Field No. 1

Field Irrigation Evaluation

Data Summary

FIELD IRRIGATION EVALUATION FOR IMPERIAL IRRIGATION DISTRICT IMPERIAL VALLEY, CALIFORNIA. FIELD NO. 1

FIELD DATA

Irrigated Acreage: 72 acres (ac)
Border Length: 1200 feet (ft)
Border Width: 150 ft, edge borders are about 75 ft.
Border Slope: Average, 0.002645 ft/ft

CROP DATA

Crop: First year Alfalfa, planted September of 1999 following leaching irrigation. Previously cropped as Sudan Grass
Crop Growth Stage: 18 inches (in) in height
Crop Condition: Good

SOILS DATA

Soil Texture: Imperial silty clay (60%); Imperial-Glenbar silty clay loam (30%); Holtville silty clay (10%)
Soil Depth: > 4ft
Soil Uniformity: There were some sandy layers down the profile and the texture changed spatially in the field.
Effective Crop Rooting Depth: 4 ft
Available Water Capacity: 0.17 – 0.35 in/in.
Estimated Allowable Depletion: 5 in

SOIL CONDITION

Estimated Soil Water Deficit at Beginning of Irrigation:
Average: 3.0 in
Estimated Irrigation Water Stored in Root Zone:
Average: 2.6 in

IRRIGATION DATA

Irrigation Method: Borders with gated outlets from concrete-lined head ditch.
Field and Soil Condition: Slightly cracking, about ¼ - ½ inches wide, 6 inches deep, and 8-inch spacing.: Corrugations at 40-inch centers. Previous irrigation on June 13, 2000.

Beginning Irrigation Time: June 22, 2000, 7:05 a.m.
Ending Irrigation Time: June 23, 2000, 7:45 a.m.
Beginning Outflow Time: June 22, about 11:15 a.m.
Ending Outflow Time: June 23, about 1 p.m.
Average Inflow: 11.2 cubic feet per second (cfs)
Average Outflow: 3.07 cfs

Number of Sets: 7
Set Time: 3.0 to 4.2 hours
Advance Time: 4.3 to 4.6 hours
Uniformity of Advance: Near constant rate of advance. Quite uniform.
Number of Borders per Set: 2 or 3

Irrigation Observations: Tailwater high at peak flow than usual. Could have Used longer set time and lower flow rates.
Uniformity: Good
Ponding: Slight ponding at the bottom end near the tailwater box.
Erosion: Some at bottom of the field
Estimated Irrigation Efficiency: 72 %.

Irrigation Summary		
	Average Depth[1], in	Percent of Water Applied %
Total Water Applied	3.80	
Total Water Stored in Root Zone	2.60	68
Total Runoff	1.08	28
Total Deep Percolation	0.12	3

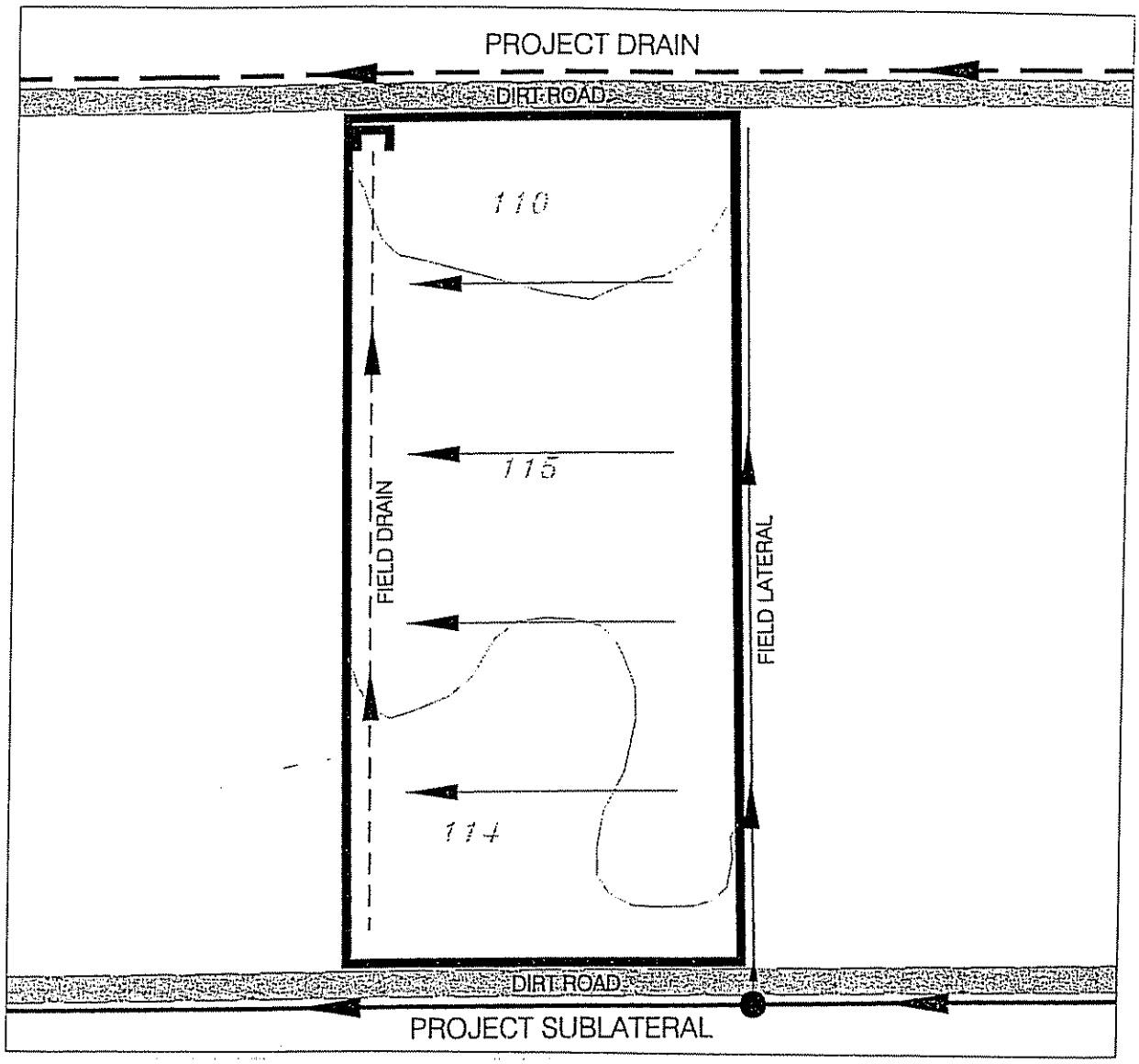
[1]Depth based on field irrigated acreage.

