

Nutrient Management Plan Report
General Order No. R5-2007-0035, Attachment C
July 1, 2009 deadline

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY: Trinkler Dairy Farms Inc.

Physical address of dairy:

<u>7251 Crowslanding RD</u>	<u>Ceres</u>	<u>Stanislaus</u>	<u>95307</u>
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 01/01/1930

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0022-0007-0013-0000

B. OPERATOR NAME: Trinkler, Wendel Jr. Telephone no.: (209) 537-9883

Landline Cellular

<u>P.O. Box 10</u>	<u>Ceres</u>	<u>CA</u>	<u>95307</u>
Mailing Address Number and Street	City	State	Zip Code

Operator should receive Regional Board correspondence (check): Yes No

C. LEGAL OWNER NAME: Trinkler, Wendel Jr. Telephone no.: (209) 537-9883

Landline Cellular

<u>P.O. Box 10</u>	<u>Ceres</u>	<u>CA</u>	<u>95307</u>
Mailing Address Number and Street	City	State	Zip Code

Owner should receive Regional Board correspondence (check): Yes No

D. CONTACT NAME: Ramos, Joe Telephone no.: (209) 250-2471 (209) 226-2375

Landline Cellular

Title: Technical Service Provider

<u>2857 Geer RD</u>	<u>Turlock</u>	<u>CA</u>	<u>95382</u>
Mailing Address Number and Street	City	State	Zip Code

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

The milk cow dairy is currently regulated under individual Waste Discharge Requirements.

Total number of milk and dry cows combined as a baseline value in response to the Report of Waste Discharge (ROWD) request of October, 2005:

3,780 milk and dry cows combined (regulatory review is required for any expansion)

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Helpers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Present count	3,180	600	275	0	520	600
Maximum count	3,180	600	275	0	520	600
Avg live weight (lbs)	1,400	1,400	900	0		
Daily hours on flush	22	22	6	0	6	24

Predominant milk cow breed: Holstein

Average milk production: 72 pounds per cow per day

B. IRRIGATION SOURCES

Irrigation Source Name	Type	Nitrogen (mg/L)	Phosphorus (mg/L)	Potassium (mg/L)	Discharge Rate
Ag Well 1	Groundwater (well)	24.60			2,500 gpm
Ag Well 2	Groundwater (well)	24.20			3,000 gpm
Ag Well 3	Groundwater (well)	46.30			1,500 gpm
Ag Well 4	Groundwater (well)	39.50			2,000 gpm
Ag Well 5	Groundwater (well)	34.10			2,500 gpm
TID Canal	Surface water (canal, river)	0.50			15 cfs

C. NUTRIENT IMPORTS

Nutrient Type/Name	Quantity	Moisture	Nitrogen	Phosphorus (as P2O5)	Potassium (as K2O)
UN 32	72.00 ton	0.1%	32.000%	0.000%	0.000%
Starter 4-10-10	82.00 ton	0.1%	4.000%	10.000%	10.000%

Total nitrogen imported: 52,587.36 lbs

Total phosphorus imported: 7,159.63 lbs

Total potassium imported: 13,598.39 lbs

D. NUTRIENT EXPORTS

Nutrient Type/Name	Quantity	Moisture	Nitrogen	Phosphorus (as P2O5)	Potassium (as K2O)
Separated Solids Fall	9,000.00 ton	60.0%	2.000%	0.300%	1.000%

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Nutrient Type/Name	Quantity	Moisture	Nitrogen	Phosphorus (as P2O5)	Potassium (as K2O)
Separated Solids Spring	9,000.00 ton	60.0%	1.500%	0.300%	1.000%
Corral Solids	9,900.00 ton	30.0%	1.500%	0.660%	1.500%

Total nitrogen exported: 459,900.00 lbs

Total phosphorus exported: 58,853.41 lbs

Total potassium exported: 292,077.00 lbs

E. STORAGE PERIOD

Storage period is the maximum period of time anticipated between land application of process wastewater (from storage ponds/lagoons) to croplands. A qualified agronomist and civil engineer should collaborate and collectively consider predominant soil types, soil infiltration rates, maximum depth, available water, field capacity, permanent wilting point, allowable depletion, crop water use, evapotranspiration, precipitation, irrigation system capacity, water delivery constraints, crop nutrient requirements, soil nutrient adsorption/desorption, rooting depth, nutrient accumulation/availability for current and future crop needs, facility wide process wastewater storage capacity and other factors as deemed necessary across all croplands where process wastewater is applied in selecting a storage period. In many cases conflicts will arise between crop water demands, crop nutrient demands and insufficient process wastewater storage capacity. Process wastewater may not be the best choice as a source of either water and/or nutrients to meet crop demands throughout the year. Groundwater and surface water vulnerability has been considered.

The storage period selected in this Nutrient Management Plan is consistent with the storage period selected in the Waste Management Plan.

Storage period: 120 days

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APPLICATION AREA

A. ASSESSOR PARCEL NUMBER: 0017-0062-0006-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0002-0011-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0002-0012-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0002-0013-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0002-0014-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0002-0015-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0007-0004-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0007-0013-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0010-0006-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0010-0007-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0024-0012-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0022-0024-0013-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0041-0044-0005-0000

Legal owner of parcel: Moore, Ronald

Telephone no.: (209) 000-0000

6125 Crows landing RD
 Mailing Address Number and Street

Ceres
 City

CA
 Landline
 State

95307
 Cellular
 Zip Code

ASSESSOR PARCEL NUMBER: 0041-0044-0006-0000

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ASSESSOR PARCEL NUMBER (CONTINUED): 0041-0044-0006-0000

Legal owner of parcel: <u>Moore, Ronald</u>	Telephone no.: <u>(209) 000-0000</u>		
	<u>Landline</u> <u>Cellular</u>		
<u>6125 Crows landing RD</u>	<u>Ceres</u>	<u>CA</u>	<u>95307</u>
Mailing Address Number and Street	City	State	Zip Code

ASSESSOR PARCEL NUMBER: 0041-0045-0008-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0041-0045-0009-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0022-0007-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0022-0038-0000

Legal owner of parcel: Owned by Dairy

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B. FIELD NAME: Berry

Cropable acres: 20

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	20
Corn, silage	Late May	Early October	20

FIELD NAME: Bonzi 1 and 2

Cropable acres: 72

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	72
Corn, silage	Late May	Early October	72

FIELD NAME: Briggs

Cropable acres: 49

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	49
Corn, silage	Late May	Early October	49

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FIELD NAME: Carpenter

Cropable acres: 31

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? [] Yes [X] No

Can fresh water for irrigation purposes be delivered to the field year round? [X] Yes [] No

Can process wastewater be delivered to the field at agronomic rates and times? [] Yes [X] No

Tailwater management method: Sprinklers

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	31

FIELD NAME: Church

Cropable acres: 17

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? [] Yes [X] No

Can fresh water for irrigation purposes be delivered to the field year round? [X] Yes [] No

Can process wastewater be delivered to the field at agronomic rates and times? [] Yes [X] No

Tailwater management method: Sprinklers

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	17

FIELD NAME: Clark

Cropable acres: 77

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? [] Yes [X] No

Can fresh water for irrigation purposes be delivered to the field year round? [X] Yes [] No

Can process wastewater be delivered to the field at agronomic rates and times? [] Yes [X] No

Tailwater management method: Sprinkler

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	77

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FIELD NAME: Inderbitzen

Cropable acres: 37

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? [] Yes [X] No

Can fresh water for irrigation purposes be delivered to the field year round? [X] Yes [] No

Can process wastewater be delivered to the field at agronomic rates and times? [X] Yes [] No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	37
Corn, silage	Late May	Early October	37

FIELD NAME: JR's Home

Cropable acres: 15

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? [] Yes [X] No

Can fresh water for irrigation purposes be delivered to the field year round? [X] Yes [] No

Can process wastewater be delivered to the field at agronomic rates and times? [X] Yes [] No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	15

FIELD NAME: Marchant

Cropable acres: 40

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? [] Yes [X] No

Can fresh water for irrigation purposes be delivered to the field year round? [X] Yes [] No

Can process wastewater be delivered to the field at agronomic rates and times? [] Yes [X] No

Tailwater management method: Sprinklers

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	40

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FIELD NAME: Moores

Cropable acres: 148

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Bermed

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	148
Corn, silage	Late May	Early October	148

FIELD NAME: Nelson 1 and 2

Cropable acres: 29

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	29
Corn, silage	Late May	Early October	29

FIELD NAME: Perrys

Cropable acres: 5

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Sprinklers

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	5

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FIELD NAME: T&R Jones 1

Cropable acres: 80

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	80
Corn, silage	Late May	Early October	80

