

GRASSLAND BYPASS PROJECT

QUARTERLY DATA REPORT

October, November and December 2008

July 2009

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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PRELIMINARY RESULTS

Table 1. Continuous water monitoring at Station A (inflow to San Luis Drain), October, November, December 2008.

See Table 33 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	13	3,620	11	3,020	11	4,490
Day 2	15	2,580	10	3,040	19	3,910
Day 3	14	2,610	12	2,880	19	3,970
Day 4	14	2,800	14	2,700	22	4,160
Day 5	14	2,760	11	2,970	15	3,760
Day 6	13	2,950	13	2,960	20	4,000
Day 7	13	3,300	15	2,820	20	4,040
Day 8	12	3,560	18	2,850	20	4,150
Day 9	11	3,840	22	3,180	21	4,340
Day 10	13	4,020	19	3,390	23	3,780
Day 11	11	4,210	15	3,820	22	3,760
Day 12	10	4,440	20	4,010	21	3,760
Day 13	9	4,410	21	3,920	21	3,940
Day 14	9	4,490	23	3,520	20	4,100
Day 15	8	4,480	22	3,900	21	3,980
Day 16	8	4,470	19	3,770	20	4,060
Day 17	8	4,450	22	3,730	18	4,260
Day 18	8	4,380	18	4,040	17	4,300
Day 19	8	4,270	18	4,110	17	4,190
Day 20	9	4,160	19	4,110	16	4,290
Day 21	8	4,100	17	4,280	16	4,300
Day 22	10	3,740	20	3,730	16	4,220
Day 23	11	3,720	23	3,370	16	4,370
Day 24	10	3,770	26	3,200	15	4,360
Day 25	10	3,940	23	3,320	15	4,360
Day 26	9	3,880	16	3,140	14	4,390
Day 27	11	3,940	10	3,950	13	4,490
Day 28	6	3,480	9	4,340	13	4,410
Day 29	7	3,380	9	4,420	12	4,300
Day 30	11	3,270	9	4,480	12	4,260
Day 31	10	3,160	.	.	12	4,230
Mean	10.5	3,750	16.8	3,570	17.4	4,160

PRELIMINARY RESULTS

Table 2a. Continuous water monitoring at Stations B and B2 (San Luis Drain Terminus), October 2008.

See Table 33 for explanation of footnotes and agency abbreviations.						
PARAMETER	San Luis Drain Outlet Flow	Temperature	Boron	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	SLDMWA*	SLDMWA	CVRWQCB	SLDMWA	CVRWQCB	Computed
UNITS	cfs	°C	mg/L	µS/cm	µg/L	lbs
Oct-01-2008	14	24.7	5.6	3,420	10.5	0.8
Oct-02-2008	16	24.8	6.4	3,410	10.6	0.9
Oct-03-2008	19	23.8	6.5	3,520	11.0	1.1
Oct-04-2008	19	22.8	6.9	3,650	10.8	1.1
Oct-05-2008	19	22.2	6.7	3,860	10.8	1.1
Oct-06-2008	20	22.1	6.5	3,710	11.8	1.3
Oct-07-2008	19	22.3	4.9	3,380	9.3	1.0
Oct-08-2008	18	22.7	3.9	2,720	8.0	0.8
Oct-09-2008	16	20.8	4.0	2,790	10.0	0.9
Oct-10-2008	16	16.0	4.6	2,960	12.3	1.0
Oct-11-2008	18	13.4	4.2	3,020	12.5	1.2
Oct-12-2008	19	13.2	4.8	2,970	14.2	1.4
Oct-13-2008	17	13.8	4.5	3,310	15.2	1.4
Oct-14-2008	16	14.9	5.2	3,340	17.1	1.5
Oct-15-2008	15	16.3	5.3	3,460	19.6	1.6
Oct-16-2008	15	17.6	5.4	3,680	25.5	2.1
Oct-17-2008	15	17.9	5.2	3,730	22.7	1.8
Oct-18-2008	15	19.2	5.2	3,720	22.4	1.8
Oct-19-2008	15	19.4	5.1	3,780	22.7	1.8
Oct-20-2008	15	19.1	5.5	3,750	20.9	1.7
Oct-21-2008	15	19.0	5.6	3,780	20.1	1.7
Oct-22-2008	16	18.5	5.0	3,750	20.2	1.8
Oct-23-2008	17	18.8	5.1	3,750	21.3	2.0
Oct-24-2008	18	19.0	5.2	3,740	20.5	2.0
Oct-25-2008	17	18.9	5.5	3,710	22.2	2.0
Oct-26-2008	16	18.9	5.0	3,700	21.7	1.9
Oct-27-2008	16	19.0	5.0	3,660	21.1	1.8
Oct-28-2008	18	19.0	4.9	3,610	19.4	1.9
Oct-29-2008	15	19.3	4.7	3,500	19.8	1.6
Oct-30-2008	14	18.7	4.8	3,480	19.5	1.5
Oct-31-2008	18	17.9	4.8	3,430	17.9	1.7
Mean	17	19.2	5.2	3,490	16.8	1.5
Total Acre-feet	1,020					
Total (lbs)						46
Load Limitation for October 2008 (lbs)						199

