

# GRASSLAND BYPASS PROJECT

## QUARTERLY DATA REPORT

October, November and December 2002

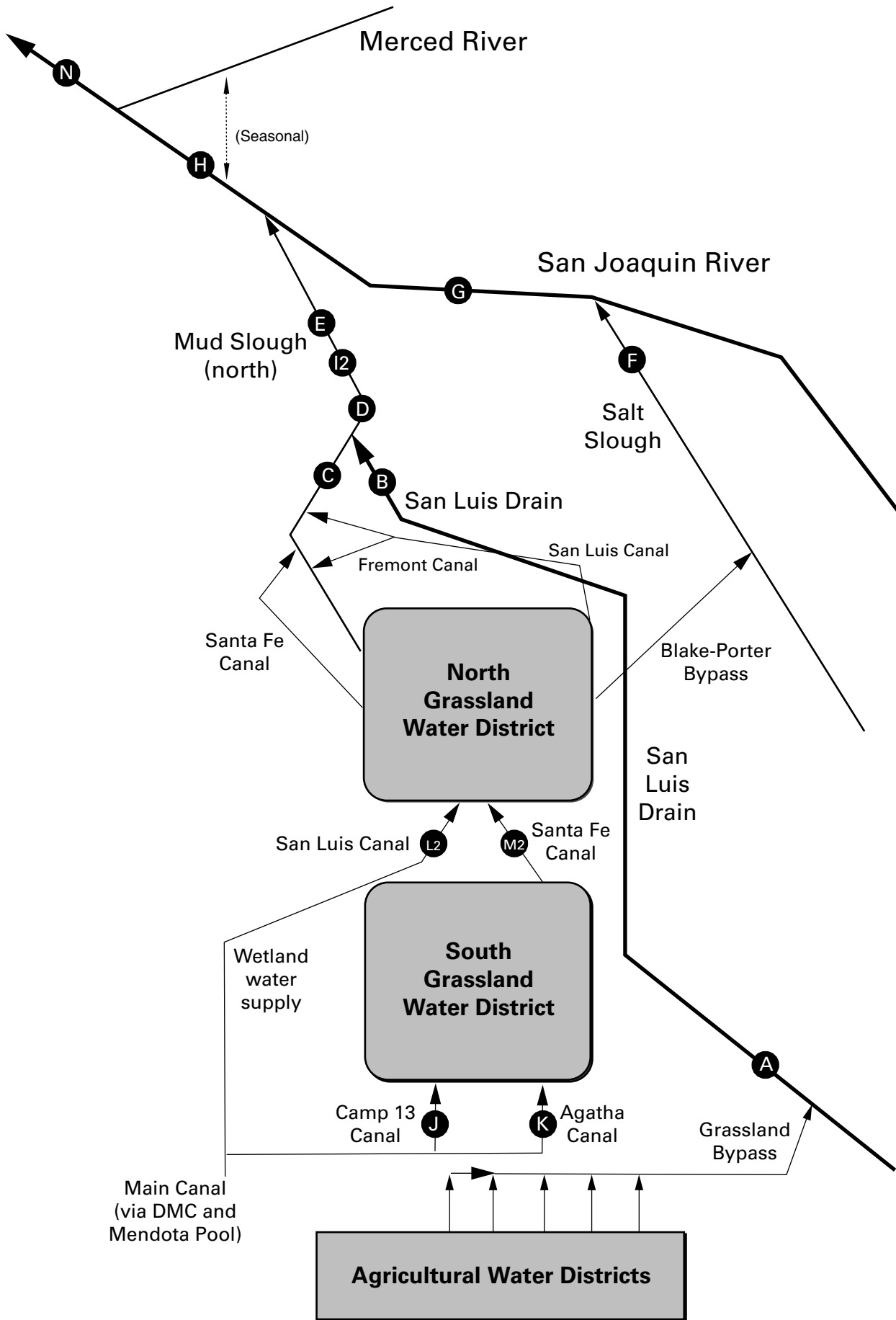
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A cooperative effort of:

U.S. Bureau of Reclamation  
Central Valley Regional Water Quality Control Board  
U.S. Fish and Wildlife Service  
California Department of Fish and Game  
San Luis & Delta-Mendota Water Authority  
U.S. Environmental Protection Agency  
U.S. Geological Survey

compiled by San Francisco Estuary Institute





## GRASSLAND BYPASS PROJECT

## QUARTERLY DATA REPORT

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**Table 1. Continuous water monitoring at Station A (inflow to San Luis Drain), October, November, December 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Specific Conductance	Flow	Specific Conductance	Flow	Specific Conductance
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	cfs	µS/cm	cfs	µS/cm	cfs	µS/cm
Month	October	October	November	November	December	December
Day 1	12	5,850	14	5,520	17	4,720
Day 2	11	6,110	14	5,520	18	4,820
Day 3	10	6,250	15	5,300	17	5,080
Day 4	10	6,100	16	5,170	19	5,100
Day 5	12	5,910	16	4,980	19	5,000
Day 6	14	5,900	15	4,890	21	5,000
Day 7	14	4,830	17	4,910	20	5,100
Day 8	16	4,660	22	4,740	19	5,060
Day 9	18	3,980	23	4,120	19	5,090
Day 10	18	4,000	20	3,920	19	4,850
Day 11	17	4,030	16	4,220	20	4,910
Day 12	14	4,300	14	4,790	19	5,020
Day 13	13	4,550	14	4,910	19	4,860
Day 14	12	4,590	14	5,000	21	4,770
Day 15	13	4,530	16	4,860	20	3,680
Day 16	17	4,560	16	4,990	24	4,720
Day 17	22	4,210	16	4,570	30	4,300
Day 18	20	3,920	16	4,590	23	4,640
Day 19	15	4,620	14	4,510	20	4,750
Day 20	15	4,880	9	5,100	22	4,290
Day 21	15	4,990	10	5,160	17	4,580
Day 22	16	5,210	9	5,140	15	5,180
Day 23	15	5,370	9	4,970	16	5,350
Day 24	15	5,450	8	4,910	20	5,110
Day 25	15	5,350	8	4,820	13	5,340
Day 26	15	5,320	8	4,870	12	5,290
Day 27	15	5,350	15	5,080	11	5,250
Day 28	14	5,340	16	5,010	10	5,110
Day 29	14	5,340	16	4,830	11	5,040
Day 30	14	5,260	17	4,710	12	5,220
Day 31	13	5,460	.	.	21	4,590
Mean	15	5,040	15	4,870	18	4,900

Table 2. Continuous water monitoring at Station B (discharge from San Luis Drain), October 2002.

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Boron	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	USGS	USGS	CVRWQCB	CVRWQCB	CVRWQCB	Computed
UNITS	cfs	°C	mg/L	µS/cm	µg/L	lbs
Oct-01-2002	19	19.7	8.9	5,000	64.4	6.6
Oct-02-2002	17	16.6	8.7	4,860	57.2	5.2
Oct-03-2002	16	16.5	9.0	4,990	67.0	5.8
Oct-04-2002	13	17.8	9.4	5,180	69.8	4.9
Oct-05-2002	13	19.0	8.7	4,980	74.1	5.2
Oct-06-2002	14	20.2	8.2	4,820	85.4	6.4
Oct-07-2002	16	21.0	7.8	4,530	66.8	5.8
Oct-08-2002	17	21.7	8.0	4,520	50.6	4.6
Oct-09-2002	19	22.0	8.5	4,850	57.7	5.9
Oct-10-2002	22	21.7	8.2	4,840	57.2	6.8
Oct-11-2002	18	20.7	8.6	5,310	67.9	6.6
Oct-12-2002	22	20.3	9.1	5,460	67.5	8.0
Oct-13-2002	19	20.3	9.2	5,470	68.2	7.0
Oct-14-2002	20	20.7	9.2	5,360	81.9	8.8
Oct-15-2002	18	20.4	8.1	4,680	62.1	6.0
Oct-16-2002	20	19.8	7.2	4,320	51.8	5.6
Oct-17-2002	22	19.0	6.4	3,910	45.0	5.3
Oct-18-2002	28	18.5	5.9	3,850	56.9	8.6
Oct-19-2002	27	18.2	6.1	3,890	51.6	7.5
Oct-20-2002	23	18.4	6.6	4,130	52.4	6.5
Oct-21-2002	22	18.8	6.3	4,170	46.4	5.5
Oct-22-2002	22	18.7	6.6	4,290	54.2	6.4
Oct-23-2002	23	18.4	6.5	4,200	67.6	8.4
Oct-24-2002	23	17.2	6.3	4,120	77.5	9.6
Oct-25-2002	22	17.1	5.9	3,790	60.0	7.1
Oct-26-2002	22	17.1	6.6	4,130	70.0	8.3
Oct-27-2002	22	17.0	7.1	4,390	71.2	8.4
Oct-28-2002	22	16.9	7.2	4,470	74.4	8.8
Oct-29-2002	21	17.0	7.6	4,570	70.8	8.0
Oct-30-2002	21	16.7	7.5	4,580	74.6	8.4
Oct-31-2002	22	15.7	8.1	4,690	79.0	9.4
Mean	20	18.8	7.7	4,590	64.6	
<b>Total Acre-feet</b>	<b>1,240</b>				<b>Total (lbs)</b>	<b>216</b>

