

Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2011 to 12/31/2011.

Estacio, Carlos

Legal owner name: Estacio, Carlos

Telephone no.: (209) 634-9452

4413 S Prairie Flower RD
Mailing Address Number and Street

Turlock
City

Landline
CA
State

Cellular
95380
Zip Code

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	100	100	50	50	100
Number under roof	500	0	0	0	0	0
Maximum number	500	100	100	50	50	100
Average number	500	100	100	50	50	100
Avg live weight (lbs)	1,100	1,150	900	750		

Predominant milk cow breed: Jersey

Average milk production: 52 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 15,117.90 tons per reporting period

Total nitrogen from manure: 194,029.91 lbs per reporting period After ammonia losses (30% loss applied): 135,820.94 lbs per reporting period

Total phosphorus from manure: 31,209.64 lbs per reporting period

Total potassium from manure: 89,841.61 lbs per reporting period

Total salt from manure: 258,420.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 13,728,000 gallons

Total nitrogen generated: 33,827.26 lbs

Total phosphorus generated: 6,138.94 lbs

Total potassium generated: 44,703.50 lbs

Total salt generated: 289,095.97 lbs

	13,728,000 gallons applied
+	0 gallons exported
-	0 gallons imported
=	13,728,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Turlock Irrigation District	Surface water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	40	40	3	process wastewater	0058-0029-0008-0000
2	30	30	2	process wastewater	0058-0030-0010-0000
3	20	20	2	none	0058-0030-0011-0000
Totals for areas that were used for application	70	70	5		
Totals for areas that were not used for application	20	20	2		
Land application area totals	90	90	7		

B. CROPS AND HARVESTS

1

Field name: 1

11/15/2010: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 40 Plant date: 11/15/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/28/2011	520.00 ton	Dry-weight		68.8	18,600.00	3,500.00	21,900.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	16.00
Total actual harvest content	13.00	150.88	28.39	177.65	81.12

05/15/2011: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/15/2011

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2011	920.00 ton	Dry-weight		52.8	15,600.00	4,010.00	17,800.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	30.00
Total actual harvest content	23.00	338.71	87.07	386.47	217.12

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1

09/10/2011: Sudangrass, silage

Crop: Sudangrass, silage Acres planted: 40 Plant date: 09/10/2011

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/10/2011	260.00 ton	Dry-weight		74.2	22,300.00	3,560.00	30,200.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	88.00	13.60	96.00	8.00
Total actual harvest content	6.50	74.79	11.94	101.29	33.54

2

Field name: 2

11/15/2010: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 30 Plant date: 11/15/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/28/2011	390.00 ton	Dry-weight		68.8	18,600.00	3,500.00	21,900.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	16.00
Total actual harvest content	13.00	150.88	28.39	177.65	81.12

04/30/2011: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 04/30/2011

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/31/2011	690.00 ton	Dry-weight		57.8	11,100.00	2,870.00	12,600.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	30.00
Total actual harvest content	23.00	215.47	55.71	244.59	194.12

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3

Field name: 3

11/15/2010: Oats, silage-soft dough

Crop: Oats, silage-soft dough Acres planted: 20 Plant date: 11/15/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/28/2011	260.00 ton	Dry-weight		68.8	18,600.00	3,500.00	21,900.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	160.00	25.60	132.80	16.00
Total actual harvest content	13.00	150.88	28.39	177.65	81.12

05/15/2011: Corn, silage

Crop: Corn, silage Acres planted: 20 Plant date: 05/15/2011

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2011	460.00 ton	Dry-weight		60.4	12,000.00	2,820.00	11,900.00	10,000.00	

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	30.00
Total actual harvest content	23.00	218.59	51.37	216.77	182.16

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/15/2010: Oats, silage-soft dough

Field name: 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2010

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
10/29/2010	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	137.74	15.65	180.85	1,125.49	1,008,000.00 gal
Turlock Irrigation District		Surface water	7.08	0.00	0.00	0.01	5,655,272.70 gal
Application event totals			144.82	15.65	180.85	1,125.50	
03/13/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	147.58	16.76	193.77	1,205.89	1,080,000.00 gal
Turlock Irrigation District		Surface water	6.07	0.00	0.00	0.01	4,847,040.00 gal
Application event totals			153.65	16.76	193.77	1,205.89	

1 - 05/15/2011: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 05/15/2011

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
07/03/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	32.90	9.55	44.16	332.56	1,080,000.00 gal
Turlock Irrigation District		Surface water	9.10	0.00	0.00	0.01	7,270,560.00 gal
Application event totals			42.00	9.55	44.16	332.57	