Field No.1 - Irrigation and Cropping History

Cropped Area: 72 ac

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Sugar Beets	1/8/97		10	10.2	10.2	3.37	3.37
Sugar Beets	2/11/97	34	10	10	10	3.31	3.31
Sugar Beets	3/5/97	22	10	10.3	10.3	3.41	3.41
Sugar Beets	3/19/97	14	8	4.3	4.3	1.42	
Sugar Beets	3/20/97	1	11	10.9	11	3.64	5.06
Sugar Beets	4/2/97	13	10	10.1	10.1	3.34	
Sugar Beets	4/3/97	1	10	10.1	10.1	3.34	6.68
Sugar Beets	4/14/97	11	10	10.3	10.3	3.41	3.41
Sugar Beets	4/26/97	12	10	9.2	9.2	3.04	
Sugar Beets	4/27/97	1	10	10.1	10	3.31	6.35
Sugar Beets	5/7/97	10	10	10.3	10.3	3.41	3.41
Sugar Beets	5/15/97	8	10	10.3	10.3	3.41	3.41
Sugar Beets	5/25/97	10	10	10.2	10.2	3.37	3.37
Sugar Beets	6/3/97	9	10	10.2	10.2	3.37	3.37
Sugar Beets	6/12/97	9	9	9.1	9.1	3.01	3.01
Sugar Beets	6/20/97	8	8	8	8	2.64	2.64
Idle	6/28/97	8	6	6	6	1.98	1.98
Flooding, flat	8/1/97	34	15	15	15	4.96	
Flooding, flat	8/2/97	1	15	14.9	14.9	4.93	**9.88**
Flooding, flat	11/19/97	109	10	9.9	9.9	3.27	
Flooding, flat	11/20/97	1	10	9.9	9.9	3.27	**6.55**
Flooding, flat	1/21/98	62	12	11.9	11.9	3.93	**3.93**
Wheat	3/1/98	39	11	11.2	11.2	3.70	3.70
Wheat	3/14/98	13	11	11.4	11.4	3.77	3.77
Wheat	3/31/98	17	10	10.3	10.3	3.41	3.41
Wheat	4/10/98	10	10	10.2	10.2	3.37	3.37
Wheat	4/22/98	12	10	11.4	11.4	3.77	
Wheat	4/23/98	1	12	12.2	12.2	4.03	7.80
Wheat	5/1/98	8	14	13.9	13.9	4.60	
Flooding, flat	7/13/98	73	12	11.9	11.9	3.93	
Flooding, flat	7/14/98	1	12	6	6	1.98	**5.92**
Flooding, row	9/14/98	62	8	8.1	8.1	2.68	
Flooding, row	9/15/98	1	10	10	10	3.31	**5.98**
Onions	10/13/98	28	8	8.1	8.1	2.68	2.68
Onions	10/16/98	3	8	5.7	5.7	1.88	1.88
Onions	10/19/98	3	8	4.5	4.5	1.49	1.49
Onions	10/23/98	4	8	4.6	4.6	1.52	1.52
Onions	10/30/98	7	8	8.1	8.1	2.68	
Onions	10/31/98	1	8	8.1	8.1	2.68	5.36
Onions	12/10/98	40	8	8.1	8.1	2.68	
Onions	12/11/98	1	8	8.3	8.3	2.74	5.42
Onions	1/25/99	45	8	8.3	8.3	2.74	2.74
Onions	2/20/99	26	8	8.3	8.3	2.74	

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Onions	2/21/99	1	8	8.1	8.1	2.68	5.42
Onions	3/3/99	10	8	8.1	8.1	2.68	
Onions	3/4/99	1	8	8.1	8.1	2.68	5.36
Onions	3/12/99	8	4	4	4	1.32	
Onions	3/13/99	1	7	7	7	2.31	3.64
Onions	3/22/99	9	7	7.1	7.1	2.35	2.35
Onions	3/30/99	8	8	4	4	1.32	
Onions	3/31/99	1	8	8.1	8.1	2.68	4.00
Onions	4/8/99	8	4	4	4	1.32	
Onions	4/9/99	1	8	8.1	8.1	2.68	4.00
Onions	4/17/99	8	8	8.4	8.4	2.78	2.78
Onions	4/23/99	6	8	8.1	8.1	2.68	2.68
Onions	4/27/99	4	8	6.4	6.4	2.12	2.12
Onions	5/30/99	33	8	8.2	8.2	2.71	
Sudan Grass	5/31/99	1	7	3.2	3.2	1.06	3.77
Sudan Grass	6/8/99	8	9	9	9	2.98	2.98
Sudan Grass	6/19/99	11	10	10.3	10.3	3.41	3.41
Sudan Grass	6/28/99	9	10	10.3	10.3	3.41	3.41
Sudan Grass	7/6/99	8	11	10.9	10.9	3.60	3.60
Sudan Grass	7/15/99	9	11	10.9	10.9	3.60	3.60
Sudan Grass	7/23/99	8	11	11.2	11.2	3.70	3.70
Flooding, flat	9/19/99	58	10	10	10	3.31	
Flooding, flat	9/20/99	1	10	7.7	7.7	2.55	5.85
Flooding, flat	11/2/99	43	8	8	8	2.64	
Flooding, flat	11/3/99	1	8	8	8	2.64	
Flooding, flat	11/4/99	1	8	8	8	2.64	7.93
Alfalfa, flat	11/25/99	21	6	5.9	5.9	1.95	1.95
Alfalfa, flat	12/21/99	26	12	10.9	12	3.97	3.97
Alfalfa, flat	1/26/00	36	11	10.9	10.9	3.60	3.60
Alfalfa, flat	3/17/00	51	13	13.2	13.2	4.36	
Alfalfa, flat	3/18/00	1	13	12.9	12.9	4.26	8.63
Alfalfa, flat	4/4/00	17	10	10.2	10.2	3.37	3.37
Alfalfa, flat	4/24/00	20	13	12.9	12.9	4.26	4.26
Alfalfa, flat	5/5/00	11	10	10.2	10.2	3.37	
Alfalfa, flat	5/6/00	1	10	10.2	10.2	3.37	6.74
Alfalfa, flat	5/21/00	15	12	12.5	12.5	4.13	4.13
Alfalfa, flat	5/29/00	8	11	11.2	11.2	3.70	3.70
Alfalfa, flat	6/13/00	15	12	12.1	12.1	4.00	4.00
Alfalfa, flat	6/22/00	9	11	11.2	11.1	3.67	3.67
Alfalfa, flat	7/9/00	17	12	11.9	11.9	3.93	3.93
Alfalfa, flat	7/19/00	10	11	10.9	10.9	3.60	3.60
Alfalfa, flat	7/31/00	12	12	12	12	3.97	3.97



LEGEND

- PARCEL BOUNDARY
- PROJECT CANAL/LATERAL
- PROJECT DRAIN
- FIELD LATERAL
- FIELD DRAIN
- FIELD ROAD
- FIELD TURNOUT
- FIELD TAILBOX
- 116 SOIL BOUNDARY W/MAPPING UNIT