<b>Load Limitation for October 2002</b>	<b>(lbs)</b>	<b>308</b>
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**Table 2. Continuous water monitoring at Station B (discharge from San Luis Drain), November 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Boron	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	USGS	USGS	CVRWQCB	CVRWQCB	CVRWQCB	Computed
UNITS	cfs	°C	mg/L	µS/cm	µg/L	lbs
Nov-01-2002	20	14.8	7.9	4,690	81.5	8.8
Nov-02-2002	19	14.2	8.0	4,670	79.8	8.2
Nov-03-2002	20	14.0	8.0	4,680	83.1	9.0
Nov-04-2002	21	13.9	7.8	4,670	78.2	8.9
Nov-05-2002	22	14.1	7.8	4,670	77.4	9.2
Nov-06-2002	22	14.1	7.6	4,670	77.0	9.1
Nov-07-2002	17	14.5	7.6	4,500	68.0	6.2
Nov-08-2002	24	15.2	7.5	4,710	77.6	10.0
Nov-09-2002	27	15.9	7.1	4,650	81.6	11.9
Nov-10-2002	29	15.8	7.3	4,620	70.7	11.1
Nov-11-2002	27	15.7	6.9	4,390	67.0	9.8
Nov-12-2002	21	15.8	6.5	4,380	68.1	7.7
Nov-13-2002	23	15.8	6.4	4,340	68.4	8.5
Nov-14-2002	21	15.7	6.8	4,460	70.7	8.0
Nov-15-2002	21	15.0	6.2	4,270	78.5	8.9
Nov-16-2002	18	14.8	5.5	3,940	63.6	6.2
Nov-17-2002	21	14.5	5.2	3,880	62.1	7.0
Nov-18-2002	20	14.0	5.2	3,710	56.8	6.1
Nov-19-2002	20	14.0	5.5	3,950	55.3	6.0
Nov-20-2002	19	14.0	6.0	4,370	62.4	6.4
Nov-21-2002	15	13.8	5.9	4,310	64.0	5.2
Nov-22-2002	14	14.1	7.0	4,540	65.0	4.9
Nov-23-2002	14	14.1	7.2	4,550	71.4	5.4
Nov-24-2002	13	14.1	6.9	4,440	76.8	5.4
Nov-25-2002	13	13.9	7.1	4,500	80.2	5.6
Nov-26-2002	12	13.1	7.8	4,240	62.9	4.1
Nov-27-2002	12	12.4	7.1	4,180	60.9	3.9
Nov-28-2002	15	11.8	7.2	4,190	61.8	5.0
Nov-29-2002	19	11.9	6.7	4,000	53.9	5.5
Nov-30-2002	19	11.7	7.5	4,120	42.7	4.4
.	.	.	.	.	.	.
Mean	19	14.2	6.9	4,380	68.9	
<b>Total Acre-feet</b>	<b>1,150</b>				<b>Total (lbs)</b>	<b>216</b>

<b>Load Limitation for November 2002</b>	<b>(lbs)</b>	<b>308</b>
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**Table 2. Continuous water monitoring at Station B (discharge from San Luis Drain), December 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Boron	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	USGS	USGS	CVRWQCB	CVRWQCB	CVRWQCB	Computed
UNITS	cfs	°C	mg/L	µS/cm	µg/L	lbs
Dec-01-2002	21	11.8	7.5	4,410	42.7	4.8
Dec-02-2002	21	11.9	7.5	4,340	44.6	5.1
Dec-03-2002	21	11.8	6.9	4,220	39.6	4.5
Dec-04-2002	21	11.7	7.6	4,390	41.3	4.7
Dec-05-2002	22	11.4	7.9	4,790	82.2	9.8
Dec-06-2002	23	11.1	7.7	4,660	76.3	9.5
Dec-07-2002	24	11.3	7.2	4,630	75.4	9.8
Dec-08-2002	23	11.3	7.5	4,710	80.3	10.0
Dec-09-2002	23	11.3	7.9	4,610	74.0	9.2
Dec-10-2002	22	11.3	7.8	4,720	69.1	8.2
Dec-11-2002	22	11.2	7.4	4,690	64.8	7.7
Dec-12-2002	22	11.3	7.3	4,750	67.6	8.0
Dec-13-2002	21	11.0	7.4	4,790	78.6	8.9
Dec-14-2002	20	11.4	7.4	4,790	72.2	7.8
Dec-15-2002	21	11.3	7.3	4,810	81.2	9.2
Dec-16-2002	26	11.4	6.6	4,590	82.2	11.5
Dec-17-2002	31	11.3	6.8	4,470	73.1	12.2
Dec-18-2002	35	11.1	7.0	4,520	72.2	13.6
Dec-19-2002	27	9.6	7.5	4,460	68.7	10.0
Dec-20-2002	33	9.4	7.3	4,460	77.7	13.8
Dec-21-2002	30	9.9	7.1	4,370	66.0	10.7
Dec-22-2002	26	9.9	6.4	4,080	72.5	10.2
Dec-23-2002	20	9.2	6.4	4,090	66.7	7.2
Dec-24-2002	20	8.7	6.5	4,200	66.4	7.2
Dec-25-2002	18	8.2	6.4	4,110	58.2	5.7
Dec-26-2002	16	8.5	6.3	3,990	41.6	3.6
Dec-27-2002	14	9.7	5.7	3,840	35.0	2.6
Dec-28-2002	11	10.2	6.5	4,090	37.1	2.2
Dec-29-2002	15	10.2	6.7	4,350	45.5	3.7
Dec-30-2002	16	10.0	7.3	4,620	46.9	4.0
Dec-31-2002	19	9.9	7.1	4,500	59.8	6.1
Mean	22	10.6	7.1	4,450	63.2	
<b>Total Acre-feet</b>	<b>1,360</b>				<b>Total (lbs)</b>	<b>241</b>

<b>Load Limitation for December 2002</b>	<b>(lbs)</b>	<b>334</b>
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Figure 2b. Monthly selenium discharges from the terminus of the San Luis Drain into Mud Slough compared to load values.

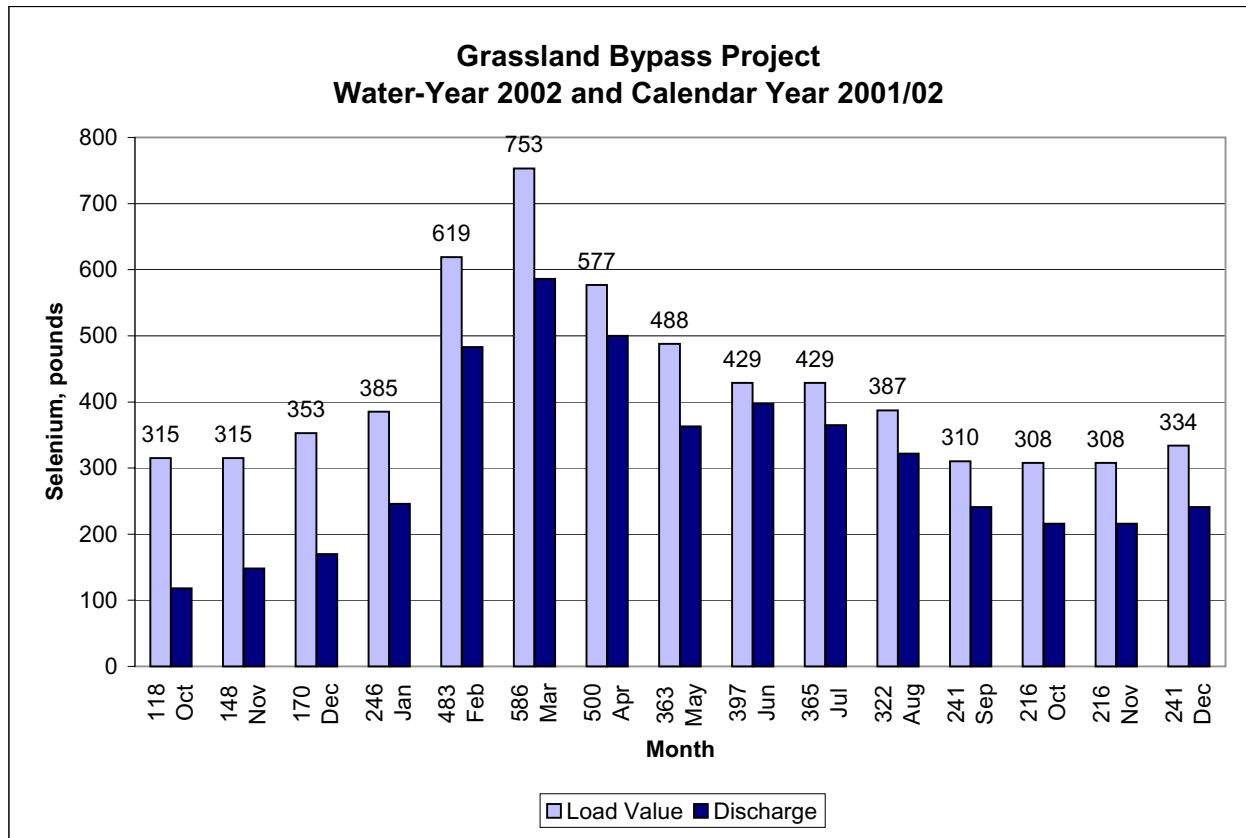


Table 2b. Monthly selenium discharges from the terminus of the San Luis Drain into Mud Slough compared to load values.