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1 - 05/15/2011: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
07/15/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	32.90	9.55	44.16	332.56	1,080,000.00 gal
Turlock Irrigation District		Surface water	6.07	0.00	0.00	0.01	4,847,040.00 gal
Application event totals			38.97	9.55	44.16	332.57	
07/27/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	27.41	7.96	36.80	277.14	900,000.00 gal
Turlock Irrigation District		Surface water	7.08	0.00	0.00	0.01	5,654,880.00 gal
Application event totals			34.49	7.96	36.80	277.14	
08/07/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District		Surface water	5.06	0.00	0.00	0.01	4,039,200.00 gal
Application event totals			5.06	0.00	0.00	0.01	
08/18/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District		Surface water	4.55	0.00	0.00	0.00	3,635,280.00 gal
Application event totals			4.55	0.00	0.00	0.00	
08/28/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	24.67	7.17	33.12	249.42	810,000.00 gal
Application event totals			24.67	7.17	33.12	249.42	

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1 - 05/15/2011: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	19.19	5.57	25.76	194.00	630,000.00 gal
Turlock Irrigation District	Surface water	3.54	0.00	0.00	0.00	2,827,440.00 gal
Application event totals		22.73	5.57	25.76	194.00	

1 - 09/10/2011: Sudangrass, silage

Field name: 1
Crop: Sudangrass, silage Plant date: 09/10/2011

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/25/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	18.28	5.31	24.53	184.76	600,000.00 gal
Turlock Irrigation District	Surface water	4.05	0.00	0.00	0.00	3,231,584.40 gal
Application event totals		22.32	5.31	24.53	184.76	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/09/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	32.92	11.39	42.18	40.93	600,000.00 gal
Turlock Irrigation District	Surface water	4.05	0.00	0.00	0.00	3,231,584.40 gal
Application event totals		36.97	11.39	42.18	40.94	

2 - 11/15/2010: Oats, silage-soft dough

Field name: 2
Crop: Oats, silage-soft dough Plant date: 11/15/2010

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

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2 - 11/15/2010: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
10/29/2010	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	131.19	14.90	172.24	1,071.90	720,000.00 gal
Turlock Irrigation District		Surface water	6.74	0.00	0.00	0.01	4,039,480.50 gal
Application event totals			137.93	14.90	172.24	1,071.91	
03/13/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	196.78	22.35	258.36	1,607.85	1,080,000.00 gal
Turlock Irrigation District		Surface water	8.09	0.00	0.00	0.01	4,847,040.00 gal
Application event totals			204.87	22.35	258.36	1,607.86	

2 - 04/30/2011: Corn, silage

Field name: 2
Crop: Corn, silage Plant date: 04/30/2011

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
06/13/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District		Surface water	8.09	0.00	0.00	0.01	4,847,040.00 gal
Application event totals			8.09	0.00	0.00	0.01	
06/26/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lag		Process wastewater	21.93	6.37	29.44	221.71	540,000.00 gal
Turlock Irrigation District		Surface water	8.09	0.00	0.00	0.01	4,847,040.00 gal
Application event totals			30.02	6.37	29.44	221.72	

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2 - 04/30/2011: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following																													
07/05/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation																													
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																											
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Application event totals		32.47	7.96	36.80	277.14																												
08/18/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation																													
<table border="1"> <thead> <tr> <th>Source description</th> <th>Material type</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Salt (lbs/acre)</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>Lagoon</td> <td>Process wastewater</td> <td>29.24</td> <td>8.49</td> <td>39.25</td> <td>295.61</td> <td>720,000.00 gal</td> </tr> <tr> <td>Turlock Irrigation District</td> <td>Surface water</td> <td>5.39</td> <td>0.00</td> <td>0.00</td> <td>0.01</td> <td>3,231,360.00 gal</td> </tr> <tr> <td>Application event totals</td> <td></td> <td>34.64</td> <td>8.49</td> <td>39.25</td> <td>295.62</td> <td></td> </tr> </tbody> </table>		Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Lagoon	Process wastewater	29.24	8.49	39.25	295.61	720,000.00 gal	Turlock Irrigation District	Surface water	5.39	0.00	0.00	0.01	3,231,360.00 gal	Application event totals		34.64	8.49	39.25	295.62					
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																											
Lagoon	Process wastewater	29.24	8.49	39.25	295.61	720,000.00 gal																											
Turlock Irrigation District	Surface water	5.39	0.00	0.00	0.01	3,231,360.00 gal																											
Application event totals		34.64	8.49	39.25	295.62																												