DRAFT

0 100 200 300 400 500 1000
SCALE IN FEET

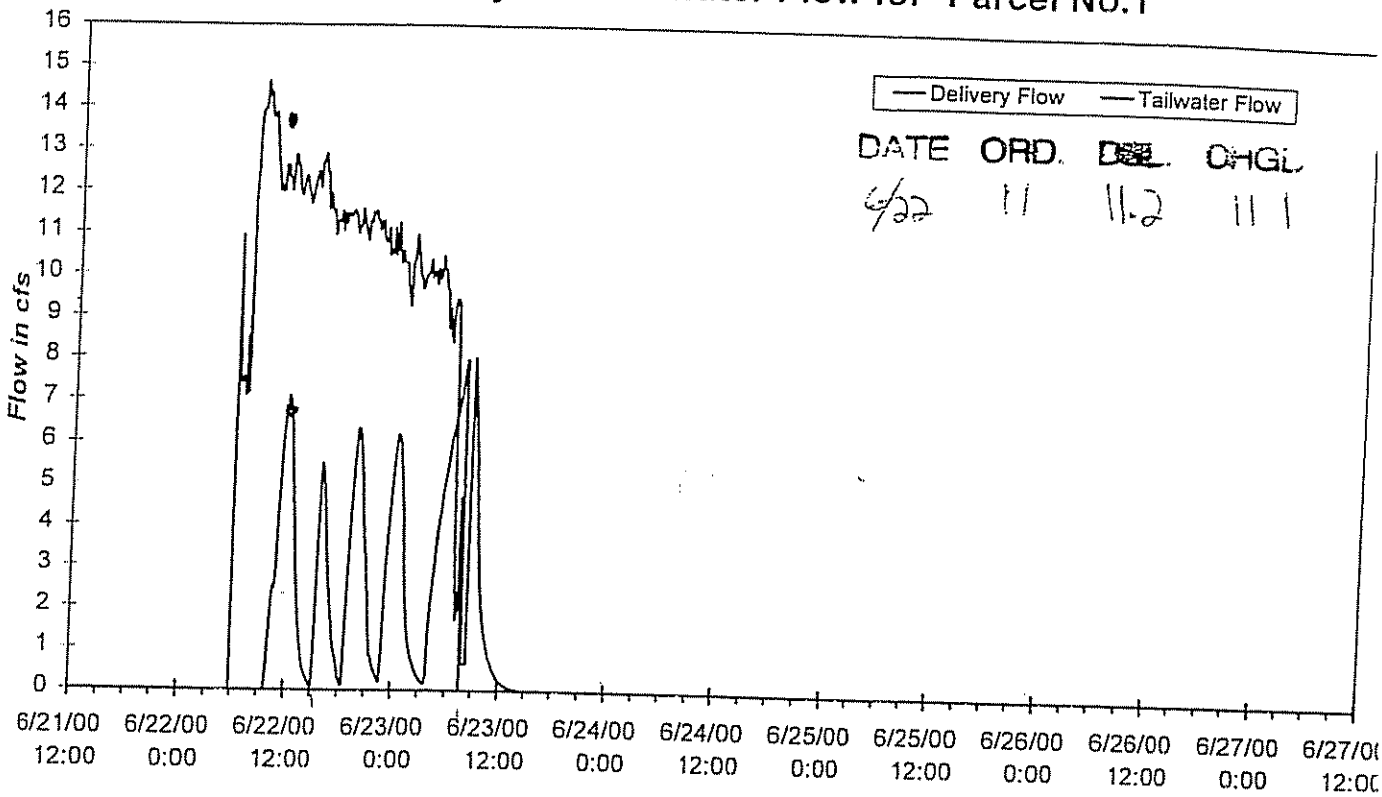
N

NRCE

SEPTEMBER 2000

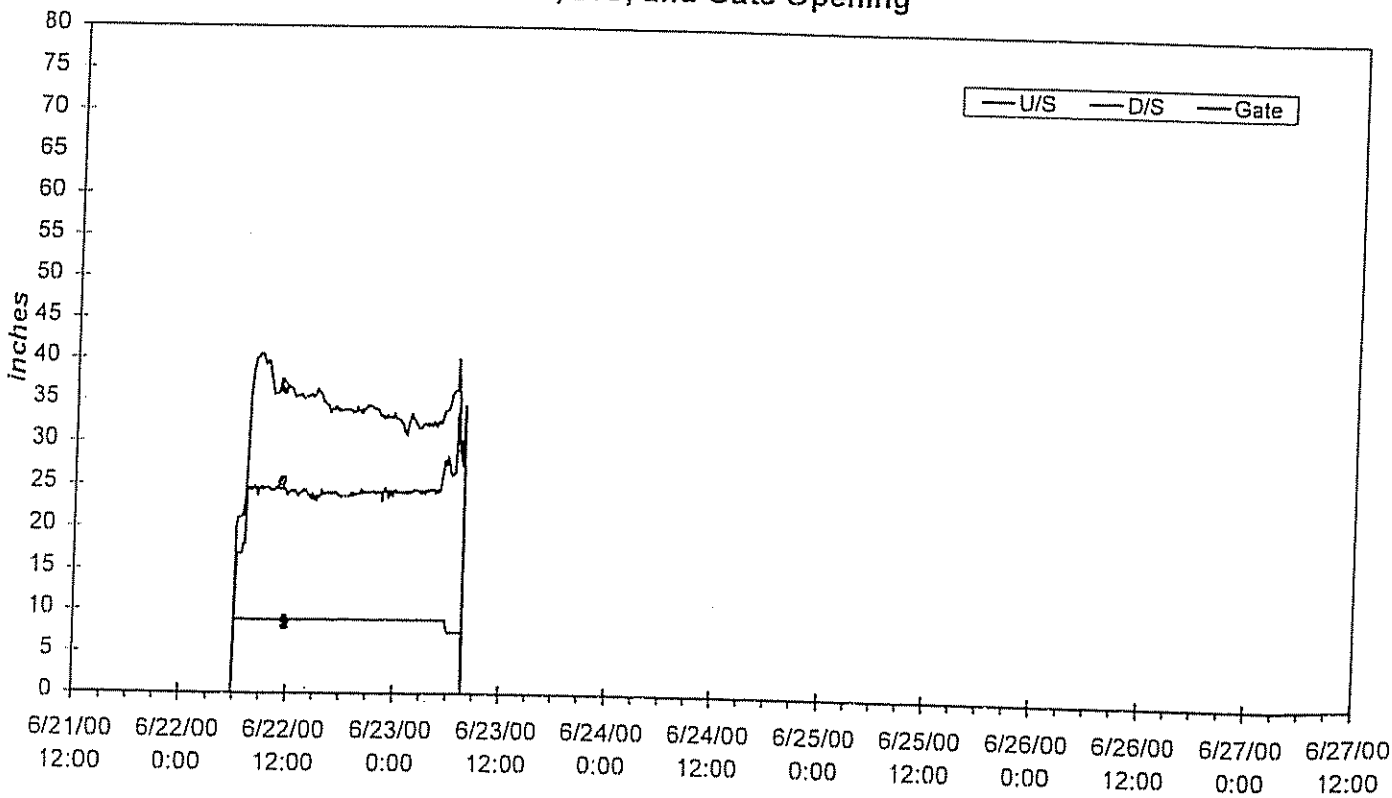
Field No. 1 Layout

Delivery and Tailwater Flow for Parcel No.1

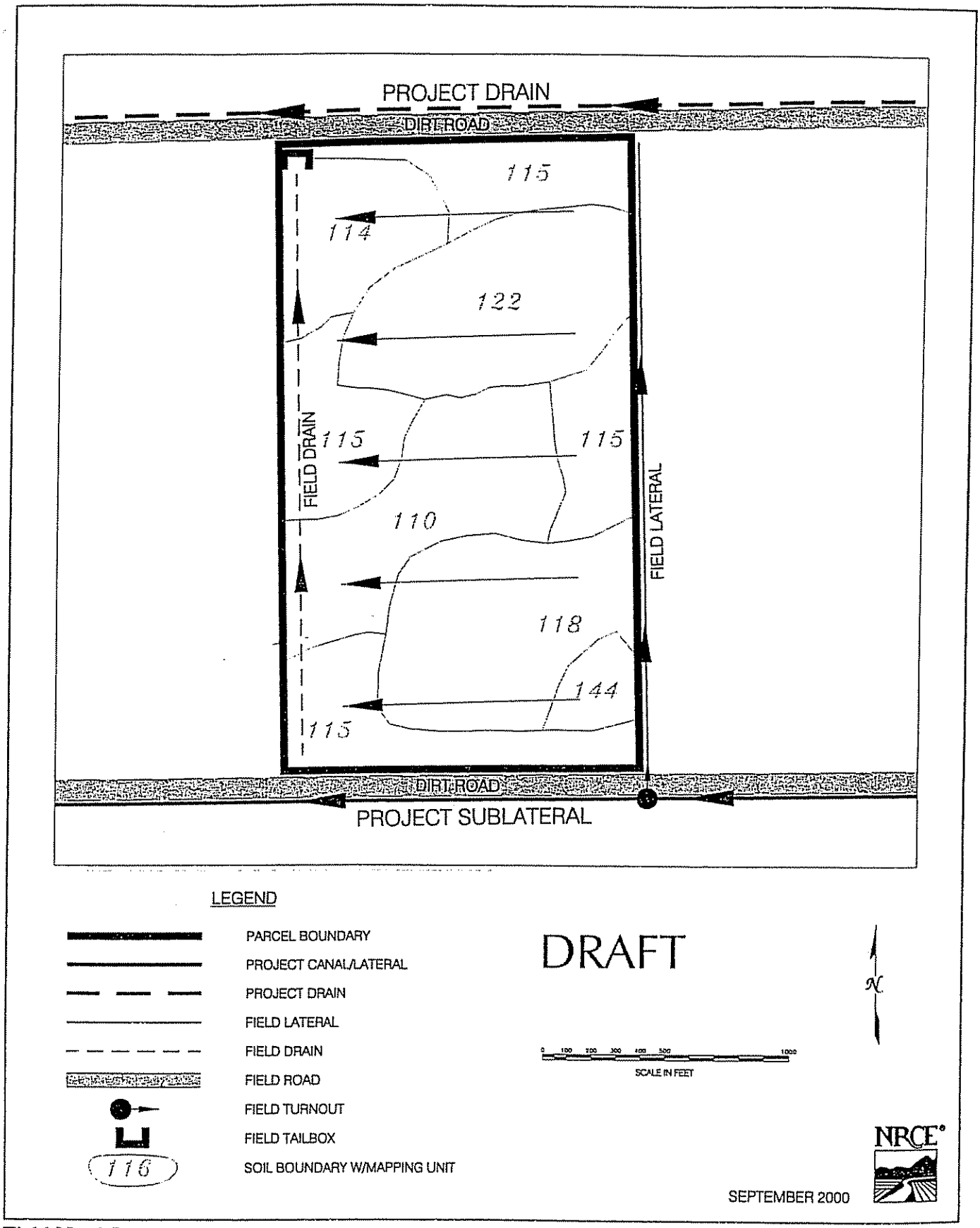


DATE	ORD.	DEL.	CHGL.
6/22	11	11.2	11.1

U/S, D/S, and Gate Opening

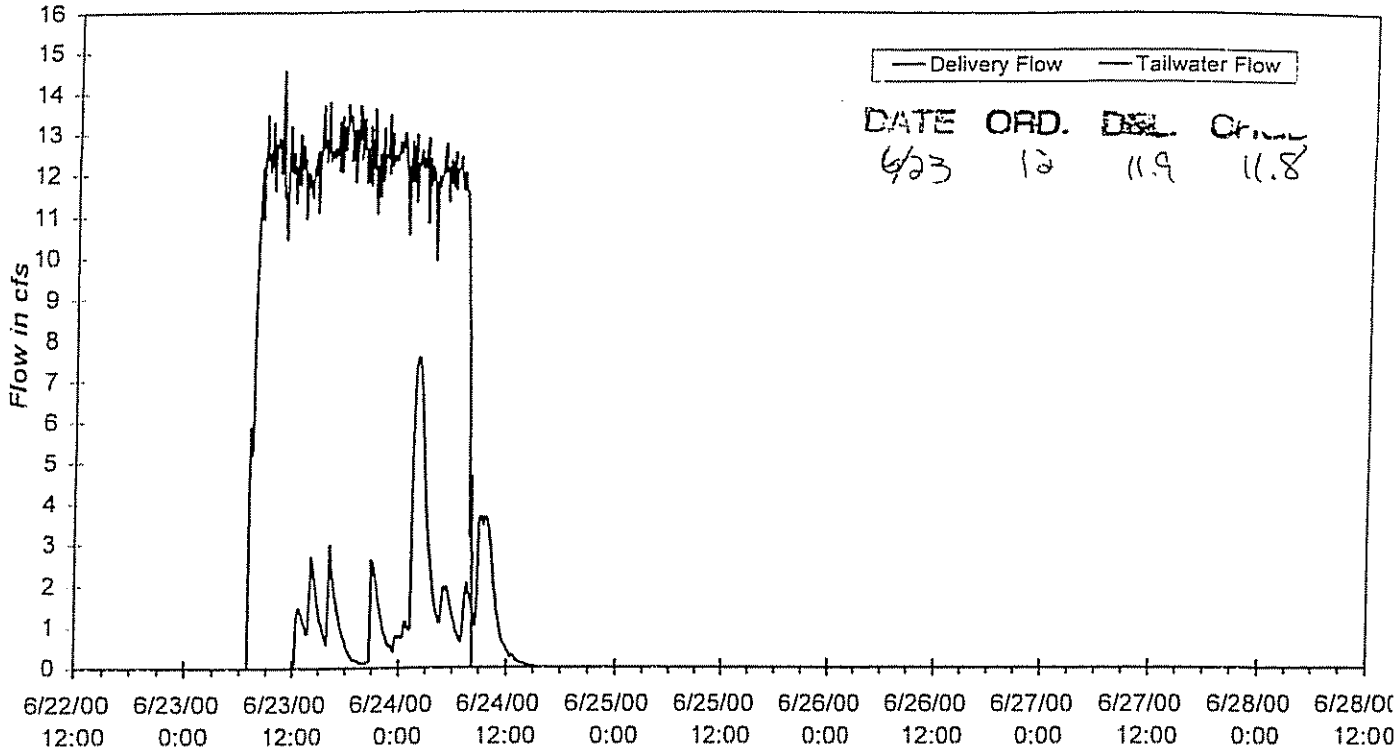


Order = 1d-11'	Delivery Volume (AF) = 23.0	% Tailwater= 28%	Acres = 72
Soil Type = 115, 114	Tailwater Volume (AF)= 6.5	Crop = Alfalfa	Inches Applied= 3.8



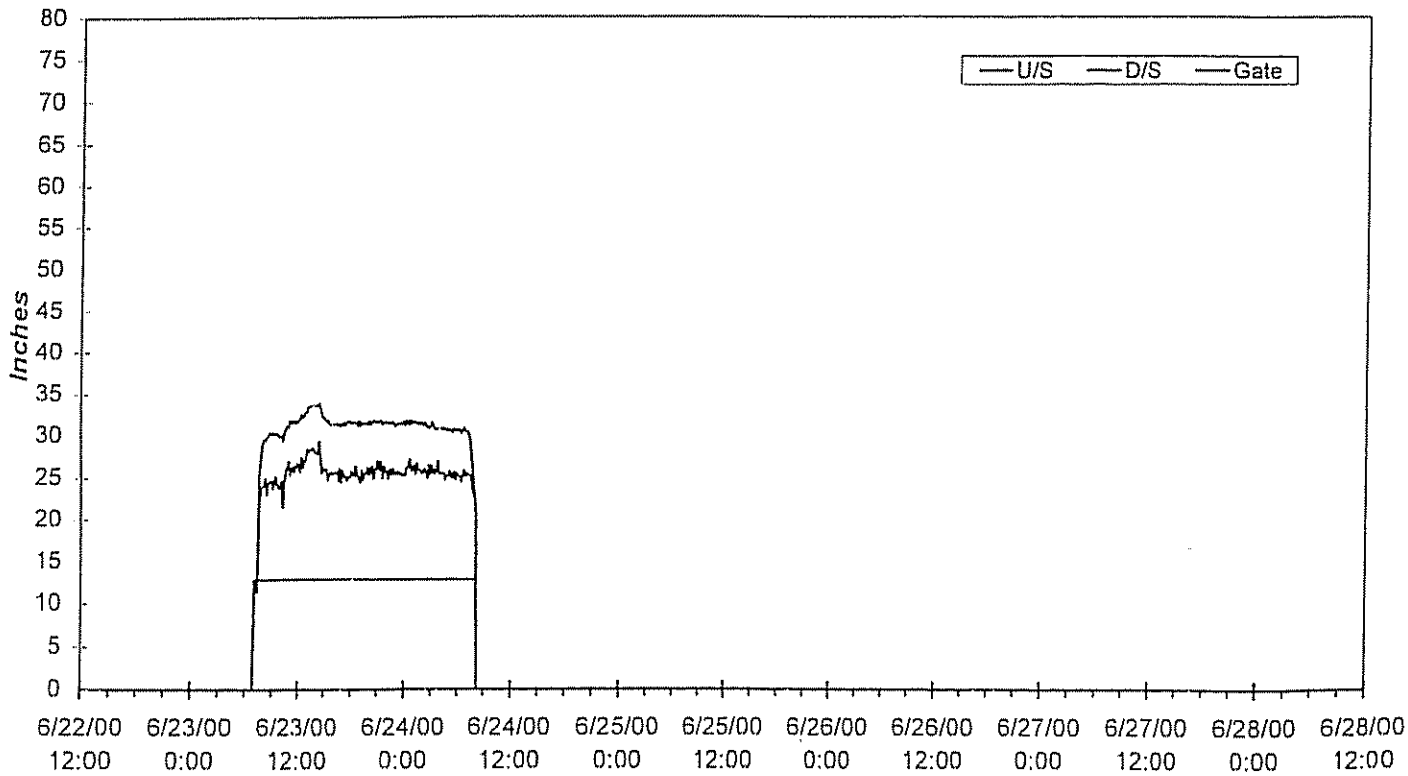
Field No. 2 Layout

Delivery and Tailwater Flow for Parcel No.2



DATE	ORD.	DEL.	Order
6/23	12	11.9	11.8

U/S, D/S, and Gate Opening



Order = 1d-12'	Delivery Volume (AF) = 24.8	% Tailwater= 14%	Acres = 78
Soil Type = 110, 115	Tailwater Volume (AF)= 3.4	Crop = Flat alfalfa	Inches Applied= 3.8

Field No. 2

Field Irrigation Evaluation

Data Summary

FIELD IRRIGATION EVALUATION FOR IMPERIAL IRRIGATION DISTRICT IMPERIAL VALLEY, CALIFORNIA. FIELD NO. 2

FIELD DATA

Irrigated Acreage: 78 acres (ac)
Border Length: 1380 feet (ft)
Border Width: 120 ft (edge borders are less than full width).
Border Slope: Average, 0.001931 ft/ft

CROP DATA

Crop: Third or forth year Alfalfa in seed. Planted prior to January 1997.
Crop Growth Stage: 24 inches (in) in height with heavy bloom seed alfalfa crop.
Crop Condition: Good

SOILS DATA

Soil Texture: Imperial-Glenbar silty clay loam (30%); Holtville silty clay (30%) Indio loam (15%); Imperial silty clay (10%).
Soil Depth: > 4ft
Soil Uniformity: Average to good
Effective Crop Rooting Depth: 4 ft
Available Water Capacity: 0.17 – 0.25 in/in.
Estimated Allowable Depletion: 4.0 in.