PARAMETER	Discharge	Load Value
UNITS	lbs	lbs
Oct	118	315
Nov	148	315
Dec	170	353
Jan	246	385
Feb	483	619
Mar	586	753
Apr	500	577
May	363	488
Jun	397	429
Jul	365	429
Aug	322	387
Sep	241	310
Oct	216	308
Nov	216	308
Dec	241	334



**Table 3. Continuous water monitoring at Station D  
(Mud Slough North downstream of drainage discharges), October 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Oct-01-2002	39	18.8	2,760
Oct-02-2002	38	16.0	2,740
Oct-03-2002	41	16.4	2,700
Oct-04-2002	40	18.0	2,540
Oct-05-2002	39	19.1	2,590
Oct-06-2002	40	20.2	2,630
Oct-07-2002	39	21.1	2,770
Oct-08-2002	39	21.7	2,770
Oct-09-2002	40	21.7	2,850
Oct-10-2002	41	21.2	3,010
Oct-11-2002	45	19.8	2,590
Oct-12-2002	54	19.2	2,750
Oct-13-2002	56	19.4	2,520
Oct-14-2002	71	19.7	2,240
Oct-15-2002	99	19.5	1,750
Oct-16-2002	137	18.8	1,480
Oct-17-2002	138	18.2	1,470
Oct-18-2002	119	17.9	1,730
Oct-19-2002	118	17.9	1,750
Oct-20-2002	108	18.2	1,780
Oct-21-2002	123	18.4	1,690
Oct-22-2002	148	18.4	1,590
Oct-23-2002	184	17.7	1,490
Oct-24-2002	193	16.6	1,460
Oct-25-2002	161	16.5	1,530
Oct-26-2002	161	16.6	1,550
Oct-27-2002	161	16.6	1,630
Oct-28-2002	154 e	NA	NA
Oct-29-2002	145 e	NA	NA
Oct-30-2002	138 e	NA	NA
Oct-31-2002	132 e	NA	NA
Mean	98	18.7	2,160

**Table 3. Continuous water monitoring at Station D  
(Mud Slough North downstream of drainage discharges), November 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Nov-01-2002	124 e	NA	NA
Nov-02-2002	122	13.3	1,910
Nov-03-2002	119	13.4	1,960
Nov-04-2002	120	13.5	1,980
Nov-05-2002	126	13.9	1,950
Nov-06-2002	131	14.0	1,930
Nov-07-2002	137	14.6	1,880
Nov-08-2002	207	15.2	1,650
Nov-09-2002	265	16.0	1,570
Nov-10-2002	272	15.5	1,610
Nov-11-2002	267	15.4	1,590
Nov-12-2002	257	15.4	1,540
Nov-13-2002	239	15.5	1,600
Nov-14-2002	219	15.1	1,700
Nov-15-2002	196	14.2	1,800
Nov-16-2002	179	14.0	1,790
Nov-17-2002	168	13.9	1,840
Nov-18-2002	157	13.4	1,900
Nov-19-2002	145	13.5	1,950
Nov-20-2002	147	13.6	1,930
Nov-21-2002	142	13.4	1,890
Nov-22-2002	132	14.0	1,930
Nov-23-2002	114	14.0	2,060
Nov-24-2002	107	13.9	2,080
Nov-25-2002	98	13.6	2,140
Nov-26-2002	93	12.4	2,140
Nov-27-2002	86	11.7	2,150
Nov-28-2002	88	11.4	2,190
Nov-29-2002	91	11.7	2,250
Nov-30-2002	94	11.4	2,240
.	.	.	.
Mean	155	13.8	1,900

**Table 3. Continuous water monitoring at Station D  
(Mud Slough North downstream of drainage discharges), December 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Dec-01-2002	95	11.7	2,320
Dec-02-2002	96	11.9	2,340
Dec-03-2002	95	11.8	2,340
Dec-04-2002	94	11.8	2,370
Dec-05-2002	100	11.4	2,430
Dec-06-2002	103	11.1	2,430
Dec-07-2002	112	11.4	2,380
Dec-08-2002	116	11.3	2,330
Dec-09-2002	121	11.3	2,290
Dec-10-2002	131	11.3	2,180
Dec-11-2002	140	11.2	2,150
Dec-12-2002	143	11.4	2,160
Dec-13-2002	147	10.8	2,160
Dec-14-2002	158	11.7	2,130
Dec-15-2002	165	11.4	2,130
Dec-16-2002	202	11.7	2,130
Dec-17-2002	254	11.4	1,960
Dec-18-2002	277	10.7	1,980
Dec-19-2002	285	9.2	1,920
Dec-20-2002	357	8.9	1,840
Dec-21-2002	416	9.7	1,690
Dec-22-2002	467	9.5	1,630
Dec-23-2002	511	9.0	1,470
Dec-24-2002	496	8.5	1,500
Dec-25-2002	478	7.9	1,520
Dec-26-2002	461	8.5	1,500
Dec-27-2002	441	10.0	1,500
Dec-28-2002	395	10.6	1,630
Dec-29-2002	309	10.3	1,810
Dec-30-2002	262	10.0	1,860
Dec-31-2002	255	10.0	1,890
Mean	248	10.6	2,000

**Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), October 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Oct-01-2002	87	18.3	1,200
Oct-02-2002	76	15.8	1,270
Oct-03-2002	88	16.5	1,190
Oct-04-2002	84	18.2	1,150
Oct-05-2002	72	19.4	1,230
Oct-06-2002	66	20.5	1,260
Oct-07-2002	72	21.3	1,230
Oct-08-2002	69	21.8	1,160
Oct-09-2002	51	21.9	1,290
Oct-10-2002	53	21.1	1,400
Oct-11-2002	64	19.3	1,350
Oct-12-2002	68	18.9	1,300
Oct-13-2002	83	19.1	1,290
Oct-14-2002	85	19.4	1,300
Oct-15-2002	84	19.0	1,370
Oct-16-2002	93	18.1	1,390
Oct-17-2002	95	17.6	1,250
Oct-18-2002	92	17.4	1,300
Oct-19-2002	89	17.6	1,380
Oct-20-2002	91	18.0	1,390
Oct-21-2002	108	18.1	1,360
Oct-22-2002	112	18.0	1,340
Oct-23-2002	118	17.1	1,310
Oct-24-2002	140	16.0	1,210
Oct-25-2002	158	16.0	1,220
Oct-26-2002	156	16.0	1,260
Oct-27-2002	161	16.1	1,240
Oct-28-2002	174	16.1	1,220
Oct-29-2002	180	16.0	1,220
Oct-30-2002	168	15.5	1,280
Oct-31-2002	149	14.6	1,350
Mean	103	18.0	1,280

**Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), November 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Nov-01-2002	138	13.6	1,380
Nov-02-2002	132	13.0	1,430
Nov-03-2002	132	13.0	1,450
Nov-04-2002	138	13.0	1,420
Nov-05-2002	144	13.1	1,370
Nov-06-2002	151	13.2	1,330
Nov-07-2002	158	14.0	1,330
Nov-08-2002	197	15.0	1,300
Nov-09-2002	239	15.7	1,250
Nov-10-2002	260	15.3	1,230
Nov-11-2002	262	15.2	1,270
Nov-12-2002	265	15.1	1,290
Nov-13-2002	263	15.2	1,290
Nov-14-2002	240	14.9	1,350
Nov-15-2002	217	14.1	1,410
Nov-16-2002	214	13.8	1,410
Nov-17-2002	219	13.6	1,390
Nov-18-2002	222	13.1	1,380
Nov-19-2002	216	12.9	1,400
Nov-20-2002	206	13.1	1,430
Nov-21-2002	200	13.1	1,400
Nov-22-2002	203	13.6	1,350
Nov-23-2002	196	13.6	1,400
Nov-24-2002	173	13.5	1,470
Nov-25-2002	157	13.5	1,520
Nov-26-2002	150	12.6	1,530
Nov-27-2002	156	11.6	1,470
Nov-28-2002	150	11.2	1,500
Nov-29-2002	144	11.5	1,510
Nov-30-2002	137	11.4	1,540
.	.	.	.
Mean	189	13.5	1,390

**Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), December 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Dec-01-2002	137	11.9	1,540
Dec-02-2002	139	11.9	1,540
Dec-03-2002	146	11.7	1,490
Dec-04-2002	149	11.5	1,460
Dec-05-2002	147	11.2	1,480
Dec-06-2002	144	11.0	1,490
Dec-07-2002	146	11.4	1,490
Dec-08-2002	143	11.3	1,500
Dec-09-2002	142	11.3	1,510
Dec-10-2002	136	11.5	1,560
Dec-11-2002	134	11.5	1,580
Dec-12-2002	138	11.8	1,540
Dec-13-2002	148	11.3	1,490
Dec-14-2002	161	12.0	1,460
Dec-15-2002	179	11.7	1,420
Dec-16-2002	233	11.8	1,310
Dec-17-2002	197	11.6	1,300
Dec-18-2002	337	11.0	1,310
Dec-19-2002	351	9.6	1,350
Dec-20-2002	394	9.1	1,360
Dec-21-2002	454	9.6	1,350
Dec-22-2002	471	9.5	1,380
Dec-23-2002	452	8.9	1,420
Dec-24-2002	421	8.2	1,450
Dec-25-2002	394	7.5	1,460
Dec-26-2002	393	7.9	1,490
Dec-27-2002	385	9.2	1,500
Dec-28-2002	375	10.0	1,510
Dec-29-2002	362	10.2	1,500
Dec-30-2002	342	9.7	1,540
Dec-31-2002	331	9.9	1,560
Mean	261	10.5	1,460

**Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), October 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance	Selenium (total)
DATA SOURCE	usgs	usgs	cvrwqcb	cvrwqcb
UNITS	cfs	°C	µS/cm	µg/L
Oct-01-2002	365	18.9	1,240	2.9
Oct-02-2002	372	16.4	1,280	2.7
Oct-03-2002	341	16.9	1,190	2.2
Oct-04-2002	388	18.3	1,320	2.6
Oct-05-2002	382	19.2	1,290	3.0
Oct-06-2002	361	20.1	1,270	2.5
Oct-07-2002	373	20.9	1,260	2.5
Oct-08-2002	361	21.3	1,290	3.1
Oct-09-2002	343	21.5	1,280	3.2
Oct-10-2002	296	20.7	1,350	2.6
Oct-11-2002	297	19.4	1,460	3.0
Oct-12-2002	312	18.9	1,500	3.7
Oct-13-2002	373	18.8	1,440	3.2
Oct-14-2002	407	19.1	NA	NA
Oct-15-2002	409	18.9	1,240	2.8
Oct-16-2002	414	18.3	NA	NA
Oct-17-2002	572	18.0	NA	NA
Oct-18-2002	746	17.5	730	P
Oct-19-2002	895	17.0	598	P
Oct-20-2002	956	17.1	580	P
Oct-21-2002	1,010	17.1	553	1.2
Oct-22-2002	1,050	17.0	539	1.1
Oct-23-2002	1,090	16.6	540	1.0
Oct-24-2002	1,100	15.9	560	1.2
Oct-25-2002	1,080	15.8	590	1.5
Oct-26-2002	1,020	15.8	630	1.5
Oct-27-2002	928	15.9	713	1.5
Oct-28-2002	872	16.0	800	1.8
Oct-29-2002	830	15.9	852	1.9
Oct-30-2002	808	15.4	870	2.0
Oct-31-2002	782	14.5	907	2.0
Mean	630	17.8	1,000	2.3

**Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), November 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance	Selenium (total)
DATA SOURCE	usgs	usgs	cvrwqcb	cvrwqcb
UNITS	cfs	°C	µS/cm	µg/L
Nov-01-2002	747	13.6	991	1.9
Nov-02-2002	702	13.0	1,060	2.2
Nov-03-2002	683	12.9	1,100	2.3
Nov-04-2002	694	13.1	1,090	2.3
Nov-05-2002	723	13.2	1,090	2.3
Nov-06-2002	733	13.4	1,100	2.4
Nov-07-2002	743	14.0	1,110	2.5
Nov-08-2002	859	15.0	1,050	2.3
Nov-09-2002	953	15.8	991	2.0
Nov-10-2002	1,050	15.4	863	1.9
Nov-11-2002	1,070	15.1	917	2.1
Nov-12-2002	1,040	15.2	995	2.2
Nov-13-2002	1,020	15.3	1,000	1.8
Nov-14-2002	981	15.0	990	1.7
Nov-15-2002	942	14.2	1,060	1.5
Nov-16-2002	910	14.0	1,120	1.8
Nov-17-2002	888	14.0	1,100	1.8
Nov-18-2002	869	13.5	1,110	1.5
Nov-19-2002	857	13.1	1,110	1.5
Nov-20-2002	840	13.4	1,110	1.4
Nov-21-2002	822	13.3	1,170	1.6
Nov-22-2002	792	13.7	1,190	1.5
Nov-23-2002	769	13.6	1,190	1.7
Nov-24-2002	756	13.7	1,190	1.4
Nov-25-2002	723	13.6	1,240	1.5
Nov-26-2002	691	12.6	1,280	1.6
Nov-27-2002	677	11.8	1,310	1.8
Nov-28-2002	675	11.4	1,280	1.6
Nov-29-2002	670	11.5	1,260	1.5
Nov-30-2002	659	11.3	1,310	2.1
.	.	.	.	.
Mean	820	13.6	1,110	1.9



**Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), December 2002.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance	Selenium (total)
DATA SOURCE	USGS	USGS	CVRWQCB	CVRWQCB
UNITS	cfs	°C	µS/cm	µg/L
Dec-01-2002	649	11.4	1,330	2.0
Dec-02-2002	656	11.6	1,350	1.6
Dec-03-2002	647	11.5	1,370	1.6
Dec-04-2002	652	11.3	1,370	1.9
Dec-05-2002	663	11.1	1,340	1.5
Dec-06-2002	673	10.8	NA	NA
Dec-07-2002	673	11.2	NA	NA
Dec-08-2002	698	11.1	NA	NA
Dec-09-2002	703	10.9	NA	NA
Dec-10-2002	706	11.0	NA	NA
Dec-11-2002	712	10.9	NA	NA
Dec-12-2002	717	11.2	NA	NA
Dec-13-2002	730	11.0	1,360	2.7
Dec-14-2002	753	11.7	1,340	2.8
Dec-15-2002	780	11.8	1,320	2.7
Dec-16-2002	877	12.0	1,280	2.7
Dec-17-2002	1,230	11.6	910	2.4
Dec-18-2002	1,190	10.8	1,030	2.1
Dec-19-2002	1,320	9.8	1,110	2.5
Dec-20-2002	1,620	9.0	830	1.8
Dec-21-2002	1,740	9.6	840	1.8
Dec-22-2002	1,700	9.6	864	1.6
Dec-23-2002	1,650	8.8	891	1.5
Dec-24-2002	1,590	8.3	941	1.5
Dec-25-2002	1,510	7.8	1,040	P
Dec-26-2002	1,410	8.0	1,120	1.4
Dec-27-2002	1,330	9.2	1,150	1.3
Dec-28-2002	1,290	10.2	1,180	1.0
Dec-29-2002	1,270	10.2	1,210	0.9
Dec-30-2002	1,280	9.9	1,210	1.0
Dec-31-2002	1,220	9.9	1,270	1.0
Mean	1050	10.4	1,150	1.8

Table 6a. Weekly water quality monitoring at Station A (inflow to San Luis Drain), taken from grab samples.

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	.	.	Specific Conductance	Total Suspended Solids	.	.	.
DATA SOURCE	SLDMWA	.	.	CVRWQCB	CVRWQCB	.	.	.
UNITS	cfs	.	.	µS/cm	mg/L	.	.	.
Oct-02-2002	11	.	.	6,170	57	.	.	.
Oct-09-2002	18	.	.	4,470	110	.	.	.
Oct-16-2002	17	.	.	5,010	65	.	.	.
Oct-23-2002	15	.	.	5,210	59	.	.	.
Oct-30-2002	14	.	.	5,480	42	.	.	.
Nov-06-2002	15	.	.	3,990	41	.	.	.
Nov-13-2002	14	.	.	5,080	86	.	.	.
Nov-20-2002	9	.	.	5,240	38	.	.	.
Nov-26-2002	8	.	.	4,990	15	.	.	.
Dec-04-2002	19	.	.	5,130	72	.	.	.
Dec-11-2002	20	.	.	5,300	65	.	.	.
Dec-18-2002	23	.	.	4,910	68	.	.	.
Dec-23-2002	16	.	.	5,630	34	.	.	.

Table 6b. Weekly water quality monitoring at Station A (inflow to San Luis Drain), taken from composite samples.

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	.	.	Specific Conductance	.	Selenium (total)	.	Boron
DATA SOURCE	SLDMWA	.	.	CVRWQCB	.	CVRWQCB	.	CVRWQCB
UNITS	cfs	.	.	µS/cm	.	µg/L	.	mg/L
Oct-01-2002	12	.	.	5,650	.	89.5	.	10.0
Oct-08-2002	16	.	.	5,860	.	83.7	.	11.0
Oct-15-2002	13	.	.	4,530	.	68.0	.	8.1
Oct-22-2002	16	.	.	4,950	.	95.5	.	8.4
Oct-29-2002	14	.	.	5,550	.	108.0	.	9.4
Nov-05-2002	16	.	.	5,590	.	108.0	.	9.6
Nov-12-2002	14	.	.	4,740	.	89.1	.	7.5
Nov-19-2002	14	.	.	5,000	.	88.5	.	8.6
Nov-25-2002	8	.	.	5,210	.	62.3	.	8.5
Dec-02-2002	18	.	.	5,160	.	90.5	.	8.9
Dec-10-2002	19	.	.	5,200	.	84.2	.	8.4
Dec-17-2002	30	.	.	4,970	.	87.6	.	8.1
Dec-22-2002	15	.	.	4,950	.	69.5	.	7.2
Dec-29-2002	11	.	.	NA	.	62.9	.	9.4

Table 7. Weekly water quality monitoring at Station B (discharge from San Luis Drain), taken from grab samples.

