Annual Report - General Order No. R5-2007-0035
Reporting period 01/01/2010 to 12/31/2010.

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RWQCB-CVR
FRESNO, CALIF.

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: [redacted]

Physical address of dairy:

[redacted] (Number and Street) [redacted] (City) [redacted] (County) [redacted] (Zip Code)

Street and nearest cross street (if no address):

Date facility was originally placed in operation: [redacted]

Regional Water Quality Control Board Basin Plan designation: [redacted]

County Assessor Parcel Number(s) for dairy facility:

[redacted]

B. OPERATORS

[redacted]

Operator name: [redacted] Telephone no.: [redacted] (Landline) (Cellular)

[redacted] (Mailing Address Number and Street) [redacted] (City) [redacted] (State) [redacted] (Zip Code)

C. OWNERS

[redacted]

Legal owner name: [redacted] Telephone no.: [redacted] (Landline) (Cellular)

[redacted] (Mailing Address Number and Street) [redacted] (City) [redacted] (State) [redacted] (Zip Code)

This owner is responsible for paying permit fees.

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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	150	112	270	170	100	0
Number under roof	340	0	0	0	0	0
Maximum number	800	166	270	170	100	0
Average number	490	112	270	170	100	0
Avg live weight (lbs)	1,400	1,500	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 70 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 19,062.72 *tons per reporting period*

Total nitrogen from manure: 231,642.25 *lbs per reporting period*

Total phosphorus from manure: 37,946.97 *lbs per reporting period*

Total potassium from manure: 93,839.52 *lbs per reporting period*

Total salt from manure: 256,470.90 *lbs per reporting period*

After ammonia losses (30% loss applied): 162,149.58 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 36,132,000 *gallons*

Total nitrogen generated: 72,270.79 *lbs*

Total phosphorus generated: 18,067.35 *lbs*

Total potassium generated: 122,988.23 *lbs*

Total salt generated: 1,010,926.62 *lbs*

	36,132,000 *gallons applied*
+	0 *gallons exported*
-	0 *gallons imported*
=	36,132,000 *gallons generated*

D. IRRIGATION SOURCES

Irrigation Source Name	Type
415-E	Ground water

Irrigation Source Name	Type
415-N	Ground water
417N	Ground water
417-S	Ground water
418-N	Ground water
418S	Ground water
Back Dairy	Ground water
Big Dairy	Ground water
Canal	Surface water
Dom-Barn	Ground water
Dom-M	Ground water
Dom-Milkers	Ground water
Dom-Oscar	Ground water
Fruit 60	Ground water
Mikes Irr	Ground water

E. NUTRIENT IMPORTS

No nutrient imports entered.

F. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	Total N (%)	Total P (%)	K (%)	Total Salt (%)
10/01/2010	Corral solids	800.00 *ton*	As-is	5.7	27.90	1.230000	0.440000	1.610000	0.000000
10/02/2010	Corral solids	1,600.00 *ton*	As-is	5.7	27.90	1.230000	0.440000	1.610000	0.000000
10/05/2010	Corral solids	1,440.00 *ton*	As-is	5.7	27.90	1.230000	0.440000	1.610000	0.000000

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	94,464.00	33,792.00	123,648.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	94,464.00	33,792.00	123,648.00	0.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
407	52	52	1	process wastewater	[redacted]
408	15	15	2	process wastewater	[redacted]
409A	27	27	2	process wastewater	[redacted]
410	52	52	2	process wastewater	[redacted]
413B	37	37	1	process wastewater	[redacted]
414	26	26	1	process wastewater	[redacted]
415	50	50	1	manure	[redacted]
418	156	156	1	manure	[redacted]
Land application area totals	465	465	12		

B. CROPS AND HARVESTS

407

Field name: 407

407

05/10/2010: Sorghum-Sudangrass, forage — 05/10/2010

Crop: 05/10/2010: Sorghum-Sudangrass, forage — Acres planted: 52 Plant date: 05/10/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/08/2010	1,236.00 *ton*	Dry-weight		67.9	1.290000	0.310000	2.080000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	23.77	196.85	47.31	317.40	0.00

408

Field name: 408

11/01/2009: Oats, hay — 11/01/2009

Crop: 11/01/2009: Oats, hay — Acres planted: 15 Plant date: 11/01/2009

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/05/2010	122.60 *ton*	Dry-weight		36.1	1.200000	0.270000	1.000000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	8.00	320.00	52.00	264.00	0.00
Total actual harvest content	8.17	125.35	28.20	104.46	0.00

408

06/01/2010

06/01/2010: Sorghum-Sudangrass, forage

Crop: 06/01/2010: Sorghum-Sudangrass, forage Acres planted: 15 Plant date: 06/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/04/2010	343.21 *ton*	Dry-weight		69.2	1.680000	0.350000	2.680000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	22.88	236.79	49.33	377.73	0.00

409A

Field name: 409A

11/01/2009

11/01/2009: Oats, hay

Crop: 11/01/2009: Oats, hay Acres planted: 27 Plant date: 11/01/2009

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/05/2010	235.20 *ton*	Dry-weight		18.7	2.070000	0.360000	1.900000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	8.00	320.00	52.00	264.00	0.00
Total actual harvest content	8.71	293.20	50.99	269.12	0.00

409A

06/01/2010: Sorghum-Sudangrass, forage — 06/01/2010

Crop: 06/01/2010: Sorghum-Sudangrass, forage — Acres planted: 27 Plant date: 06/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/08/2010	520.71 *ton*	Dry-weight		67.9	1.290000	0.310000	2.080000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	19.29	159.72	38.38	257.53	0.00

410

Field name: 410

11/01/2009: Oats, hay — 11/01/2009

Crop: 11/01/2009: Oats, hay — Acres planted: 52 Plant date: 11/01/2009

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
05/05/2010	432.60 *ton*	Dry-weight		36.1	1.620000	0.280000	1.820000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	8.00	320.00	52.00	264.00	0.00
Total actual harvest content	8.32	172.24	29.77	193.50	0.00

410

06/01/2010: Sorghum-Sudangrass, forage — 06/01/2010

Crop: 06/01/2010: Sorghum-Sudangrass, forage — Acres planted: 52 Plant date: 06/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/05/2010	965.20 *ton*	Dry-weight		69.2	1.680000	0.350000	2.680000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	18.56	192.09	40.02	306.43	0.00