SOIL CONDITION

Estimated Soil Water Deficit at Beginning of Irrigation:
Average: 3.5 in
Estimated Irrigation Water Stored in Root Zone:
Average: 3.2 in

IRRIGATION DATA

Irrigation Method: Borders with gated outlets from concrete-lined head ditch.
Field and Soil Condition: Soil was quite dry before the irrigation. Some cracking in the soil. Previous irrigation on June 11, 2000.

Beginning Irrigation Time: June 23, 2000, 7:30 a.m.
Ending Irrigation Time: June 24, 2000, 7:30 a.m
Beginning Outflow Time: June 23, about 12 noon
Ending Outflow Time: June 24, about 1 p.m
Average Inflow: 12.5 cubic feet per second (cfs)
Average Outflow: 1.64 cfs

Number of Sets: 11
Set Time: 2.0 to 2.8 hours.
Advance Time: 3.4 to 4.0 hours
Uniformity of Advance: Near constant rate of advance. Quite uniform.
Number of Borders per Set: 2

Irrigation Observations:
Uniformity: Good.
Ponding: None
Erosion: None
Estimated Irrigation Efficiency: 87%.

Irrigation Summary		
	Average Depth[1], in	Percent of Applied Water, %
Total Water Applied	3.82	
Total Water Stored in Root Zone	3.20	83
Total Runoff	0.52	14
Total Deep Percolation	0.10	3

[1]Depth based on field irrigated acreage

Field No.2 - Irrigation and Cropping History

Cropped Area: 78 ac

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Alfalfa, flat	2/15/97		12	12.3	12.3	3.75	3.75
Alfalfa, flat	3/5/97	18	11	12.9	12.9	3.94	3.94
Alfalfa, flat	3/31/97	26	12	12.1	12.1	3.69	
Alfalfa, flat	4/1/97	1	5	1.9	2.5	0.76	4.46
Alfalfa, flat	4/3/97	2	4	0.8	2	0.61	0.61
Alfalfa, flat	4/12/97	9	13	13.2	13.2	4.03	4.03
Alfalfa, flat	5/1/97	19	7	1.5	1.5	0.46	0.46
Alfalfa, flat	5/5/97	4	12	11.9	11.9	3.63	3.63
Alfalfa, flat	5/14/97	9	12	11.5	12.1	3.69	3.69
Alfalfa, flat	6/3/97	20	12	12	12	3.66	
Alfalfa, flat	6/4/97	1	7	7.7	7.7	2.35	6.01
Alfalfa, flat	6/13/97	9	12	12	12	3.66	3.66
Alfalfa, flat	7/4/97	21	12	11.8	11.8	3.60	
Alfalfa, flat	7/5/97	1	5	2.7	2.7	0.82	4.42
Alfalfa, flat	7/15/97	10	12	12.4	12.4	3.78	
Alfalfa, flat	7/16/97	1	5	1.8	1.8	0.55	4.33
Alfalfa, flat	8/3/97	18	12	12.6	12.6	3.84	
Alfalfa, flat	8/4/97	1	6	1	3	0.92	4.76
Alfalfa, flat	8/17/97	13	12	11.9	11.9	3.63	
Alfalfa, flat	8/18/97	1	10	3.6	10	3.05	
Alfalfa, flat	8/19/97	1	5	2.7	2.7	0.82	7.51
Alfalfa, flat	9/29/97	41	12	12.2	12.2	3.72	
Alfalfa, flat	9/30/97	1	8	8.8	8.8	2.69	6.41
Alfalfa, flat	10/29/97	29	12	12.4	12.4	3.78	
Alfalfa, flat	10/30/97	1	5	2.4	2.4	0.73	4.52
Alfalfa, flat	12/5/97	36	12	11.9	11.9	3.63	
Alfalfa, flat	12/6/97	1	7	3.2	7	2.14	5.77
Alfalfa, flat	1/22/98	47	11	10.8	10.8	3.30	3.30
Alfalfa, flat	3/15/98	52	12	12.4	12.4	3.78	3.78
Alfalfa, flat	3/29/98	14	10	10.3	10.3	3.14	3.14
Alfalfa, flat	4/21/98	23	12	12.2	12.2	3.72	
Alfalfa, flat	4/22/98	1	5	0.9	5.2	1.59	5.31
Alfalfa, flat	5/1/98	9	12	12	12	3.66	3.66
Alfalfa, flat	5/22/98	21	12	12.2	12.2	3.72	
Alfalfa, flat	5/23/98	1	5	2.2	2.2	0.67	4.39
Alfalfa, flat	6/1/98	9	12	12.9	12.9	3.94	
Alfalfa, flat	6/2/98	1	5	0	2.5	0.76	4.70
Alfalfa, flat	6/19/98	17	12	12.4	12.4	3.78	
Alfalfa, flat	6/20/98	1	4	1.3	2	0.61	4.39
Alfalfa, flat	6/30/98	10	10	10.4	10.4	3.17	
Alfalfa, flat	7/1/98	1	5	4	4	1.22	4.39
Alfalfa, flat	7/24/98	23	12	12.4	12.4	3.78	3.78
Alfalfa, flat	8/14/98	21	12	12.9	12.9	3.94	

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Alfalfa, flat	8/15/98	1	6	3.3	6.7	2.04	5.98
Alfalfa, flat	9/16/98	32	12	12.8	12.8	3.91	
Alfalfa, flat	9/17/98	1	12	12.6	12.6	3.84	7.75
Alfalfa, flat	10/1/98	14	12	11.8	11.8	3.60	3.60
Alfalfa, flat	10/30/98	29	12	11.9	11.9	3.63	
Alfalfa, flat	10/31/98	1	5	1	5	1.53	5.16
Alfalfa, flat	12/7/98	37	12	12.1	12.1	3.69	3.69
Alfalfa, flat	12/26/98	19	12	10.9	12	3.66	3.66
Alfalfa, flat	1/20/99	25	12	12.2	12.2	3.72	3.72
Alfalfa, flat	2/23/99	34	12	10.3	11	3.36	3.36
Alfalfa, flat	3/10/99	15	12	9.3	12.4	3.78	3.78
Alfalfa, flat	4/6/99	27	12	10.8	12.3	3.75	3.75
Alfalfa, flat	4/15/99	9	12	12.9	12.9	3.94	3.94
Alfalfa, flat	4/25/99	10	12	12.3	12.3	3.75	3.75
Alfalfa, flat	5/13/99	18	12	12.2	12.2	3.72	3.72
Alfalfa, flat	5/23/99	10	12	12.9	12.9	3.94	3.94
Alfalfa, flat	6/13/99	21	12	11.9	11.9	3.63	
Alfalfa, flat	6/14/99	1	12	2.1	2.1	0.64	4.27
Alfalfa, flat	6/24/99	10	12	12.4	12.4	3.78	3.78
Alfalfa, flat	7/9/99	15	12	11.9	11.9	3.63	3.63
Alfalfa, flat	7/22/99	13	12	12.2	12.2	3.72	3.72
Alfalfa, flat	8/12/99	21	12	12.2	12.2	3.72	3.72
Alfalfa, flat	8/23/99	11	12	11.5	12	3.66	3.66
Alfalfa, flat	9/3/99	11	12	12.2	12.2	3.72	3.72
Alfalfa, flat	9/22/99	19	10	12.2	12.2	3.72	3.72
Alfalfa, flat	10/5/99	13	12	10.7	10.7	3.27	3.27
Alfalfa, flat	11/2/99	28	12	10.4	12	3.66	3.66
Alfalfa, flat	11/23/99	21	12	10.2	12	3.66	3.66
Alfalfa, flat	1/4/00	42	12	10.6	12	3.66	3.66
Alfalfa, flat	1/31/00	27	12	9.8	12	3.66	3.66
Alfalfa, flat	3/4/00	33	12	12.6	12.6	3.84	3.84
Alfalfa, flat	3/16/00	12	12	12.1	12.1	3.69	3.69
Alfalfa, flat	4/6/00	21	12	11.9	11.9	3.63	3.63
Alfalfa, flat	4/17/00	11	12	10.1	12	3.66	3.66
Alfalfa, flat	5/4/00	17	12	11.9	11.9	3.63	3.63
Alfalfa, flat	5/11/00	7	12	12	12	3.66	3.66
Alfalfa, flat	5/17/00	6	12	11.9	11.9	3.63	3.63
Alfalfa, flat	6/2/00	16	12	12.9	12.9	3.94	3.94
Alfalfa, flat	6/11/00	9	12	9.7	12	3.66	3.66
Alfalfa, flat	6/23/00	12	12	11.9	11.8	3.60	3.60
Alfalfa, flat	7/6/00	13	12	12.1	12.1	3.69	
Alfalfa, flat	7/7/00	1	4	3.5	3.5	1.07	4.76
Alfalfa, flat	7/19/00	12	12	12.1	12.1	3.69	
Alfalfa, flat	7/20/00	1	6	2.9	2.9	0.88	4.58