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2 - 04/30/2011: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
09/09/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District		Surface water	6.74	0.00	0.00	0.01	4,039,200.00 gal
Application event totals			6.74	0.00	0.00	0.01	
09/19/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	21.93	6.37	29.44	221.71	540,000.00 gal
Turlock Irrigation District		Surface water	4.04	0.00	0.00	0.00	2,423,520.00 gal
Application event totals			25.98	6.37	29.44	221.71	
09/28/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	23.76	6.90	31.89	240.19	585,000.00 gal
Turlock Irrigation District		Surface water	4.38	0.00	0.00	0.00	2,625,480.00 gal
Application event totals			28.14	6.90	31.89	240.19	

3 - 11/15/2010: Oats, silage-soft dough

Field name: 3

Crop: Oats, silage-soft dough

Plant date: 11/15/2010

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
10/29/2010	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District		Surface water	6.07	0.00	0.00	0.01	2,423,688.30 gal
Application event totals			6.07	0.00	0.00	0.01	

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3 - 11/15/2010: Oats, silage-soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/15/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	6.07	0.00	0.00	0.01	2,423,520.00 gal
Application event totals		6.07	0.00	0.00	0.01	

3 - 05/15/2011: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 05/15/2011

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/29/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	8.09	0.00	0.00	0.01	3,231,360.00 gal
Application event totals		8.09	0.00	0.00	0.01	
07/15/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	7.08	0.00	0.00	0.01	2,827,440.00 gal
Application event totals		7.08	0.00	0.00	0.01	
07/23/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	7.58	0.00	0.00	0.01	3,029,400.00 gal
Application event totals		7.58	0.00	0.00	0.01	
08/02/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	6.07	0.00	0.00	285.16	2,423,520.00 gal
Application event totals		6.07	0.00	0.00	285.16	

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3 - 05/15/2011: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/17/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	7.58	0.00	0.00	0.01	3,029,400.00 gal
Application event totals		7.58	0.00	0.00	0.01	

08/29/2011	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Turlock Irrigation District	Surface water	7.58	0.00	0.00	0.01	3,029,400.00 gal
Application event totals		7.58	0.00	0.00	0.01	

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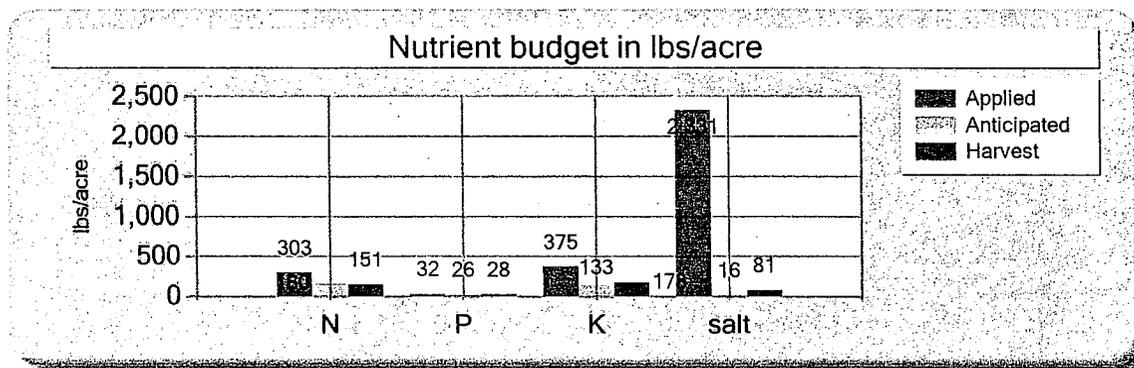
B. NUTRIENT BUDGET

1 - 11/15/2010: Oats, silage-soft dough

Field name: 1

Crop: Oats, silage-soft dough

Plant date: 11/15/2010



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	285.33	32.41	374.62	2,331.38
Fresh water	13.15	0.00	0.00	0.01
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	303.14	32.41	374.62	2,331.39
Anticipated crop nutrient removal	160.00	25.60	132.80	16.00
Actual crop nutrient removal	150.88	28.39	177.65	81.12
Nutrient balance	152.26	4.02	196.97	2,250.27
Applied to removed ratio	2.01	1.14	2.11	28.74

Fresh water applied
10,502,312.70 gallons
386.76 acre-inches
9.67 inches/acre

Process wastewater applied
2,088,000.00 gallons
76.89 acre-inches
1.92 inches/acre