413B

Field name: 413B

05/10/2010: Sorghum-Sudangrass, forage — 05/10/2010

Crop: 05/10/2010: Sorghum-Sudangrass, forage — Acres planted: 37 Plant date: 05/10/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/19/2010	856.20 *ton*	Dry-weight		67.2	1.260000	0.300000	2.000000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	23.14	191.27	45.54	303.60	0.00

414

Field name: 414

414

06/05/2010: Sorghum-Sudangrass, forage — 06/05/2010

Crop: 06/05/2010: Sorghum-Sudangrass, forage — Acres planted: 26 Plant date: 06/05/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/19/2010	325.55 *ton*	Dry-weight		73.6	1.470000	0.370000	2.000000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	18.00	144.00	27.00	118.80	0.00
Total actual harvest content	12.52	97.18	24.46	132.22	0.00

415

Field name: 415

06/01/2010: Sorghum-Sudangrass, forage — 06/01/2010

Crop: 06/01/2010: Sorghum-Sudangrass, forage — Acres planted: 50 Plant date: 06/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/19/2010	605.37 *ton*	Dry-weight		67.2	1.260000	0.300000	2.000000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	12.11	100.07	23.83	158.85	0.00

418

Field name: 418

418

06/01/2010: Sorghum-Sudangrass, forage 06/01/2010

Crop: 06/01/2010: Sorghum-Sudangrass, forage Acres planted: 156 Plant date: 06/01/2010

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	Total N (%)	Total P (%)	K (%)	Total salt (%)
10/05/2010	2,689.53 *ton*	Dry-weight		69.2	1.680000	0.350000	2.680000	0.000000

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)
Anticipated harvest content	22.00	176.00	33.00	145.20	0.00
Total actual harvest content	17.24	178.42	37.17	284.62	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

407 - 05/10/2010: Sorghum-Sudangrass, forage

Field name: 407

Crop: Sorghum-Sudangrass, forage

Plant date: 05/10/2010

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
06/08/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	60.98	24.11	155.27	1,415.44	2,500,000.00 *gal*
Application event totals		60.98	24.11	155.27	1,415.44	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
07/15/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	90.27	23.11	151.25	1,246.94	2,500,000.00 *gal*
Application event totals		90.27	23.11	151.25	1,246.94	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
09/22/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	90.27	23.11	151.25	1,246.94	2,500,000.00 *gal*
Application event totals		90.27	23.11	151.25	1,246.94	

408 - 11/01/2009: Oats, hay

Field name: 408

Crop: Oats, hay

Plant date: 11/01/2009

408 - 11/01/2009: Oats, hay

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
01/23/2010	Surface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	134.74	26.29	204.06	1,577.21	700,000.00 *gal*
Application event totals		134.74	26.29	204.06	1,577.21	

408 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 408

Crop: Sorghum-Sudangrass, forage

Plant date: 06/01/2010

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
07/15/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	400.56	102.54	671.16	5,533.07	3,200,000.00 *gal*
Application event totals		400.56	102.54	671.16	5,533.07	

409A - 11/01/2009: Oats, hay

Field name: 409A

Crop: Oats, hay

Plant date: 11/01/2009

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

409A - 11/01/2009: Oats, hay

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
01/20/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	332.58	64.88	503.68	3,892.94	3,110,000.00 *gal*
Application event totals		332.58	64.88	503.68	3,892.94	

409A - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 409A

Crop: Sorghum-Sudangrass, forage

Plant date: 06/01/2010

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
07/02/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	156.47	40.06	262.17	2,161.36	2,250,000.00 *gal*
Application event totals		156.47	40.06	262.17	2,161.36	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
08/02/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	156.47	40.06	262.17	2,161.36	2,250,000.00 *gal*
Application event totals		156.47	40.06	262.17	2,161.36	

410 - 11/01/2009: Oats, hay

410 - 11/01/2009: Oats, hay

Field name: 410

Crop: Oats, hay

Plant date: 11/01/2009

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
03/25/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	192.12	37.48	290.96	2,248.82	3,460,000.00 *gal*
Application event totals		192.12	37.48	290.96	2,248.82	

410 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 410

Crop: Sorghum-Sudangrass, forage

Plant date: 06/01/2010

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
08/15/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	249.58	63.89	418.18	3,447.53	6,912,000.00 *gal*
Application event totals		249.58	63.89	418.18	3,447.53	

413B - 05/10/2010: Sorghum-Sudangrass, forage

Field name: 413B

Crop: Sorghum-Sudangrass, forage

Plant date: 05/10/2010

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

413B - 05/10/2010: Sorghum-Sudangrass, forage

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
06/18/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	59.60	23.72	152.75	1,392.49	1,750,000.00 *gal*
Application event totals		59.60	23.72	152.75	1,392.49	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
07/25/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	88.81	22.73	148.80	1,226.72	1,750,000.00 *gal*
Application event totals		88.81	22.73	148.80	1,226.72	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
09/05/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	88.81	22.73	148.80	1,226.72	1,750,000.00 *gal*
Application event totals		88.81	22.73	148.80	1,226.72	

414 - 06/05/2010: Sorghum-Sudangrass, forage

Field name: 414

Crop: Sorghum-Sudangrass, forage

Plant date: 06/05/2010

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

414 - 06/05/2010: Sorghum-Sudangrass, forage

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
06/22/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	24.23	9.64	62.11	566.18	500,000.00 *gal*
Application event totals		24.23	9.64	62.11	566.18	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
08/02/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	36.11	9.24	60.50	498.77	500,000.00 *gal*
Application event totals		36.11	9.24	60.50	498.77	

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
09/12/2010	Subsurface (irrigation)	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
WW	Process wastewater	36.11	9.24	60.50	498.77	500,000.00 *gal*
Application event totals		36.11	9.24	60.50	498.77	

415 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 415

Crop: Sorghum-Sudangrass, forage Plant date: 06/01/2010

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

415 - 06/01/2010: Sorghum-Sudangrass, forage

Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
05/15/2010	Plow/disc	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
DM	Corral solids	184.75	46.68	115.22	0.00	320.00 *ton*
Application event totals		184.75	46.68	115.22	0.00	