Field No. 3

Field Irrigation Evaluation

Data Summary

FIELD IRRIGATION EVALUATION FOR IMPERIAL IRRIGATION DISTRICT IMPERIAL VALLEY, CALIFORNIA. FIELD NO. 3

FIELD DATA

Irrigated Acreage: 156 acres (ac)
Border Length: 2670 feet (ft)
Border Width: 60 ft
Border Slope: Average, 0.003316 ft/ft

CROP DATA

Crop: Second year Bermuda Grass, planted in May of 1998.
Crop Growth Stage: 10 inches (in) in height
Crop Condition: Good

SOILS DATA

Soil Texture: Imperial silty clay (60%); Imperial-Glenbar silty clay loam (40%).
Soil Depth: Water table at about 3 ft.
Soil Uniformity: Average to good. Some sandy layers at about 3 ft.
Effective Crop Rooting Depth: 3 ft
Available Water Capacity: 0.17 – 0.35 in/in.
Estimated Allowable Depletion: Not determined.

SOIL CONDITION

Estimated Soil Water Deficit at Beginning of Irrigation:
Average: 4.0 in.
Estimated Irrigation Water Stored in Root Zone:
Average: 3.52 in.

IRRIGATION DATA

Irrigation Method: Borders with gated outlets from concrete-lined head ditch.
Field and Soil Condition: Dry with some cracking. Previous irrigation on June 16, 2000.

Beginning Irrigation Time: June 25, 2000, 8:30 a.m.
Ending Irrigation Time: June 27, 2000, 8:30 a.m
Beginning Outflow Time: June 25, about 8:30 p.m.
Ending Outflow Time: Not determined.
Average Inflow: 14.0 cubic feet per second (cfs)
Average Outflow: Not determined.

Number of Sets: 10
Set Time: 4.5 to 5.0 hours.
Advance Time: Average, 12 hours.
Uniformity of Advance: Near constant rate of advance. Quite uniform.
Number of Borders per Set: 4

Irrigation Observations: Very low intake after initial filling of cracks.
Uniformity: Good
Ponding: None.
Erosion: None.
Estimated Irrigation Efficiency: 87%.

Irrigation Summary		
	Average Depth[1], in	Percent of Applied Water %
Total Water Applied	4.27	
Total Water Stored in Root Zone	3.52	82
Total Runoff	0.55	13
Total Deep Percolation	0.20	5

[1]Depth based on field irrigated acreage.

Field No.3 - Irrigation and Cropping History

Cropped Area: 156 ac

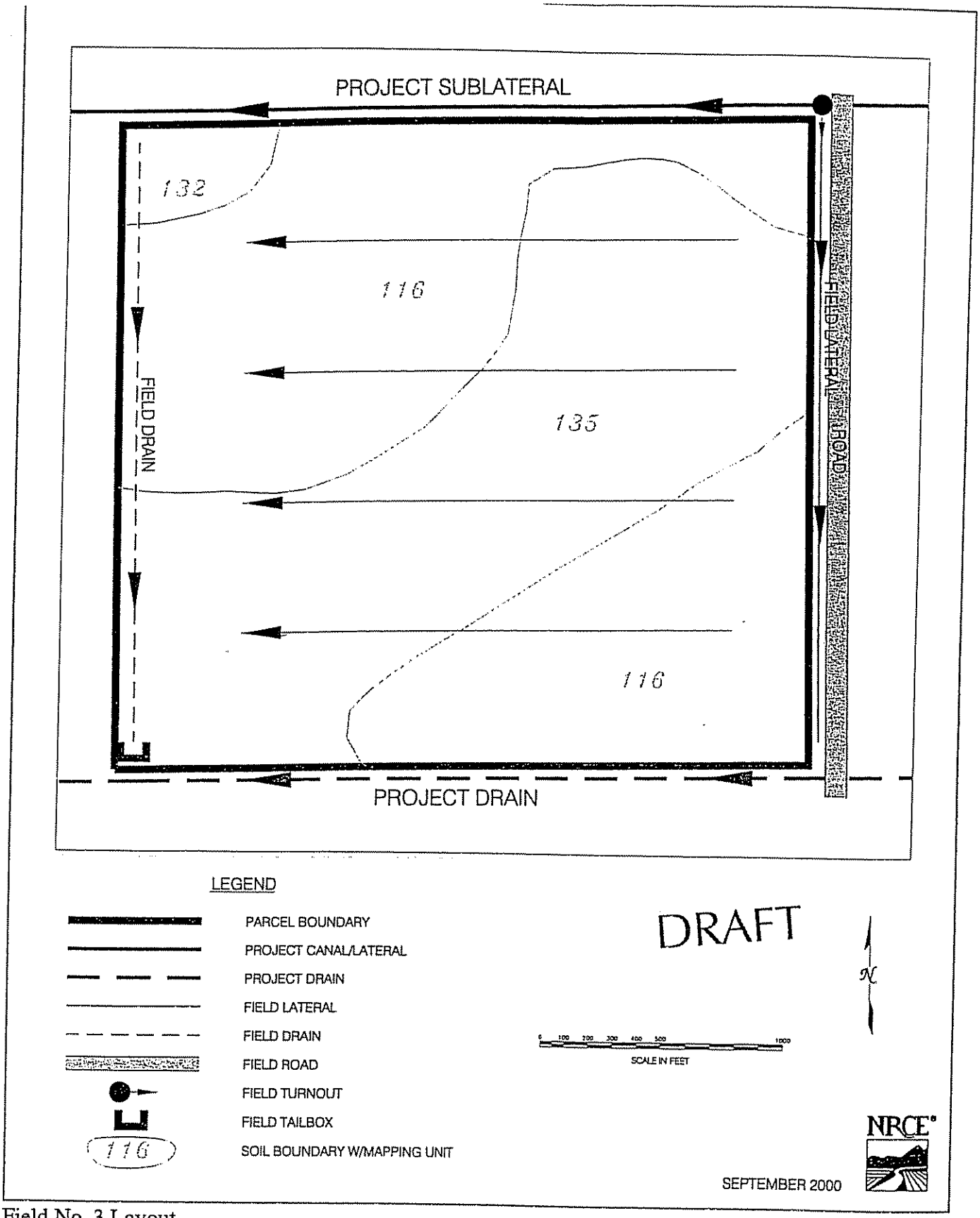
Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Rye Grass	1/1/97		5	5.5	5.5	0.84	
Rye Grass	1/2/97	1	5	5.2	5.2	0.79	1.63
Rye Grass	1/16/97	14	0.2	0.2	0.2	0.03	
Rye Grass	1/17/97	1	5	5.1	5.1	0.78	0.78
Rye Grass	1/18/97	1	4	4.2	4.2	0.64	0.64
Rye Grass	1/19/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/20/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/21/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/22/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/23/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/24/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/25/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/26/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/27/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/28/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	1/29/97	1	5	5.2	5.2	0.79	0.79
Rye Grass	2/7/97	9	6	6.1	6.1	0.93	0.93
Rye Grass	2/14/97	7	0.2	0.2	0.2	0.03	
Rye Grass	2/15/97	1	5	5.4	5.4	0.82	
Rye Grass	2/16/97	1	5	5.2	5.2	0.79	1.65
Rye Grass	2/18/97	2	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/19/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/20/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/21/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/22/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/23/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/24/97	1	5	5.3	5.3	0.81	0.81
Rye Grass	2/25/97	1	6	6	6	0.92	0.92
Rye Grass	2/26/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/26/97	0	4	2.2	2.2	0.34	0.34
Rye Grass	2/27/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	2/28/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/1/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/2/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/3/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/4/97	1	4	4.4	4.4	0.67	0.67
Rye Grass	3/5/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/6/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/7/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/7/97	0	6	7.7	7.7	1.17	1.17
Rye Grass	3/8/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/9/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/10/97	1	0.2	0.2	0.2	0.03	0.03