PRELIMINARY RESULTS

Table 2a. Continuous water monitoring at Stations B and B2 (San Luis Drain Terminus), November 2008.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	San Luis Drain Outlet Flow	Temperature	Boron	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	SLDMWA*	SLDMWA	CVRWQCB	SLDMWA	CVRWQCB	Computed
UNITS	cfs	°C	mg/L	µS/cm	µg/L	lbs
Nov-01-2008	18	17.5	5.7	3,470	13.9	1.4
Nov-02-2008	18	17.3	5.4	3,500	15.6	1.5
Nov-03-2008	18	17.2	4.4	3,430	13.3	1.3
Nov-04-2008	19	16.6	4.4	3,070	7.7	0.8
Nov-05-2008	19	15.6	4.9	3,190	9.5	1.0
Nov-06-2008	12	15.2	4.7	3,080	8.1	0.5
Nov-07-2008	16	15.0	4.3	3,070	9.3	0.8
Nov-08-2008	20	15.5	4.1	2,990	9.3	1.0
Nov-09-2008	21	15.8	4.0	2,940	8.5	1.0
Nov-10-2008	26	15.4	3.7	2,880	9.4	1.3
Nov-11-2008	24	15.4	4.0	3,020	13.5	1.7
Nov-12-2008	20	15.8	4.1	2,990	17.6	1.9
Nov-13-2008	23	16.4	4.2	3,010	20.2	2.5
Nov-14-2008	25	16.6	5.1	3,190	21.6	2.9
Nov-15-2008	26	16.7	5.5	3,340	20.7	2.9
Nov-16-2008	26	16.8	5.6	3,720	32.9	4.6
Nov-17-2008	23	16.8	6.6	4,160	45.0	5.5
Nov-18-2008	25	16.9	6.1	4,120	41.2	5.5
Nov-19-2008	23	16.6	5.6	3,720	36.6	4.5
Nov-20-2008	22	16.2	6.0	4,060	39.8	4.7
Nov-21-2008	22	15.2	5.8	3,980	41.6	5.0
Nov-22-2008	21	14.6	5.7	3,810	39.0	4.4
Nov-23-2008	24	14.3	6.2	4,030	41.0	5.3
Nov-24-2008	27	13.9	6.3	4,120	41.9	6.0
Nov-25-2008	29	13.7	6.2	4,100	38.1	6.0
Nov-26-2008	28	13.7	6.2	4,080	43.4	6.5
Nov-27-2008	21	13.9	5.9	3,790	40.6	4.7
Nov-28-2008	16	14.3	5.4	3,450	30.5	2.7
Nov-29-2008	15	13.7	5.2	3,380	31.8	2.6
Nov-30-2008	15	13.5	4.5	3,280	29.7	2.4
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Mean	21	15.5	5.2	3,500	25.7	3.1
Total Acre-feet	1,270					
Total (lbs)						93

