Extension Agent	**Blend Cost ($/ac):** $0.03	0 lbs/ac		0.0 lbs Total Needed

Client Signature: Planner Signature: N-P2O5-K2O G 45% 0% 0% **2.6 Tt Blend (lbs)**

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 1 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic a

Client Name:	Cottonwood Springs	Acres:	18	Date:	7/28/2010	Field ID:	1
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Alfalfa			Needed for field (acin):		73.44	
	Liquid Applied:	4.08	Acin/ac		(gal):	1,993,896	
	Solids Applied:	2	ton/ac	Needed for field (tons):		36	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
Book	Test	Book	Test	Book	Test	Book	Test
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	94.9	6.8	309.0

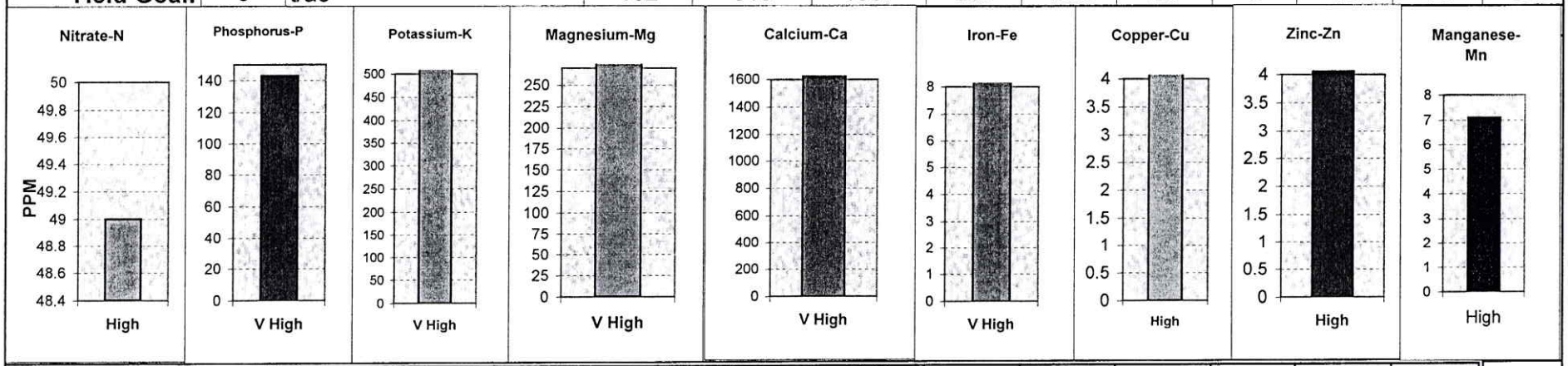
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 11.2
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	49.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:		Alfalfa, 21% Pro. (manure applied)			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		9	t/ac		162	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	443	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	440	26	1449						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Manures contain P2O5 and sulfur among other plant nutrients. If application rate does not meet crop need then additional fertilizer may be needed.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Suggested Fertilizer Blend				
	1 lbs/ac	Urea 45% N		46.6 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.20	0 lbs/ac			0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0%	46.6 Tt Blend (lbs)

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		1005.68	
	Liquid Applied:	19.34	Acln/ac	**(gal):**		27,304,212	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	440.4	**26.2**	**1449.2**

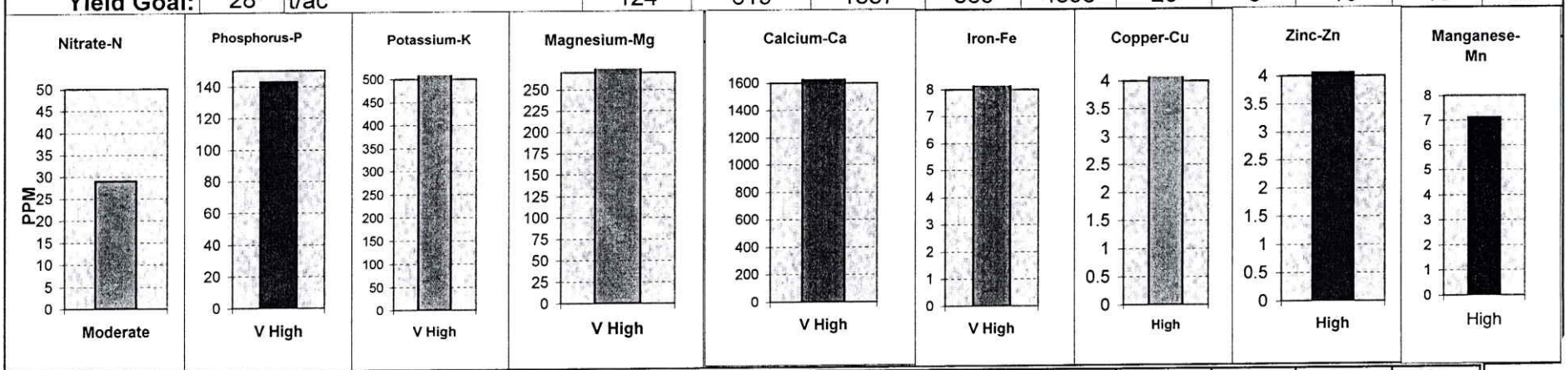
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 20
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	
	Lake Arthur, NM				
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	29.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Corn, silage 35% DM				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	28	t/ac			124	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	74	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	69	5	225						
Irrigation Water Credits (ppm NO_3-N): 1	5								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend		1 lbs/ac	Urea 45% N	55.1 lbs Total Needed
Total Blend (lbs/ac):	1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac):	$0.24	0 lbs/ac		0.0 lbs Total Needed
		N-P2O5-K2O G	45% 0% 0%	55.1 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	Acres:	52	Date:	7/28/2010	Field ID:	2
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Pasture			Needed for field (acin):		153.4	
	Liquid Applied:	2.95	AcIn/ac	(gal):		4,164,810	
	Solids Applied:	2	ton/ac	Needed for field (tons):		104	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
Book	Test	Book	Test	Book	Test	Book	Test
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
Sprinkler w/o incorporation	Warm Dry	35 %	14.9 (lbs/acin) NH4-N
			0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

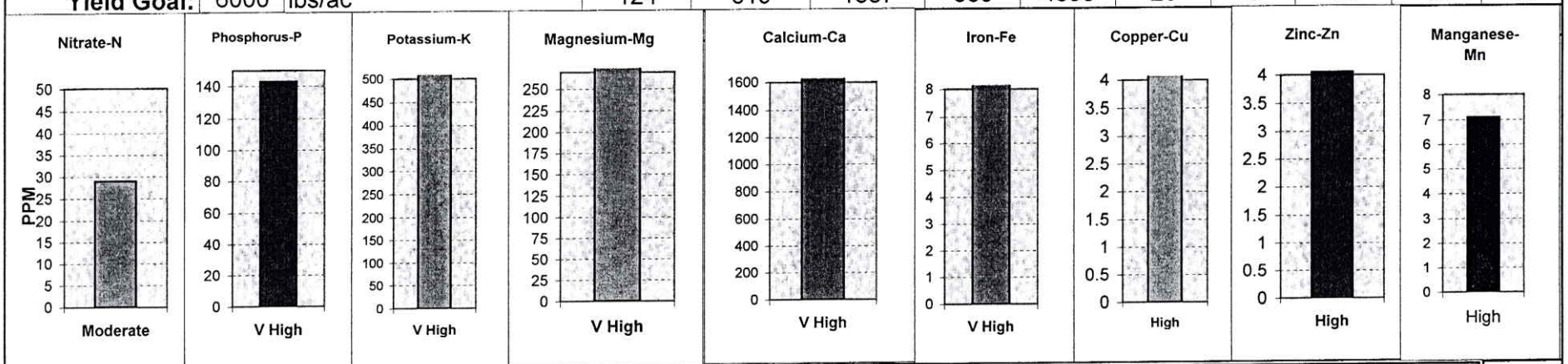
Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	69.3	5.4	224.5

N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 20
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	Formerly designated as Field 6a in 2006 CNMP
	Lake Arthur, NM				
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:		Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.			

