Field No. 5 - 2 to 3 ft. (autoscale)

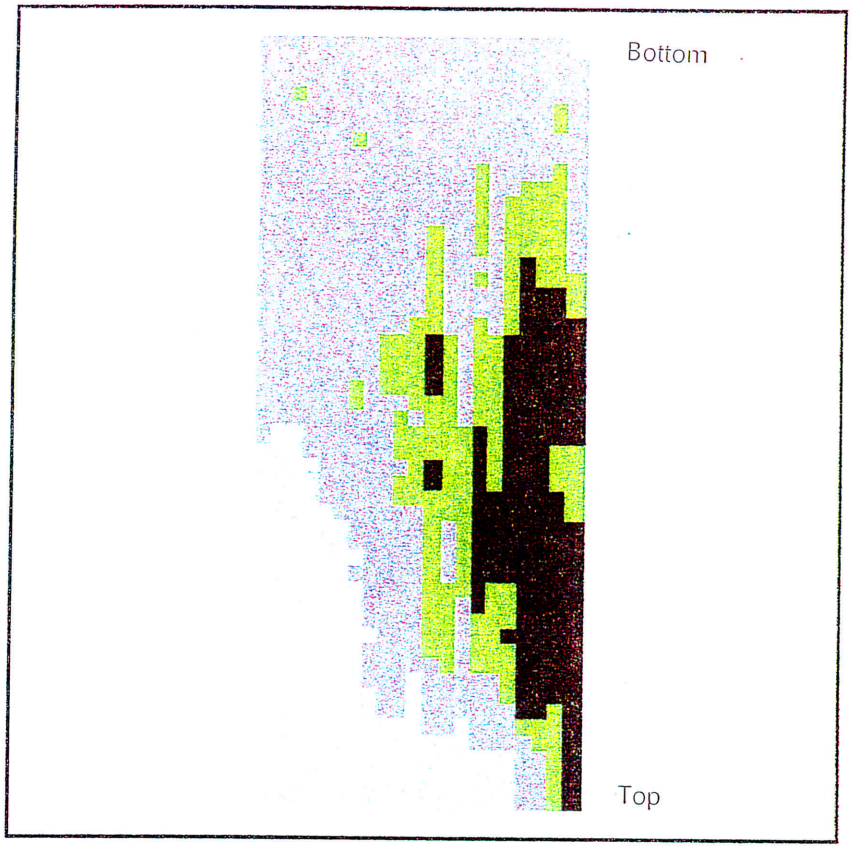
ECe(2.5)
dS/m

< 4.24
4.24 - 12.57
12.57 - 20.89
> 20.89

Data Bounds

X: min & max
642438.19
642724.78

Y: min & max
3635414.88
3636157.68



3 to 4 ft. (autoscale)