FIELD NAME: T&R Jones 2

Cropable acres: 75

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to top of field

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	75
Corn, silage	Late May	Early October	75

FIELD NAME: TD 5-6

Cropable acres: 137

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Sprinkler

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Almond, in shell	Middle January	Early October	137

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FIELD NAME: TD-1-4

Cropable acres: 150

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? Yes No

Can fresh water for irrigation purposes be delivered to the field year round? Yes No

Can process wastewater be delivered to the field at agronomic rates and times? Yes No

Tailwater management method: Returned to retention pond

Crops grown and rotation:

Crop Type	Plant Date	Harvest Date	Acres Planted
Wheat, silage, soft dough	Late October	Middle April	150
Corn, silage	Late May	Early October	150

C. LAND APPLICATION AREA FIELDS AND PARCELS

Field name	Cropable acres	Total harvests	Parcel number
Berry	20	2	0022-0007-00040000
Bonzi 1 and 2	72	2	0022-0010-00060000 0022-0010-00070000
Briggs	49	2	0022-0024-00130000
Carpenter	31	1	0022-0002-00140000
Church	17	1	0022-0002-00110000
Clark	77	1	0017-0062-00060000
Inderbitzen	37	2	0041-0044-00060000
JR's Home	15	1	0022-0024-00120000
Marchant	40	1	0022-0002-00150000
Moores	148	2	0041-0044-00050000
Nelson 1 and 2	29	2	0041-0045-00080000 0041-0045-00090000
Perrys	5	1	0022-0002-00130000
T&R Jones 1	80	2	0058-0022-00070000
T&R Jones 2	75	2	0058-0022-00380000
TD 5-6	137	1	0022-0002-00120000
TD-1-4	150	2	0022-0007-00130000
Land application area totals	1,083	29	

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NUTRIENT BUDGET

A. NUTRIENT BUDGET FOR CROP: Berry / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.7															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td>8.0</td> </tr> <tr> <td></td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.7	0.0	0.0	8.0		0.7	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.7	0.0	0.0	8.0																
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In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	150.7															
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TID Canal	0.7	0.0	0.0	8.0																
	0.7	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	1.3	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	258.3	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	60.3	14.4	133.6
Applied to removal ratio	1.30	1.47	1.89

Fresh water applied: 0.99 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Berry / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Berry / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.7															
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TID Canal	0.7	0.0	0.0	8.0																
	0.7	0.0	0.0																	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	3.0															
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	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	5.2	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	12.0	30.0	30.0
Dry manure	0.0	0.0	0.0
Liquid manure	330.0	60.0	420.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	354.2	90.0	450.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	98.2	42.0	238.8
Applied to removal ratio	1.38	1.88	2.13

Fresh water applied: 3.84 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Bonzi 1 and 2 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
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NUTRIENT BUDGET FOR CROP (CONTINUED): Bonzi 1 and 2 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.6															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.6</td> <td>0.0</td> <td>0.0</td> <td>24.0</td> </tr> <tr> <td></td> <td>0.6</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.6	0.0	0.0	24.0		0.6	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.6	0.0	0.0	24.0																
	0.6	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	150.6															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.6	0.0	0.0	24.0																
	0.6	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	1.1	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	258.1	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	60.1	14.4	133.6
Applied to removal ratio	1.30	1.47	1.89

Fresh water applied: 0.83 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Bonzi 1 and 2 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Bonzi 1 and 2 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.6															
<table border="1"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td align="center">0.6</td> <td align="center">0.0</td> <td align="center">0.0</td> <td align="center">24.0</td> </tr> <tr> <td></td> <td align="center">0.6</td> <td align="center">0.0</td> <td align="center">0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.6	0.0	0.0	24.0		0.6	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.6	0.0	0.0	24.0																
	0.6	0.0	0.0																	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	2.5															
<table border="1"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td align="center">0.4</td> <td align="center">0.0</td> <td align="center">0.0</td> <td align="center">18.0</td> </tr> <tr> <td></td> <td align="center">0.4</td> <td align="center">0.0</td> <td align="center">0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.4	0.0	0.0	18.0		0.4	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	18.0																
	0.4	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	3	110.0 60%	20.0 80%	140.0 80%	331.3															
<table border="1"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td align="center">0.4</td> <td align="center">0.0</td> <td align="center">0.0</td> <td align="center">18.0</td> </tr> <tr> <td></td> <td align="center">0.4</td> <td align="center">0.0</td> <td align="center">0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.4	0.0	0.0	18.0		0.4	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	18.0																
	0.4	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.4	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	12.0	30.0	30.0
Dry manure	0.0	0.0	0.0
Liquid manure	330.0	60.0	420.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	353.4	90.0	450.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	97.4	42.0	238.8
Applied to removal ratio	1.38	1.88	2.13

Fresh water applied: 3.20 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Briggs / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
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NUTRIENT BUDGET FOR CROP (CONTINUED): Briggs / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.8
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.8	0.0	0.0	24.0	
	0.8	0.0	0.0		
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	169.4
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
Ag Well 4	19.4	0.0	0.0	24.0	
	19.4	0.0	0.0		

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	20.2	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	277.2	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	79.2	14.4	133.6
Applied to removal ratio	1.40	1.47	1.89

Fresh water applied: 0.79 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Briggs / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Briggs / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.6
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.6	0.0	0.0	18.0	
	0.6	0.0	0.0		
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	2.5
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.4	0.0	0.0	12.0	
	0.4	0.0	0.0		
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	3	110.0 60%	20.0 80%	140.0 80%	331.2
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.4	0.0	0.0	12.0	
	0.4	0.0	0.0		

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.3	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	12.0	30.0	30.0
Dry manure	0.0	0.0	0.0
Liquid manure	330.0	60.0	420.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	353.3	90.0	450.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	97.3	42.0	238.8
Applied to removal ratio	1.38	1.88	2.13

Fresh water applied: 3.19 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Carpenter / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
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NUTRIENT BUDGET FOR CROP (CONTINUED): Carpenter / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	120.0 50%	25.0 50%	150.0 50%	120.0
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	8	0.0 0%	0.0 0%	0.0 0%	4.3
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.5	0.0	0.0	10.0
		0.5	0.0	0.0	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	101.1
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.5	0.0	0.0	10.0
		0.5	0.0	0.0	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	5.4	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	120.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	239.4	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	44.4	-5.0	1.5
Applied to removal ratio	1.23	0.83	1.01

Fresh water applied: 4.00 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Church / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	120.0 50%	25.0 50%	150.0 50%	120.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Church / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	3.6															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.6	0.0	0.0	6.0																
	0.6	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	101.2															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.6	0.0	0.0	6.0																
	0.6	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.8	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	120.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	238.8	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	43.8	-5.0	1.5
Applied to removal ratio	1.22	0.83	1.01

Fresh water applied: 3.50 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Clark / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	125.0 50%	25.0 50%	150.0 50%	125.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Clark / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	8	0.0 0%	0.0 0%	0.0 0%	4.2															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	24.0																
	0.5	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	101.1															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	24.0																
	0.5	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	5.3	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	125.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	244.3	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	49.3	-5.0	1.5
Applied to removal ratio	1.25	0.83	1.01

Fresh water applied: 3.86 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Inderbitzen / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.7															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td>16.0</td> </tr> <tr> <td></td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.7	0.0	0.0	16.0		0.7	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.7	0.0	0.0	16.0																
	0.7	0.0	0.0																	

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NUTRIENT BUDGET FOR CROP (CONTINUED): Inderbitzen / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	169.6															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
Ag Well 2	19.6	0.0	0.0	20.0																
	19.6	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	20.4	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	277.4	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	79.4	14.4	133.6
Applied to removal ratio	1.40	1.47	1.89

Fresh water applied: 0.83 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Inderbitzen / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.7															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.7	0.0	0.0	16.0																
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NUTRIENT BUDGET FOR CROP (CONTINUED): Inderbitzen / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	2.7
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.5	0.0	0.0	10.0	
	0.5	0.0	0.0		
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	3	110.0 60%	20.0 80%	140.0 80%	331.4
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.5	0.0	0.0	10.0	
	0.5	0.0	0.0		

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.8	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	342.0	90.0	450.0
Dry manure	0.0	0.0	0.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	353.8	90.0	450.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	97.8	42.0	238.8
Applied to removal ratio	1.38	1.88	2.13

Fresh water applied: 3.55 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: JR's Home / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	120.0 50%	25.0 50%	150.0 50%	120.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): JR's Home / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	8	0.0 0%	0.0 0%	0.0 0%	3.6															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	4.0																
	0.4	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	100.9															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	4.0																
	0.4	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.5	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	120.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	238.5	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	43.5	-5.0	1.5
Applied to removal ratio	1.22	0.83	1.01