Save To Farm Sum

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	29.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Pasture, grass, G stand, L. season				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	6000	lbs/ac			124	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	180	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	175	11	572						
Irrigation Water Credits (ppm NO_3-N): 1	5								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring if needed. Split N into 2-4 applications with the first in early spring.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	2 lbs/ac	Urea 45% N	108.3 lbs Total Needed
Total Blend (lbs/ac): 2	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.47	0 lbs/ac		0.0 lbs Total Needed
	N-P2O5-K2O G	45% 0% 0%	108.3 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		395.2	
	Liquid Applied:	7.6	AcIn/ac	**(gal):**		10,729,680	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
			Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	174.6	**11.3**	**572.0**

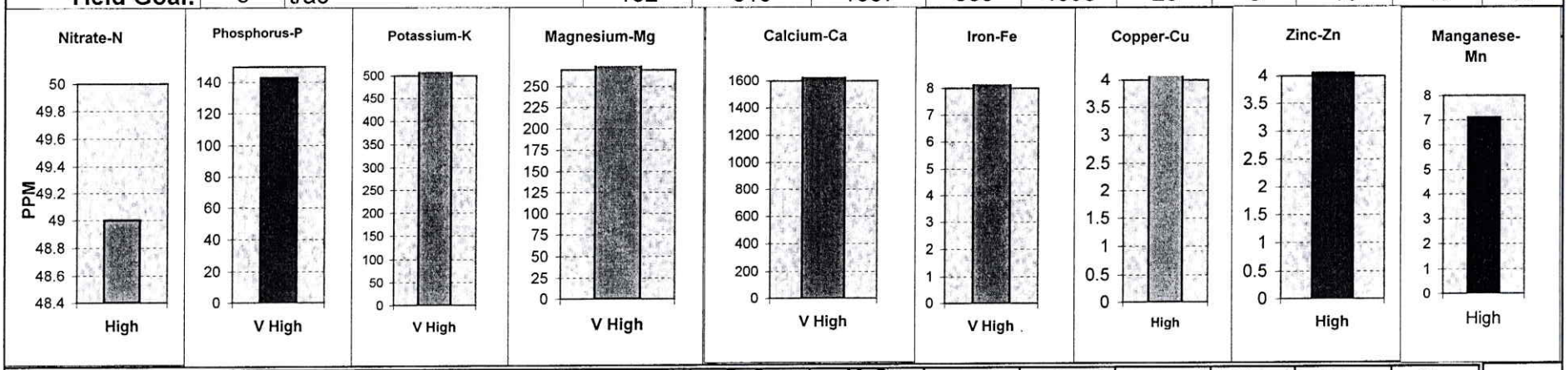
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 25.8
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	Formerly designated as Field 6a in 2006 CNMP
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	49.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Pasturegrass, Bermuda, established				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	5	t/ac			162	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	56	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	50	4	163						
Irrigation Water Credits (ppm NO_3-N): 1	6								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring, if needed. Split fertilizer N applications to coincide with harvest regrowth. Consider slow release N for improved efficiency. Follow good Irrigation Water Mgt.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend		0 lbs/ac	Urea 45% N	15.7 lbs Total Needed
Total Blend (lbs/ac):	0	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac):	$0.07	0 lbs/ac		0.0 lbs Total Needed
		N-P2O5-K2O G	45% 0% 0%	15.7 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	Acres:	52	Date:	7/28/2010	Field ID:	2
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Pasture			Needed for field (acin):		110.24	
	Liquid Applied:	2.12	AcIn/ac	(gal):		2,993,016	
	Solids Applied:	2	ton/ac	Needed for field (tons):		104	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
			Book	Test	Book	Test	Book	Test	Book	Test
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
Sprinkler w/o incorporation	Warm Dry	35 %	14.9 (lbs/acin) NH4-N
			0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

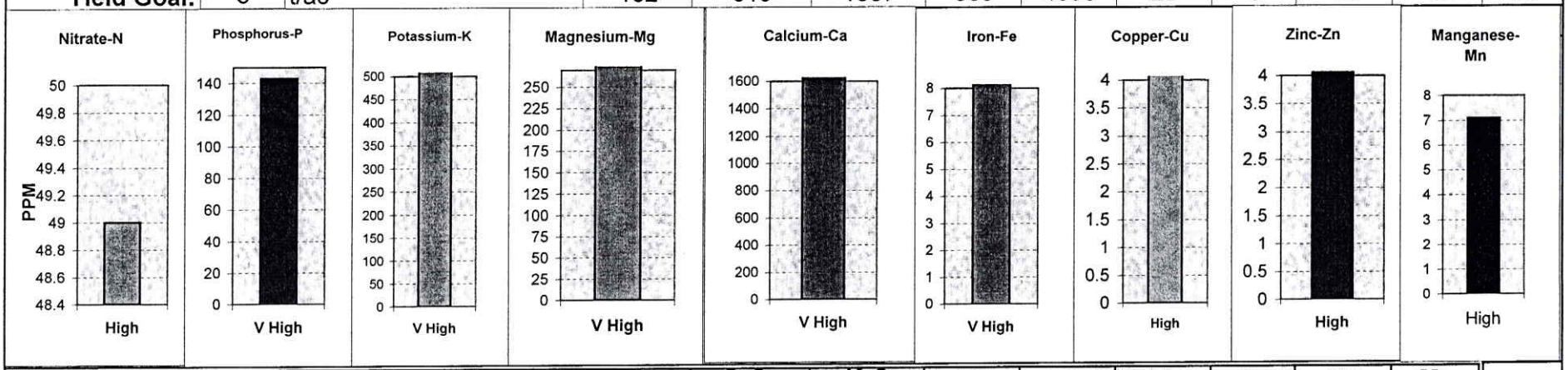
Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	50.5	4.3	162.5

N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Save To Farm Sum	**Field ID:** 2	**Crop Rotation:**	Pasture
Client Name:	Cottonwood Springs		**Record #:** 1	**Acres:** 52.00	**Irr. Water (acin/ac):** 11.2
Address:	491 W. Funk Rd		**Planner Name:**	**Form**	
	Lake Arthur, NM		RG	**Notes:**	
Zip Code:	88253 **Date:**	7/28/2010	**Depth increment (in):** 6	**Sodium Adsorb. Ratio:** 0.1	**ESP:** 0.00
Phone:			Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.		

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	49.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Oats for silage, Irrigated				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	5	t/ac			162	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	80	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	77	6	251						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.	**Suggested Fertilizer Blend**	1 lbs/ac	Urea 45% N	31.5 lbs Total Needed
Agronomy and Soils	**Total Blend (lbs/ac):** 1	0 lbs/ac		0.0 lbs Total Needed
cc: Eddy County Extension Agent	**Blend Cost ($/ac):** $0.14	0 lbs/ac		0.0 lbs Total Needed

Client Signature: Planner Signature: N-P2O5-K2O G 45% 0% 0% **31.5** Tt Blend (lbs)

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic and Manure Land Apply

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		171.6	
	Liquid Applied:	3.3	AcIn/ac	**(gal):**		4,658,940	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
			Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	77.2	**5.8**	**250.7**