418 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 418

Crop: Sorghum-Sudangrass, forage

Plant date: 06/01/2010

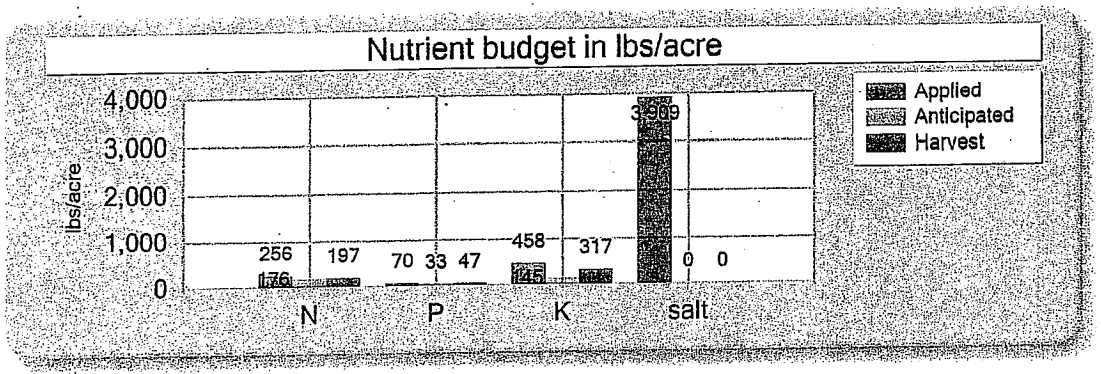
Application date	Application method	Weather 24 hours prior	Weather during application	Weather 24 hours following
05/15/2010	Plow/disc	Sunny	Sunny	Sunny

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Total salt (lbs/acre)	Amount
DM	Corral solids	360.84	91.18	225.04	0.00	1,950.00 *ton*
Application event totals		360.84	91.18	225.04	0.00	

B. NUTRIENT BUDGET

407 - 05/10/2010: Sorghum-Sudangrass, forage

Field name: 407 Crop: Sorghum-Sudangrass, forage Plant date: 05/10/2010



	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	241.52	70.33	457.77	3,909.31
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	255.52	70.33	457.77	3,909.31
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	196.85	47.31	317.40	0.00
Nutrient balance	58.67	23.03	140.37	3,909.31
Applied to removed ratio	1.30	1.49	1.44	0.00

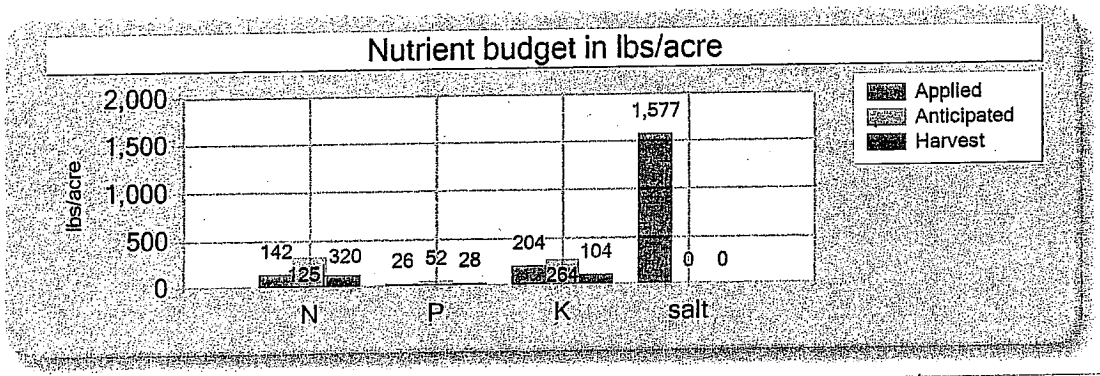
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
7,500,000.00 *gallons*
276.20 *acre-inches*
5.31 *inches/acre*

Total harvests for the crop
1 *harvests*

408 - 11/01/2009: Oats, hay

Field name: 408 Crop: Oats, hay Plant date: 11/01/2009



	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	134.74	26.29	204.06	1,577.21
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	141.74	26.29	204.06	1,577.21
Anticipated crop nutrient removal	320.00	52.00	264.00	0.00
Actual crop nutrient removal	125.35	28.20	104.46	0.00
Nutrient balance	16.40	-1.92	99.61	1,577.21
Applied to removed ratio	1.13	0.93	1.95	0.00

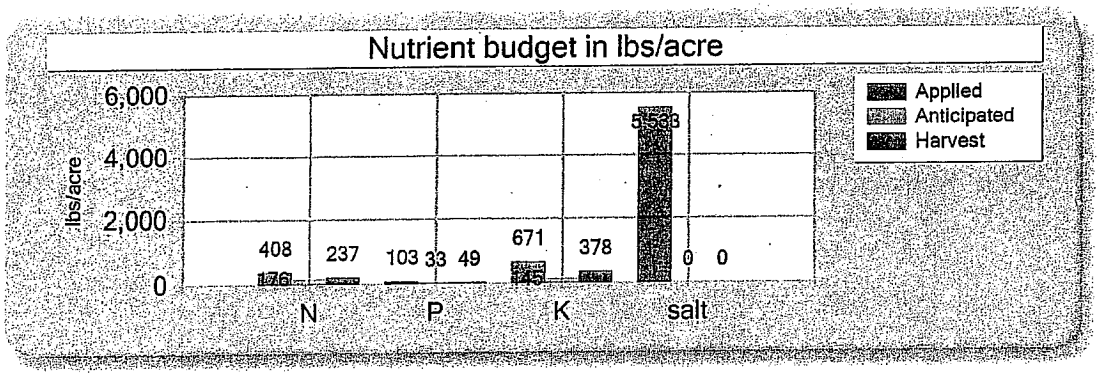
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
700,000.00 *gallons*
25.78 *acre-inches*
1.72 *inches/acre*

Total harvests for the crop
1 *harvests*

408 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 408 Crop: Sorghum-Sudangrass, forage Plant date: 06/01/2010



	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	400.56	102.54	671.16	5,533.07
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	407.56	102.54	671.16	5,533.07
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	236.79	49.33	377.73	0.00
Nutrient balance	170.77	53.21	293.43	5,533.07
Applied to removed ratio	1.72	2.08	1.78	0.00