Load Limitation for November 2008 (lbs)	199
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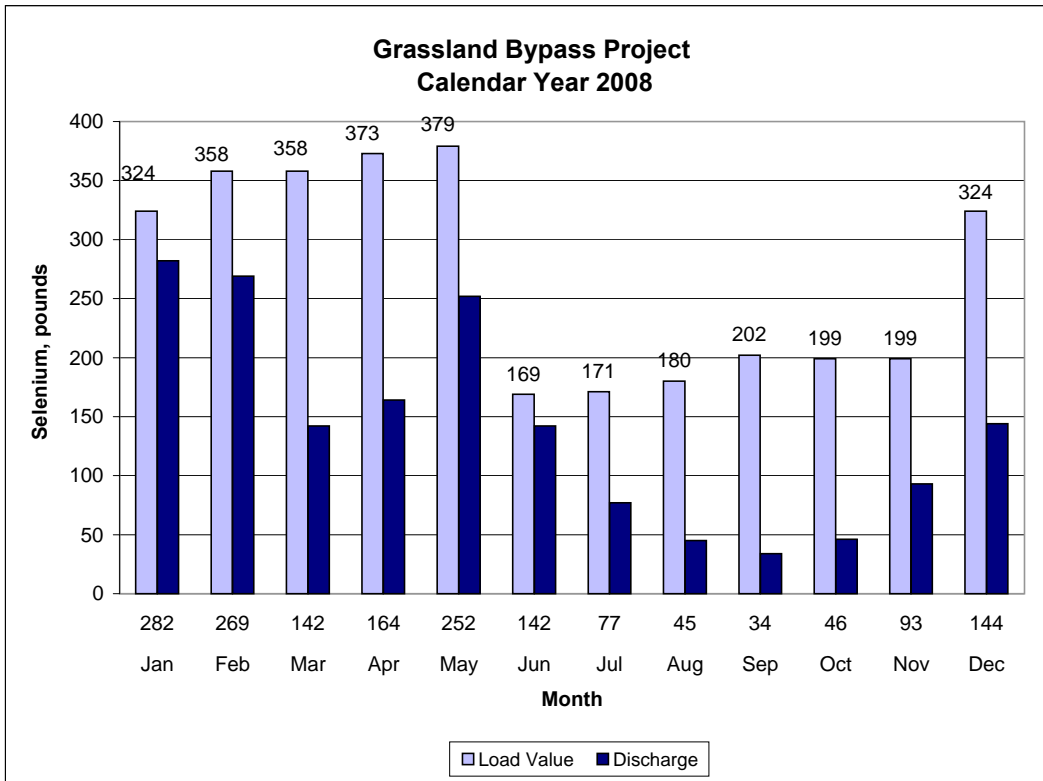
PRELIMINARY RESULTS

Table 2a. Continuous water monitoring at Stations B and B2 (San Luis Drain Terminus), December 2008.

See Table 33 for explanation of footnotes and agency abbreviations.						
PARAMETER	San Luis Drain Outlet Flow	Temperature	Boron	Specific Conductance	Selenium (total)	Selenium (total) Load
DATA SOURCE	SLDMWA*	SLDMWA	CVRWQCB	SLDMWA	CVRWQCB	Computed
UNITS	cfs	°C	mg/L	µS/cm	µg/L	lbs
Dec-01-2008	15	13.1	4.6	3,280	31.2	2.5
Dec-02-2008	16	12.9	4.5	3,350	28.5	2.4
Dec-03-2008	22	13.1	4.1	3,120	19.8	2.4
Dec-04-2008	23	13.1	5.0	3,450	22.8	2.8
Dec-05-2008	25	12.2	5.7	3,870	23.8	3.2
Dec-06-2008	21	11.5	6.1	4,050	26.3	3.0
Dec-07-2008	23	11.0	6.1	4,130	36.3	4.6
Dec-08-2008	24	10.4	5.9	3,960	36.9	4.7
Dec-09-2008	24	9.8	6.2	4,270	48.7	6.3
Dec-10-2008	24	9.4	5.5	3,980	28.0	3.7
Dec-11-2008	27	9.4	5.6	4,160	43.1	6.2
Dec-12-2008	26	9.4	6.5	4,210	46.0	6.4
Dec-13-2008	25	9.4	7.0	4,320	42.0	5.6
Dec-14-2008	25	8.6	6.7	4,520	43.7	6.0
Dec-15-2008	26	8.6	5.6	3,930	39.9	5.7
Dec-16-2008	26	8.2	5.6	3,850	38.5	5.4
Dec-17-2008	24	7.6	5.7	3,880	40.2	5.2
Dec-18-2008	23	6.8	5.9	4,050	46.7	5.8
Dec-19-2008	21	7.3	5.8	4,180	48.1	5.5
Dec-20-2008	21	7.5	5.8	4,110	46.6	5.2
Dec-21-2008	20	7.9	6.1	4,070	45.6	5.0
Dec-22-2008	20	8.8	6.0	4,150	45.0	4.9
Dec-23-2008	20	9.4	6.1	4,270	46.8	5.2
Dec-24-2008	21	9.4	6.2	4,250	47.4	5.3
Dec-25-2008	20	9.5	6.0	4,170	47.3	5.0
Dec-26-2008	19	8.6	6.4	4,240	45.6	4.6
Dec-27-2008	18	8.4	6.5	4,260	45.6	4.5
Dec-28-2008	18	8.6	6.1	4,240	46.1	4.4
Dec-29-2008	17	8.9	6.3	4,310	48.1	4.3
Dec-30-2008	17	9.2	6.4	4,370	48.9	4.4
Dec-31-2008	17	9.5	6.2	4,290	48.3	4.3
Mean	22	9.6	5.9	4,040	40.4	4.7
Total Acre-feet	1,320					
Total (lbs)						144
Load Limitation for December 2008 (lbs)						324