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Rye Grass	3/11/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/13/97	2	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/14/97	1	4	4.1	4.1	0.63	0.63
Rye Grass	3/15/97	1	7	7.7	7.7	1.17	1.17
Rye Grass	3/16/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/17/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/18/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/19/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/20/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/21/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/22/97	1	5	5.2	5.2	0.79	0.79
Rye Grass	3/23/97	1	5	5.2	5.2	0.79	0.79
Rye Grass	3/24/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/25/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/26/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/27/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/28/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	3/29/97	1	4	4.2	4.2	0.64	0.64
Rye Grass	3/30/97	1	6	6	6	0.92	0.92
Rye Grass	3/31/97	1	3	1.5	1.5	0.23	0.23
Rye Grass	4/3/97	3	0.2	0.2	0.2	0.03	0.03
Rye Grass	4/4/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	4/5/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	4/6/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	4/7/97	1	0.2	0.2	0.2	0.03	0.03
Rye Grass	4/9/97	2	11	12.3	12.3	1.88	1.88
Rye Grass	4/10/97	1	6	6.1	6.1	0.93	0.93
Rye Grass	4/16/97	6	13	13.2	13.2	2.01	2.01
Rye Grass	4/21/97	5	12	13.4	13.4	2.04	2.04
Rye Grass	4/26/97	5	12	12.3	12.3	1.88	1.88
Rye Grass	5/1/97	5	9	9	9	1.37	1.37
Idle	11/14/97	197	10	4.4	4.4	0.67	
Wheat	11/15/97	1	12	10.2	10.2	1.56	
Wheat	11/16/97	1	12	10.3	10.3	1.57	
Wheat	11/17/97	1	12	12.5	12.5	1.91	
Wheat	11/18/97	1	5	0.5	3	0.46	6.16
Wheat	12/29/97	41	12	12.6	12.6	1.92	
Wheat	12/30/97	1	12	12.3	12.3	1.88	
Wheat	12/31/97	1	4	1.4	2.5	0.38	4.18
Wheat	2/26/98	57	11	11.6	11.6	1.77	
Wheat	2/27/98	1	11	11.5	11.5	1.75	3.52
Wheat	3/15/98	16	11	11.5	11.5	1.75	
Wheat	3/16/98	1	10	11.5	11.5	1.75	3.51
Wheat	3/30/98	14	10	12.4	12.4	1.89	
Wheat	3/31/98	1	10	10.4	10.4	1.59	3.48
Wheat	4/9/98	9	11	11.1	11.1	1.69	
Wheat	4/10/98	1	11	11.1	11.1	1.69	3.39

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Idle	5/29/98	49	9	9.1	9.1	1.39	1.39
Bermuda Grass	5/30/98	1	9	9.1	9.1	1.39	1.39
Bermuda Grass	5/31/98	1	9	9.4	9.4	1.43	1.43
Bermuda Grass	6/1/98	1	9	9.7	9.7	1.48	1.48
Bermuda Grass	6/2/98	1	9	9.1	9.1	1.39	1.39
Bermuda Grass	6/3/98	1	12	12.2	12.2	1.86	1.86
Bermuda Grass	6/4/98	1	12	12.2	12.2	1.86	1.86
Bermuda Grass	6/5/98	1	12	11.9	11.9	1.82	1.82
Bermuda Grass	6/6/98	1	12	12	12	1.83	1.83
Bermuda Grass	6/9/98	3	11	10.9	10.9	1.66	
Bermuda Grass	6/10/98	1	11	11.4	11.4	1.74	
Bermuda Grass	6/11/98	1	7	3.5	3.5	0.53	3.94
Bermuda Grass	6/17/98	6	11	11.3	11.3	1.72	
Bermuda Grass	6/18/98	1	11	11.2	11.2	1.71	
Bermuda Grass	6/19/98	1	7	3.5	3.5	0.53	3.97
Bermuda Grass	6/27/98	8	12	12.2	12.2	1.86	
Bermuda Grass	6/28/98	1	12	12.2	12.2	1.86	3.72
Bermuda Grass	7/6/98	8	12	12.5	12.5	1.91	
Bermuda Grass	7/7/98	1	12	11.9	11.9	1.82	3.72
Bermuda Grass	7/17/98	10	12	11.8	11.8	1.80	
Bermuda Grass	7/18/98	1	12	12.2	12.2	1.86	
Bermuda Grass	7/19/98	1	12	1.5	1.5	0.23	3.89
Bermuda Grass	7/29/98	10	13	13	13	1.98	
Bermuda Grass	7/30/98	1	13	13	13	1.98	
Bermuda Grass	7/31/98	1	13	13	13	1.98	5.95
Bermuda Grass	8/11/98	11	12	11.8	11.8	1.80	
Bermuda Grass	8/12/98	1	12	11.8	11.8	1.80	
Bermuda Grass	8/13/98	1	6	6.1	6.1	0.93	4.53
Bermuda Grass	9/2/98	20	14	14.8	14	2.14	
Bermuda Grass	9/3/98	1	14	14.8	14	2.14	4.27
Bermuda Grass	9/17/98	14	14	14	14	2.14	
Bermuda Grass	9/18/98	1	14	14	14	2.14	4.27
Bermuda Grass	2/23/99	158	13	12.9	12.9	1.97	
Bermuda Grass	2/24/99	1	13	12.9	12.9	1.97	
Bermuda Grass	2/25/99	1	13	13.2	13.2	2.01	
Bermuda Grass	2/26/99	1	13	13.2	13.2	2.01	7.96
Bermuda Grass	3/21/99	23	12	12.2	12.2	1.86	
Bermuda Grass	3/22/99	1	16	15.5	15.5	2.36	4.23
Bermuda Grass	4/11/99	20	14	14.4	14.4	2.20	
Bermuda Grass	4/12/99	1	14	14.4	14.4	2.20	4.39
Bermuda Grass	4/23/99	11	10	10.1	10.1	1.54	
Bermuda Grass	4/24/99	1	10	10.1	10.1	1.54	3.08
Bermuda Grass	5/16/99	22	14	14.4	14.4	2.20	
Bermuda Grass	5/17/99	1	14	17	17	2.59	
Bermuda Grass	5/19/99	2	3	1.5	1.5	0.23	5.02
Bermuda Grass	5/28/99	9	11	11.8	11.6	1.77	
Bermuda Grass	5/29/99	1	11	11.4	11.4	1.74	