Fresh water applied: 3.31 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Marchant / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	120.0 50%	25.0 50%	150.0 50%	120.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Marchant / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	8	0.0 0%	0.0 0%	0.0 0%	3.4															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	10.0																
	0.4	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	100.8															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	10.0																
	0.4	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.2	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	120.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	238.2	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	43.2	-5.0	1.5
Applied to removal ratio	1.22	0.83	1.01

Fresh water applied: 3.10 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Moores / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.5															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	48.0																
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NUTRIENT BUDGET FOR CROP (CONTINUED): Moores / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	170.6															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
Ag Well 2	20.6	0.0	0.0	84.0																
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	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	21.2	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	278.2	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	80.2	14.4	133.6
Applied to removal ratio	1.40	1.47	1.89

Fresh water applied: 0.72 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Moores / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.5															
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NUTRIENT BUDGET FOR CROP (CONTINUED): Moores / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	2.5															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	36.0																
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In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	3	110.0 60%	20.0 80%	140.0 80%	331.2															
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	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.2	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	342.0	90.0	450.0
Dry manure	0.0	0.0	0.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	353.2	90.0	450.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	97.2	42.0	238.8
Applied to removal ratio	1.38	1.88	2.13

Fresh water applied: 3.12 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Nelson 1 and 2 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.7															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td>12.0</td> </tr> <tr> <td></td> <td>0.7</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.7	0.0	0.0	12.0		0.7	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.7	0.0	0.0	12.0																
	0.7	0.0	0.0																	

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NUTRIENT BUDGET FOR CROP (CONTINUED): Nelson 1 and 2 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	170.1															
<table border="1"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>Ag Well 2</td> <td align="center">20.1</td> <td align="center">0.0</td> <td align="center">0.0</td> <td align="center">16.0</td> </tr> <tr> <td></td> <td align="center">20.1</td> <td align="center">0.0</td> <td align="center">0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	Ag Well 2	20.1	0.0	0.0	16.0		20.1	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
Ag Well 2	20.1	0.0	0.0	16.0																
	20.1	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	20.8	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	277.8	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	79.8	14.4	133.6
Applied to removal ratio	1.40	1.47	1.89

Fresh water applied: 0.82 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Nelson 1 and 2 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.7															
<table border="1"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td align="center">0.7</td> <td align="center">0.0</td> <td align="center">0.0</td> <td align="center">12.0</td> </tr> <tr> <td></td> <td align="center">0.7</td> <td align="center">0.0</td> <td align="center">0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.7	0.0	0.0	12.0		0.7	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.7	0.0	0.0	12.0																
	0.7	0.0	0.0																	

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NUTRIENT BUDGET FOR CROP (CONTINUED): Nelson 1 and 2 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	2.8
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.5	0.0	0.0	8.0	
	0.5	0.0	0.0		
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	1	32.0 100%	0.0 100%	0.0 100%	32.0
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	3	100.0 60%	15.0 80%	125.0 80%	301.4
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.5	0.0	0.0	8.0	
	0.5	0.0	0.0		

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.9	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	344.0	75.0	405.0
Dry manure	0.0	0.0	0.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	355.9	75.0	405.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	99.9	27.0	193.8
Applied to removal ratio	1.39	1.56	1.92

Fresh water applied: 3.59 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: Perrys / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	120.0 50%	25.0 50%	150.0 50%	120.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): Perrys / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	8	0.0 0%	0.0 0%	0.0 0%	4.0															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>1.5</td> </tr> <tr> <td></td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.5	0.0	0.0	1.5		0.5	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	1.5																
	0.5	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	101.0															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	1.5																
	0.5	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	5.1	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	120.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	239.1	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	44.1	-5.0	1.5
Applied to removal ratio	1.23	0.83	1.01

Fresh water applied: 3.72 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: T&R Jones 1 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	240.0 50%	50.0 50%	300.0 50%	240.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): T&R Jones 1 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.5															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>24.0</td> </tr> <tr> <td></td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.5	0.0	0.0	24.0		0.5	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	24.0																
	0.5	0.0	0.0																	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.5															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>24.0</td> </tr> <tr> <td></td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.5	0.0	0.0	24.0		0.5	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	24.0																
	0.5	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	1.0	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	240.0	50.0	300.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	248.0	50.0	300.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	50.0	19.4	150.6
Applied to removal ratio	1.25	1.63	2.01

Fresh water applied: 0.74 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: T&R Jones 1 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	240.0 50%	50.0 50%	300.0 50%	240.0
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): T&R Jones 1 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.8															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.8</td> <td>0.0</td> <td>0.0</td> <td>36.0</td> </tr> <tr> <td></td> <td>0.8</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.8	0.0	0.0	36.0		0.8	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.8	0.0	0.0	36.0																
	0.8	0.0	0.0																	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	5	0.0 0%	0.0 0%	0.0 0%	2.5															
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Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	24.0																
	0.5	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	3	30.0 100%	0.0 100%	0.0 100%	91.5															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>24.0</td> </tr> <tr> <td></td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.5	0.0	0.0	24.0		0.5	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	24.0																
	0.5	0.0	0.0																	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.8	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	102.0	30.0	30.0
Dry manure	240.0	50.0	300.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	353.8	80.0	330.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	97.8	32.0	118.8
Applied to removal ratio	1.38	1.67	1.56

Fresh water applied: 3.53 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: T&R Jones 2 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
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NUTRIENT BUDGET FOR CROP (CONTINUED): T&R Jones 2 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	240.0 50%	50.0 50%	300.0 50%	240.0
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.5
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.5	0.0	0.0	24.0
		0.5	0.0	0.0	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.5
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.5	0.0	0.0	24.0
		0.5	0.0	0.0	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	1.1	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	240.0	50.0	300.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	248.1	50.0	300.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	50.1	19.4	150.6
Applied to removal ratio	1.25	1.63	2.01

Fresh water applied: 0.79 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: T&R Jones 2 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	240.0 50%	50.0 50%	300.0 50%	240.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): T&R Jones 2 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.8
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.8	0.0	0.0	36.0
		0.8	0.0	0.0	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	5	0.0 0%	0.0 0%	0.0 0%	2.7
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.5	0.0	0.0	24.0
		0.5	0.0	0.0	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	3	30.0 100%	0.0 100%	0.0 100%	91.6
<i>Irrigation Source</i>		<i>N (lbs/acre)</i>	<i>P (lbs/acre)</i>	<i>K (lbs/acre)</i>	<i>Runtime (hrs)</i>
TID Canal		0.5	0.0	0.0	24.0
		0.5	0.0	0.0	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	5.1	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	102.0	30.0	30.0
Dry manure	240.0	50.0	300.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	354.1	80.0	330.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	98.1	32.0	118.8
Applied to removal ratio	1.38	1.67	1.56

Fresh water applied: 3.77 feet Total harvests: 1

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NUTRIENT BUDGET FOR CROP: TD 5-6 / Almond, in shell

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Dry manure <i>Nutrient source:</i> From dairy <i>Application method:</i> Broadcast/incorporate	1	125.0 50%	25.0 50%	150.0 50%	125.0
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	8	0.0 0%	0.0 0%	0.0 0%	3.5
Irrigation Source		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)
TID Canal		0.4	0.0	0.0	36.0
		0.4	0.0	0.0	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	2	50.0 100%	0.0 100%	0.0 100%	100.9
Irrigation Source		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)
TID Canal		0.4	0.0	0.0	36.0
		0.4	0.0	0.0	

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.4	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	100.0	0.0	0.0
Dry manure	125.0	25.0	150.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	14.0		
Nutrients applied	243.4	25.0	150.0
Potential crop nutrient removal	195.0	30.0	148.5
Nutrient balance	48.4	-5.0	1.5
Applied to removal ratio	1.25	0.83	1.01

Fresh water applied: 3.26 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: TD-1-4 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
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NUTRIENT BUDGET FOR CROP (CONTINUED): TD-1-4 / Wheat, silage, soft dough

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to planting (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	100.0 60%	20.0 80%	133.0 80%	100.7
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
TID Canal	0.7	0.0	0.0	60.0	
	0.7	0.0	0.0		
In season irrigation (with fertilizer) <i>Nutrient source:</i> Retention pond (lagoon) <i>Application method:</i> Pipeline	1	150.0 60%	25.0 80%	150.0 80%	169.5
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
Ag Well 3	19.5	0.0	0.0	84.0	
	19.5	0.0	0.0		

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	20.1	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	250.0	45.0	283.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	277.1	45.0	283.0
Potential crop nutrient removal	198.0	30.6	149.4
Nutrient balance	79.1	14.4	133.6
Applied to removal ratio	1.40	1.47	1.89