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	pH	Specific Conductance	Total Suspended Solids	Selenium (total)	.	Boron
DATA SOURCE	USGS	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	.	CVRWQCB
UNITS	cfs	°C	.	µS/cm	mg/L	µg/L	.	mg/L
Oct-03-2002	16	15.5	8.4	4,970	40	70.0	.	8.8
Oct-10-2002	22	21.2	8.4	5,010	59	62.6	.	9.1
Oct-17-2002	22	17.7	8.3	3,860	47	45.4	.	7.1
Oct-24-2002	23	16.5	8.1	3,990	P	65.7	.	6.2
Oct-31-2002	22	15.0	8.1	4,820	NA	79.1	.	7.0
Nov-07-2002	17	14.1	8.3	4,720	42	72.0	.	7.7
Nov-14-2002	21	14.9	8.0	4,510	35	75.2	.	7.5
Nov-21-2002	15	13.8	8.3	4,390	58	62.7	.	7.1
Nov-26-2002	12	13.3	8.3	4,240	43	63.7	.	6.8
Dec-05-2002	22	11.2	8.1	4,880	42	81.0	.	8.0
Dec-12-2002	22	11.5	7.7	4,830	37	68.2	.	7.4
Dec-19-2002	27	9.8	7.8	4,540	42	69.9	.	7.3
Dec-24-2002	20	8.6	7.1	4,240	33	66.0	.	5.8

**Table 8. Weekly water quality monitoring at Station C (Mud Slough North upstream of drainage discharges).**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	pH	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	calculated **	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	°C	.	µS/cm	µg/L	mg/L
Oct-03-2002	25	15.1	7.9	1,190	<0.4	0.7
Oct-10-2002	19	23.4	8.3	1,360	<0.4	0.9
Oct-17-2002	117	16.6	8.1	937	0.4	0.5
Oct-24-2002	172	15.9	7.7	989	0.4	0.6
Oct-31-2002	110	14.3	7.7	1,200	<0.4	0.7
Nov-07-2002	123	14.0	7.7	1,330	0.5	0.8
Nov-14-2002	203	14.2	7.7	1,300	<0.4	0.9
Nov-21-2002	128	13.4	7.6	1,510	<0.4	P
Nov-26-2002	76	12.4	7.9	1,800	<0.4	1.3
Dec-05-2002	73	10.9	7.8	1,830	<0.4	1.4
Dec-12-2002	122	11.2	7.7	1,640	<0.4	1.2
Dec-19-2002	272	8.8	7.8	1,560	0.5	1.2
Dec-24-2002	476	NA	NA	NA	NA	NA

\*\* Calculated flow value. Flow at Station C = flow at Station D - flow at Station B.

**Table 9. Weekly water quality monitoring at Station D (Mud Slough North downstream of drainage discharges).**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	pH	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	USGS	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	°C	.	µS/cm	µg/L	mg/L
Oct-03-2002	41	14.4	8.0	2,510	19.7	3.4
Oct-10-2002	41	22.0	8.2	3,040	26.4	4.6
Oct-17-2002	138	16.7	8.1	1,430	6.4	1.6
Oct-24-2002	193	16.0	7.7	1,420	9.7	1.3
Oct-31-2002	132 e	14.3	7.8	1,740	9.5	1.6
Nov-07-2002	137	14.0	7.7	1,900	11.8	1.9
Nov-14-2002	219	14.3	7.8	1,680	7.7	1.6
Nov-21-2002	142	13.2	7.8	1,900	7.2	1.8
Nov-26-2002	93	12.3	8.0	2,200	8.6	2.0
Dec-05-2002	100	10.9	7.9	2,530	16.1	2.8
Dec-12-2002	143	11.3	7.7	2,220	10.3	2.2
Dec-19-2002	285	8.9	7.8	1,940	8.4	1.9
Dec-24-2002	496	8.3	7.6	1,500	4.5	1.3

Table 10. Weekly water quality monitoring at Station I2 (Mud Slough backwater downstream of Station D).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER		pH	Specific Conductance	Turbidity	Selenium	Boron
DATA SOURCE		USBR	USBR	USBR	USBR	USBR
UNITS		.	µS/cm	NTU	µg/L	mg/L
Oct-01-2002	.	7.5	2,900	NA	19.5	3.2
Oct-08-2002	.	7.7	2,710	NA	23.8	3.3
Oct-14-2002	.	8.2	2,720	NA	7.3	1.5
Oct-22-2002	.	7.5	1,480	NA	7.8	1.7
Oct-28-2002	.	7.6	1,720	NA	9.0	1.7
Nov-05-2002	.	7.3	1,740	NA	13.4	2.0
Nov-13-2002	.	7.9	1,960	NA	5.9	1.4
Nov-19-2002	.	7.4	2,020	NA	8.2	2.0
Nov-26-2002	.	7.5	2,320	NA	9.2	2.2
Dec-03-2002	.	8.0	2,490	NA	8.2	2.6
Dec-10-2002	.	7.8	2,310	NA	12.5	2.6
Dec-18-2002	.	8.3	2,050	NA	10.8	2.2
Dec-24-2002	.	7.6	1,790	NA	3.7	1.3
Dec-30-2002	.	7.6	2,000	NA	3.8	1.7

Table 11. Weekly water quality monitoring at Station F (Salt Slough at Lander Avenue).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	pH	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	USGS	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	°C	.	µS/cm	µg/L	mg/L
Oct-03-2002	88	14.0	8.0	1,260	0.5	0.6
Oct-10-2002	53	20.1	7.8	1,360	<0.4	0.7
Oct-17-2002	95	16.8	7.8	958	0.5	0.6
Oct-24-2002	140	14.7	7.9	1,110	0.6	0.6
Oct-31-2002	149	14.5	7.7	1,390	0.5	0.7
Nov-07-2002	158	13.3	7.9	1,260	<0.4	0.6
Nov-14-2002	240	14.2	7.5	1,300	0.5	0.8
Nov-21-2002	200	12.4	7.3	1,440	0.5	0.9
Nov-26-2002	150	12.3	7.9	1,590	0.4	0.9
Dec-05-2002	147	10.6	7.7	1,510	<0.4	0.9
Dec-12-2002	138	11.5	7.6	1,590	0.5	0.8
Dec-19-2002	351	9.5	7.4	1,360	<0.4	0.9
Dec-24-2002	421	8.0	7.3	1,460	0.7	1.0

Table 12. Weekly water quality monitoring at Station J (Camp 13 Ditch).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	.	.	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	SLDMWA <sup>††</sup>	.	.	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	.	.	µS/cm	µg/L	mg/L
Oct-02-2002	135	.	.	745	0.9	0.3
Oct-09-2002	185	.	.	770	1.9	0.4
Oct-16-2002	185	.	.	722	1.1	0.3
Oct-23-2002	40	.	.	735	2.1	0.4
Oct-30-2002	30	.	.	687	0.6	0.3
Nov-06-2002	30	.	.	630	0.5	0.2
Nov-13-2002	10	.	.	665	1.3	0.3
Nov-20-2002	10	.	.	688	2.5	0.4
Nov-26-2002	10	.	.	629	0.7	0.3
Dec-04-2002	10	.	.	697	1.3	0.4
Dec-11-2002	10	.	.	780	1.8	0.5
Dec-18-2002	10	.	.	994	0.9	1.1
Dec-23-2002	10	.	.	757	1.7	0.4

Table 13. Weekly water quality monitoring at Station K (Agatha Canal).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	.	.	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	SLDMWA <sup>††</sup>	.	.	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	.	.	µS/cm	µg/L	mg/L
Oct-02-2002	165	.	.	705	0.6	0.2
Oct-09-2002	165	.	.	650	0.6	0.2
Oct-16-2002	165	.	.	664	0.6	0.2
Oct-23-2002	70	.	.	605	0.5	0.2
Oct-30-2002	70	.	.	619	0.5	0.2
Nov-06-2002	70	.	.	630	0.5	0.2
Nov-13-2002	30	.	.	641	0.9	0.2
Nov-20-2002	30	.	.	614	0.7	0.3
Nov-26-2002	50	.	.	623	0.8	0.3
Dec-04-2002	50	.	.	645	0.7	0.3
Dec-11-2002	50	.	.	670	1.0	0.3
Dec-18-2002	50	.	.	627	0.8	0.3
Dec-23-2002	30	.	.	648	1.0	0.3

Table 14. Weekly water quality monitoring at Station L2 (San Luis Canal at splits).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	.	.	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	SLDMWA <sup>††</sup>	.	.	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	.	.	µS/cm	µg/L	mg/L
Oct-02-2002	155	.	.	765	0.8	0.3
Oct-09-2002	155	.	.	715	0.6	0.2
Oct-16-2002	135	.	.	672	0.5	0.2
Oct-23-2002	95	.	.	640	0.5	0.2
Oct-30-2002	55	.	.	682	0.6	0.2
Nov-06-2002	55	.	.	700	0.6	0.3
Nov-13-2002	42	.	.	684	0.7	0.3
Nov-20-2002	0	.	.	1,300	1.3	1.1
Nov-26-2002	0	.	.	1,620	1.0	1.6
Dec-04-2002	0	.	.	1,430	1.4	1.4
Dec-11-2002	0	.	.	1,640	1.2	1.6
Dec-18-2002	61	.	.	340	<0.4	0.3
Dec-23-2002	5	.	.	1,030	0.9	0.9

Table 15. Weekly water quality monitoring at Station M2 (Santa Fe Canal at weir).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	.	.	Conductance	Selenium (total)	Boron
DATA SOURCE	SLDMWA <sup>††</sup>	.	.	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	.	.	µS/cm	µg/L	mg/L
Oct-02-2002	38	.	.	900	0.7	0.5
Oct-09-2002	44	.	.	880	0.7	0.4
Oct-16-2002	64	.	.	804	0.7	0.4
Oct-23-2002	105	.	.	852	0.6	0.5
Oct-30-2002	87	.	.	996	0.6	0.7
Nov-06-2002	99	.	.	1,090	0.6	0.7
Nov-13-2002	137	.	.	1,000	0.6	0.8
Nov-20-2002	128	.	.	1,160	0.5	1.0
Nov-26-2002	113	.	.	1,240	0.8	1.1
Dec-04-2002	116	.	.	1,190	0.7	1.1
Dec-11-2002	121	.	.	1,190	0.7	1.0
Dec-18-2002	125	.	.	1,320	0.8	1.3
Dec-23-2002	180	.	.	1,360	1.0	1.3

Table 16. Weekly water quality monitoring at Station G (San Joaquin River at Fremont Ford).