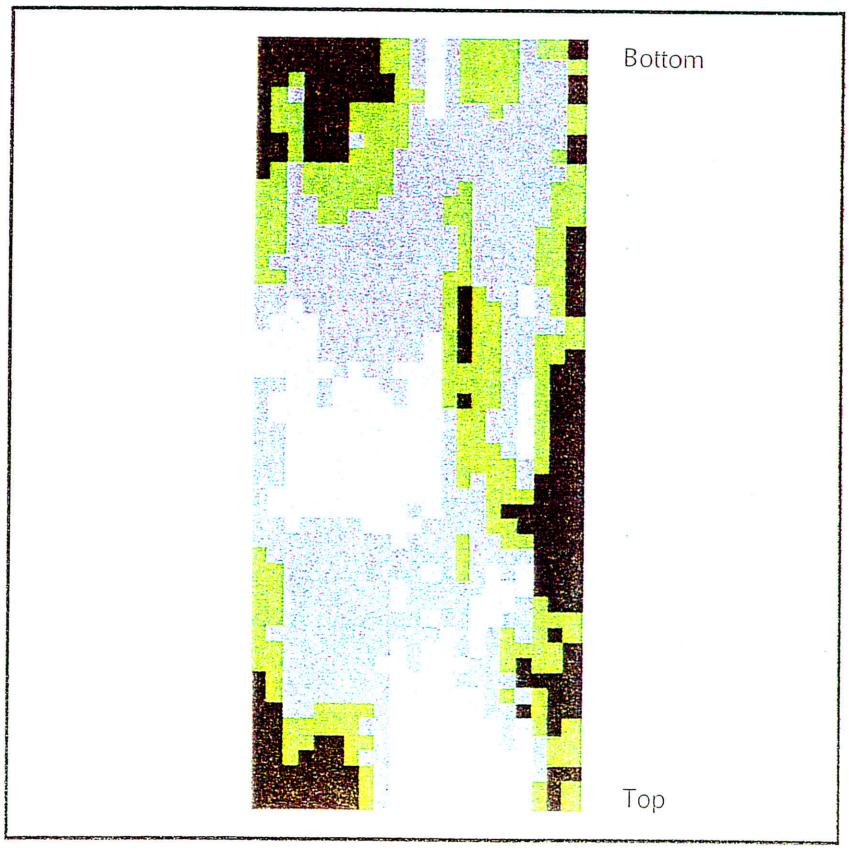
ECe(3.5)
dS/m

< 5.95
5.95 - 10.38
10.38 - 14.82
> 14.82

Data Bounds

X: min & max
642438.19
642724.78

Y: min & max
3635414.88
3636157.68



Field No. 5 - Avg. ECe in 4 ft. Profile (autoscale)