Fresh water applied: 0.65 feet Total harvests: 1

NUTRIENT BUDGET FOR CROP: TD-1-4 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Starter fertilizer at planting <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Sidedress	1	12.0 100%	30.0 100%	30.0 100%	12.0

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NUTRIENT BUDGET FOR CROP (CONTINUED): TD-1-4 / Corn, silage

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)															
Pre-irrigation prior to planting (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	1	0.0 0%	0.0 0%	0.0 0%	0.5															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td>48.0</td> </tr> <tr> <td></td> <td>0.5</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.5	0.0	0.0	48.0		0.5	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.5	0.0	0.0	48.0																
	0.5	0.0	0.0																	
In season irrigation (no fertilizer) <i>Nutrient source:</i> Water only <i>Application method:</i> Surface	6	0.0 0%	0.0 0%	0.0 0%	2.4															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.4</td> <td>0.0</td> <td>0.0</td> <td>36.0</td> </tr> <tr> <td></td> <td>0.4</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.4	0.0	0.0	36.0		0.4	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	36.0																
	0.4	0.0	0.0																	
In season irrigation (with fertilizer) <i>Nutrient source:</i> Commercial fertilizer <i>Application method:</i> Pipeline	3	110.0 60%	20.0 80%	140.0 80%	331.2															
<table border="1" style="width: 100%;"> <thead> <tr> <th>Irrigation Source</th> <th>N (lbs/acre)</th> <th>P (lbs/acre)</th> <th>K (lbs/acre)</th> <th>Runtime (hrs)</th> </tr> </thead> <tbody> <tr> <td>TID Canal</td> <td>0.4</td> <td>0.0</td> <td>0.0</td> <td>36.0</td> </tr> <tr> <td></td> <td>0.4</td> <td>0.0</td> <td>0.0</td> <td></td> </tr> </tbody> </table>						Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	TID Canal	0.4	0.0	0.0	36.0		0.4	0.0	0.0	
Irrigation Source	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)																
TID Canal	0.4	0.0	0.0	36.0																
	0.4	0.0	0.0																	

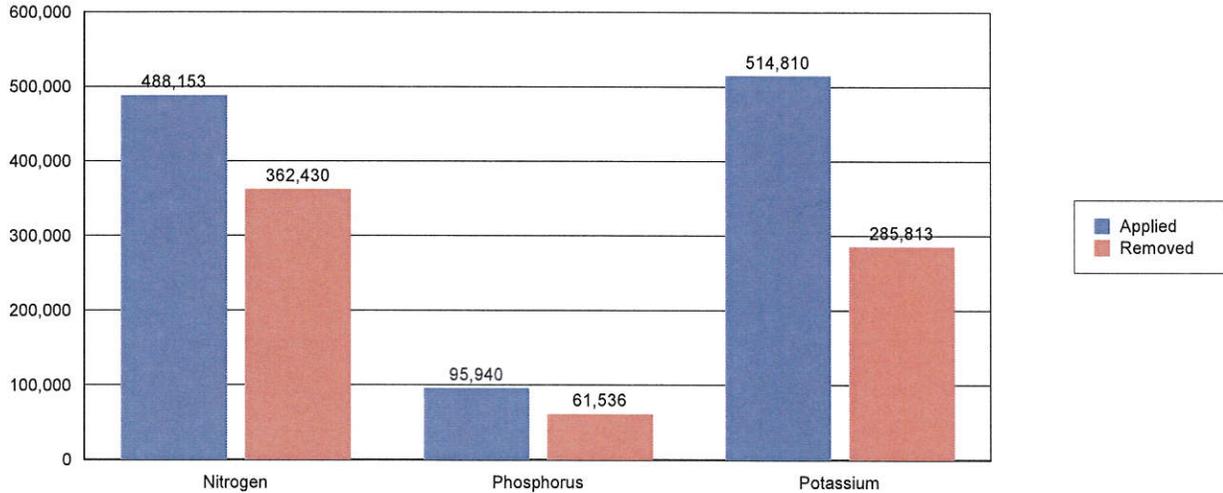
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	4.2	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	342.0	90.0	450.0
Dry manure	0.0	0.0	0.0
Liquid manure	0.0	0.0	0.0
Other	0.0	0.0	0.0
Atmospheric deposition	7.0		
Nutrients applied	353.2	90.0	450.0
Potential crop nutrient removal	256.0	48.0	211.2
Nutrient balance	97.2	42.0	238.8
Applied to removal ratio	1.38	1.88	2.13

Fresh water applied: 3.07 feet Total harvests: 1

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NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

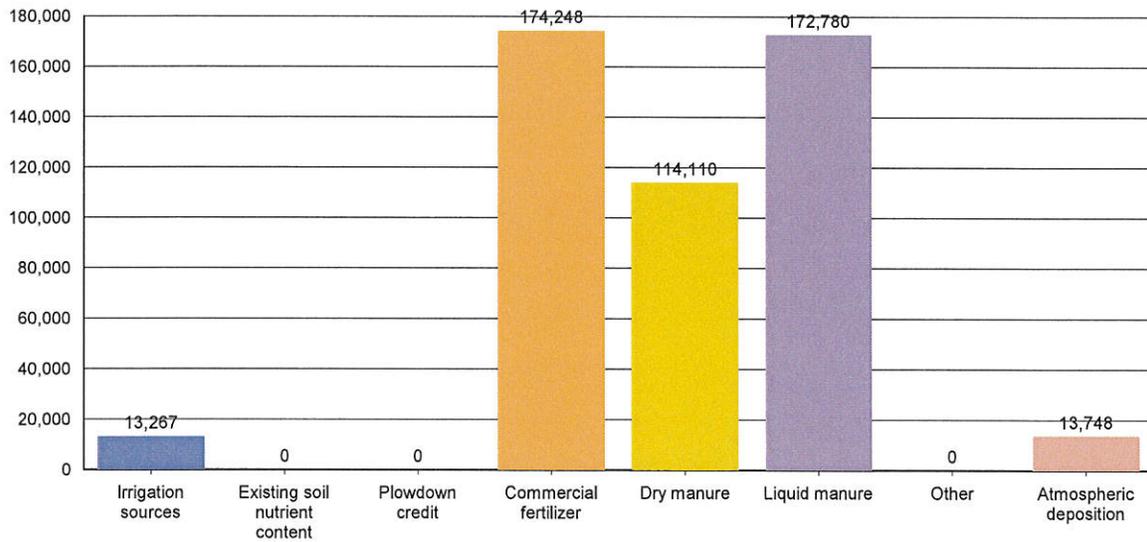
A. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL POTENTIAL



	Total N (lbs)	Total P (lbs)	Total K (lbs)
Irrigation sources	13,266.9	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	174,248.0	41,205.0	171,375.0
Dry manure	114,110.0	23,550.0	141,300.0
Liquid manure	172,780.0	31,185.0	202,135.0
Other	0.0	0.0	0.0
Atmospheric deposition	13,748.0		
Nutrients applied to all crops	488,152.9	95,940.0	514,810.0
Potential crop nutrient removal	362,430.0	61,536.0	285,813.0
Nutrient balance	125,722.9	34,404.0	228,997.0
Applied to removal ratio	1.35	1.56	1.80

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B. POUNDS OF NITROGEN APPLIED BY NUTRIENT SOURCE



	Total N (lbs)	Total P (lbs)	Total K (lbs)
Irrigation sources	13,266.9	0.0	0.0
Existing soil nutrient content	0.0	0.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	174,248.0	41,205.0	171,375.0
Dry manure	114,110.0	23,550.0	141,300.0
Liquid manure	172,780.0	31,185.0	202,135.0
Other	0.0	0.0	0.0
Atmospheric deposition	13,748.0		
Nutrients applied to all crops	488,152.9	95,940.0	514,810.0
Potential crop nutrient removal	362,430.0	61,536.0	285,813.0
Nutrient balance	125,722.9	34,404.0	228,997.0
Applied to removal ratio	1.35	1.56	1.80

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NUTRIENT BALANCE

A. WHOLE FARM BALANCE

	Total N (lbs)	Total P (lbs)	Total K (lbs)
Nutrients in storage from herd*			
Daily gross	3,477.0	562.4	1,679.9
Annual gross	1,269,097.4	205,265.6	613,177.9
Net to pond storage after ammonia losses (30% loss applied)	791,546.9	184,143.8	562,079.7
Net to drylot storage after ammonia losses (30% loss applied)	96,821.3	21,121.8	51,098.2
Net in storage (30% loss applied)	888,368.2	205,265.6	613,177.9
Irrigation sources	13,266.9	0.0	0.0
Atmospheric deposition	13,748.0		
Imports	52,587.4	7,159.6	13,598.4
Exports	459,900.0	58,853.4	292,077.0
Potential crop nutrient removal	362,430.0	61,536.0	285,813.0
Nutrient balance	145,640.4	92,035.8	48,886.2
Nutrient balance ratio	1.40	2.50	1.17

* Potassium excretion from milk cows and dry cows only.