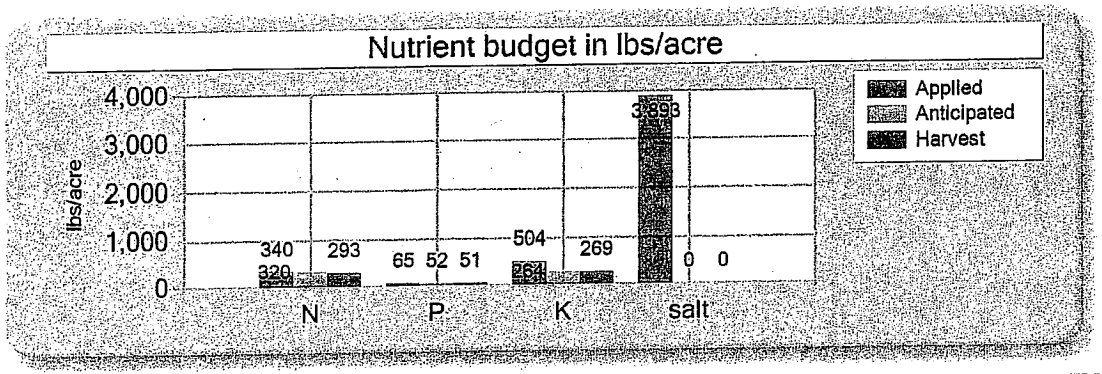
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
3,200,000.00 *gallons*
117.85 *acre-inches*
7.86 *inches/acre*

Total harvests for the crop
1 *harvests*

409A - 11/01/2009: Oats, hay

Field name: 409A Crop: Oats, hay Plant date: 11/01/2009



	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	332.58	64.88	503.68	3,892.94
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	339.58	64.88	503.68	3,892.94
Anticipated crop nutrient removal	320.00	52.00	264.00	0.00
Actual crop nutrient removal	293.20	50.99	269.12	0.00
Nutrient balance	46.38	13.89	234.56	3,892.94
Applied to removed ratio	1.16	1.27	1.87	0.00

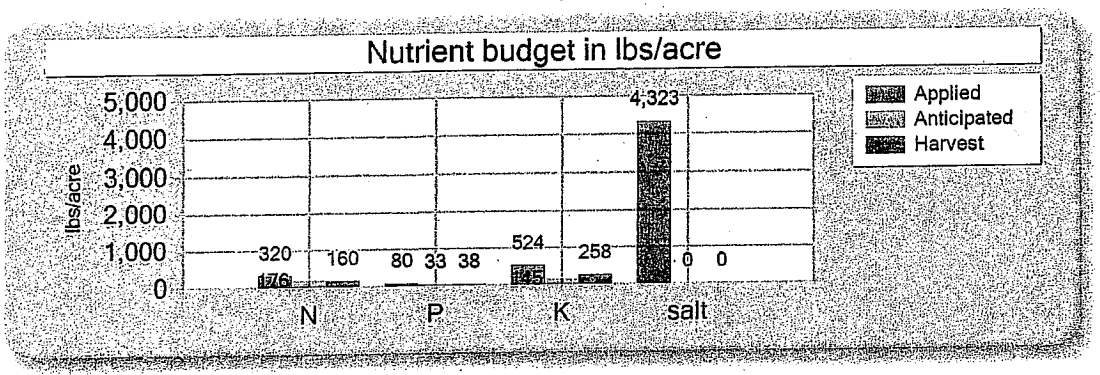
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
3,110,000.00 *gallons*
114.53 *acre-inches*
4.24 *inches/acre*

Total harvests for the crop
1 *harvests*

409A - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 409A | Crop: Sorghum-Sudangrass, forage | Plant date: 06/01/2010



	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	312.94	80.11	524.34	4,322.71
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.94	80.11	524.34	4,322.71
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	159.72	38.38	257.53	0.00
Nutrient balance	160.22	41.73	266.81	4,322.71
Applied to removed ratio	2.00	2.09	2.04	0.00

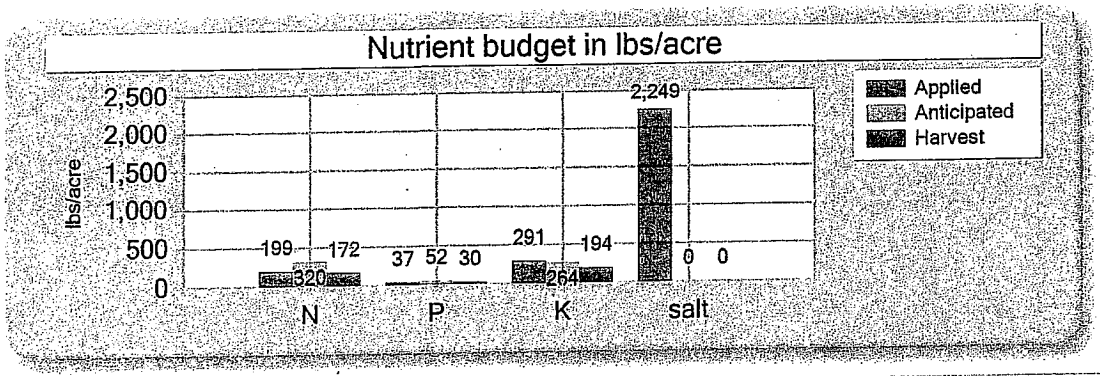
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

410 - 11/01/2009: Oats, hay

Field name: 410 Crop: Oats, hay Plant date: 11/01/2009



	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	192.12	37.48	290.96	2,248.82
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	199.12	37.48	290.96	2,248.82
Anticipated crop nutrient removal	320.00	52.00	264.00	0.00
Actual crop nutrient removal	172.24	29.77	193.50	0.00
Nutrient balance	26.88	7.71	97.46	2,248.82
Applied to removed ratio	1.16	1.26	1.50	0.00