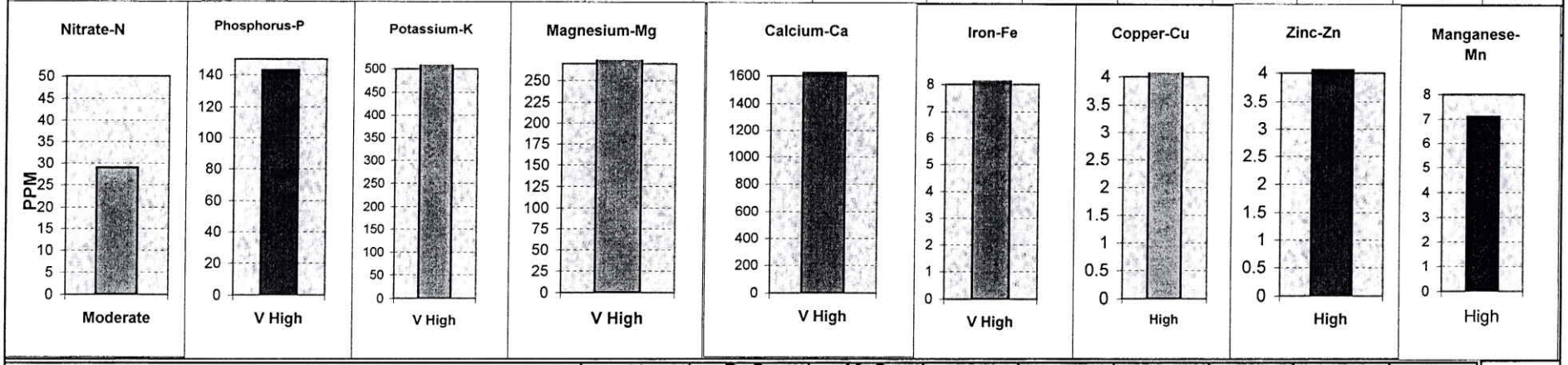
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 13
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	Formerly designated as Field 6a in 2006 CNMP
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	29.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Wheat for silage, Irrigated, wet basis				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	14	t/ac			124	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	150	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	147	10	480						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.	Suggested Fertilizer Blend	1 lbs/ac	Urea 45% N	41.7 lbs Total Needed
Agronomy and Soils	Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
cc: Eddy County Extension Agent	Blend Cost ($/ac): $0.18	0 lbs/ac		0.0 lbs Total Needed
Client Signature:	Planner Signature:	N-P2O5-K2O G	45% 0% 0%	41.7 Tt Blend (lbs)

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	Acres:	52	Date:	7/28/2010	Field ID:	2
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Pasture			Needed for field (acin):		331.24	
	Liquid Applied:	6.37	Acln/ac	(gal):		8,993,166	
	Solids Applied:	2	ton/ac	Needed for field (tons):		104	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
			Book	Test	Book	Test	Book	Test	Book	Test
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	
Sprinkler w/o incorporation	Warm Dry	35 %	14.9 (lbs/acin) NH4-N 0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	146.7	9.7	480.1

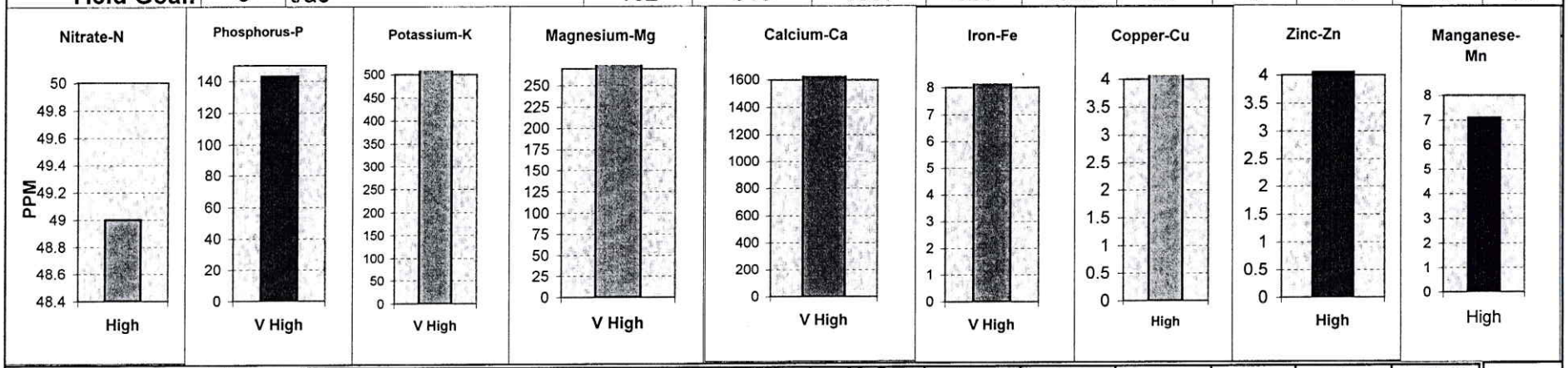
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 11.2
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	49.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:		Alfalfa, 21% Pro. (manure applied)			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		9	t/ac		162	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	443	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	434	26	1428						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):	5.72								
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Manures contain P2O5 and sulfur among other plant nutrients. If application rate does not meet crop need then additional fertilizer may be needed.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.	**Suggested Fertilizer Blend**	3 lbs/ac	Urea 45% N	144.3 lbs Total Needed
Agronomy and Soils	**Total Blend (lbs/ac):** 3	0 lbs/ac		0.0 lbs Total Needed
cc: Eddy County Extension Agent	**Blend Cost ($/ac):** $0.63	0 lbs/ac		0.0 lbs Total Needed

Client Signature: Planner Signature: N-P2O5-K2O G 45% 0% 0% **144.3** Tt Blend (lbs)

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		990.6	
	Liquid Applied:	19.05	AcIn/ac	**(gal):**		26,894,790	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
			Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	433.8	**25.8**	**1427.6**

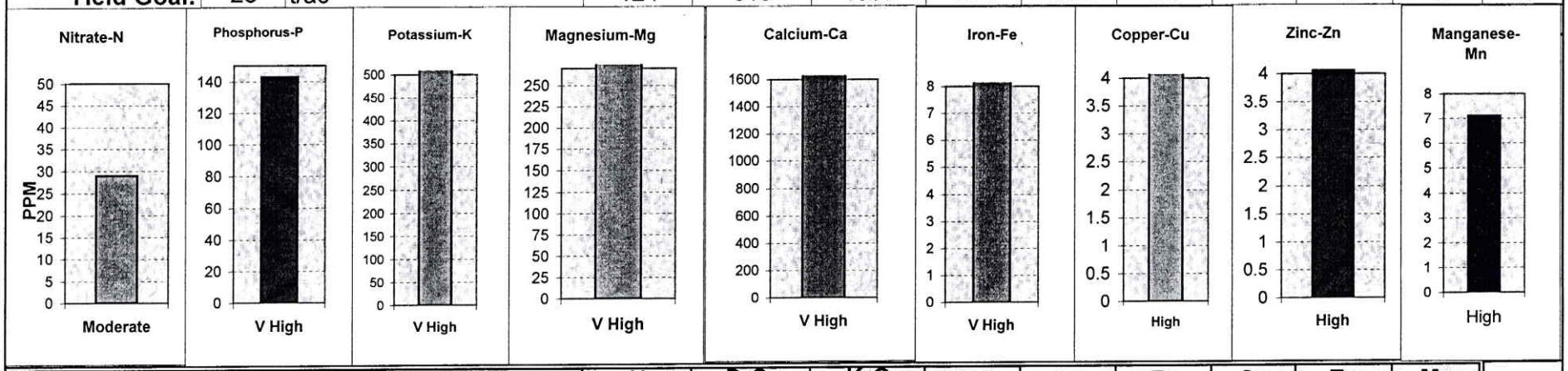
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 20
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date:	7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1 ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	29.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Corn, silage 35% DM				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	28	t/ac			124	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	74	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	63	5	205						
Irrigation Water Credits (ppm NO_3-N): 1	5								
Other Nutrient Sources (Standing Legume Crop.):	5.72								
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	1 lbs/ac	Urea 45% N	74.4 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.32	0 lbs/ac		0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0%	74.4 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic and Manure Land Application

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2

Application information (*enter the units that will be or has been applied to the field*):					
Crop Rotation: Pasture				**Needed for field (acin):**	139.88
Liquid Applied:	2.69	Acln/ac		**(gal):**	3,797,742
Solids Applied:	2	ton/ac		**Needed for field (tons):**	104
Liquid Loads Applied:		1000gal/ac		**Loads needed for field:**	

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining (%)**
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	63.4	**5.1**	**205.1**