PRELIMINARY RESULTS

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



PRELIMINARY RESULTS

**Table 3. Continuous water monitoring at Station D
(Mud Slough North downstream of drainage discharges), October 2008.**

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Oct-01-2008	42	23.8	1,800
Oct-02-2008	45	23.5	1,830
Oct-03-2008	45	22.3	2,060
Oct-04-2008	49	21.3	2,060
Oct-05-2008	64	20.7	1,880
Oct-06-2008	67	20.9	1,850
Oct-07-2008	65	21.2	1,780
Oct-08-2008	66	21.4	1,580
Oct-09-2008	79	19.6	1,430
Oct-10-2008	93	15.1	1,330
Oct-11-2008	106	12.8	1,330
Oct-12-2008	108	12.8	1,330
Oct-13-2008	120	13.9	1,340
Oct-14-2008	112	15.2	1,360
Oct-15-2008	85	16.3	1,590
Oct-16-2008	76	17.5	1,700
Oct-17-2008	81	18.0	1,670
Oct-18-2008	94	18.9	1,550
Oct-19-2008	128	18.7	1,380
Oct-20-2008	182	18.3	1,220
Oct-21-2008	171	17.8	1,330
Oct-22-2008	132	17.8	1,490
Oct-23-2008	123	18.2	1,560
Oct-24-2008	119	18.5	1,610
Oct-25-2008	116	18.5	1,620
Oct-26-2008	107	18.5	1,660
Oct-27-2008	100	18.4	1,690
Oct-28-2008	100	18.5	1,740
Oct-29-2008	96	18.5	1,700
Oct-30-2008	87	17.8	1,750
Oct-31-2008	86	17.1	1,880
Mean	95	18.4	1,620

PRELIMINARY RESULTS

Table 3. Continuous water monitoring at Station D

(Mud Slough North downstream of drainage discharges), November 2008.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Nov-01-2008	88	16.9	1,910
Nov-02-2008	90	17.0	1,920
Nov-03-2008	91	16.6	1,900
Nov-04-2008	95	15.8	1,840
Nov-05-2008	96	14.5	1,890
Nov-06-2008	88	14.4	1,770
Nov-07-2008	88	14.8	1,870
Nov-08-2008	94	15.0	1,880
Nov-09-2008	97	15.1	1,910
Nov-10-2008	96	14.7	2,000
Nov-11-2008	91	14.7	2,040
Nov-12-2008	83	15.2	2,030
Nov-13-2008	83	16.0	2,110
Nov-14-2008	86	16.1	2,140
Nov-15-2008	83	16.1	2,310
Nov-16-2008	74	16.2	2,560
Nov-17-2008	70	16.2	2,630
Nov-18-2008	74	16.1	2,640
Nov-19-2008	70	15.7	2,520
Nov-20-2008	69	15.3	2,570
Nov-21-2008	68	14.4	2,580
Nov-22-2008	67	13.5	2,490
Nov-23-2008	74	13.3	2,580
Nov-24-2008	77	13.0	2,680
Nov-25-2008	77	13.0	2,770
Nov-26-2008	76	13.3	2,750
Nov-27-2008	74	13.8	2,480
Nov-28-2008	67	14.3	2,370
Nov-29-2008	67	13.4	2,280
Nov-30-2008	77	12.9	2,130
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Mean	81	14.9	2,250