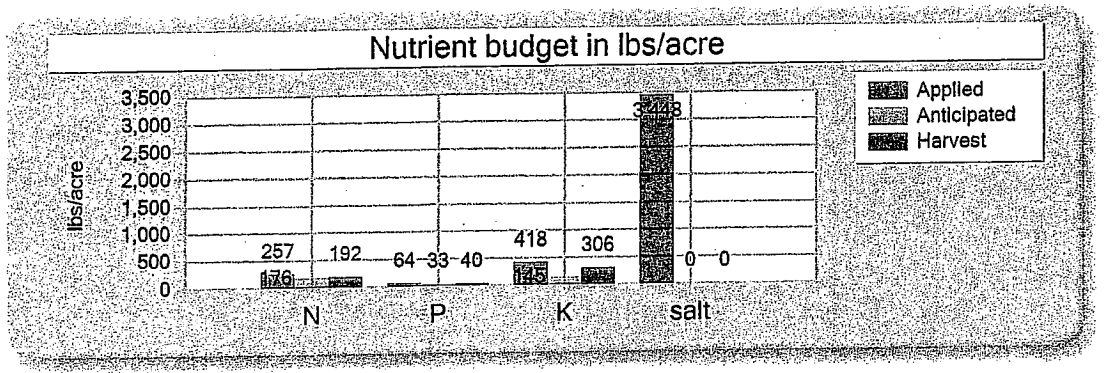
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
3,460,000.00 *gallons*
127.42 *acre-inches*
2.45 *inches/acre*

Total harvests for the crop
1 *harvests*

410 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 410 Crop: Sorghum-Sudangrass, forage Plant date: 06/01/2010



	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	249.58	63.89	418.18	3,447.53
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	256.58	63.89	418.18	3,447.53
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	192.09	40.02	306.43	0.00
Nutrient balance	64.49	23.87	111.76	3,447.53
Applied to removed ratio	1.34	1.60	1.36	0.00

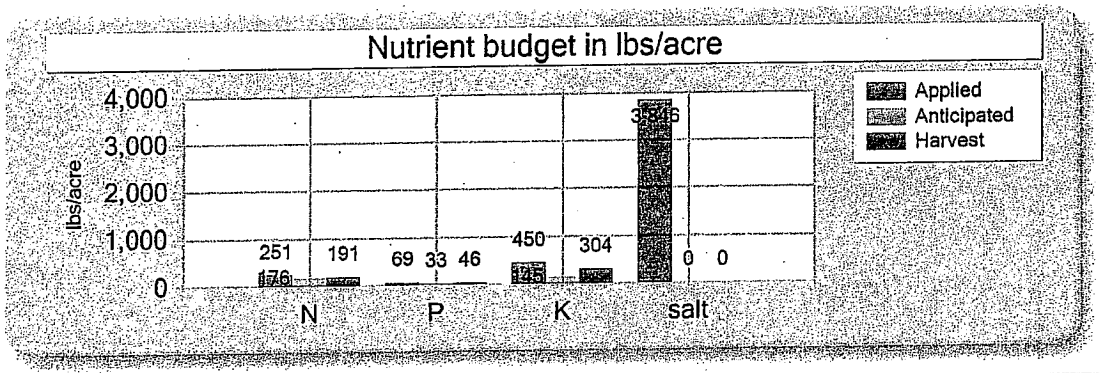
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
6,912,000.00 *gallons*
254.55 *acre-inches*
4.90 *inches/acre*

Total harvests for the crop
1 *harvests*

413B - 05/10/2010: Sorghum-Sudangrass, forage

Field name: 413B | Crop: Sorghum-Sudangrass, forage | Plant date: 05/10/2010



	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	237.21	69.19	450.35	3,845.92
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	251.21	69.19	450.35	3,845.92
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	191.27	45.54	303.60	0.00
Nutrient balance	59.94	23.65	146.74	3,845.92
Applied to removed ratio	1.31	1.52	1.48	0.00

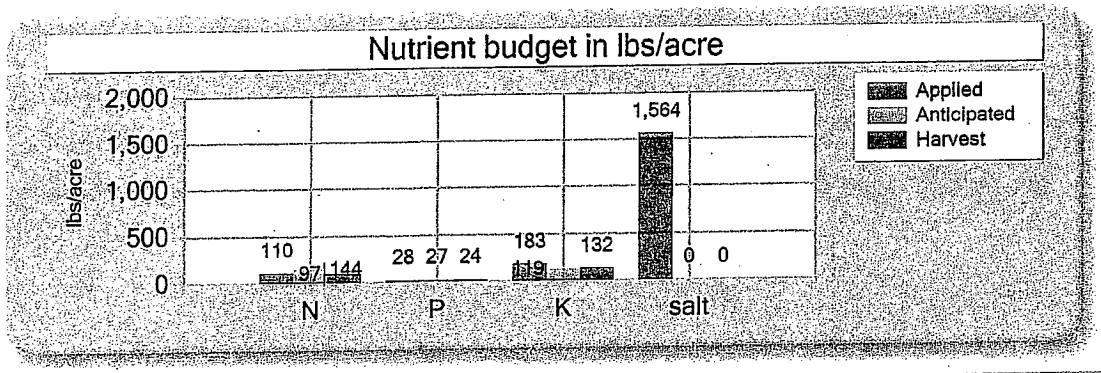
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
5,250,000.00 *gallons*
193.34 *acre-inches*
5.23 *inches/acre*

Total harvests for the crop
1 *harvests*

414 - 06/05/2010: Sorghum-Sudangrass, forage

Field name: 414 Crop: Sorghum-Sudangrass, forage Plant date: 06/05/2010



	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	96.45	28.13	183.11	1,563.72
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	110.45	28.13	183.11	1,563.72
Anticipated crop nutrient removal	144.00	27.00	118.80	0.00
Actual crop nutrient removal	97.18	24.46	132.22	0.00
Nutrient balance	13.26	3.67	50.89	1,563.72
Applied to removed ratio	1.14	1.15	1.38	0.00