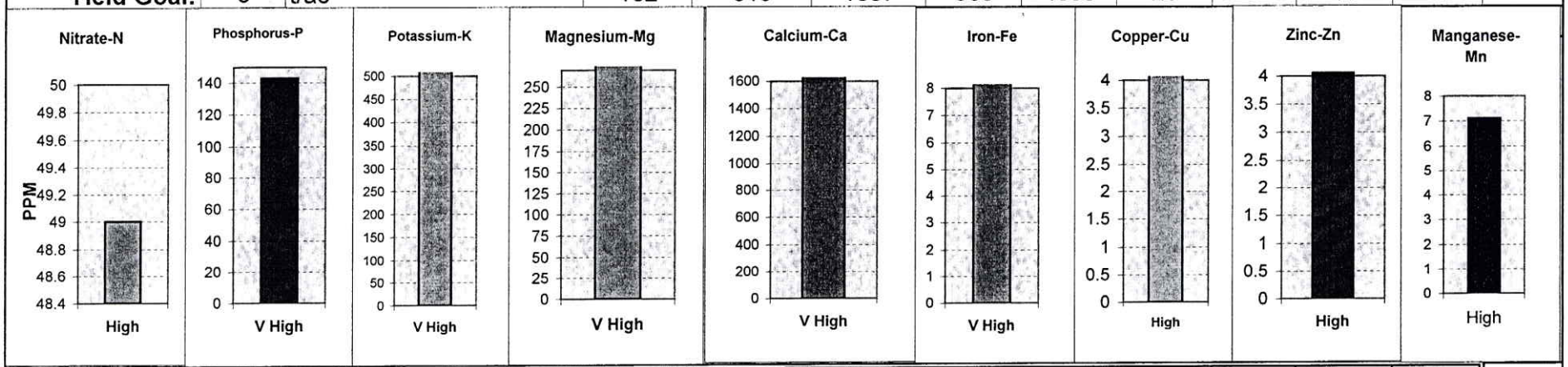
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 11.2
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	
	Lake Arthur, NM				
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	49.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:		Oats for silage, Irrigated			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		5	t/ac		162	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	80	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	70	5	228						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):	5.72								
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	3 lbs/ac	Urea 45% N	155.4 lbs Total Needed
Total Blend (lbs/ac): 3	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.68	0 lbs/ac		0.0 lbs Total Needed
	N-P2O5-K2O G	45% 0% 0%	155.4 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		156	
	Liquid Applied:	3	Acln/ac	**(gal):**		4,235,400	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	0 %	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining (%)**
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	70.4	**5.5**	**228.3**

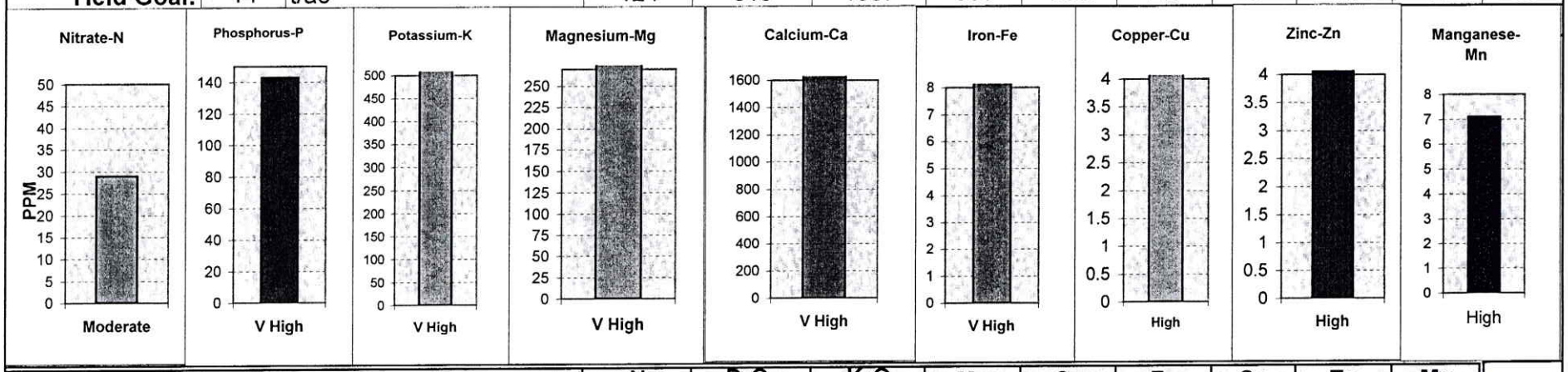
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 13
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	Formerly designated as Field 6a in 2006 CNMP
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	29.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Wheat for silage, Irrigated, wet basis				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	14	t/ac			124	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	150	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	141	9	460						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):	5.72								
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	2 lbs/ac	Urea 45% N		87.1 lbs Total Needed
Total Blend (lbs/ac): 2	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.38	0 lbs/ac			0.0 lbs Total Needed
	N-P2O5-K2O G	45%	0%	0%	87.1 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		317.2	
	Liquid Applied:	6.1	Acin/ac		**(gal):**	8,611,980	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**		**TKN (%) (dry)**		**NH_4-N (ppm) (dry)**		**P_2O_5 (%) (dry)**		**K_2O (%) (dry)**	
Fill in Lab data:	81.65		1.2				0.3		0.7	
Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3
Liquid-Lab Report	**NH_3-N (mg/L)**		**TKN (mg/L)**		**NO_3-N (mg/L)**		**Tot-PO_4 (mg/L)**		**K (mg/L)**	
Fill in Lab data:			308				10			
Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
			Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining (%)**
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	140.6	**9.4**	**459.9**

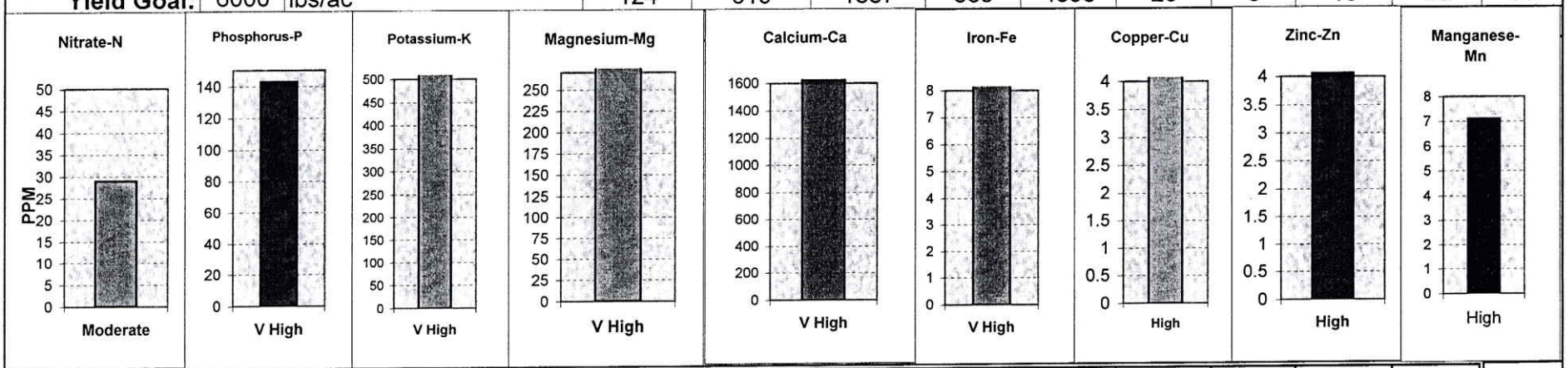
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 20
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	Formerly designated as Field 6a in 2006 CNMP
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	29.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:	Pasture, grass, G stand, L. season				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	6000	lbs/ac			124	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	180	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	169	11	553						
Irrigation Water Credits (ppm NO_3-N): 1	5								
Other Nutrient Sources (Standing Legume Crop.):	5.72								
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring if needed. Split N into 2-4 applications with the first in early spring.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Suggested Fertilizer Blend	2 lbs/ac	Urea 45% N	101.4 lbs Total Needed
Total Blend (lbs/ac): 2	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.44	0 lbs/ac		0.0 lbs Total Needed
	N-P2O5-K2O G	45% 0% 0%	101.4 Tt Blend (lbs)

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment
Basin Runoff - 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		382.2	
	Liquid Applied:	7.35	AcIn/ac	**(gal):**		10,376,730	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	168.9	**11.0**	**553.3**