ECe(ave)
dS/m

< 4.91

4.91 - 8.14

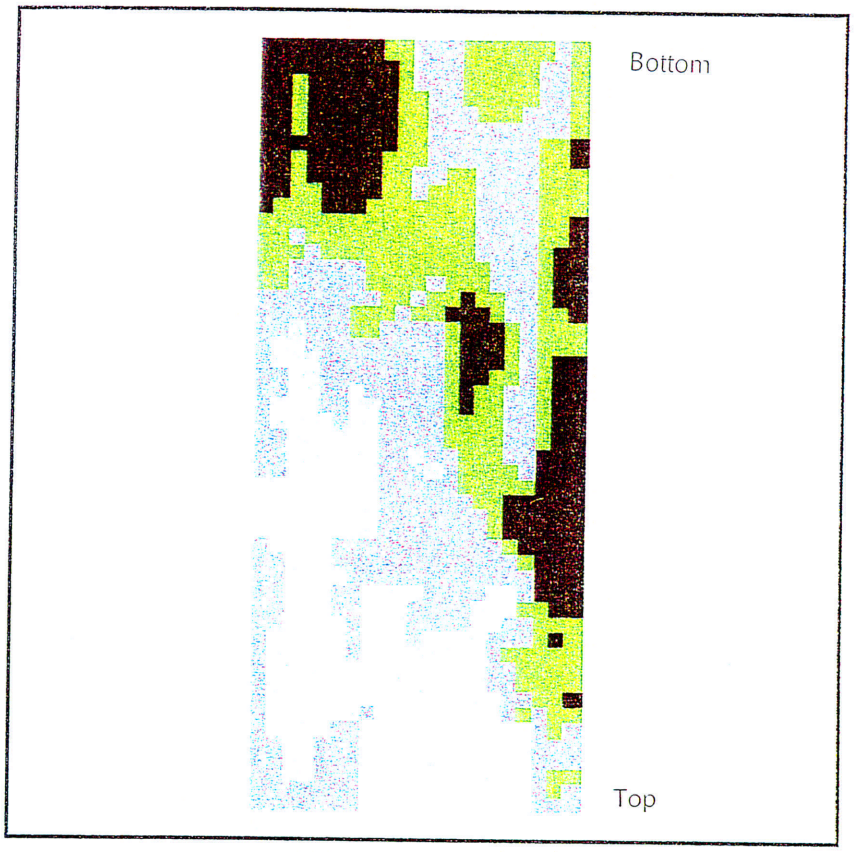
8.14 - 11.38

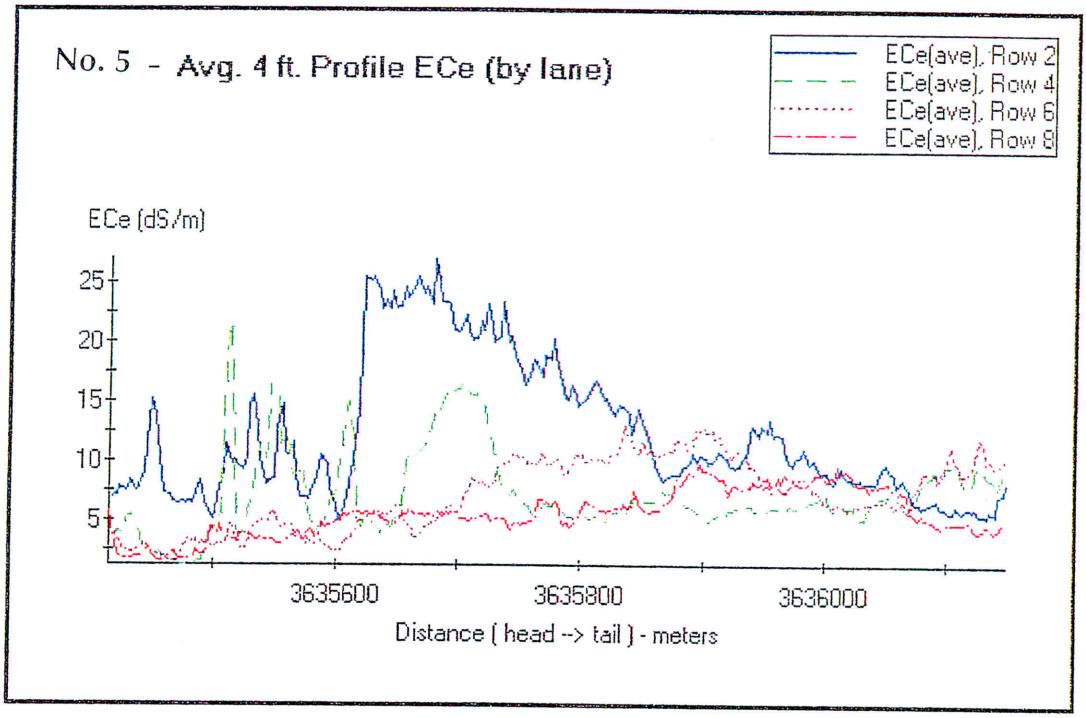
> 11.38

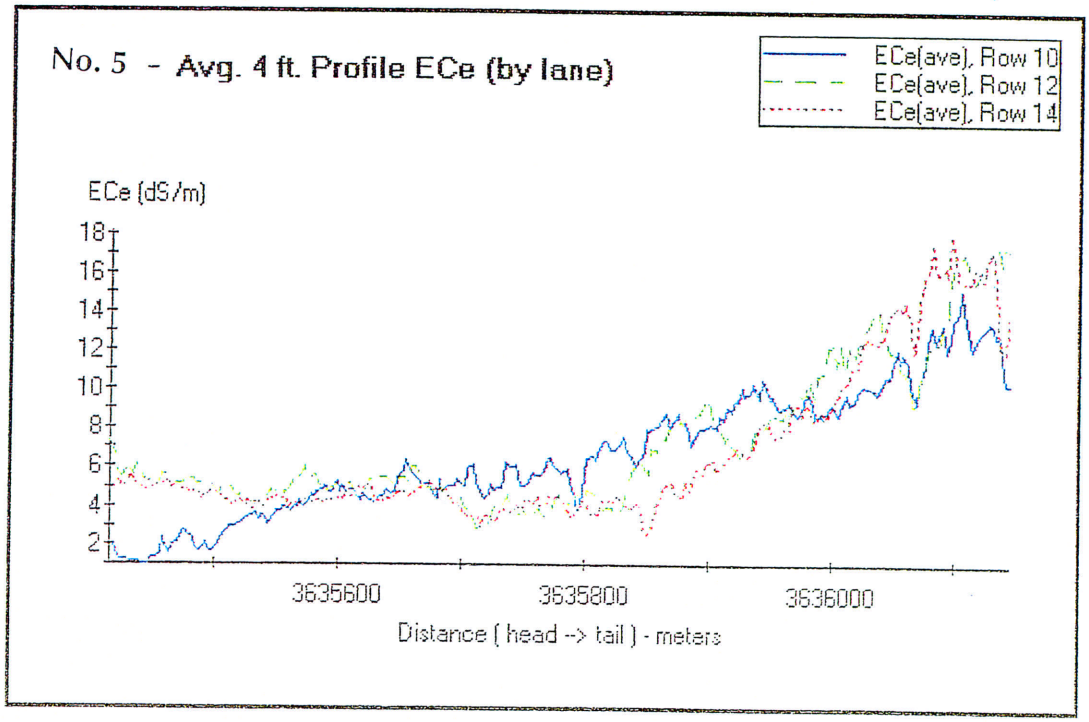
Data Bounds

X: min & max
642438.19
642724.78

Y: min & max
3635414.88
3636157.68




No. 5 - Avg. 4 ft. Profile ECe (by lane)
ECe(ave), Row 2
ECe(ave), Row 4
ECe(ave), Row 6
ECe(ave), Row 8
ECe (dS/m)
25
20
15
10
5
3635600
3635800
3636000
Distance (head --> tail) - meters