Total harvests for the crop
1 harvests

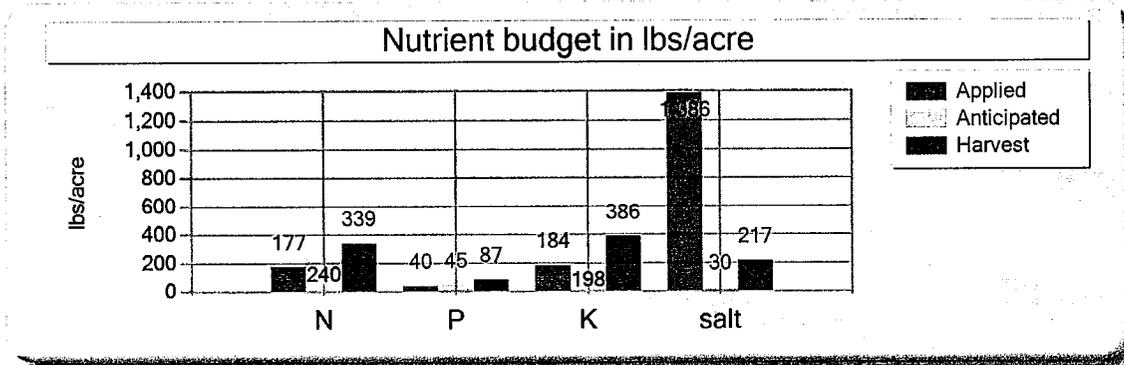
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1 - 05/15/2011: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 05/15/2011



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	137.07	39.81	184.01	1,385.69
Fresh water	35.39	0.00	0.00	0.04
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	177.13	39.81	184.01	1,385.72
Anticipated crop nutrient removal	240.00	45.00	198.00	30.00
Actual crop nutrient removal	338.71	87.07	386.47	217.12
Nutrient balance	-161.57	-47.26	-202.47	1,168.60
Applied to removed ratio	0.52	0.46	0.48	6.38

Fresh water applied
28,274,400.00 gallons
1,041.25 acre-inches
26.03 inches/acre

Process wastewater applied
4,500,000.00 gallons
165.72 acre-inches
4.14 inches/acre

Total harvests for the crop
1 harvests

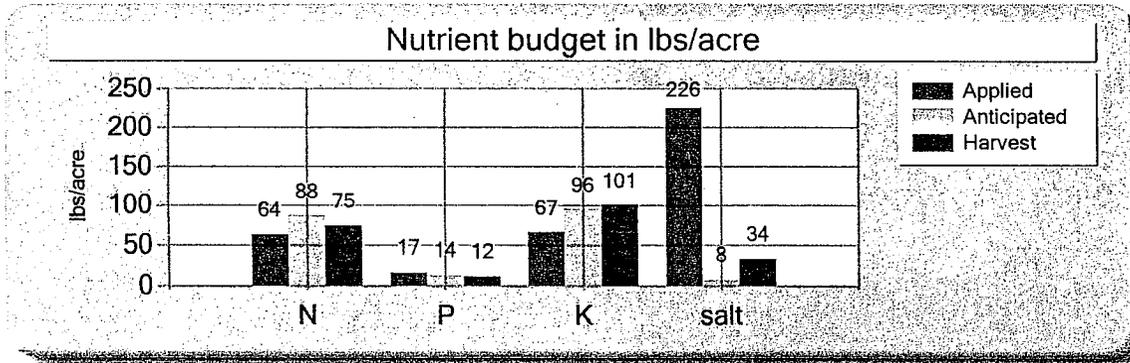
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1 - 09/10/2011: Sudangrass, silage

Field name: 1

Crop: Sudangrass, silage

Plant date: 09/10/2011



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	
Existing soil nutrient content	0.00	0.00	0.00	0.00	Fresh water applied
Plowdown credit	0.00	0.00	0.00	0.00	6,463,168.80 gallons
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	238.02 acre-inches
Dry manure	0.00	0.00	0.00	0.00	5.95 inches/acre
Process wastewater	51.20	16.70	66.72	225.69	Process wastewater applied
Fresh water	8.09	0.00	0.00	0.01	1,200,000.00 gallons
Atmospheric deposition	4.67	0.00	0.00	0.00	44.19 acre-inches
Total nutrients applied	63.95	16.70	66.72	225.70	1.10 inches/acre
Anticipated crop nutrient removal	88.00	13.60	96.00	8.00	Total harvests for the crop
Actual crop nutrient removal	74.79	11.94	101.29	33.54	1 harvests
Nutrient balance	-10.84	4.76	-34.57	192.16	
Applied to removed ratio	0.86	1.40	0.66	6.73	