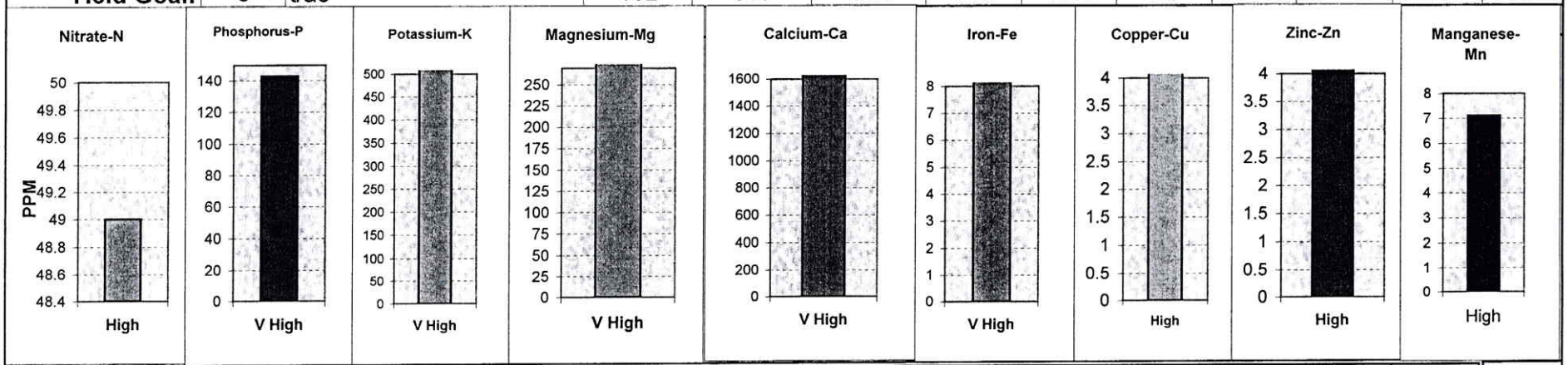
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	2	Crop Rotation:	Pasture
Client Name:	Cottonwood Springs	Record #:	1	Acres: 52.00	Irr. Water (acin/ac): 25.8
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	Formerly designated as Field 6a in 2006 CNMP
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
6 EAST	7.8	0.67	Loam	2.3	49.0	143.0	588.0	404.0	5082.0	21.0	4.2	5.5	7.1	20.8
Crop to grow:		Pasturegrass, Bermuda, established			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		5	t/ac		162	619	1337	389	4893	20	8	10	13	39



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	56	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	44	4	142						
Irrigation Water Credits (ppm NO_3-N): 1	6								
Other Nutrient Sources (Standing Legume Crop.):	5.72								
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring, if needed. Split fertilizer N applications to coincide with harvest regrowth. Consider slow release N for improved efficiency. Follow good Irrigation Water Mgt.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	1 lbs/ac	Urea 45% N	61.1 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.27	0 lbs/ac		0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0%	61.1 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 2 with Nutrient Application from Catchment Basin Runoff - 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	52	**Date:**	7/28/2010	**Field ID:**	2
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Pasture			**Needed for field (acin):**		96.2	
	Liquid Applied:	1.85	AcIn/ac	**(gal):**		2,611,830	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		104	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	0 %	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	44.4	**4.0**	**142.3**

Grazing-N: A Nitrogen Balance for Grazing Dairy Heifers and Dry Cows

Victor E. Cabrera, Ph.D., Extension Dairy Specialist, New Mexico State University

Dairy	Cottonwood Springs Field 2	Permit #	734	Period	1/1/2009	to	12/30/2013
							1799 days

Weight (lbs)	DMI	CP intake	N intake	N excretion	N remain	Net Balance	Carrying Capacity (CC) animals/acre	Grazing Management: Animals (#)	Days (#)	Acres (#)	N Supplement (lbs/day/animal)	N removal lbs/acre	Exceeds CC ?
	(lbs/day/animal)												
	ADG (lbs) 1.98	%CP Grass 20.9			% Volat. 50		DM (tn/ac/month) 0.75					Meaning	
Heifers													
Unbred													
330	9.89	2.07	0.33	0.10	0.05	-0.28	5.1						
440	12.36	2.58	0.41	0.14	0.07	-0.35	4.0						
550	14.68	3.07	0.49	0.17	0.09	-0.41	3.4						
660	16.89	3.53	0.56	0.20	0.10	-0.46	3.0						
770	18.99	3.97	0.64	0.24	0.12	-0.52	2.6	200	200	52		-396.68	YES
880	21.02	4.39	0.70	0.27	0.14	-0.57	2.4						
Bred													
990	22.99	4.80	0.77	0.31	0.15	-0.62	2.2						
1100	24.90	5.20	0.83	0.34	0.17	-0.66	2.0						
1200	26.76	5.59	0.90	0.37	0.19	-0.71	1.9						
1320	28.59	5.97	0.96	0.41	0.20	-0.75	1.7						
1430	30.37	6.35	1.02	0.44	0.22	-0.79	1.6						
Dry													
	%BW 1.8												
1600	28.80	6.02	0.46	0.58	0.29	-0.18	1.7				0.5		
											Total	-396.68	

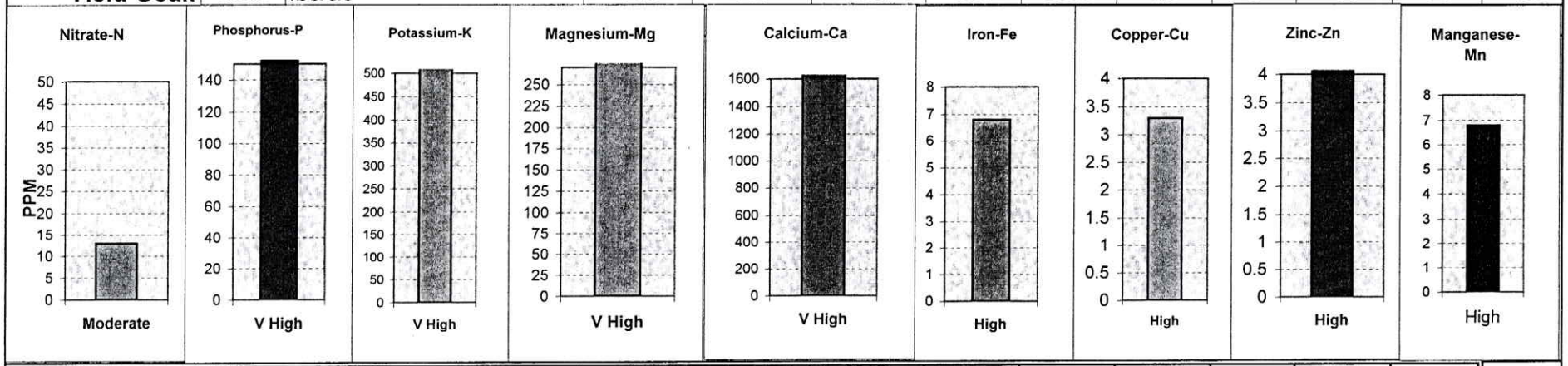
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	3	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 30.00	Irr. Water (acin/ac): 25.8
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	
	Lake Arthur, NM				
Zip Code:	88253	Date: 7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1	ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
9	7.7	1.51	Loam	3.0	13.0	169.0	599.0	405.0	6304.0	27.0	3.3	5.7	6.8	6.8
Crop to grow:		Pasture, grass, G stand, L. season			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		6000	lbs/ac		115	731	1362	390	6070	26	6	11	13	13



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	180	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	174	11	569						
Irrigation Water Credits (ppm NO_3-N): 1	6								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	1	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring if needed. Split N into 2-4 applications with the first in early spring.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	1 lbs/ac	Urea 45% N	35.9 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.27	0 lbs/ac		0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0%	35.9 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: i9 Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	30	**Date:**	7/28/2010	**Field ID:**	3
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Alfalfa			**Needed for field (acin):**		226.8	
	Liquid Applied:	7.56	Acin/ac	**(gal):**		6,157,620	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		60	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	173.7	**11.2**	**569.0**