No. 5 - Avg. 4 ft. Profile ECe (by lane)
ECe(ave), Row 10
ECe(ave), Row 12
ECe(ave), Row 14
ECe (dS/m)
18
16
14
12
10
8
6
4
2
3635600
3635800
3636000
Distance (head --> tail) - meters

Field No. 6

Field Irrigation Evaluation

Data Summary

FIELD IRRIGATION EVALUATION FOR IMPERIAL IRRIGATION DISTRICT IMPERIAL VALLEY, CALIFORNIA. FIELD NO. 6

FIELD DATA

Irrigated Acreage: 76 acres (ac)
Border Length: 2450 feet (ft)
Border Width: 130 ft
Border Slope: Average, 0.002533 ft/ft

CROP DATA

Crop: Sudan Grass, planted in February 2000 following Carrots.
Crop Growth Stage: 34 inches (in) in height
Crop Condition: Good

SOILS DATA

Soil Texture: Holtville silty clay (40%); Imperial silty clay (40%); Meloland very fine sandy loam (20%).
Soil Depth: > 4ft
Soil Uniformity: Average to good
Effective Crop Rooting Depth: 4 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: 4.20 in.
Estimated Irrigation Water Stored in Root Zone:
Average: 4.15 in.

IRRIGATION DATA

Irrigation Method: Borders with gated outlets from concrete-lined head ditch.
Field and Soil Condition: There is a lot of variability in the field soils. Previous irrigation on June 30, 2000.

Beginning Irrigation Time: July 13, 2000, 8:30 a.m.
Ending Irrigation Time: July 15, 2000, 8:30 a.m
Beginning Outflow Time: July 13, about 4 p.m.
Ending Outflow Time: July 15, about 3 p.m.
Average Inflow: 8.3 cubic feet per second (cfs)
Average Outflow: 0.97 cfs.
Data logger was not installed at beginning of irrigation

Number of Sets: 5
Set Time: 4.5 hours.
Advance Time: 6.8 to 7.4 hours
Uniformity of Advance: Near constant rate of advance. Quite uniform
Number of Borders per Set: 1 or 2

Irrigation Observations: Water did not make it to the bottom of a few borders.
Uniformity: Below average.
Ponding: At the bottom of the field, near the tailwater box.
Erosion: None
Estimated Irrigation Efficiency: 88 %.

Irrigation Summary		
	Average Depth[1], in	Percent of Applied Water, %
Total Water Applied	5.20	
Total Water Stored in Root Zone	4.15	79
Total Runoff	0.60	12
Total Deep Percolation	0.45	9

[1]Depth based on field irrigated acreage.