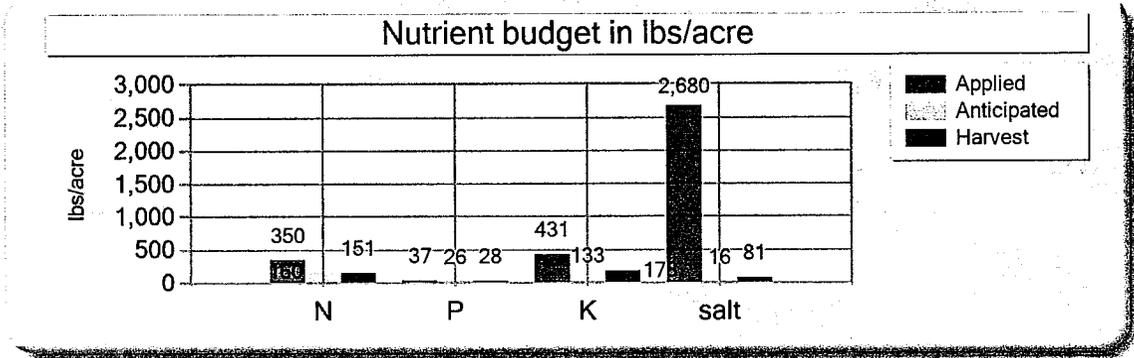
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2 - 11/15/2010: Oats, silage-soft dough

Field name: 2

Crop: Oats, silage-soft dough

Plant date: 11/15/2010



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	327.96	37.25	430.60	2,679.75
Fresh water	14.83	0.00	0.00	0.01
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	349.80	37.25	430.60	2,679.76
Anticipated crop nutrient removal	160.00	25.60	132.80	16.00
Actual crop nutrient removal	150.88	28.39	177.65	81.12
Nutrient balance	198.91	8.86	252.95	2,598.64
Applied to removed ratio	2.32	1.31	2.42	33.03

Fresh water applied
8,886,520.50 gallons
327.26 acre-inches
10.91 inches/acre
Process wastewater applied
1,800,000.00 gallons
66.29 acre-inches
2.21 inches/acre
Total harvests for the crop
1 harvests

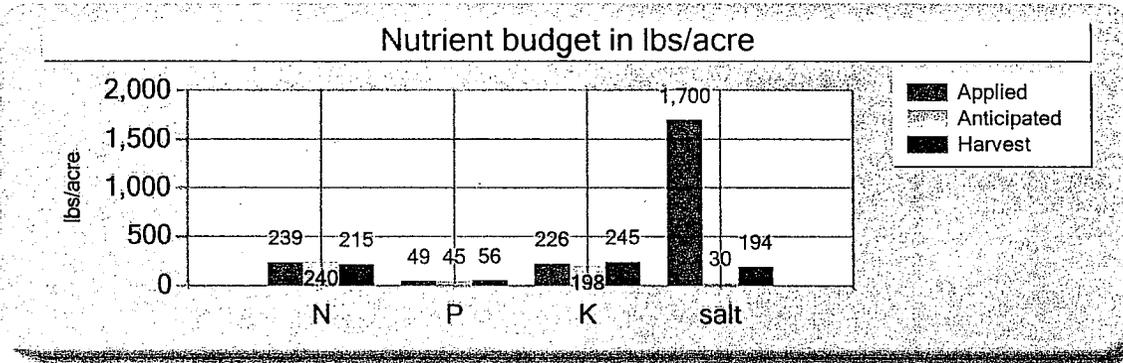
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2 - 04/30/2011: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 04/30/2011



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	
Existing soil nutrient content	0.00	0.00	0.00	0.00	Fresh water applied
Plowdown credit	0.00	0.00	0.00	0.00	37,968,480.00 gallons
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	1,398.25 acre-inches
Dry manure	0.00	0.00	0.00	0.00	46.61 inches/acre
Process wastewater	168.15	48.83	225.72	1,699.78	Process wastewater applied
Fresh water	63.37	0.00	0.00	0.06	4,140,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	152.46 acre-inches
Total nutrients applied	238.52	48.83	225.72	1,699.84	5.08 inches/acre
Anticipated crop nutrient removal	240.00	45.00	198.00	30.00	Total harvests for the crop
Actual crop nutrient removal	215.47	55.71	244.59	194.12	1 harvests
Nutrient balance	23.04	-6.88	-18.88	1,505.72	
Applied to removed ratio	1.11	0.88	0.92	8.76	