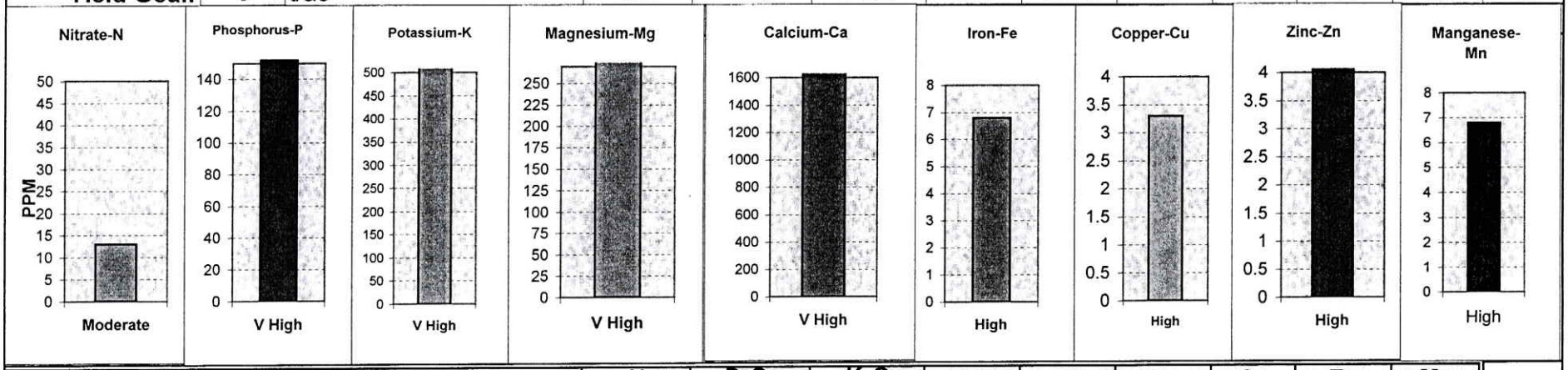
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	3	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 30.00	Irr. Water (acin/ac): 25.8
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date:	7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1 ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
9	7.7	1.51	Loam	3.0	13.0	169.0	599.0	405.0	6304.0	27.0	3.3	5.7	6.8	6.8
Crop to grow:		Pasturegrass, Bermuda, established			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		5	t/ac		115	731	1362	390	6070	26	6	11	13	13



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	103	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	97	7	316						
Irrigation Water Credits (ppm NO_3-N): 1	6								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O in the spring, if needed. Split fertilizer N applications to coincide with harvest regrowth. Consider slow release N for improved efficiency. Follow good Irrigation Water Mgt.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	1 lbs/ac	Urea 45% N		30.9 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.23	0 lbs/ac			0.0 lbs Total Needed
	N-P2O5-K2O G	45%	0%	0%	30.9 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: i9 Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic a

Client Name:	Cottonwood Springs	Acres:	30	Date:	7/28/2010	Field ID:	3
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Alfalfa			Needed for field (acin):		125.4	
	Liquid Applied:	4.18	Acin/ac	(gal):		3,404,610	
	Solids Applied:	2	ton/ac	Needed for field (tons):		60	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
Book	Test	Book	Test	Book	Test	Book	Test
0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
Sprinkler w/o incorporation	Warm Dry	35 %	14.9 (lbs/acin) NH4-N
			0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	97.1	6.9	316.4

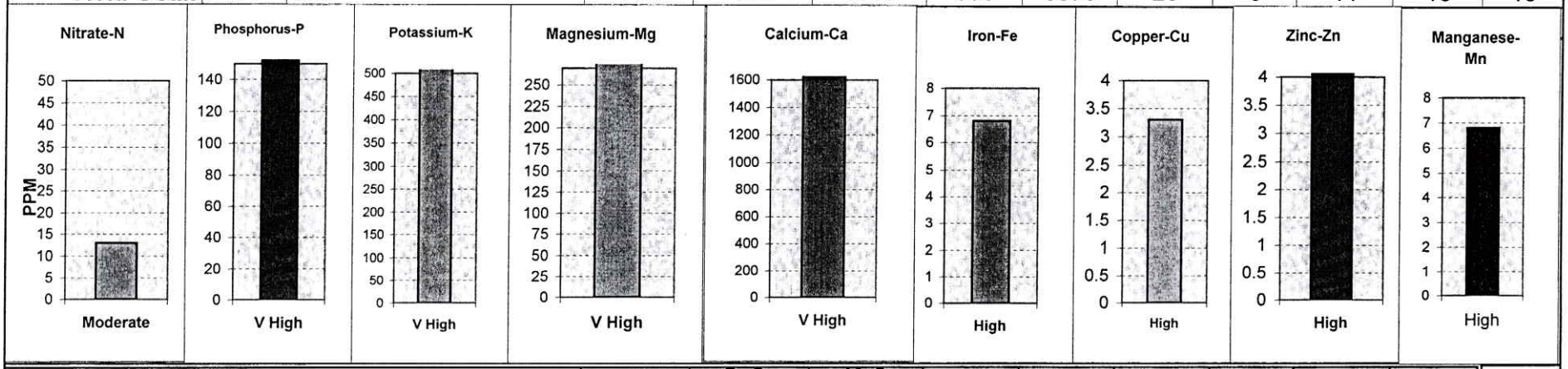
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	3	Crop Rotation:	Bermuda.
Client Name:	Cottonwood Springs	Record #:	1	Acres: 30.00	Irr. Water (acin/ac): 13
Address:	491 W. Funk Rd	Planner Name:	RG	Form Notes:	
	Lake Arthur, NM				
Zip Code:	88253	Date:	7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1 ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
9	7.7	1.51	Loam	3.0	13.0	169.0	599.0	405.0	6304.0	27.0	3.3	5.7	6.8	6.8
Crop to grow:	Wheat for silage, Irrigated, wet basis				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	14	t/ac			115	731	1362	390	6070	26	6	11	13	13



Nutrient Recommendation:	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	150	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	147	10	480						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Suggested Fertilizer Blend			
	1 lbs/ac	Urea 45% N	24.0 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.18	0 lbs/ac		0.0 lbs Total Needed
	N-P2O5-K2O G	45% 0% 0%	24.0 Tt Blend (lbs)

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	**Acres:**	30	**Date:**	7/28/2010	**Field ID:**	3
Application information (*enter the units that will be or has been applied to the field*):	**Crop Rotation:** Bermuda.			**Needed for field (acin):**		191.1	
	Liquid Applied:	6.37	Acln/ac	**(gal):**		5,188,365	
	Solids Applied:	2	ton/ac	**Needed for field (tons):**		60	
	Liquid Loads Applied:		1000gal/ac	**Loads needed for field:**			

Nutrient Content of Organic Material

Solid-Lab Report	**% Moisture**	**TKN (%) (dry)**	**NH_4-N (ppm) (dry)**	**P_2O_5 (%) (dry)**	**K_2O (%) (dry)**
Fill in Lab data:	81.65	1.2		0.4	0.7

Solid Book Values (select even if test values are used)	**% Moisture**		**TKN (lbs/wet ton)**		**NH_4-N (lbs/ton)**		**P_2O_5 (lbs/wet ton)**		**K_2O (lbs/wet ton)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	**NH_3-N (mg/L)**	**TKN (mg/L)**	**NO_3-N (mg/L)**	**Tot-PO_4 (mg/L)**	**K (mg/L)**
Fill in Lab data:		308		10	

Liquid	**% Moisture**		**TKN (lbs/acin)**		**NH_4-N (lbs/acin)**		**P_2O_5 (lbs/acin)**		**K_2O (lbs/acin)**	
	Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		**NH_4-N (lbs/1000gal)**		**P_2O_5 (lbs/1000gal)**		**K_2O (lbs/1000gal)**	
			Book	**Test**	**Book**	**Test**	**Book**	**Test**	**Book**	**Test**
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	**Type of Climate**	**Percent Remaining**	**NH_4-N Remaining**
	Warm Wet	**0 %**	**0** (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	**14.9** (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	**35 %**	**0.0** (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	**Percent Nutrient Available the 1st Year**			
	Organic N	**P**	**K**	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	**Solid Source**
Lagoon or diluted Pond	40 %	75 %	80 %	**Liquid Source**