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Bermuda Grass	5/30/99	1	16	16	16	2.44	5.95
Bermuda Grass	6/7/99	8	16	15.9	15.9	2.43	
Bermuda Grass	6/8/99	1	16	7.9	7.9	1.21	3.63
Bermuda Grass	6/26/99	18	14	14.4	14.4	2.20	
Bermuda Grass	6/27/99	1	14	16.2	16.2	2.47	4.67
Bermuda Grass	7/8/99	11	12	13.9	13.9	2.12	
Bermuda Grass	7/9/99	1	14	13.9	13.9	2.12	
Bermuda Grass	7/10/99	1	5	2.5	2.5	0.38	4.62
Bermuda Grass	7/20/99	10	14	14.2	14.2	2.17	
Bermuda Grass	7/21/99	1	14	14.2	14.2	2.17	4.33
Bermuda Grass	8/7/99	17	14	14.2	14.2	2.17	
Bermuda Grass	8/8/99	1	14	14.2	14.2	2.17	
Bermuda Grass	8/9/99	1	7	7.5	7.5	1.14	5.48
Bermuda Grass	8/19/99	10	16	16.4	16.4	2.50	2.50
Bermuda Grass	8/27/99	8	14	15.5	15.5	2.36	
Bermuda Grass	8/28/99	1	14	11	14	2.14	4.50
Bermuda Grass	9/15/99	18	16	16.3	16.3	2.49	
Bermuda Grass	9/16/99	1	16	16.1	16.1	2.46	4.94
Bermuda Grass	9/27/99	11	13	13.1	13.1	2.00	
Bermuda Grass	9/28/99	1	8	7.9	7.9	1.21	3.20
Bermuda Grass	2/9/00	134	14	14.4	14.4	2.20	
Bermuda Grass	2/10/00	1	14	13.9	13.9	2.12	
Bermuda Grass	2/11/00	1	14	14	14	2.14	6.45
Bermuda Grass	3/13/00	31	12	12	12	1.83	
Bermuda Grass	3/14/00	1	12	12.3	12.3	1.88	3.71
Bermuda Grass	3/28/00	14	12	12.1	12.1	1.85	
Bermuda Grass	3/29/00	1	12	12.3	12.3	1.88	3.72
Bermuda Grass	4/18/00	20	12	11.9	11.9	1.82	
Bermuda Grass	4/19/00	1	12	11.9	11.9	1.82	3.63
Bermuda Grass	5/2/00	13	12	14.1	14.1	2.15	
Bermuda Grass	5/3/00	1	12	11.9	11.9	1.82	3.97
Bermuda Grass	5/13/00	10	12	12.4	12.4	1.89	
Bermuda Grass	5/14/00	1	12	12	12	1.83	3.72
Bermuda Grass	5/28/00	14	13	13	13	1.98	
Bermuda Grass	5/29/00	1	13	13.1	13.1	2.00	3.98
Bermuda Grass	5/31/00	2	3	1.6	3	0.46	0.46
Bermuda Grass	6/6/00	6	12	12.3	12.3	1.88	
Bermuda Grass	6/7/00	1	12	12.6	12.6	1.92	3.80
Bermuda Grass	6/16/00	9	13	13.1	13.1	2.00	
Bermuda Grass	6/17/00	1	8	8.3	8.3	1.27	3.27
Bermuda Grass	6/25/00	8	12	14.6	14.6	2.23	
Bermuda Grass	6/26/00	1	12	13.4	13.4	2.04	4.27
Bermuda Grass	7/9/00	13	13	12.9	12.9	1.97	
Bermuda Grass	7/10/00	1	13	15.2	15.2	2.32	4.29
Bermuda Grass	7/23/00	13	12	11.9	11.9	1.82	
Bermuda Grass	7/24/00	1	12	12.7	12.7	1.94	
Bermuda Grass	7/25/00	1	16	16	16	2.44	6.19

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Bermuda Grass	7/30/00	5	12	11.9	11.9	1.82	
Bermuda Grass	7/31/00	1	11	10.9	10.9	1.66	3.48



Field No. 3 Layout

Field No. 3 - 0 to 1 ft.

ECe(0.5)
dS/m

< 12

12 - 15

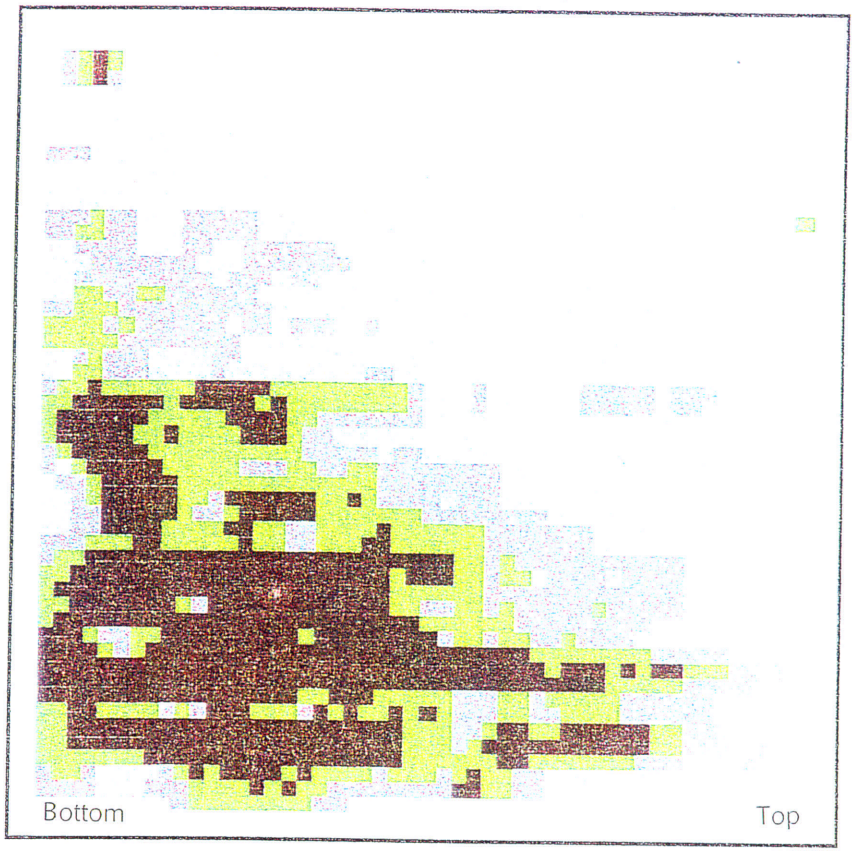
15 - 18

> 18

Data Bounds

X: min & max
643724.35
644541.68

Y: min & max
3670331.97
3671093.8



1 to 2 ft.

ECe(1.5)
dS/m

< 12

12 - 15

15 - 18

> 18

Data Bounds

X: min & max
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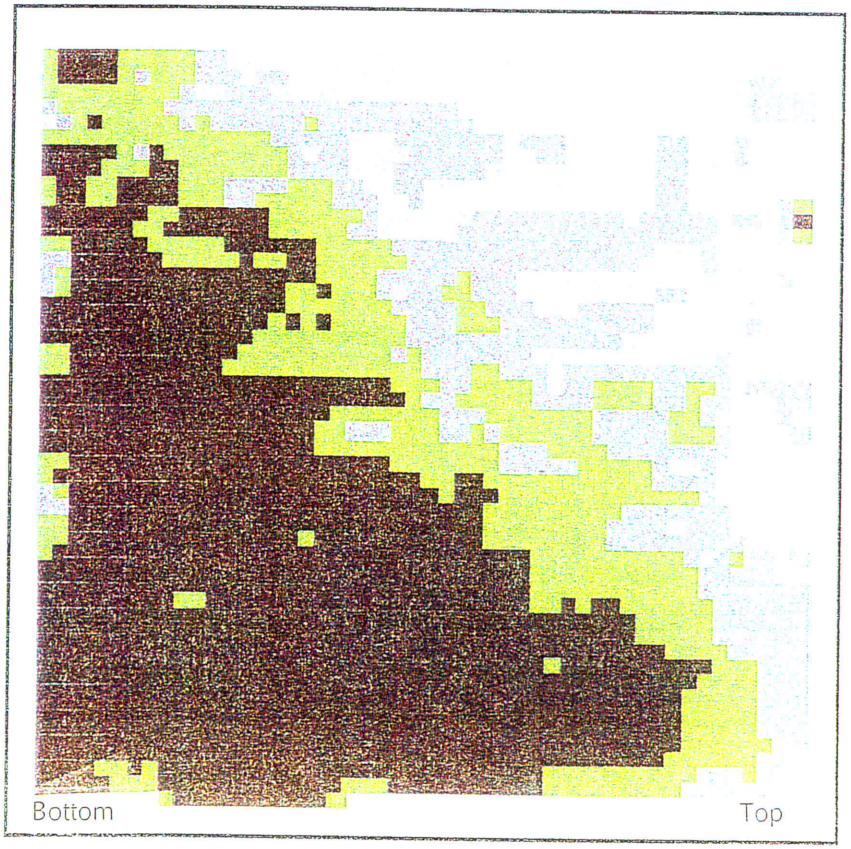
644541.68

Y: min & max
3670331.97
3671093.8