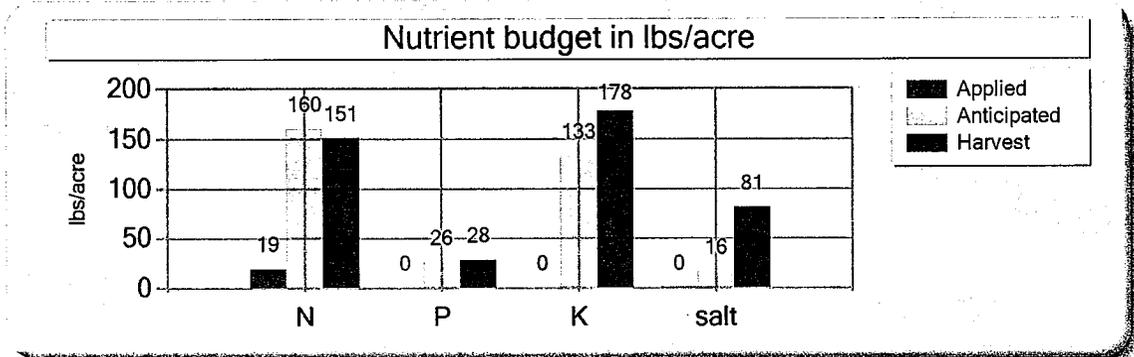
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3 - 11/15/2010: Oats, silage-soft dough

Field name: 3

Crop: Oats, silage-soft dough

Plant date: 11/15/2010



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	12.13	0.00	0.00	0.01
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	19.13	0.00	0.00	0.01
Anticipated crop nutrient removal	160.00	25.60	132.80	16.00
Actual crop nutrient removal	150.88	28.39	177.65	81.12
Nutrient balance	-131.75	-28.39	-177.65	-81.11
Applied to removed ratio	0.13	0.00	0.00	0.00

Fresh water applied
4,847,208.30 gallons
178.51 acre-inches
8.93 inches/acre
Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre
Total harvests for the crop
1 harvests

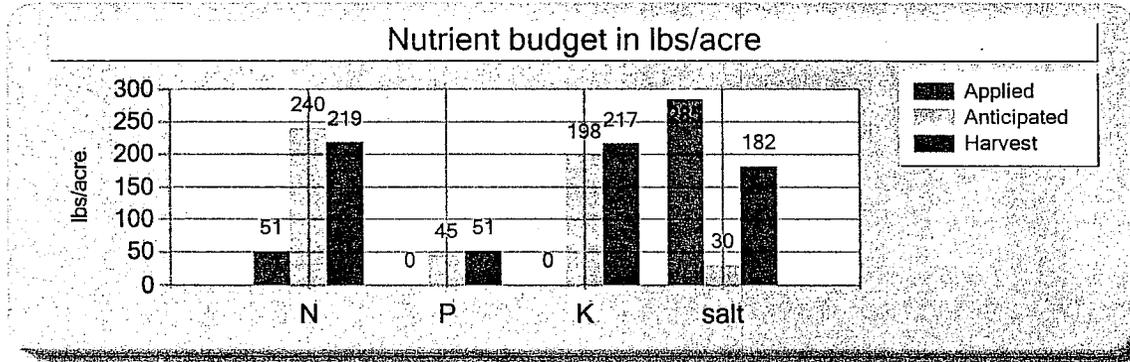
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3 - 05/15/2011: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 05/15/2011



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	43.99	0.00	0.00	285.20
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	50.99	0.00	0.00	285.20
Anticipated crop nutrient removal	240.00	45.00	198.00	30.00
Actual crop nutrient removal	218.59	51.37	216.77	182.16
Nutrient balance	-167.60	-51.37	-216.77	103.04
Applied to removed ratio	0.23	0.00	0.00	1.57

Fresh water applied
17,570,520.00 gallons
647.06 acre-inches
32.35 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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NUTRIENT ANALYSES

A. MANURE ANALYSES

No manure analyses entered.