Solid	**Organic N (lbs/ton)**	**P_2O_5 (lbs/ton)**	**K_2O (lbs/ton)**
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	**Soil Drainage Class** (See Survey Information)	**Percent Remaining** (%)
<2	Well Drained	**88**

Summary of Nutrients

Net by Form as applied	**lbs/1000gal**	**lbs/ac in**	**lbs/ton**
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	**All Forms N (lbs/ac)**	**P_2O_5 (lbs/ac)**	**K_2O (lbs/ac)**
	146.7	**10.3**	**480.1**

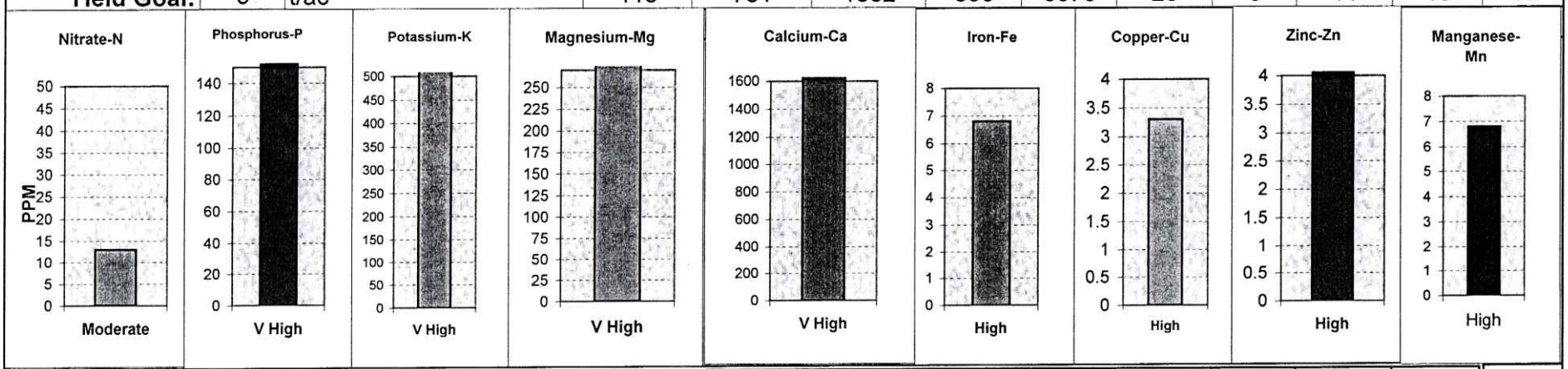
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	3	Crop Rotation:	Bermuda.
Client Name:	Cottonwood Springs	Record #:	1	Acres: 30.00	Irr. Water (acin/ac): 11.2
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	
Zip Code:	88253	Date:	7/28/2010	Depth increment (in):	6
Phone:				Sodium Adsorb. Ratio:	0.1
				ESP:	0.00

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
9	7.7	1.51	Loam	3.0	13.0	169.0	599.0	405.0	6304.0	27.0	3.3	5.7	6.8	6.8
Crop to grow:		Oats for silage, Irrigated			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		9	t/ac		115	731	1362	390	6070	26	6	11	13	13



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	150	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	147	10	482						
Irrigation Water Credits (ppm NO_3-N): 1	3								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Suggested Fertilizer Blend	0 lbs/ac	Urea 45% N		5.7 lbs Total Needed
Total Blend (lbs/ac): 0	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.04	0 lbs/ac			0.0 lbs Total Needed
	N-P2O5-K2O G	45%	0%	0%	5.7 Tt Blend (lbs)

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	Acres:	30	Date:	7/28/2010	Field ID:	3
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Bermuda.			Needed for field (acin):		192	
	Liquid Applied:	6.4	Acln/ac	(gal):		5,212,800	
	Solids Applied:	2	ton/ac	Needed for field (tons):		60	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.4	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
			Book	Test	Book	Test	Book	Test	Book	Test
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	147.4	10.3	482.3

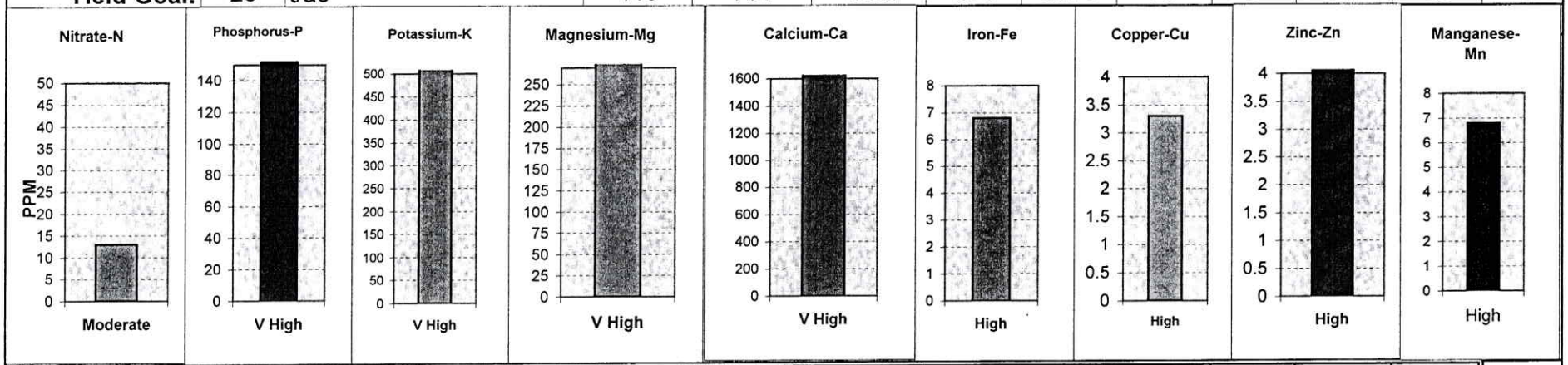
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	3	Crop Rotation:	Alfalfa
Client Name:	Cottonwood Springs	Record #:	1	Acres: 30.00	Irr. Water (acin/ac): 32.6
Address:	491 W. Funk Rd	Planner Name:		Form Notes:	
	Lake Arthur, NM		RG		
Zip Code:	88253	Date:	7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1 ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
9	7.7	1.51	Loam	3.0	13.0	169.0	599.0	405.0	6304.0	27.0	3.3	5.7	6.8	6.8
Crop to grow:		Corn, silage 35% DM			lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:		26	t/ac		115	731	1362	390	6070	26	6	11	13	13



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	112	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	104	7	339						
Irrigation Water Credits (ppm NO_3-N): 1	7								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Apply P2O5 & K2O at planting time if needed. Apply 1/2 N at planting time and side-dress 1/2 at lay-by. Split applying and banding can improve fertilizer efficiency.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Suggested Fertilizer Blend			
	1 lbs/ac	Urea 45% N	29.4 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac		0.0 lbs Total Needed
Blend Cost ($/ac): $0.22	0 lbs/ac		0.0 lbs Total Needed
	N-P2O5-K2O G	45% 0% 0%	29.4 Tt Blend (lbs)

Client Signature: i9 Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic

Client Name:	Cottonwood Springs	Acres:	30	Date:	7/28/2010	Field ID:	3
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Alfalfa			Needed for field (acin):		134.4	
	Liquid Applied:	4.48	AcIn/ac	(gal):		3,648,960	
	Solids Applied:	2	ton/ac	Needed for field (tons):		60	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.3	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0

	TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
	Book	Test	Book	Test	Book	Test	Book	Test
	0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	103.9	7.3	338.9