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	pH	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	USGS	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	cfs	°C	.	µS/cm	µg/L	mg/L
Oct-03-2002	93	13.6	7.8	1,550	0.4	0.8
Oct-10-2002	57	19.6	7.8	1,960	<0.4	0.8
Oct-17-2002	86	17.1	7.8	1,470	0.5	0.7
Oct-24-2002	135	15.2	7.3	1,200	0.5	0.6
Oct-31-2002	171	13.0	7.4	1,450	0.6	0.7
Nov-07-2002	173	13.3	7.6	1,400	<0.4	0.6
Nov-14-2002	265	14.2	7.5	1,210	0.5	0.7
Nov-21-2002	215	12.8	7.6	1,500	<0.4	0.8
Nov-26-2002	179	12.3	7.7	NA	<0.4	P
Dec-05-2002	180	10.3	7.7	1,650	0.4	0.9
Dec-12-2002	169	11.2	7.6	1,850	0.4	0.8
Dec-19-2002	665	9.8	7.5	713	0.4	0.4
Dec-24-2002	709	8.2	6.9	1,000	0.7	0.6

Table 17. Weekly water quality monitoring at Station H (San Joaquin River at Hills Ferry).

(Collected data intended for use with biological monitoring.)

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	.	.	.	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	.	.	.	SLDMWA	SLDMWA	SLDMWA
UNITS	.	.	.	µS/cm	µg/L	mg/L
Oct-01-2002	.	.	.	1,730	5.6	1.4
Oct-08-2002	.	.	.	1,980	7.7	1.2
Oct-22-2002	.	.	.	1,640	3.3	1.0
Oct-29-2002	.	.	.	1,440	3.8	1.0
Nov-05-2002	.	.	.	1,670	4.6	1.1
Nov-12-2002	.	.	.	1,260	2.8	0.8
Nov-19-2002	.	.	.	1,560	2.5	1.0
Nov-26-2002	.	.	.	1,980	4.0	1.3
Dec-03-2002	.	.	.	1,960	2.7	1.3
Dec-10-2002	.	.	.	1,890	4.1	1.4
Dec-17-2002	.	.	.	1,450	3.5	1.2
Dec-23-2002	.	.	.	1,130	2.0	0.8



**Table 18. Weekly water quality monitoring at Station N (San Joaquin River at Crow's Landing).**

See Table 31 for explanation of footnotes and agency abbreviations.

<b>PARAMETER</b>	<b>Flow</b>	<b>Temperature</b>	<b>pH</b>	<b>Specific Conductance</b>	<b>Selenium (total)</b>	<b>Boron</b>
<b>DATA SOURCE</b>	<b>USGS</b>	<b>CVRWQCB</b>	<b>CVRWQCB</b>	<b>CVRWQCB</b>	<b>CVRWQCB</b>	<b>CVRWQCB</b>
<b>UNITS</b>	<b>cfs</b>	<b>°C</b>	<b>.</b>	<b>µS/cm</b>	<b>µg/L</b>	<b>mg/L</b>
Oct-03-2002	341	15.2	7.8	1,260	2.6	0.8
Oct-10-2002	296	20.0	7.8	1,320	2.5	0.8
Oct-17-2002	572	16.8	7.9	890	2.0	0.6
Oct-24-2002	1,100	15.0	7.5	563	1.2	0.4
Oct-31-2002	782	14.1	7.8	911	1.9	0.6
Nov-07-2002	743	13.8	7.7	1,090	2.2	0.7
Nov-14-2002	981	14.6	7.6	1,000	1.7	0.7
Nov-21-2002	822	12.9	7.7	1,160	1.7	P
Nov-26-2002	691	12.1	7.7	1,280	1.5	0.8
Dec-05-2002	663	10.8	7.9	1,330	1.3	0.9
Dec-12-2002	717	11.1	7.4	1,370	2.6	0.9
Dec-19-2002	1,320	9.7	7.8	1,130	2.2	0.7
Dec-24-2002	1,590	8.3	7.4	959	1.5	0.7

**Table 19. Summary of fathead minnow (*Pimephales promelas*) larvae survival in 7-day tests using water samples collected from January 2002 to December 2002. Each value is the mean of 4 replicates with 10 fish in each replicate.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
Jan-2002	83	95	98	100	100	98
Feb-2002	93	90	93	95	93	100
Mar-2002	98	90	98	80	88	98
Apr-2002	93	93	85	95	95	98
May-2002	98	95	95	90	85	88
Jun-2002	98	100	100	95	95	100
Jul-2002	100	95	98	93	90	100
Aug-2002	85	88	95	90	95	98
Sep-2002	100	98	98	95	95	93
Oct-2002	93	98	100	93	98	100
Nov-2002	98	55*	83	65*	100	100
Dec-2002	100	88	78*	98	98	100

**Table 20. Summary of fathead minnow (*Pimephales promelas*) larvae growth in 7-day tests using water samples collected from January 2002 to December 2002. Each value is the mean of 4 replicates with 10 fish in each replicate.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg	mg	mg	mg	mg	mg
Jan-2002	0.39	0.41	0.44	0.51	0.44	0.40
Feb-2002	0.55	0.47	0.58	0.55	0.52	0.42
Mar-2002	0.40	0.47	0.50	0.41	0.43	0.48
Apr-2002	0.64	0.63	0.50	0.63	0.55	0.58
May-2002	0.63	0.70	0.62	0.65	0.61	0.56
Jun-2002	0.38	0.43	0.41	0.42	0.31	0.50
Jul-2002	0.31	0.33	0.34	0.35	0.31	0.34
Aug-2002	0.49*	0.49	0.49	0.58	0.57	0.55
Sep-2002	0.38	0.38	0.29	0.33	0.31	0.30
Oct-2002	0.66	0.66	0.71	0.62	0.67	0.61
Nov-2002	0.41	0.22*	0.41	0.27*	0.38	0.33
Dec-2002	0.55	0.48*	0.49*	0.60	0.57	0.52

**Table 21. Summary of *Daphnia magna* survival in 7-day tests using water samples collected from January 2002 to December 2002. Each value is the mean of 10 replicates with 1 animal in each replicate.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
Jan-2002	100	90	80	100	100	67†
Feb-2002	100	80	90	90	100	100
Mar-2002	90	100	100	100	90	100
Apr-2002	100	90	100	90	100	100
May-2002	80	100	80	100	89	30†
Jun-2002	100	90	90	90	100	90
Jul-2002	90	100	100	100	100	100
Aug-2002	100	90	100	60*	100	90
Sep-2002	90	100	90	100	90	90
Oct-2002	100	89	90	100	100	89
Nov-2002	60*†† D	100	100	100	100	100
Dec-2002	100	100	100	90	100	90

**Table 22. Summary of *Daphnia magna* reproduction in 7-day tests using water samples collected from January 2002 to December 2002. Each value is the mean of 10 replicates with 1 animal in each replicate.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	neonates per female	neonates per female	neonates per female	neonates per female	neonates per female	neonates per female
Jan-2002	29.4	29.3	23.6	30.5	30.1	11.9
Feb-2002	42.8( *)	37.7	42.0	40.6	47.4	32.4
Mar-2002	47.2	47.7	49.8	45.8	54.5	50.2
Apr-2002	56.2	43.4	59.8	49.3	49.5	47.3
May-2002	26.4	36.5	30.7	37.2	27.9	2.9†
Jun-2002	40.0	36.1	43.1	24.3*	45.3	28.6
Jul-2002	28.3	29.7	34.6	29.6	33.1	29.1
Aug-2002	40.8	26.6	34.1	20.4	25.6	22.9
Sep-2002	24.4	28.0	28.7	31.1	23.7	16.6
Oct-2002	70.4	30.2	29.6	27.9	29.9	21.1
Nov-2002	7.9* D	30.3	33.5	29.5	18.4	20.3
Dec-2002	22.8	26.3	36.7	29.9	26.7	21.4

<sup>(4)</sup> Although reproduction values were less at Stations C, D, and F, they were not statistically different from the DMC water. This was due to the increased survival rate at Station B.