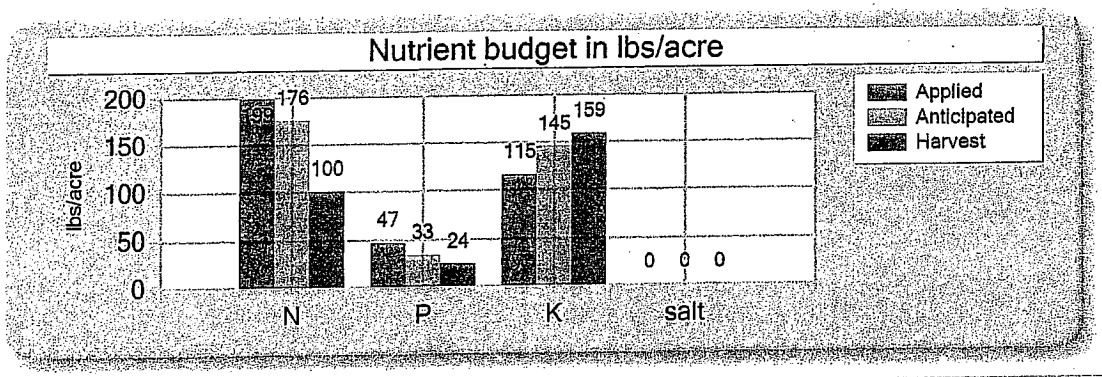
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Process wastewater applied
1,500,000.00 *gallons*
55.24 *acre-inches*
2.12 *inches/acre*

Total harvests for the crop
1 *harvests*

415 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 415 Crop: Sorghum-Sudangrass, forage Plant date: 06/01/2010



	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	184.75	46.68	115.22	0.00
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	198.75	46.68	115.22	0.00
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	100.07	23.83	158.85	0.00
Nutrient balance	98.68	22.86	-43.63	0.00
Applied to removed ratio	1.99	1.96	0.73	0.00

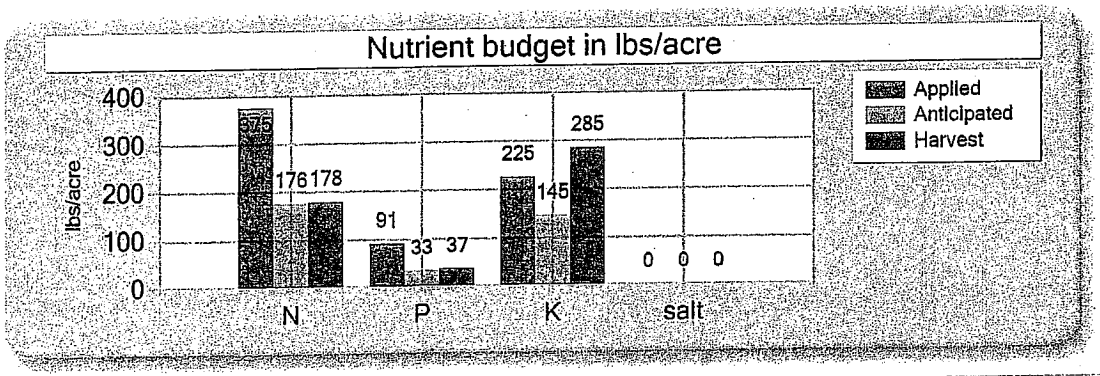
Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

418 - 06/01/2010: Sorghum-Sudangrass, forage

Field name: 418 Crop: Sorghum-Sudangrass, forage Plant date: 06/01/2010



	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	360.84	91.18	225.04	0.00
Process wastewater	0.00	0.00	0.00	0.00
Irrigation water	0.00	0.00	0.00	0.00
Plant tissue	0.00	0.00	0.00	0.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	374.84	91.18	225.04	0.00
Anticipated crop nutrient removal	176.00	33.00	145.20	0.00
Actual crop nutrient removal	178.42	37.17	284.62	0.00
Nutrient balance	196.42	54.01	-59.58	0.00
Applied to removed ratio	2.10	2.45	0.79	0.00

Fresh water applied
0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

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

Total harvests for the crop
1 *harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Dry Manure

Sample and source description: Dry Manure

Sample date: 05/05/2010 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: 12.90 *lbs/cu ft* Moisture: 22.4 %

	Total N (%)	Total P (%)	K (%)	Calcium (%)	Magnesium (%)	Sodium (%)	Bicarbonate (%)	Carbonate (%)	Sulfate (%)	Chloride (%)	Total salt (%)
Value	1.860000	0.470000	1.160000	1.750000	0.750000	0.330000	0.400000	0.400000	0.110000	0.110000	0.000000
DL	0.010000	0.010000	0.010000	0.130000	0.030000	0.040000	0.000000	0.000000	0.000000	0.000000	0.010000

2nd Manure

Sample and source description: 2nd Manure

Sample date: 10/05/2010 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: 27.90 *lbs/cu ft* Moisture: 5.7 %

	Total N (%)	Total P (%)	K (%)	Calcium (%)	Magnesium (%)	Sodium (%)	Bicarbonate (%)	Carbonate (%)	Sulfate (%)	Chloride (%)	Total salt (%)
Value	1.230000	0.440000	1.610000								0.000000
DL	0.010000	0.010000	0.010000								0.010000

B. PROCESS WASTEWATER ANALYSES

Liquid Manure

Sample and source description: Liquid Manure

Sample date: 02/02/2010 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	346.00	259.00	14.40	67.50	524.00	163.50	116.20	254.80	2,830.40	2,836.80	142.00	282.00	6,750.00
DL	76.00	2.60	0.01	0.62	4.30	2.81	0.79	4.83	6.10	3.00	2.88	0.71	1.00

Liquid Manure

Sample and source description: Liquid Manure

Sample date: 05/05/2010 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	151.00	75.00	1.00	60.10	387.00	138.30	101.80	210.70	2,318.00	2,361.60	141.00	190.00	5,880.00
DL	76.00	2.60	0.01	0.62	4.30	2.81	0.79	4.83	6.10	3.00	2.88	0.71	1.00

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 07/28/2010 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	225.00	188.00	0.00	57.60	377.00								5,180.00
DL	76.00	2.60	0.01	0.62	4.30								1.00

4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 10/28/2010 Material type: Process wastewater Source of analysis: Lab analysis

	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	K (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)
Value	451.00	214.00	0.70	70.60	399.00								5,500.00
DL	76.00	2.60	0.01	0.62	4.30								1.00

C. IRRIGATION WATER ANALYSES

415-E

415-E

Sample description: 415-E

Sample date: 10/25/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.23	563.00
DL	0.22	1.00

417N

417N

417N

Sample description: 417N

Sample date: 10/28/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	1,190.00
DL	0.22	1.00