B. PROCESS WASTEWATER ANALYSES

11030257A

Sample and source description: 11030257A

Sample date: 03/31/2011 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	655.00	384.00		0.01	74.40	860.00								8,920.00	
DL	0.01	0.01		0.01	0.01	0.01								0.01	

Lagoon 3rd Quarter

Sample and source description: Lagoon 3rd Quarter

Sample date: 09/29/2011 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	146.00	72.80			42.40	196.00								2,460.00	
DL	0.01	0.01			0.01	0.01								0.01	

Lagoon 4 th quarter

Sample and source description: Lagoon 4 th quarter

Sample date: 11/18/2011 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	263.00	146.00			91.00	337.00								545.00	
DL	0.01	0.01			0.01	0.01								0.01	

C. FRESH WATER ANALYSES

Turlock Irrigation District

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Turlock Irrigation District

Canal

Sample description: Canal

Sample date: 04/14/2011 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	6.00										0.01	
DL	0.01										0.01	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 05/15/2011: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/21/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 52.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,600.00	4,010.00	17,800.00	10,000.00	
DL	100.00	100.00	100.00	100.00	

1 - 09/10/2011: Sudangrass, silage

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1 - 09/10/2011: Sudangrass, silage

Sudan Silage

Sample and source description: Sudan Silage

Sample date: 11/10/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,300.00	3,560.00	30,200.00	10,000.00	
DL	100.00	100.00	100.00	100.00	

2 - 04/30/2011: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/21/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	2,870.00	12,600.00	10,000.00	
DL	100.00	100.00	100.00	100.00	

3 - 05/15/2011: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/21/2011 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,820.00	11,900.00	10,000.00	
DL	100.00	100.00	100.00	100.00	

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

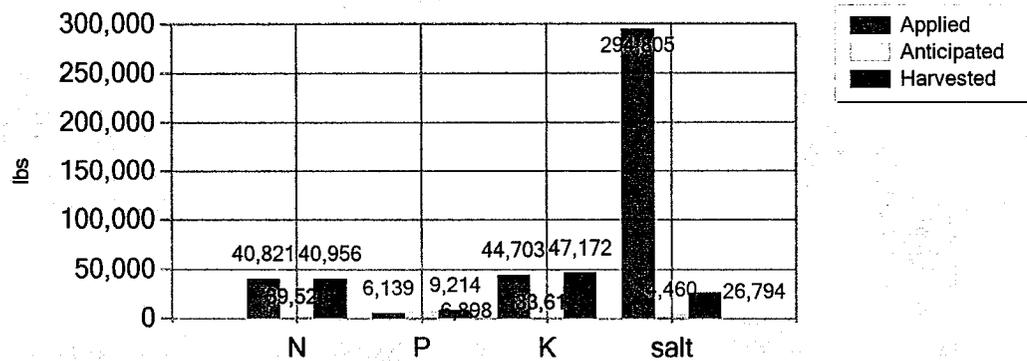
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NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

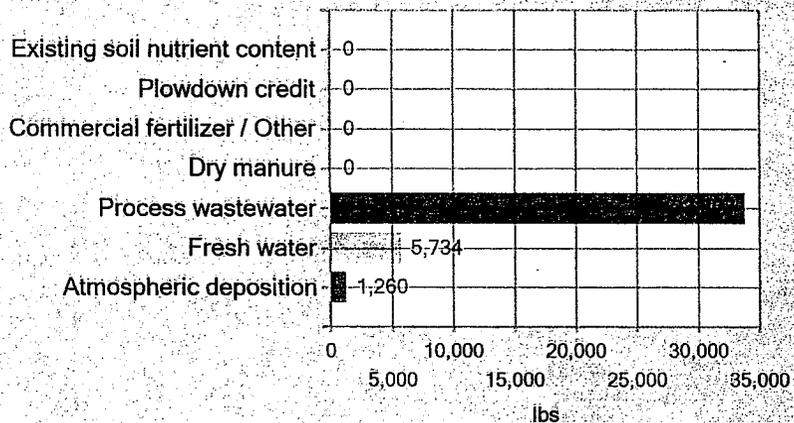
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	33,827.26	6,138.94	44,703.50	289,095.97
Fresh water	5,733.65	0.00	0.00	5,708.86
Atmospheric deposition	1,260.00	0.00	0.00	0.00
Total nutrients applied	40,820.91	6,138.94	44,703.50	294,804.83
Anticipated crop nutrient removal	39,520.00	6,898.00	33,612.00	4,460.00
Actual crop nutrient removal	40,955.58	9,214.25	47,172.47	26,794.00
Nutrient balance	-134.67	-3,075.31	-2,468.97	268,010.83
Applied to removed ratio	1.00	0.67	0.95	11.00