**Table 23. Summary of *Selenastrum capricornutum* growth in 4-day tests using water samples collected from January 2002 to December 2002. Each value is the mean of 4 replicates.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal	Laboratory Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	10 <sup>5</sup> cells/mL	10 <sup>5</sup> cells/mL	10 <sup>5</sup> cells/mL	10 <sup>5</sup> cells/mL	10 <sup>5</sup> cells/mL	10 <sup>5</sup> cells/mL
Jan-2002	6.3*†††	19.2	17.4	24.7	15.1	10.1
Feb-2002	8.7*	17.3	14.9*	12.7*	18.2	12.6
Mar-2002	8.7*	14.2*	12.9*	18.3	17.8	13.5
Apr-2002	1.44*	7.0	4.4*	6.6	5.8	33.0
May-2002	4.8 †	7.9	6.1	6.3	7.1 †††	3.8 †
Jun-2002	3.7*	9.5	7.7*	6.8*	11.7	10.2
Jul-2002	6.0	10.2	10.3	10.5	6.8	8.7
Aug-2002	NA	NA	NA	NA	NA	NA
Sep-2002	10.9	8.2	7.4	7.6	11.9	12.0
Oct-2002	8.9	5.9*	6.4*	6.4*	7.8	9.5
Nov-2002	10.8*	15.7	11.9*	10.8*	15.7	14.2
Dec-2002	7.3†	9.7	10.0	6.8†	2.4 †††	7.7†††

**Table 24. Summary of selenium concentrations in grab water samples collected at study stations for use in laboratory toxicity tests, October 2002 to December 2002.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE #	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR	SLDMWA/USBR
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
Oct-14-2002	75	0.4	15	<0.4	<0.4
Oct-16-2002	52	<0.4	7.0	<0.4	<0.4
Oct-18-2002	57	<0.4	10	<0.4	<0.4
Nov-18-2002	55	0.5	7.6	<0.4	<0.4
Nov-20-2002	67	0.4	7.6	0.5	<0.4
Nov-22-2002	68	0.4	6.5	<0.4	<0.4
Dec-16-2002	78	0.4	12	0.8	0.6
Dec-18-2002	72	<0.4	8.4	0.8	0.6
Dec-20-2002	70	<0.4	9.9	0.7	1.0

**Table 25. Summary of total suspended solids concentrations in grab water samples collected from October 2002 to December 2002.**

See Table 26 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Delta Mendota Canal
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L
Oct-14-2002	45	69	71	130	14
Oct-16-2002	59	93	67	197	29
Oct-18-2002	56	44	58	72	24
Nov-18-2002	55	23	35	60	12
Nov-20-2002	82	26	34	94	17
Nov-22-2002	67	43	43	119	24
Dec-16-2002	68	69	82	69	26
Dec-17-2002	63	23	24	85	54
Dec-20-2002	80	36	41	58	18

**Table 26. Monthly Flow and Salinity of Water at San Luis Drain, Station B.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station B				Salinity at Station B				
	Mean daily	S	Total	S	FW EC	S	TDS	Salt load	S
	UNITS cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
Oct-2001	18.0	Gr	1,110	Gr	3,877	Gr	2,869	4,329	Gr
Nov-2001	22.2	Gr	1,320	Gr	3,781	Gr	2,798	5,027	Gr
Dec-2001	20.5	Gr	1,260	Gr	4,219	Gr	3,122	5,339	Gr
Jan-2002	27.1	Gr	1,670	Gr	4,282	Gr	3,169	7,188	Gr
Feb-2002	49.2	Gr	2,730	Gr	4,312	Gr	3,191	11,853	Gr
Mar-2002	54.8	Gr	3,370	Gr	4,390	Gr	3,248	14,897	Gr
Apr-2002	40.8	Gr	2,430	Gr	4,648	Gr	3,439	11,365	Gr
May-2002	43.0	Gr	2,640	Gr	4,172	Gr	3,087	11,092	Gr
Jun-2002	55.9	Gr	3,320	Gr	3,930	Gr	2,908	13,148	Gr
Jul-2002	53.0	Gr	3,260	Gr	3,742	Gr	2,769	12,273	Gr
Aug-2002	55.4	Gr	3,410	Gr	3,474	Gr	2,571	11,907	Gr
Sep-2002	32.1	Gr	1,910	Gr	3,843	Gr	2,844	7,379	Gr
Oct-2002	19.8	Gr	1,220	Gr	4,190	Gr	3,101	5,144	Gr
Nov-2002	19.3	Gr	1,146	Gr	4,182	Gr	3,095	4,825	Gr
Dec-2002	22.1	Gr	1,357	Gr	4,560	Gr	3,374	6,226	Gr

	Mean daily		Total		FW EC		TDS	Salt load	
UNITS	cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
WY 1997	52.0		37,549		4,257		3,150	167,738	
WY 1998	63.9		45,940		4,439		3,284	205,104	
WY 1999	44.7		32,310		4,650		3,441	149,133	
WY 2000	43.1		31,260		4,301		3,183	134,994	
WY 2001	39.1		28,254		4,191		3,101	120,008	
WY 2002	39.3		28,391		4,069		3,011	116,143	
CY 1997	51.9		37,478		4,354		3,222	169,234	
CY 1998	64.3		46,240		4,563		3,377	208,900	
CY 1999	44.6		32,250		4,532		3,354	146,543	
CY 2000	41.7		30,210		4,189		3,100	128,568	
CY 2001	38.8		28,021		4,200		3,108	119,246	
CY 2002	39.3		28,437		4,157		3,076	117,686	

**Table 27. Monthly Flow and Salinity of Water at Mud Slough, Station D.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station D				Salinity at Station D				
	Mean daily	S	Total	S	FW EC	S	TDS	Salt load	S
	UNITS cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
Oct-2001	124.1	Gr	7,630	Gr	1,572	Gr	1,085	11,253	Gr
Nov-2001	169.7	Gr	10,100	Gr	1,660	Gr	1,145	15,726	Gr
Dec-2001	130.8	Gr	8,040	Gr	2,171	Gr	1,498	16,381	Gr
Jan-2002	150.6	Gr	9,260	Gr	2,349	Gr	1,621	20,412	Gr
Feb-2002	149.1	Gr	8,280	Gr	2,866	Gr	1,977	22,264	Gr
Mar-2002	139.0	Gr	8,550	Gr	3,362	Gr	2,320	26,973	Gr
Apr-2002	56.8	Gr	3,380	Gr	4,067	Gr	2,806	12,898	Gr
May-2002	64.4	Gr	3,960	Gr	3,386	Gr	2,336	12,584	Gr
Jun-2002	72.2	Gr	4,300	Gr	3,512	Gr	2,424	14,167	Gr
Jul-2002	74.0	G	4,534	Gr	3,096	Gr	2,136	13,173	Gr
Aug-2002	70.0	G	4,302	Gr	3,022	Gr	2,085	12,198	Gr
Sep-2002	50.0	G	2,947	Gr	2,765	Gr	1,908	7,648	Gr
Oct-2002	98.6	Gr	6,068	Gr	1,854	Gr	1,279	10,558	Gr
Nov-2002	156.0	Gr	9,285	Gr	1,825	Gr	1,259	15,897	Gr
Dec-2002	250.0	Gr	15,400	Gr	1,820	Gr	1,256	26,304	Gr

	Mean daily		Total		FW EC		TDS	Salt load	
UNITS	cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
WY 1997	181.5		130,930		2,390		1,649	254,020	
WY 1998	256.8		182,580		2,600		1,794	369,564	
WY 1999	140.6		101,360		2,582		1,781	229,871	
WY 2000	130.5		94,440		2,496		1,722	201,602	
WY 2001	128.6		92,871		2,769		1,910	214,420	
WY 2002	104.3		75,277		2,742		1,892	177,139	
CY 1997	174.0		125,450		2,471		1,705	256,860	
CY 1998	257.8		183,320		2,559		1,766	365,750	
CY 1999	137.1		98,740		2,589		1,786	225,748	
CY 2000	132.7		96,072		2,471		1,705	201,423	
CY 2001	123.3		88,887		2,729		1,883	204,324	
CY 2002	110.9		80,262		2,827		1,951	195,076	

**Table 28. Monthly Flow and Salinity of Water at Salt Slough, Station F.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station F				Salinity at Station F				
	Mean daily	S	Total	S	FW EC	S	TDS	Salt load	S
	UNITS cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
Sep-2001	59.9	G	3,564	Gr	1,520	G	1,034	4,952	Gr
Oct-2001	94.9	Gr	5,830	Gr	1,402	Gr	967	7,563	Gr
Nov-2001	147.3	Gr	8,770	Gr	1,449	Gr	1,000	11,748	Gr
Dec-2001	126.3	Gr	7,760	Gr	1,757	Gr	1,212	12,611	Gr
Jan-2002	124.5	Gr	7,660	Gr	2,031	Gr	1,401	14,379	Gr
Feb-2002	184.5	Gr	10,250	Gr	1,527	Gr	1,053	14,466	Gr
Mar-2002	274.3	Gr	16,860	Gr	1,719	Gr	1,186	26,811	Gr
Apr-2002	154.9	Gr	9,220	Gr	1,615	Gr	1,114	13,766	Gr
May-2002	127.7	Gr	7,850	Gr	1,390	Gr	959	10,093	Gr
Jun-2002	141.2	Gr	8,400	Gr	1,204	Gr	831	9,351	Gr
Jul-2002	152.0	G	9,330	Gr	1,033	Gr	702	8,914	Gr
Aug-2002	136.0	G	8,349	Gr	1,016	Gr	691	7,845	Gr
Sep-2002	83.0	G	4,921	Gr	1,197	Gr	814	5,446	Gr
Oct-2002	99.0	Gr	6,115	Gr	1,291	Gr	878	7,303	Gr
Nov-2002	189.0	Gr	11,237	Gr	1,380	Gr	938	14,340	Gr
Dec-2002	272.0	Gr	16,735	Gr	1,446	Gr	983	22,380	Gr