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SAMPLING AND ANALYSIS PLAN

A. MANURE SAMPLING AND ANALYSIS PLAN

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Annually	<p>Annual estimation for total manure dry weight applied to each field will be quantified using the following:</p> <p>Dry weight applied from a source to a crop per application event = weight applied * (1 - (percent moisture / 100))</p> <p>Dry weight applied to crop per application event = sum of dry weights applied from each source</p> <p>Dry weight applied to a crop = sum of dry weights applied during each application</p> <p>Dry weight applied to a field = sum of dry weights applied to each crop</p> <p>Annual estimation for total manure dry weight exported will be quantified using the following:</p> <p>Dry weight exported from a source per event = weight exported * (1 - (percent moisture / 100))</p> <p>Dry weight exported per event = sum of dry weights exported from each source</p> <p>Dry weight exported to any offsite destination = sum of dry weights exported per event</p>	<p>Corral solids</p> <p>Separated solids</p>	<p>Total dry weight (tons) manure applied annually to each land application area, and total dry weight (tons) manure exported offsite annually</p>	<p>None required</p>

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A. MANURE SAMPLING AND ANALYSIS PLAN (CONTINUED)

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Twice per year	For each manure source, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	Corral solids Separated solids	None required	Total nitrogen, total phosphorus, total potassium, and percent moisture
Once every two years (biennially)	For each manure source, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	Corral solids Separated solids	None required	General minerals, including: calcium, magnesium, sodium, sulfate, chloride Fixed solids (ash)
Each application to each land application area	For each applied manure source, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected. For each applied manure source, a scaled weight by truckload will be recorded.	Corral solids Separated solids	Date applied and total weight (tons) applied	Percent moisture

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A. MANURE SAMPLING AND ANALYSIS PLAN (CONTINUED)

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Each offsite export of manure	<p>For each manure source exported, a composite sample "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.</p> <p>For each manure source exported, a scaled weight by truckload will be recorded.</p>	<p>Corral solids</p> <p>Separated solids</p>	Date exported and total weight (tons) exported	Percent moisture

B. PROCESS WASTEWATER SAMPLING AND ANALYSIS PLAN

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Annually	A composite or grab sample prior to blending with irrigation water per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	<p>WWS 1</p> <p>WWS 2</p>	None required	pH, total dissolved solids, electrical conductivity, nitrate-nitrogen, ammonium-nitrogen, total Kjeldahl nitrogen, total phosphorus, and total potassium
Once every two years (biennially)	For each pond, a composite or grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	<p>WWS 1</p> <p>WWS 2</p>	None required	General minerals, including: calcium, magnesium, sodium, bicarbonate, carbonate, sulfate, and chloride

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B. PROCESS WASTEWATER SAMPLING AND ANALYSIS PLAN (CONTINUED)

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Each application	For each pond, a composite or grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	WWS 1 WWS 2	Date applied and volume (gallons or acre-inches) applied	None required
Quarterly during one application event	For field measurement: For each pond, a composite or grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected. For laboratory analyses: For each pond, a composite or grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	WWS 1 WWS 2	Date applied and electrical conductivity	Nitrate-nitrogen (only when pond is aerated), un-ionized ammonia-nitrogen, total Kjeldahl nitrogen, total phosphorus, total potassium, and total dissolved solids

C. SOIL SAMPLING AND ANALYSIS PLAN

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes

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C. SOIL SAMPLING AND ANALYSIS PLAN (CONTINUED)

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Once every five years for each land application area (may be distributed over a 5-year period by sampling 20% of the land application areas annually)	For each field, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	TD 1-4 - 150 acres Inderbitzen - 37 acres Nelson 1&2 - 29 acres Berry - 20 acres Briggs - 49 acres Bonzi 1&2 - 72 acres Jr.'s Home - 15 acres Moores - 148 acres T&R Jones 1 - 80 acres T&R Jones 2 - 75 acres TD 5&6 - 137 acres Clarks - 77 acres Carpenter - 31 acres Perry - 5 acres Church - 17 acres Marchant - 40 acres	None required	Soluble phosphorus
Spring pre-plant for each crop	For each field, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	TD 1-4 - 150 acres Inderbitzen - 37 acres Nelson 1&2 - 29 acres Berry - 20 acres Briggs - 49 acres Bonzi 1&2 - 72 acres Moores - 148 acres T&R Jones 1 - 80 acres T&R Jones 2 - 75 acres	None required	0 to 1 foot: Nitrate-nitrogen and organic matter 1 to 2 foot: Nitrate-nitrogen

D. PLANT TISSUE SAMPLING AND ANALYSIS PLAN

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes

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D. PLANT TISSUE SAMPLING AND ANALYSIS PLAN (CONTINUED)

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Each crop harvest from each land application area	For each field and crop, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected. For each field and crop, a scaled weight by truckload will be recorded.	TD 1-4 - Wheat/Corn Inderbitzen - Wheat/Corn Nelson 1&2 - Wheat/Corn Berry - Wheat/Corn Briggs - Wheat/Corn Bonzi 1&2 - Wheat/Corn Jr.'s Home - Almonds Moores - Wheat/Corn/Alfalfa T&R Jones 1 - Wheat/Corn T&R Jones 2 - Wheat/Corn TD 5&6 - Almonds Clarks - Almonds Carpenter - Almonds Perry - Almonds Church - Almonds Marchant - Almonds	Date harvested and total weight (tons) of harvested material removed from each land application area	Percent wet weight of harvested plant removed Laboratory analyses for total nitrogen, total phosphorus, total potassium (expressed on a dry weight basis), fixed solids (ash), and percent moisture

E. IRRIGATION WATER SAMPLING AND ANALYSIS PLAN

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Each fresh water irrigation event for each land application area	Ag Well 1 - flow rate multiplied by runtime Ag Well 1 - flow rate multiplied by runtime Ag Well 2 - flow rate multiplied by runtime Ag Well 3 - flow rate multiplied by runtime Ag Well 4 - flow rate multiplied by runtime Ag Well 5 - flow rate multiplied by runtime TID Canal - flow rate multiplied by runtime	Ag Well 1 Ag Well 2 Ag Well 3 Ag Well 4 Ag Well 5 TID canal	Date applied and volume (gallons or acre-inches) applied	None required

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E. IRRIGATION WATER SAMPLING AND ANALYSIS PLAN (CONTINUED)

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
One irrigation event during each irrigation season during actual irrigation events – for each irrigation water source (well and canal)	For each irrigation source, a grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected. In lieu of sampling the irrigation water, the Discharger may provide equivalent data from the local irrigation district.	Ag Well 1 Ag Well 2 Ag Well 3 Ag Well 4 Ag Well 5 TID canal	None required	Electrical conductivity, total dissolved solids, and total nitrogen

F. GROUNDWATER MONITORING SAMPLING AND ANALYSIS PLAN

Frequency	Sampling Methods	Source	Minimum data collection requirements	
			Field Analytes	Lab Analytes
Every five years (may be distributed over a 5-year period by sampling 20% of the wells annually)	For each domestic and agricultural supply well, a grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	All domestic and agricultural irrigation wells	None required	General minerals, including: calcium, magnesium, sodium, bicarbonate, carbonate, sulfate, chloride Total dissolved solids
Annually	For each domestic and agricultural supply well, a grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	All domestic and agricultural irrigation wells	Electrical conductivity and ammonium-nitrogen	Nitrate-nitrogen. If field measurement indicates the presence of ammonium-nitrogen, the Discharger shall collect a sample for laboratory analysis of ammonium-nitrogen.

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NUTRIENT MANAGEMENT PLAN REVIEW

A. NUTRIENT MANAGEMENT PLAN REVIEW

Person who created the NMP:	<u>Ramos, Joe</u>	<i>See above for contact information.</i>
Date the NMP was drafted:	<u>01/01/2015</u>	
Person who approved the final NMP:	<u>Ramos, Joe</u>	<i>See above for contact information.</i>
Date of NMP implementation:	<u>01/01/2015</u>	

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ATTACHED MAP AND DOCUMENTATION REFERENCES

The following list, based upon user selections and data entries, describes the minimum required attachments that must be submitted with the Nutrient Management Plan for the reporting schedule of 'July 1, 2009'.