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

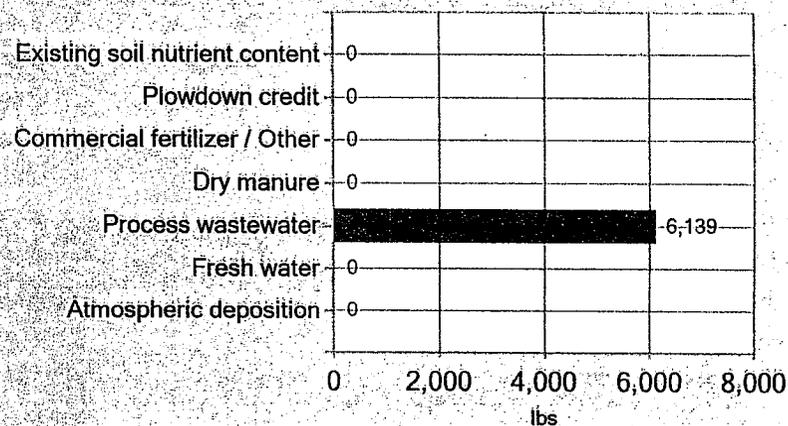


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

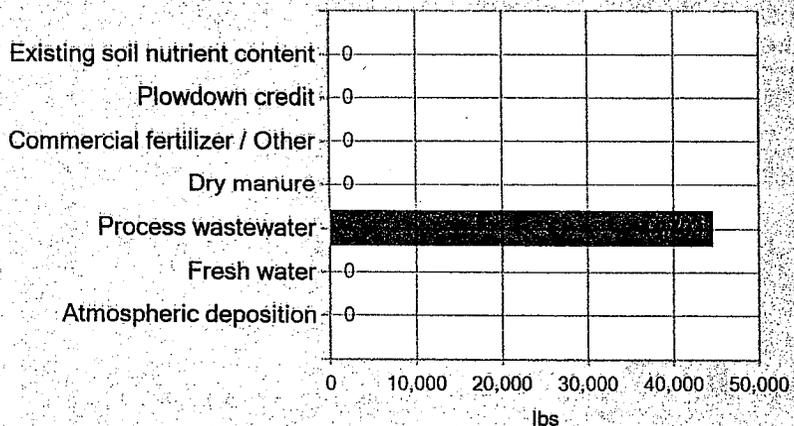
Pounds of nitrogen applied



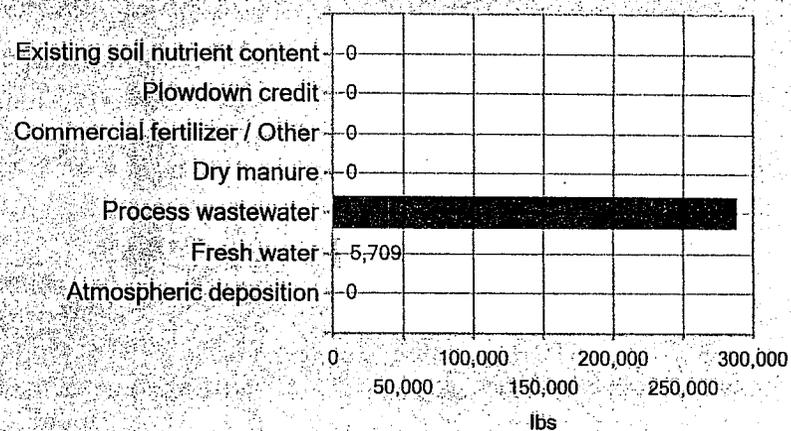
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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EXCEPTION REPORTING

A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

No manure or process wastewater discharges occurred during the reporting period.

B. STORM WATER DISCHARGES

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility 's Nutrient Management Plan.

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

No land application area to surface water discharges occurred during the reporting period.

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

Was the facility's NMP updated in the reporting period? No

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

B. EXPORT AGREEMENT STATEMENT

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No

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ADDITIONAL NOTES

A. NOTES

*Dairy Monitoring Co. just started providing service to San Isidro Jerseys Dairy (7/1/2014). This 2012 Annual Report had already been started but not completed by their previous service provider, therefor this report will be incomplete and DMC will leave report as is. DMC will be sure collect all necessary records or analysis needed in the future.

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ANNUAL REPORT VALIDATION INFORMATION

A. VALIDATION ERRORS

The following sections contain validation errors and should be reviewed before submitting the Annual Report:

1. Harvest Events
2. Land Application Events

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CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Carlos Estacio

Carlos Estacio

PRINT OR TYPE NAME

PRINT OR TYPE NAME

DATE

DATE

Annual Report - General Order No. R5-2007-0035
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ATTACHMENTS

A. REQUIRED ATTACHMENTS

The following lists the required documents that should be attached to the Annual Report when submitted.

Annual Dairy Facility Assessment

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDF/A Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed.

Manure/Process Wastewater Tracking Manifests

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

Corrective Actions Documents

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

Groundwater Monitoring

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

Storm Water Monitoring

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.