	Mean daily		Total		FW EC		TDS	Salt load	
UNITS	cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
WY 1997	216.3		156,280		1,295		880	192,670	
WY 1998	272.9		196,100		1,387		943	258,123	
WY 1999	210.7		151,770		1,192		811	171,745	
WY 2000	194.6		141,050		1,314		894	170,851	
WY 2001	185.2		133,892		1,340		911	168,735	
WY 2002	145.2		104,873		1,445		983	142,518	
CY 1997	204.6		147,940		1,356		922	187,861	
CY 1998	280.4		201,380		1,292		879	254,641	
CY 1999	204.7		147,380		1,255		853	172,081	
CY 2000	193.6		140,365		1,284		873	168,706	
CY 2001	181.4		131,118		1,399		951	170,341	
CY 2002	161.2		116,589		1,404		955	154,606	

**Table 29. Monthly Flow and Salinity of Water at San Joaquin River at Crow's Landing, Station N.**

See Table 31 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station N				Salinity at Station N				
	Mean daily	S	Total	S	FW EC	S	TDS	Salt load	S
	UNITS cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
Oct-2001	742.1	Gr	45,630	Gr	768	Gr	476	29,552	Gr
Nov-2001	990.1	Gr	58,920	Gr	805	Gr	499	39,975	Gr
Dec-2001	948.5	Gr	58,330	Gr	1,016	Gr	630	49,951	Gr
Jan-2002	1195.5	Gr	73,510	Gr	845	Gr	524	52,402	Gr
Feb-2002	798.0	Gr	44,320	Gr	NA		NA	NA	
Mar-2002	865.0	Gr	53,190	Gr	1,787	Gr	1,108	80,142	Gr
Apr-2002	699.0	Gr	41,590	Gr	1,347	Gr	835	47,248	Gr
May-2002	935.3	Gr	57,510	Gr	818	Gr	507	39,645	Gr
Jun-2002	492.4	Gr	29,300	Gr	1,406	Gr	871	34,727	Gr
Jul-2002	414.0	Gr	25,482	Gr	1,436	Gr	890	30,844	Gr
Aug-2002	409.0	Gr	25,141	Gr	1,390	Gr	862	29,469	Gr
Sep-2002	340.0	Gr	20,256	Gr	1,205	Gr	747	20,584	Gr
Oct-2002	630.1	Gr	38,744	Gr	825	Gr	512	43,992	Gr
Nov-2002	817.9	Gr	48,671	Gr	1,072	Gr	665	43,992	Gr
Dec-2002	1052.9	Gr	64,739	Gr	1,099	Gr	681	59,998	Gr

	Mean daily		Total		FW EC		TDS	Salt load	
UNITS	cfs		acre-feet		$\mu$ S/cm		mg/L	tons	
WY 1997	5408.3		3,844,270		820		508	1,080,702	
WY 1998	6868.3		4,904,910		601		373	1,511,469	
WY 1999	1411.7		1,015,350		902		559	680,099	
WY 2000	1416.7		1,027,480		976		605	703,879	
WY 2001	903.1		653,425		1,162		720	623,555	
WY 2002	737.3		533,963		1,199		743	513,766	
CY 1997	5063.4		3,590,370		975		604	1,073,472	
CY 1998	7085.7		5,064,280		453		281	1,515,996	
CY 1999	1206.2		864,520		1,017		631	664,529	
CY 2000	1460.3		1,059,222		905		561	689,545	
CY 2001	882.3		638,208		1,174		728	623,833	
CY 2002	722.2		523,242		1,233		764	542,270	



Table 30. Summary of sediment monitoring results from November 2001 to November 2002. Concentrations in µg/g dry weight.

See Table 31 for explanation of footnotes and agency abbreviations.

Station Code	PARAMETER	Selenium			Organic Carbon			Percent Moisture					
		DEPTH			0-3 cm			3-8 cm			Whole Core		
		SOURCE			USB	USB	USB	USB	USB	USB	USB	USB	
		UNITS			µg/g (dry)	µg/g (dry)	µg/g (dry)	%	%	%	%	%	
<b>Station C:</b>	Nov-13-2001				0.09	0.10	0.08	0.02	0.29	0.15	28.90	31.60	27.90
Mud Slough North	Mar-01-2002				0.10	0.23	0.10	0.07	0.34	0.01	27.60	28.40	24.40
upstream of	Jun-18-2002				0.18	0.11	0.12	0.27	0.43	0.60	28.40	28.50	29.80
drainage discharges	Sep-24-2002				0.19	0.13	0.15	0.39	0.29	0.39	22.40	25.50	29.10
	Nov-13-2002				0.10	0.19	0.07	0.10	0.48	0.17	27.10	31.60	30.10
<b>Station D:</b>	Nov-13-2001				0.15	0.18	0.09	0.15	0.06	0.08	24.10	25.10	25.50
Mud Slough North	Mar-01-2002				0.11	0.10	0.16	0.08	0.08	0.01	19.60	18.80	23.30
downstream of	Jun-18-2002				0.14	0.10	0.14	0.14	0.12	0.12	25.80	22.50	24.50
drainage discharges	Sep-24-2002				0.50	0.32	0.22	0.12	0.14	0.09	25.40	22.50	18.40
	Nov-13-2002				0.34	0.20	0.28	0.07	0.05	0.08	19.70	22.00	22.50
<b>Station E:</b>	Nov-13-2001				0.80	0.45	0.31	0.25	0.37	0.15	26.70	32.30	28.00
Mud Slough at Highway 140	Mar-01-2002				0.38	0.46	0.74	0.15	0.20	0.26	24.60	20.60	26.80
	Jun-19-2002				0.77	1.10	0.48	0.37	0.46	0.31	34.70	32.70	28.30
	Sep-24-2002				0.51	0.41	0.81	0.16	0.21	0.45	23.90	22.70	32.00
	Nov-13-2002				1.50	1.20	1.10	0.58	0.54	0.57	42.70	37.90	39.70
<b>Station F:</b>	Nov-13-2001				0.20	0.23	0.30	0.38	0.42	0.46	28.90	31.00	27.60
Salt Slough at Highway 165	Mar-01-2002				0.43	0.73	0.46	0.69	0.20	0.55	36.40	20.50	25.60
	Jun-19-2002				0.36	0.71	0.24	0.27	0.31	0.29	25.50	28.20	26.40
	Sep-24-2002				0.29	0.37	0.57	0.36	0.23	0.28	29.60	21.20	20.10
	Nov-13-2002				0.51	0.59	0.28	0.30	0.20	0.16	28.10	28.00	28.30
<b>Station I2:</b>	Nov-14-2001				6.1	3.7	3.5	1.93	1.51	1.63	60.90	48.20	49.80
Mud Slough:	Mar-01-2002				8.3	5.7	2.6	2.65	2.58	2.04	59.60	58.10	51.10
Seasonal backwater tributa	Jun-18-2002				8.5	4.7	6.2	2.17	2.10	1.89	61.40	53.30	57.30
Reported annually	Sep-24-2002				7.0	4.5	3.8	1.70	0.62	1.84	56.30	49.60	52.80
	Nov-13-2002				5.0	3.0	2.7	2.10	2.38	1.70	57.70	56.90	48.50

Table 31. Explanations of footnotes and agency abbreviations.

Footnote	Explanation
CVRWQCB	California Regional Water Quality Control Board, Central Valley Region
SLDMWA	San Luis & Delta-Mendota Water Authority
USBR	U.S. Bureau of Reclamation
USGS	U.S. Geological Survey
e	Estimated value
.	Not applicable
<	Less than MDL. If needed in calculation, use 1/2 MDL
NA	Not analyzed - operator error, data will not be available in the future
NP	Not Provided. Data may be available in the future.
NT	Not tested
P	Pending, data not available at this time but will be available in the future
*	Significantly reduced from Delta Mendota Canal ( $p < 0.05$ )
**	Sample re-analyzed and result confirmed.
†	DMC water failed to meet the survival (>80%) acceptability criteria.
††	Data from records of the Grassland Water District. Data is not subjected to the criteria documented in the Compliance Monitoring Program for the Use and Operation of the Grassland Bypass Project (1996) nor the Quality Assurance Project Plan for the GBP (1997 draft).
†††	DMC water failed to meet the reproduction (>10 neonates/adult) acceptability criteria.
††††	DMC water failed to meet minimum growth ( $10^6$ cell/mL) acceptability criteria.
‡	Control value exceeds suggested maximum variance (20%) acceptability criteria.
‡‡	Fungal growth observed on test organisms.
#	New testing laboratory with reporting limit of 0.4 $\mu$ g/L as of June 1998.
v	Based on definitive bioassay, NOEC is 50 percent
S	Source
EC	Electrical conductivity
FW	Flow-weighted average concentration
G	US Geological Survey published data
Gr	Total or average calculated from USGS 15 minute EC data
L	Lawrence Berkeley Laboratory 15 minute flow and EC data
Lr	Total or average calculated from LBL 15 minute EC data
TDS	Total dissolved solids