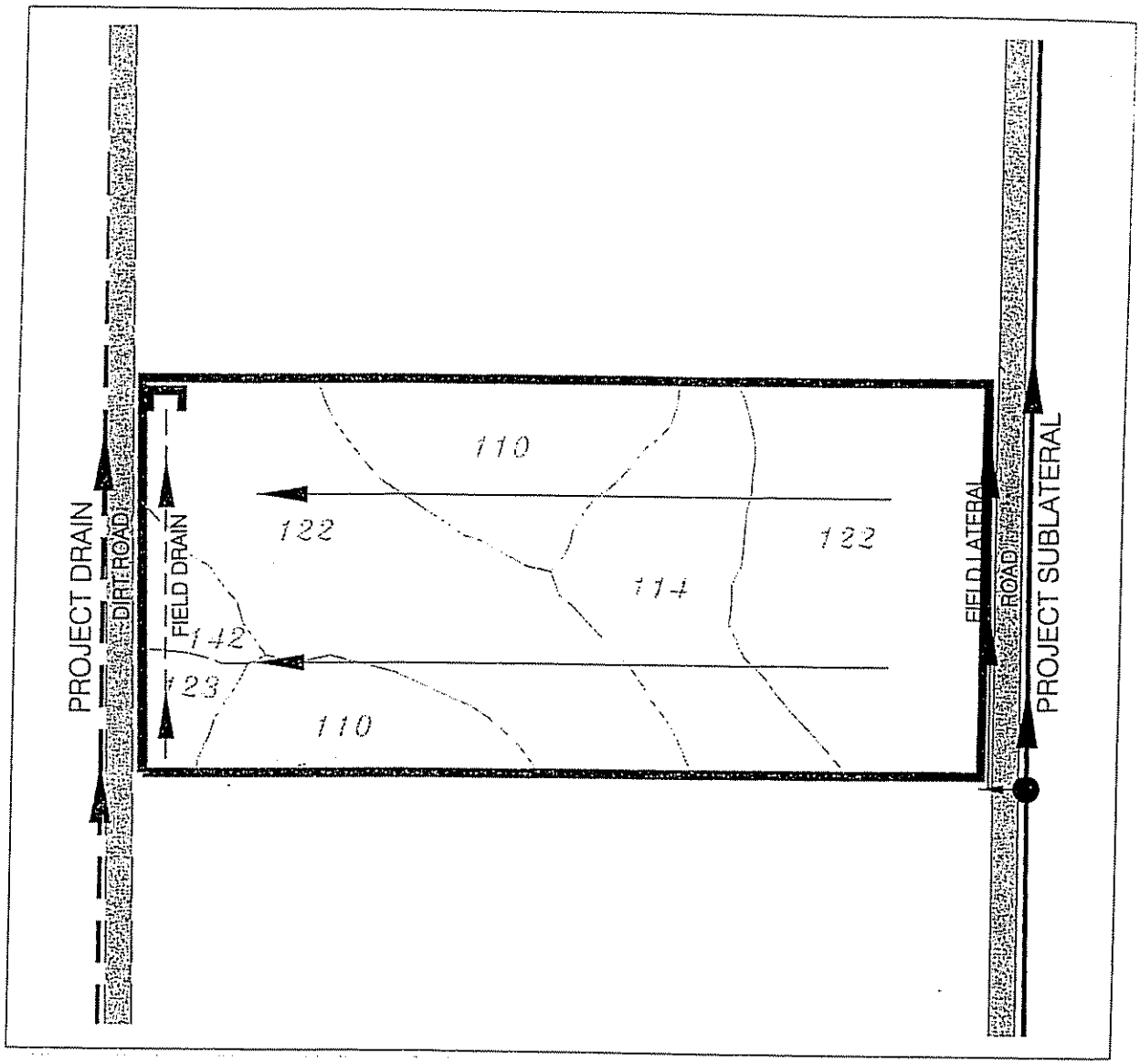
Field No.6 - Irrigation and Cropping History

Cropped Area: 76 ac

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Alfalfa, flat	1/11/97		12	11.9	11.9	3.73	3.73
Alfalfa, flat	2/8/97	28	10	9.7	9.7	3.04	3.04
Alfalfa, flat	2/25/97	17	11	10.9	10.9	3.41	3.41
Alfalfa, flat	3/22/97	25	12	11.8	11.8	3.70	3.70
Alfalfa, flat	4/2/97	11	11	9.7	9.7	3.04	3.04
Alfalfa, flat	4/20/97	18	12	11.2	11.2	3.51	3.51
Alfalfa, flat	4/30/97	10	12	11.9	11.9	3.73	3.73
Alfalfa, flat	5/17/97	17	6	6.1	6.1	1.91	1.91
Alfalfa, flat	5/28/97	11	12	11.2	11.2	3.51	
Alfalfa, flat	5/29/97	1	12	12.8	12.8	4.01	7.52
Alfalfa, flat	6/16/97	18	13	11.9	11.9	3.73	3.73
Alfalfa, seed	7/20/97	34	13	12.9	12.9	4.04	4.04
Alfalfa, flat	10/31/97	103	13	14.8	14.8	4.64	4.64
Alfalfa, flat	11/20/97	20	10	10	10	3.13	3.13
Alfalfa, flat	1/17/98	58	10	11.5	11.5	3.60	3.60
Alfalfa, flat	2/14/98	28	11	10.6	10.6	3.32	3.32
Alfalfa, flat	3/15/98	29	12	11.9	11.9	3.73	3.73
Alfalfa, flat	3/26/98	11	12	12.2	12.2	3.82	3.82
Alfalfa, flat	4/19/98	24	12	11.8	11.8	3.70	
Alfalfa, flat	4/20/98	1	5	5	5	1.57	5.26
Alfalfa, flat	4/29/98	9	12	12.2	12.2	3.82	3.82
Alfalfa, flat	5/9/98	10	12	11.9	11.9	3.73	3.73
Alfalfa, flat	5/27/98	18	14	14	14	4.38	
Alfalfa, flat	5/28/98	1	5	5.1	5.1	1.60	5.98
Alfalfa, flat	6/15/98	18	13	13.1	13.1	4.10	4.10
Alfalfa, flat	7/4/98	19	8	6.5	8	2.51	2.51
Alfalfa, seed	7/19/98	15	14	12.9	12.9	4.04	
Alfalfa, seed	7/20/98	1	1.5	1.8	1.8	0.56	4.60
Flooding, Flat	9/4/98	46	12	12.2	12.2	3.82	
Flooding, Flat	9/5/98	1	12	12.2	12.2	3.82	
Flooding, Flat	9/6/98	1	12	12.2	12.2	3.82	**11.46**
Carrots	10/11/98	35	5	4.6	4.6	1.44	
Carrots	10/12/98	1	5	3.9	5	1.57	
Carrots	10/13/98	1	5	4.5	5	1.57	4.57
Carrots	10/15/98	2	5	5.1	5.1	1.60	1.60
Carrots	10/17/98	2	5	2.5	2.5	0.78	0.78
Carrots	10/19/98	2	5	1.7	2.5	0.78	0.78
Carrots	10/21/98	2	5	2.1	2.5	0.78	0.78
Carrots	10/23/98	2	5	1.3	2.5	0.78	0.78
Carrots	11/9/98	17	7	7	7	2.19	
Carrots	11/10/98	1	7	7.3	7.3	2.29	
Carrots	11/11/98	1	7	6.9	6.9	2.16	6.64
Carrots	12/17/98	36	7	7	7	2.19	