A. PRELIMINARY DAIRY FACILITY ASSESSMENT

The NMP will include the initial Preliminary Dairy Facility Assessment (Attachment A) and the annual updates as required by Monitoring and Reporting Program No. R5-2007-0035. Copies of these assessments shall be maintained for 10 years.

B. LAND AREA MAP(S)

Identify each land application area (under the Discharger's control, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient recycling) on a single published base map

1. A field identification system (Assessor's Parcel Number; land application area; crops grown); indication if each land application is owned, rented, or leased by the Discharger; indication of what type of waste is applied (solid manure only, wastewater only, or both solid manure and wastewater); drainage flow direction in each field, nearby surface waters, and storm water discharge points; tailwater and storm water drainage controls; subsurface (tile) drainage systems (including discharge points and lateral extent); irrigation supply wells and groundwater monitoring wells; sampling locations for discharges of storm water and tailwater to surface water from the field.
2. Process wastewater conveyance structures, discharge points and discharge mixing points with irrigation water supplies; pumping facilities; flow meter locations; drainage ditches and canals, culverts, draining controls (berms, levees, etc.), and drainage easements.

Application area map reference number: Figures 4-6

Identify each field under control of the Discharger and within five miles of the dairy where neither process wastewater nor manure is applied. Each field shall be identified on a single published base map at an appropriate scale by the following:

1. Assessor's Parcel Number.
2. Total acreage.
3. Information on who owns or leases the field

Non-application area map reference number: None

Setbacks, Buffers, and Other Alternatives to Protect Surface Water (see Technical Standard VII):

1. Identify all potential surface waters or conduits to surface water that are within 100 feet of any land application area.
2. For each land application area that is within 100 feet of a surface water or a conduit to surface water, identify the setback, vegetated buffer, or other alternative practice that will be implemented to protect surface water (Technical Standard VII).

Setbacks and buffers map reference number: Figures 4-6

C. PROCESS WASTEWATER WRITTEN AGREEMENTS

Provide copies of written agreements with third parties that receive process wastewater for their own use from the Discharger's dairy (Technical Standards V.A.1 and V.A.3).

Nutrient Management Plan Report
General Order No. R5-2007-0035, Attachment C
July 1, 2009 deadline

SAMPLING AND ANALYSIS PLAN CERTIFICATION

A. DAIRY FACILITY INFORMATION

Name of dairy or business operating the dairy: Trinkler Dairy Farms Inc.

Physical address of dairy:

<u>7251 Crowslanding RD</u>	<u>Ceres</u>	<u>Stanislaus</u>	<u>95307</u>
Physical Address Number and Street	City	County	Zip Code

Street and nearest cross street (if no address): _____

B. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVELOPMENT

I certify that I meet the requirements as a certified specialist in developing nutrient management plans as described in Attachment C of Waste Discharge Requirements General Order No. R5-2007-0035 and that I prepared the Sampling and Analysis plan.

Technical Service Provider _____

TITLE/QUALIFICATIONS OF CERTIFIED NUTRIENT MANAGEMENT SPECIALIST _____

SIGNATURE OF TRAINED PROFESSIONAL _____

2/11/15
DATE

Joe Ramos

PRINT OR TYPE NAME

2857 Geer RD; Turlock, CA 95382

MAILING ADDRESS

(209) 250-2471

PHONE NUMBER

C. 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 _____

Wendel Trinkler, Jr.

PRINT OR TYPE NAME

PRINT OR TYPE NAME _____

2/16/15
DATE

DATE _____

Nutrient Management Plan Report
General Order No. R5-2007-0035, Attachment C
July 1, 2009 deadline

NUTRIENT BUDGET CERTIFICATION

A. DAIRY FACILITY INFORMATION

Name of dairy or business operating the dairy: Trinkler Dairy Farms Inc.

Physical address of dairy:

7251 Crowslanding RD
Number and Street

Ceres
City

Stanislaus
County

95307
Zip Code

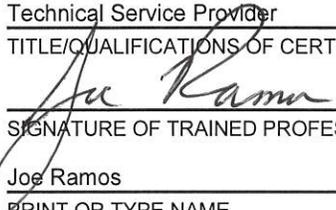
Street and nearest cross street (if no address): _____

B. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVELOPMENT

I certify that I meet the requirements as a certified specialist in developing nutrient management plans as described in Attachment C of Waste Discharge Requirements General Order No. R5-2007-0035 and that I prepared the Nutrient Budget plan.

Technical Service Provider

TITLE/QUALIFICATIONS OF CERTIFIED NUTRIENT MANAGEMENT SPECIALIST


SIGNATURE OF TRAINED PROFESSIONAL

2/14/15
DATE

Joe Ramos

PRINT OR TYPE NAME

2857 Geer RD; Turlock, CA 95382

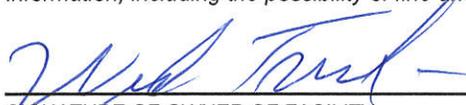
MAILING ADDRESS

(209) 250-2471

PHONE NUMBER

C. 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

Wendel Trinkler, Jr.

PRINT OR TYPE NAME

PRINT OR TYPE NAME

2/16/15
DATE

DATE

Nutrient Management Plan Report
General Order No. R5-2007-0035, Attachment C
July 1, 2009 deadline

B. STATEMENT OF COMPLETION DUE 1 JULY 2008

I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 1 July 2008:

- Item I.A.1 Land Application Information**
Identification of land used for manure application and needed information on a facility map.
- Item I.B Land Application Information**
Information list for information provided on map above.
- Item I.C Land Application Information**
Copies of written third-party process wastewater agreements.
- Item I.D Land Application Information**
Identification of fields under control of the discharger within five miles of the dairy where neither process wastewater nor manure is applied.
- Item II Sampling and Analysis Plan**
- Item IV Setbacks, Buffers, and Other Alternatives to Protect Surface Water**
Identification of all potential surface waters or conduits to surface waters within 100 feet of land application areas and appropriate protection.
- Item VI Record-Keeping Requirements**
Identification of monitoring records that will be maintained as required in the production and land application areas.

Has Item II (Sampling and Analysis Plan) of the Nutrient Management Plan been certified by a Certified Nutrient Management Specialist as required in the General Order?

- Yes No

C. STATEMENT OF COMPLETION DUE 31 DECEMBER 2008

I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 31 December 2008:

- Item V Field Risk Assessment**
Evaluation of the effectiveness of management practices used to control the discharge of waste constituents from land application areas by assessing the water quality monitoring results of discharges of manure, process wastewater, tailwater, subsurface (tile) drainage, or storm water from the land application areas.

D. STATEMENT OF COMPLETION DUE 1 JULY 2009

I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 1 July 2009:

- Item I.A.2 Land Application Area Information**
Identification of process wastewater conveyance, mixing and drainage information for each land application area on a facility map.
- Item III Nutrient Budget**
Established planned rates of nutrient applications by crop based on nutrient monitoring results for each land application area.

Has Item III (Nutrient Budget) of the Nutrient Management Plan been certified by a Certified Nutrient Management Specialist as required in the General Order?

- Yes No

Nutrient Management Plan Report
General Order No. R5-2007-0035, Attachment C
July 1, 2009 deadline

E. CERTIFICATION STATEMENT

I certify under penalty of law that I have completed the items of the Nutrient Management Plan that are checked in Parts B, C and/or D above for the dairy identified in Part A above and that the appropriate certified nutrient management specialist has certified the items requiring such certification as noted in part B and/or D above and that I have personally examined and am familiar with the information submitted in Parts A, B, C and D of 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

Wendel Trinkler, Jr.