417-S

417S

Sample description: 417S

Sample date: 10/28/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	1,074.00
DL	0.22	1.00

418-N

418-N

418-N

Sample description: 418-N

Sample date: 04/01/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	651.00
DL	0.22	1.00

418S

418S

Sample description: 418S

Sample date: 04/01/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.43	508.00
DL	0.22	1.00

Back Dairy

Back Dairy

Back Dairy

Sample description: Back Dairy

Sample date: 10/28/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	6.10	781.00
DL	0.22	1.00

Big Dairy

Big Dairy

Sample description: Big Dairy

Sample date: 10/19/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	465.00
DL	0.22	1.00

Canal

Canal

Canal

Sample description: Canal

Sample date: 07/06/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	38.00
DL	0.22	1.00

Dom-Barn

Dom-Barn

Sample description: Dom-Barn

Sample date: 10/19/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.92	568.00
DL	0.22	1.00

Dom-M

Dom-M

Dom-M

Sample description: Dom-M

Sample date: 10/19/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	1.00	572.00
DL	0.22	1.00

Dom-Milkers

Dom-Milkers

Sample description: Dom-Milkers

Sample date: 10/19/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	749.00
DL	0.22	1.00

Dom-Oscar

Dom-Oscar

Dom-Oscar

Sample description: Dom-Oscar

Sample date: 10/19/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	577.00
DL	0.22	1.00

Mikes Irr

Mikes Irr

Sample description: Mikes Irr

Sample date: 10/19/2010 Source of analysis: Lab analysis

	Total N (mg/L)	EC (µmhos/cm)
Value	0.00	601.00
DL	0.22	1.00

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

408 - 11/01/2009: Oats, hay

408 - 11/01/2009: Oats, hay

408

Sample and source description: 408

Sample date: 05/05/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 36.1 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	1.000000	0.270000	1.200000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

408 - 06/01/2010: Sorghum-Sudangrass, forage

408

Sample and source description: 408

Sample date: 10/05/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 69.2 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	2.680000	0.350000	1.680000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

409A - 11/01/2009: Oats, hay

409A - 11/01/2009: Oats, hay

409A

Sample and source description: 409A

Sample date: 05/05/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 18.7 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	1.900000	0.360000	2.070000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

409A - 06/01/2010: Sorghum-Sudangrass, forage

409

Sample and source description: 409

Sample date: 10/08/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 67.9 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	2.080000	0.310000	1.290000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

410 - 11/01/2009: Oats, hay

410 - 11/01/2009: Oats, hay

410

Sample and source description: 410

Sample date: 05/05/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 36.1 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	1.820000	0.280000	1.620000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

410 - 06/01/2010: Sorghum-Sudangrass, forage

410

Sample and source description: 410

Sample date: 10/05/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 69.2 %

	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	2.680000	0.350000	1.680000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

415 - 06/01/2010: Sorghum-Sudangrass, forage

415 - 06/01/2010: Sorghum-Sudangrass, forage

415

Sample and source description: 415

Sample date: 10/21/2010 Source of analysis: Lab analysis Method of reporting: Dry-weight

Density: _____ *lbs/cu ft* Moisture: 67.2 %

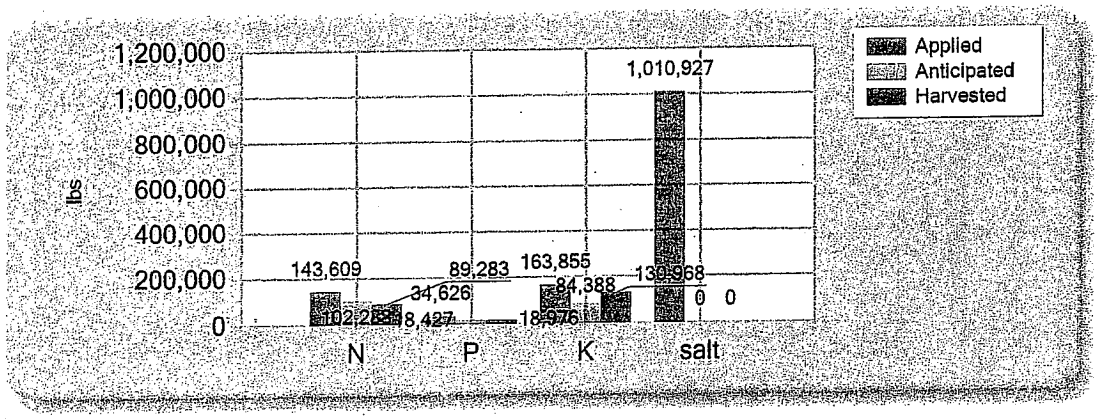
	Total N (%)	Total P (%)	K (%)	Total salt (%)
Value	. 2.000000	0.300000	1.260000	0.000000
DL	0.010000	0.010000	0.010000	0.010000

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

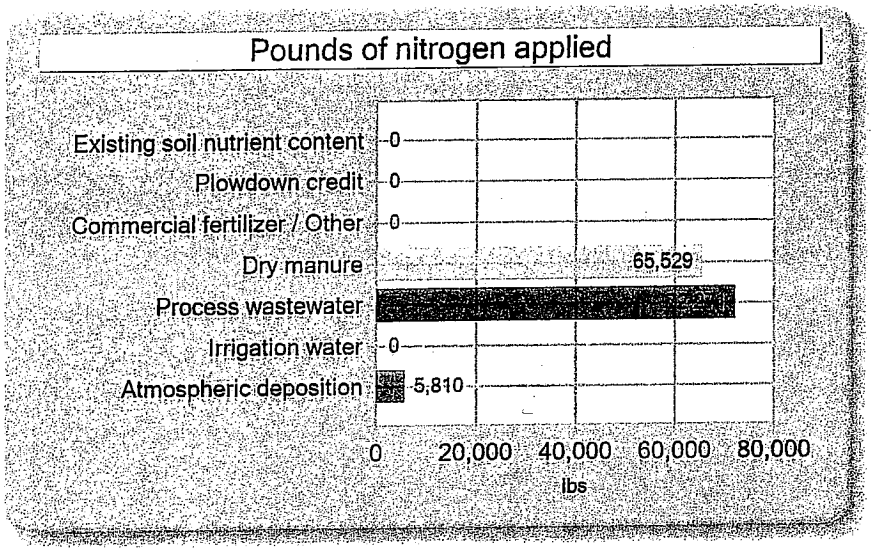
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