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Carrots	12/18/98	1	7	7.1	7.1	2.22	4.42
Carrots	1/15/99	28	6	6.3	6.3	1.97	
Carrots	1/16/99	1	6	6	6	1.88	3.85
Carrots	2/11/99	26	5	5.1	5.1	1.60	
Carrots	2/12/99	1	5	4.9	4.9	1.53	3.13
Sudan Grass	3/26/99	42	12	10.5	10.5	3.29	
Sudan Grass	3/27/99	1	12	12.4	12.4	3.88	7.17
Sudan Grass	4/18/99	22	12	12.1	12.1	3.79	3.79
Sudan Grass	5/2/99	14	8	9.6	9.6	3.01	
Sudan Grass	5/3/99	1	12	11.9	11.9	3.73	6.73
Sudan Grass	5/17/99	14	5	3.3	3.3	1.03	
Sudan Grass	5/18/99	1	12	12.1	12.1	3.79	
Sudan Grass	5/19/99	1	2	0.9	0.9	0.28	5.10
Sudan Grass	6/9/99	21	12	11.9	11.9	3.73	
Sudan Grass	6/10/99	1	12	12.2	12.2	3.82	7.55
Sudan Grass	6/20/99	10	14	13.9	13.9	4.35	4.35
Flooding, Flat	8/6/99	47	12	12.3	12.3	3.85	
Flooding, Flat	8/7/99	1	12	10.9	10.9	3.41	
Flooding, Flat	8/8/99	1	12	4.4	12	3.76	**11.02**
Idle	10/17/99	70	5	4.5	5	1.57	
Carrots	10/18/99	1	5	4.2	5	1.57	
Carrots	10/19/99	1	5	4	5	1.57	4.70
Carrots	10/21/99	2	5	1.9	2.5	0.78	0.78
Carrots	10/23/99	2	5	2.1	2.5	0.78	0.78
Carrots	10/25/99	2	5	1.9	1.9	0.60	0.60
Carrots	10/27/99	2	5	1.9	1.9	0.60	0.60
Carrots	11/11/99	15	7	7	7	2.19	2.19
Carrots	11/12/99	1	7	7	7	2.19	2.19
Carrots	11/13/99	1	7	7	7	2.19	2.19
Carrots	11/14/99	1	5	5.1	5.1	1.60	1.60
Carrots	1/2/00	49	7	7	7	2.19	
Carrots	1/3/00	1	7	7	7	2.19	
Carrots	1/4/00	1	7	7	7	2.19	6.58
Sudan Grass	2/13/00	40	6	5.9	5.9	1.85	
Sudan Grass	2/14/00	1	6	5.9	5.9	1.85	
Sudan Grass	2/15/00	1	5	4.9	4.9	1.53	5.23
Sudan Grass	3/3/00	17	6	5.9	5.9	1.85	
Sudan Grass	3/4/00	1	7	6.9	6.9	2.16	
Sudan Grass	3/5/00	1	5	1	2.5	0.78	4.79
Sudan Grass	3/21/00	16	6	6.1	6	1.88	
Sudan Grass	3/22/00	1	7	7.4	7.4	2.32	4.20
Sudan Grass	4/5/00	14	7	7	7	2.19	
Sudan Grass	4/6/00	1	7	7	7	2.19	
Sudan Grass	4/7/00	1	5	5	5	1.57	5.95
Sudan Grass	4/24/00	17	13	13.1	13.1	4.10	4.10
Sudan Grass	5/3/00	9	12	12	12	3.76	
Sudan Grass	5/4/00	1	12	6.2	6.2	1.94	5.70