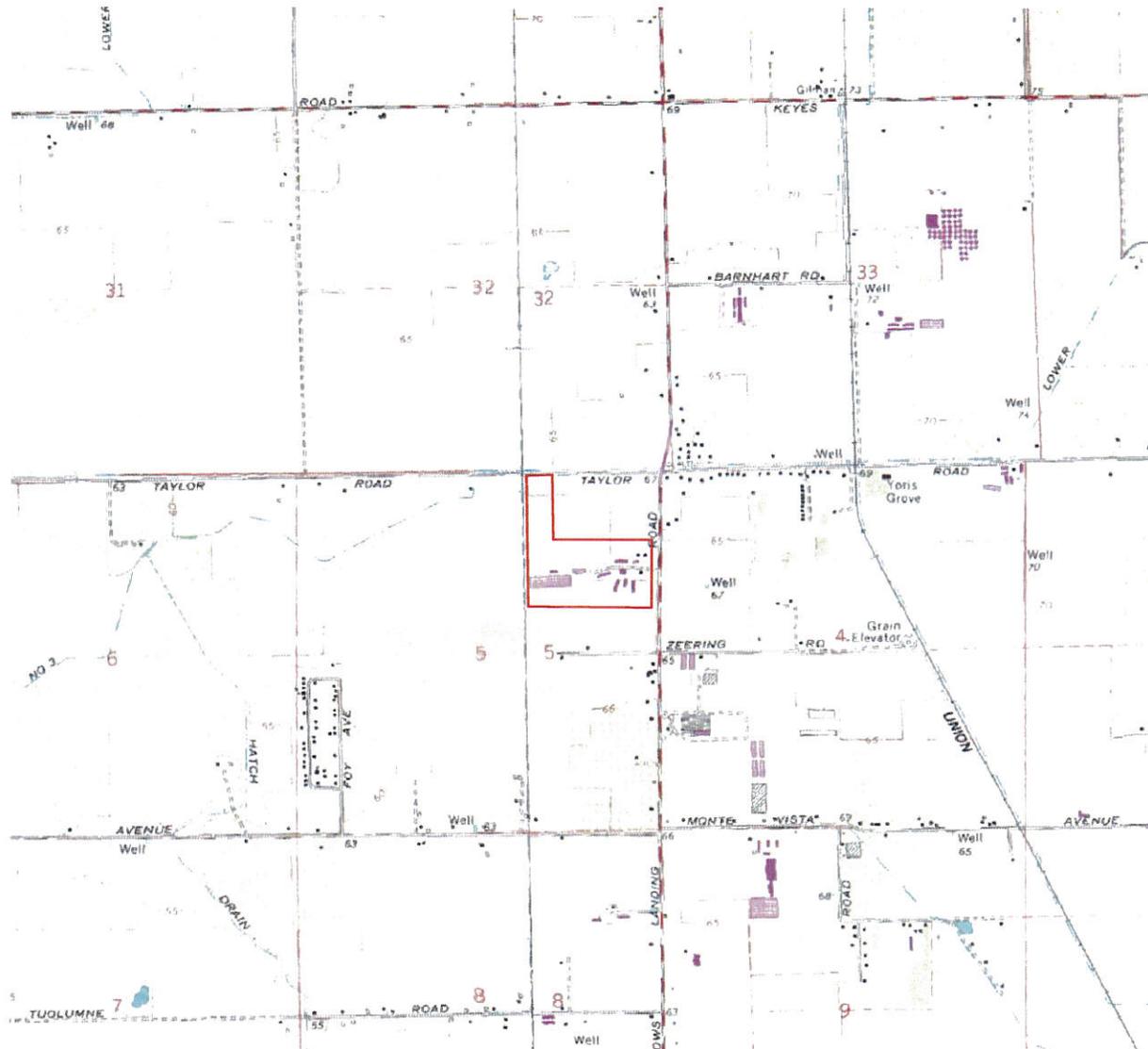
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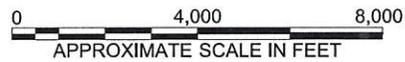


LEGEND

 Facility Boundary



SCALE:



TRINKLER DAIRY
STANISLAUS COUNTY, CA

FIGURE 1
TOPOGRAPHIC MAP

PROJECT NO.

FRA-00

DATE:

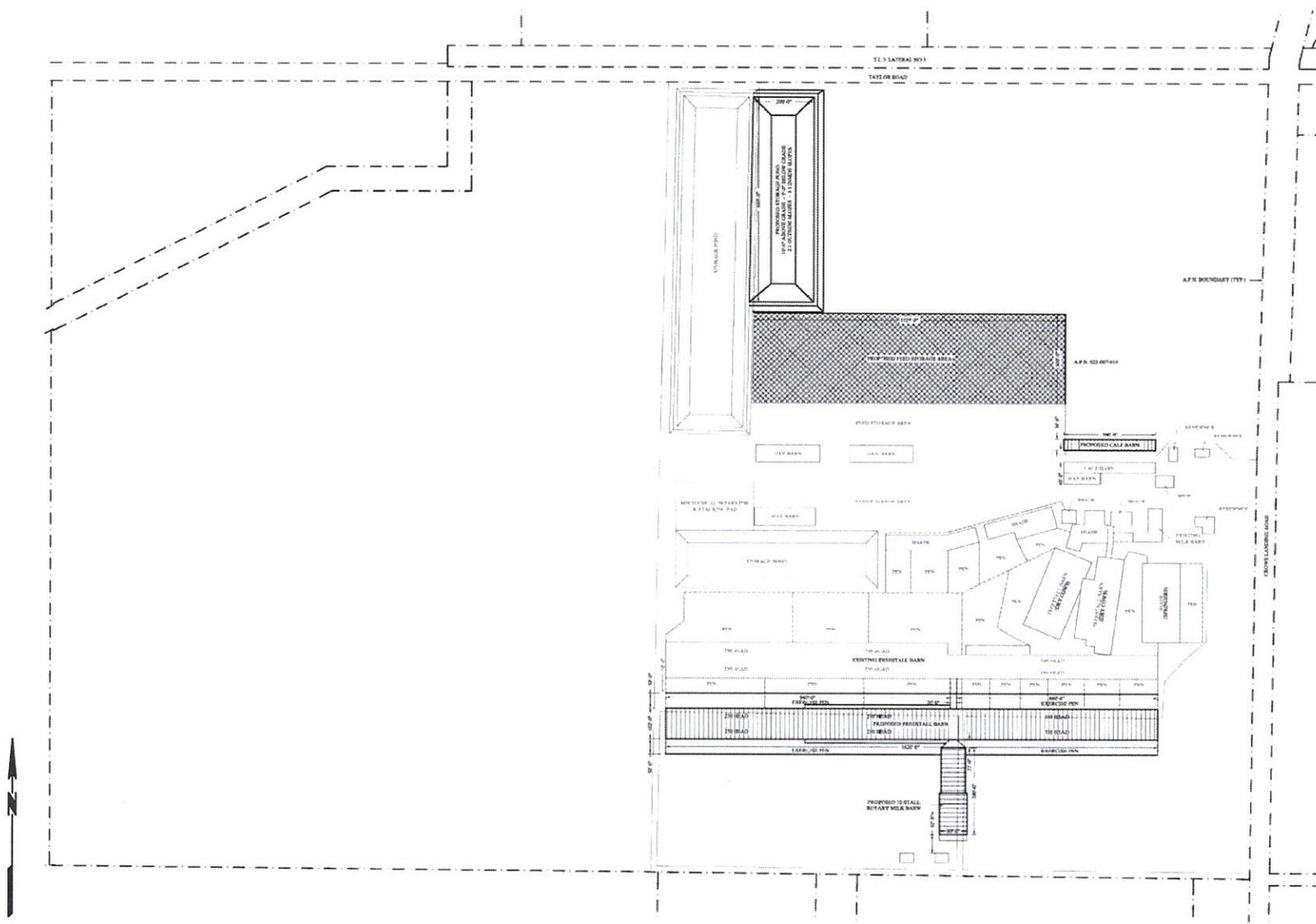
10/17/14

DRAWN BY:

SB

APP. BY:

JR



SCALE:
 0 500 1,000
 APPROXIMATE SCALE IN FEET

PROJECT NO. FRA-00

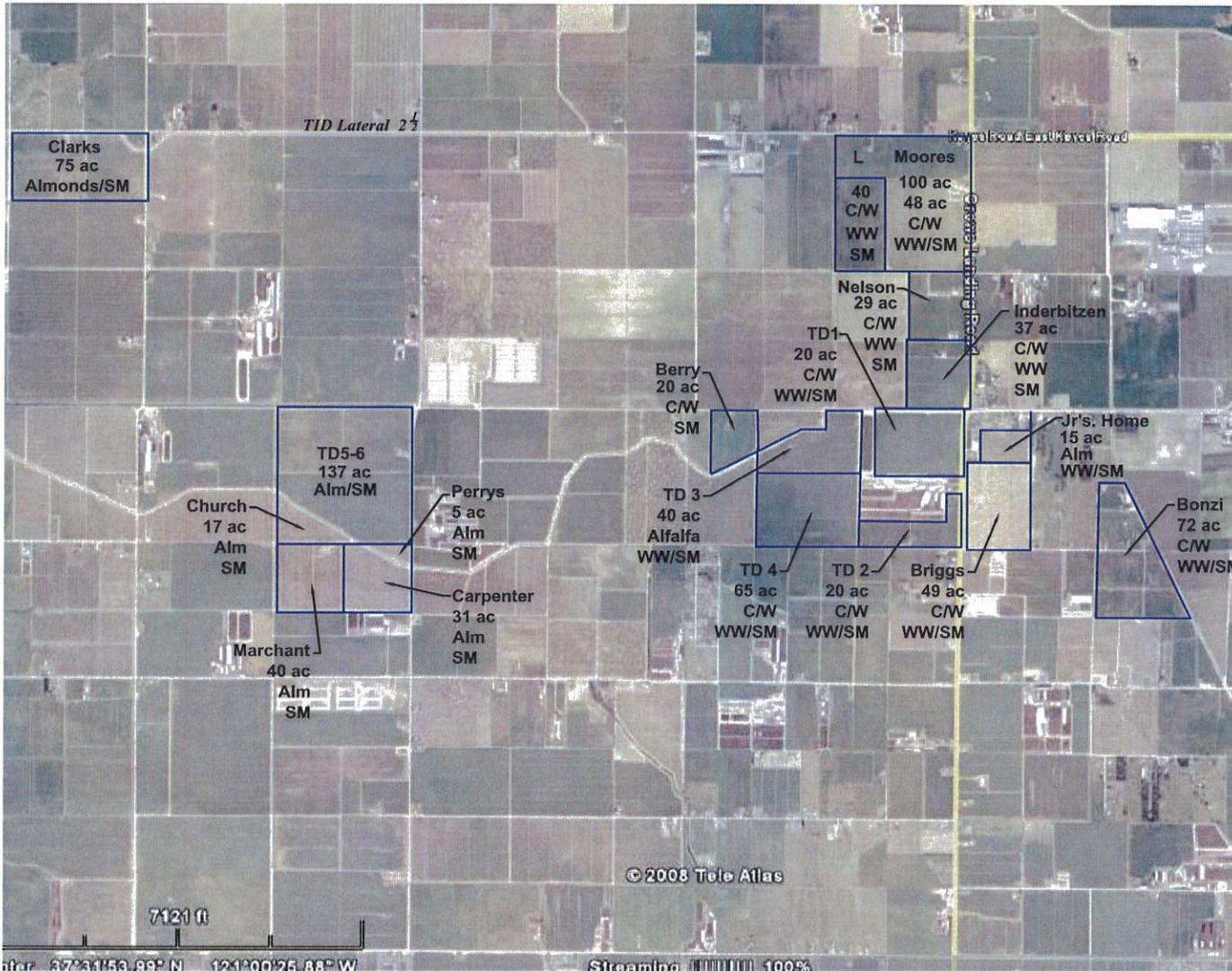
TRINKLER DAIRY
 STANISLAUS COUNTY, CA

DATE: 1/26/15

DRAWN BY: SB

APP. BY: JR

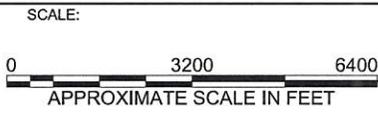
FIGURE 2
CUP SITE PLAN



Owned-lagoon water	APN	Acres
TD 1-4	0022-0007-0013-0000	171
Inderbitzen	0041-0044-0006-0000	37
Nelson 1	0041-0045-0008-0000	16
Nelson 2	0041-0045-0009-0000	13
Berry	0022-0007-0004-0000	20
Briggs	0022-0024-0013-0000	49
Bonzi 1	0022-0010-0006-0000	24
Bonzi 2	0022-0010-0007-0000	48
Jr.'s Home	0022-0024-0012-0000	15
Total		393
Rented-lagoon water	APN	Acres
Moores Home	0041-0044-0005-0000	148
Total		148
Owned-dry manure	APN	Acres
T&R Jones 1	0058-0022-0007-0000	80
T&R Jones 2	0058-0022-0038-0000	75
TD 5&6 (trees)	0022-0002-0012-0000	137
Clarks (trees)	0017-0062-0006-0000	77
Carp. Trees	0022-0002-0014-0000	31
Perry (trees)	0022-0002-0013-0000	5
Church (trees)	0022-0002-0011-0000	17
Marchant (trees)	0022-0002-0015-0000	40
Total		462
total		1003

LEGEND

 Fields	SM Solid Manure	C Corn	Alm Almonds
	WW Wastewater	W Wheat	L Leased



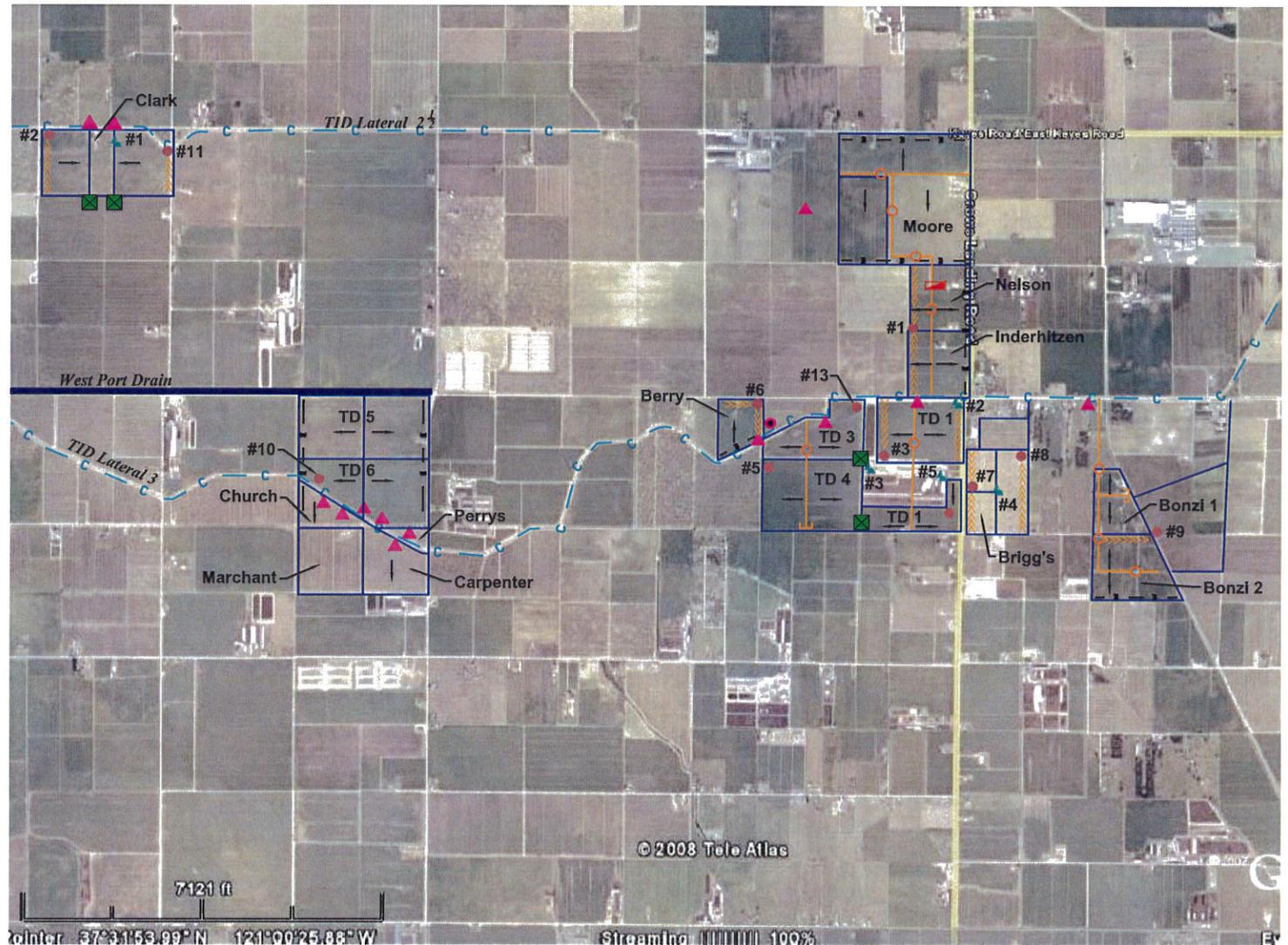
TRINKLER DAIRY
STANISLAUS COUNTY, CA

FIGURE 3
FIELD AND CROPPING MAP

PROJECT NO.	DATE:	DRAWN BY:	APP. BY:
FRA-00	2/9/15	SB	JR

LEGEND

-  Fields
-  Irrigation Well
-  TID Inlet Valve
-  Tailwater Pump
-  Tailwater Drain Pump
-  Drainage Ditches
-  Irrigation Mixing Box
-  Irrigation Flow
-  Irrigation Pipeline
-  Tailwater Recovery
-  Canal
-  Wastewater Lift Station
-  Irrigation Control Box



SCALE:



TRINKLER DAIRY
STANISLAUS COUNTY, CA

FIGURE 4
IRRIGATION SCHEMATIC

PROJECT NO.

FRA-00

DATE:

10/17/14

DRAWN BY:

SB

APP. BY:

JR