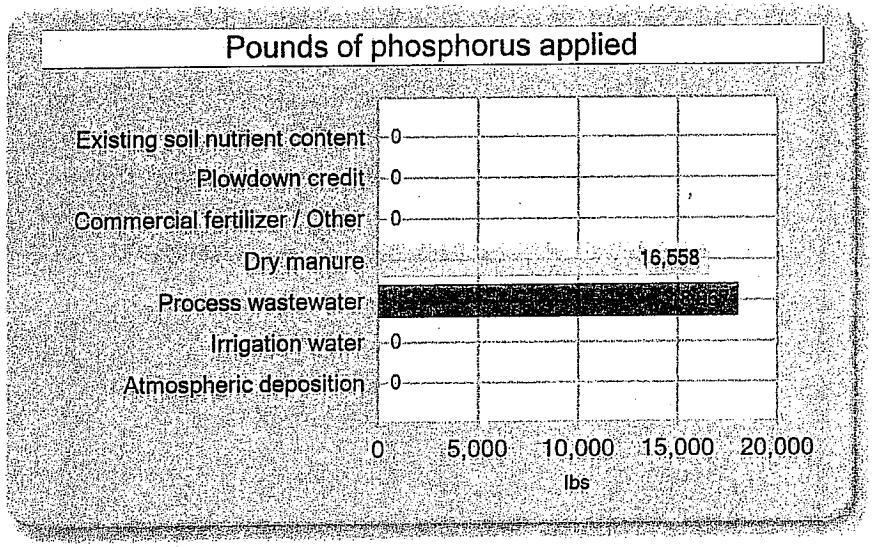
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	65,528.54	16,558.29	40,867.26	0.00
Process wastewater	72,270.79	18,067.35	122,988.23	1,010,926.62
Irrigation water	0.00	0.00	0.00	0.00
Atmospheric deposition	5,810.00	0.00	0.00	0.00
Total nutrients applied	143,609.33	34,625.64	163,855.49	1,010,926.62
Anticipated crop nutrient removal	102,288.00	18,427.00	84,387.60	0.00
Actual crop nutrient removal	89,283.12	18,975.95	130,968.40	0.00
Nutrient balance	54,326.21	15,649.69	32,887.09	1,010,926.62
Applied to removed ratio	1.61	1.82	1.25	0.00

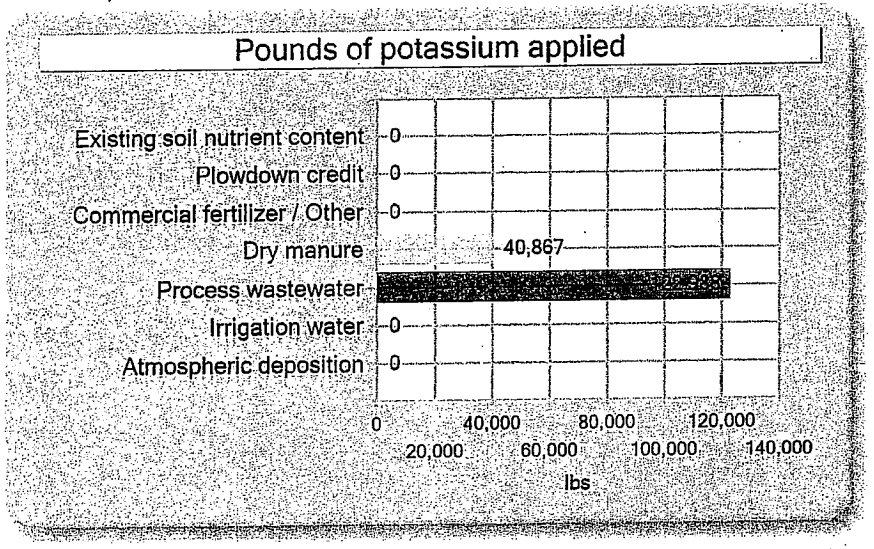
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

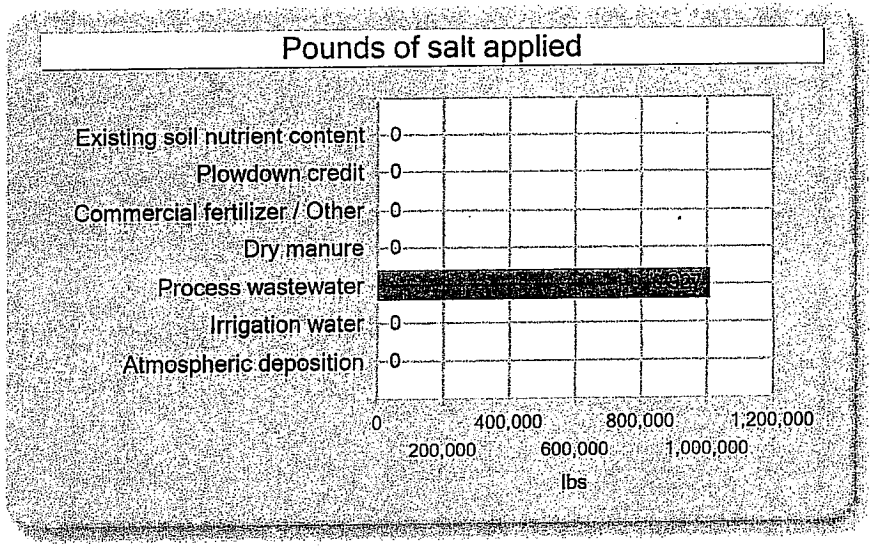


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









EXCEPTION REPORTING

A. MANURE AND PROCESS WASTEWATER 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 STATEMENT

A. NUTRIENT MANAGEMENT PLAN STATEMENT

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

ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

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.

[redacted]
SIGNATURE OF OWNER OF FACILITY

[redacted]
SIGNATURE OF OPERATOR OF FACILITY

[redacted]
PRINT OR TYPE NAME

[redacted]
PRINT OR TYPE NAME

[redacted]
DATE

[redacted]
DATE