Crop	Delivery Date	Interval (days)	Order (cfs)	Delivered (cfs)	Charged (cfs)	Water Applied (in)	Total Irrigation Applied (in)
Sudan Grass	5/18/00	14	14	15	15	4.70	4.70
Sudan Grass	5/29/00	11	14	13.9	13.9	4.35	4.35
Sudan Grass	6/8/00	10	4	10.5	10.5	3.29	
Sudan Grass	6/9/00	1	10	10.2	14	4.38	7.67
Sudan Grass	6/29/00	20	15	16.1	16.1	5.04	
Sudan Grass	6/30/00	1	5	6	6	1.88	6.92
Sudan Grass	7/13/00	13	14	13.9	13.9	4.35	
Sudan Grass	7/14/00	1	4	5.9	5.9	1.85	6.20
Sudan Grass	7/23/00	9	14	14	14	4.38	



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

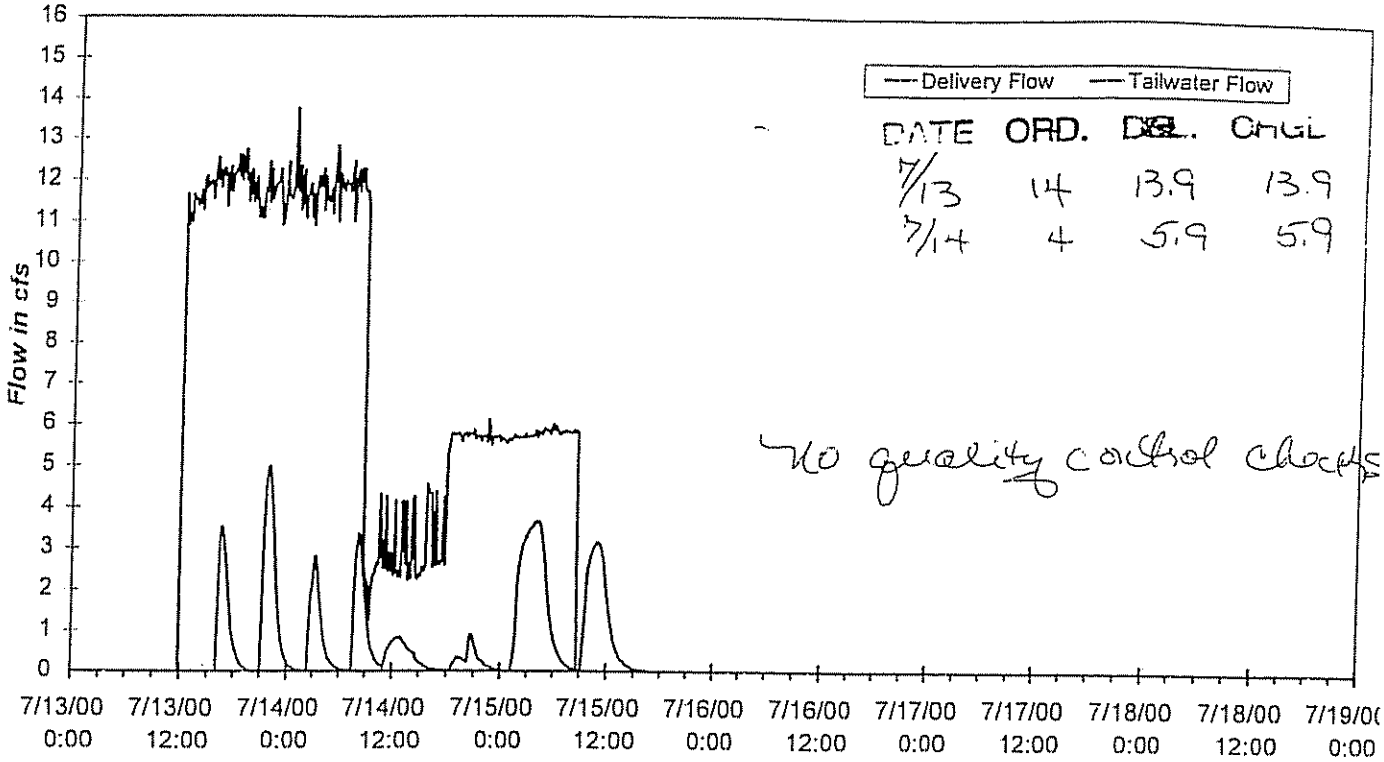
N

NRCE®

SEPTEMBER 2000

Field No. 6 Layout

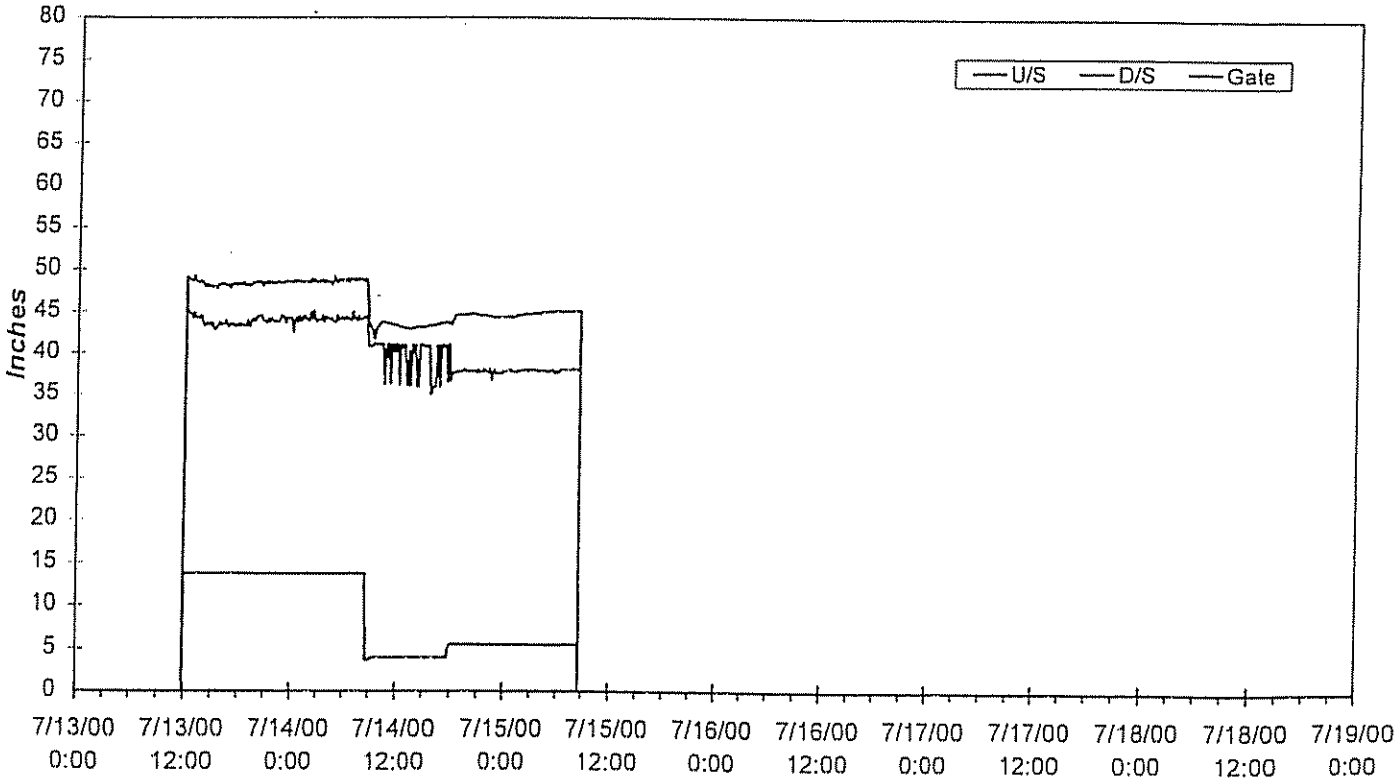
Delivery and Tailwater Flow for Parcel No.6



DATE	ORD.	DEL.	CHGL
7/13	14	13.9	13.9
7/14	4	5.9	5.9

No quality control checks

U/S, D/S, and Gate Opening



Order = 1d-14', 1d-4' Delivery Volume (AF) = 29.4 % Ta ater= 13% Acres = 76

Soil Type = 0 Tailwater Volume (AF)= 3.8 op = Sudangrass Inches Applied= 4.6