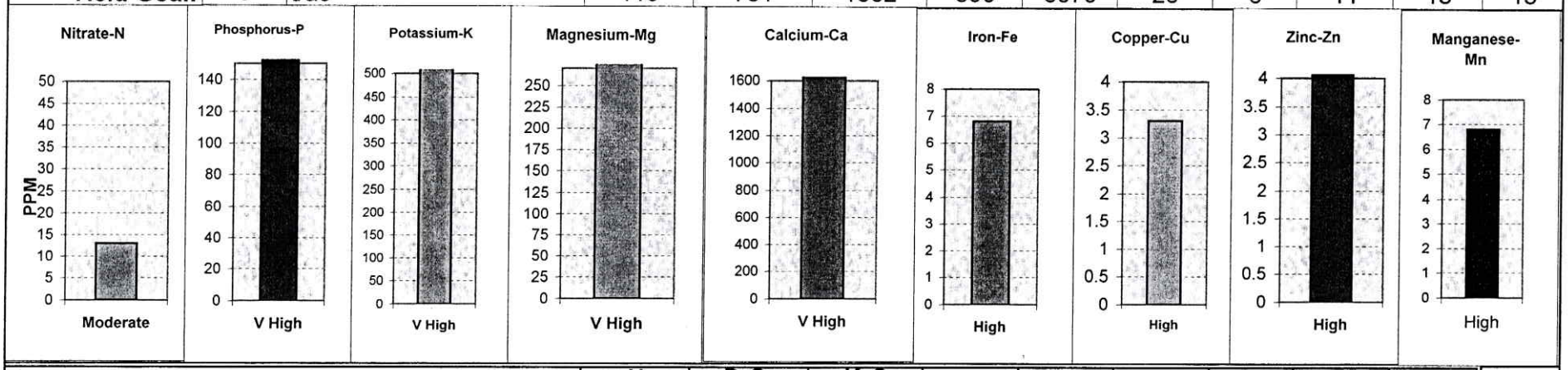
N.M.S.U.-Soil Test Interpretation Report vs 4.10 - (590 Nutrient Management Jobsheet)

County:	Eddy	Field ID:	3	Crop Rotation:	Bermuda.
Client Name:	Cottonwood Springs	Record #:	1	Acres: 30.00	Irr. Water (acin/ac): 42.5
Address:	491 W. Funk Rd Lake Arthur, NM	Planner Name:	RG	Form Notes:	
Zip Code:	88253	Date:	7/28/2010	Depth increment (in): 6	Sodium Adsorb. Ratio: 0.1 ESP: 0.00
Phone:					

Save To Farm Sum

Note: E.C.-Electrical Conductivity or Saltiness, O.M.-Organic Matter, and ESP-Exchangeable Sodium %.

Samp. ID (#)	pH (#)	E.C. (mmhos/cm)	Soil Texture (class)	O. M. (%)	NO_3-N (ppm)	P (ppm)	K (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Cu (ppm)	Zn (ppm)	Mn (ppm)	Fe (ppm)
9	7.7	1.51	Loam	3.0	13.0	169.0	599.0	405.0	6304.0	27.0	3.3	5.7	6.8	6.8
Crop to grow:	Alfalfa, 21% Pro. (manure applied)				lbs/ac	P_2O_5 (lbs/ac)	K_2O (lbs/ac)	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac	lbs/ac
Yield Goal:	9	t/ac			115	731	1362	390	6070	26	6	11	13	13



Nutrient Recommendation:

	N lbs/ac	P_2O_5 lbs/ac	K_2O lbs/ac	Mg lbs/ac	Ca lbs/ac	Fe lbs/ac	Cu lbs/ac	Zn lbs/ac	Mn lbs/ac
Recommended Nutrient Rate:	490	0	0	0	0	0	0	0	0
Organic Nutrient Source (Liquid or Solid Manure):	480	29	1581						
Irrigation Water Credits (ppm NO_3-N): 1	10								
Other Nutrient Sources (Standing Legume Crop.):									
Supplemental Nutrient Rate:	0	0	0	0	0	0	0	0	0
Available Nutrients > Crop Requirements:	NO	Caution P	Caution K	NO	NO	NO	NO	NO	NO

General Note: Manures contain P2O5 and sulfur among other plant nutrients. If application rate does not meet crop need then additional fertilizer may be needed.

Specific Notes:

EC Note: Very Low | No limitations

Gypsum Recom: 0 lbs/ac or 0 lbs/1000 ft^2

Robert P. Flynn, Ph.D.
Agronomy and Soils
cc: Eddy County Extension Agent

Suggested Fertilizer Blend	1 lbs/ac	Urea 45% N		17.0 lbs Total Needed
Total Blend (lbs/ac): 1	0 lbs/ac			0.0 lbs Total Needed
Blend Cost ($/ac): $0.13	0 lbs/ac			0.0 lbs Total Needed
N-P2O5-K2O G	45%	0%	0%	17.0 Tt Blend (lbs)

Client Signature: Planner Signature:

Fertilizer Cost Note: *Default costs are from NASS 10yr ave. ending 2001. Actual cost need local material cost and application charges. (See fert cost tab).*

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

Cottonwood Springs Dairy NMP
Field 3 – 590 Jobsheets (2010)

590 Nutrient Mgt. Jobsheet for Organic a

Client Name:	Cottonwood Springs	Acres:	30	Date:	7/28/2010	Field ID:	3
Application information (*enter the units that will be or has been applied to the field*):	Crop Rotation: Bermuda.			Needed for field (acin):		633.3	
	Liquid Applied:	21.11	Acln/ac	(gal):		17,194,095	
	Solids Applied:	2	ton/ac	Needed for field (tons):		60	
	Liquid Loads Applied:		1000gal/ac	Loads needed for field:			

Nutrient Content of Organic Material

Solid-Lab Report	% Moisture	TKN (%) (dry)	NH_4-N (ppm) (dry)	P_2O_5 (%) (dry)	K_2O (%) (dry)
Fill in Lab data:	81.65	1.2		0.4	0.7

Solid Book Values (select even if test values are used)	% Moisture		TKN (lbs/wet ton)		NH_4-N (lbs/ton)		P_2O_5 (lbs/wet ton)		K_2O (lbs/wet ton)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
Dairy Cattle (30% wet wt) NM (Aver		82	0	4	0.4	0.0	0	1	0	3

Liquid-Lab Report	NH_3-N (mg/L)	TKN (mg/L)	NO_3-N (mg/L)	Tot-PO_4 (mg/L)	K (mg/L)
Fill in Lab data:		308		10	

Liquid	% Moisture		TKN (lbs/acin)		NH_4-N (lbs/acin)		P_2O_5 (lbs/acin)		K_2O (lbs/acin)	
	Book	Test	Book	Test	Book	Test	Book	Test	Book	Test
NM Dairy Ponds (>99.5% liq.) Ave.	99.5		0	70	0	43	0	2	93	0
			TKN (lbs/1000gal)		NH_4-N (lbs/1000gal)		P_2O_5 (lbs/1000gal)		K_2O (lbs/1000gal)	
			Book	Test	Book	Test	Book	Test	Book	Test
			0.0			0.0	0.0			0.0

N Volatilization

Solid (type of application)	Type of Climate	Percent Remaining	NH_4-N Remaining
	Warm Wet	0 %	0 (lbs/ton) NH4-N
Liquid (type of application)	**Type of Climate**	**Percent Remaining**	14.9 (lbs/acin) NH4-N
Sprinkler w/o incorporation	Warm Dry	35 %	0.0 (lbs/1000gal) NH4-N

Mineralization of N, P, & K

Manure Source	Percent Nutrient Available the 1st Year			
	Organic N	P	K	
Beef & Dairy Solid w/o bedding	35 %	75 %	80 %	Solid Source
Lagoon or diluted Pond	40 %	75 %	80 %	Liquid Source

Solid	Organic N (lbs/ton)	P_2O_5 (lbs/ton)	K_2O (lbs/ton)
	1	1	2
Liquid	**Organic N (lbs/acin)**	**P_2O_5 (lbs/acin)**	**K_2O (lbs/acin)**
	11	1	75
	Organic N (lbs/100gal)	**P_2O_5 (lbs/1000gal)**	**K_2O (lbs/1000gal)**
	0.00	0.0	0.0

Denitrification of N

Organic Matter Content (%)	Soil Drainage Class (See Survey Information)	Percent Remaining (%)
<2	Well Drained	88

Summary of Nutrients

Net by Form as applied	lbs/1000gal	lbs/ac in	lbs/ton
N	0.0	23	1
P_2O_5	0.0	1	1
K_2O	0.0	75	2

Total Nutrients Applied (net to the field)	All Forms N (lbs/ac)	P_2O_5 (lbs/ac)	K_2O (lbs/ac)
	480.4	28.9	1581.5