PRELIMINARY RESULTS

Table 3. Continuous water monitoring at Station D

(Mud Slough North downstream of drainage discharges), December 2008.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-01-2008	76	12.3	2,160
Dec-02-2008	72	12.3	2,240
Dec-03-2008	79	12.6	2,260
Dec-04-2008	83	12.6	2,340
Dec-05-2008	84	11.3	2,510
Dec-06-2008	77	10.9	2,590
Dec-07-2008	77	10.4	2,680
Dec-08-2008	77	9.6	2,600
Dec-09-2008	78	9.1	2,650
Dec-10-2008	77	9.0	2,650
Dec-11-2008	80	8.9	2,700
Dec-12-2008	79	9.0	2,760
Dec-13-2008	80	9.3	2,630
Dec-14-2008	85	8.2	2,720
Dec-15-2008	103	8.3	2,400
Dec-16-2008	108	7.9	2,300
Dec-17-2008	116	7.2	2,240
Dec-18-2008	118	6.4	2,260
Dec-19-2008	113	7.3	2,270
Dec-20-2008	115	7.4	2,250
Dec-21-2008	115	7.7	2,230
Dec-22-2008	117	8.7	2,270
Dec-23-2008	115	9.3	2,260
Dec-24-2008	120	9.2	2,230
Dec-25-2008	119	9.3	2,230
Dec-26-2008	115	8.2	2,250
Dec-27-2008	103	7.8	2,390
Dec-28-2008	98	8.0	2,380
Dec-29-2008	94	8.6	2,400
Dec-30-2008	92	9.0	2,300
Dec-31-2008	91	9.3	2,200
Mean	95	9.2	2,400

PRELIMINARY RESULTS

Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), October 2008.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Oct-01-2008	48	23.7	1,450
Oct-02-2008	54	23.1	1,520
Oct-03-2008	49	21.5	1,490
Oct-04-2008	48	20.8	1,550
Oct-05-2008	46	20.2	1,590
Oct-06-2008	44	20.4	1,630
Oct-07-2008	36	20.8	1,650
Oct-08-2008	40	20.9	1,660
Oct-09-2008	38	18.3	1,640
Oct-10-2008	34	13.7	1,660
Oct-11-2008	31	NA	NA
Oct-12-2008	31	12.6	NA
Oct-13-2008	34	14.1	1,780
Oct-14-2008	38	15.4	1,730
Oct-15-2008	39	16.3	1,730
Oct-16-2008	40	17.2	1,690
Oct-17-2008	39	17.6	1,740
Oct-18-2008	38	18.5	1,780
Oct-19-2008	41	18.2	1,790
Oct-20-2008	49	17.5	1,730
Oct-21-2008	56	17.1	1,640
Oct-22-2008	49	17.2	1,730
Oct-23-2008	49	17.6	1,770
Oct-24-2008	56	17.7	1,750
Oct-25-2008	54	17.8	1,740
Oct-26-2008	56	17.6	1,820
Oct-27-2008	59	17.3	1,870
Oct-28-2008	73	17.6	1,710
Oct-29-2008	77	17.5	1,660
Oct-30-2008	74	16.7	1,680
Oct-31-2008	80	16.4	1,680
Mean	48	18.0	1,680

PRELIMINARY RESULTS

Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), November 2008.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	usgs	usgs	usgs
UNITS	cfs	°C	µS/cm
Nov-01-2008	93	16.4	1,650
Nov-02-2008	94	16.9	1,560
Nov-03-2008	107	16.2	1,530
Nov-04-2008	113	15.2	1,440
Nov-05-2008	112	13.9	1,440
Nov-06-2008	123	13.9	1,400
Nov-07-2008	116	14.2	1,400
Nov-08-2008	126	14.2	1,390
Nov-09-2008	113	14.6	1,450
Nov-10-2008	115	14.2	1,510
Nov-11-2008	111	14.2	1,510
Nov-12-2008	112	14.8	1,520
Nov-13-2008	101	15.7	1,570
Nov-14-2008	116	15.7	1,520
Nov-15-2008	127	15.6	1,430
Nov-16-2008	134	15.5	1,400
Nov-17-2008	138	15.4	1,410
Nov-18-2008	119	15.3	1,490
Nov-19-2008	114	15.0	1,580
Nov-20-2008	112	14.8	1,590
Nov-21-2008	103	14.2	1,640
Nov-22-2008	95	13.2	1,730
Nov-23-2008	97	12.8	1,670
Nov-24-2008	98	12.4	1,600
Nov-25-2008	91	12.6	1,650
Nov-26-2008	71	13.1	1,630
Nov-27-2008	79	13.9	1,720
Nov-28-2008	72	14.5	1,870
Nov-29-2008	65	13.5	1,970
Nov-30-2008	59	12.8	1,950
.	.	.	.
Mean	104	14.5	1,570

PRELIMINARY RESULTS

Table 4. Continuous water monitoring at Station F (Salt Slough at Highway 165), December 2008.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow	Temperature	Specific Conductance
DATA SOURCE	USGS	USGS	USGS
UNITS	cfs	°C	µS/cm
Dec-01-2008	59	12.3	1,960
Dec-02-2008	54	12.6	1,990
Dec-03-2008	54	13.1	1,990
Dec-04-2008	56	12.9	2,060
Dec-05-2008	48	11.2	2,100
Dec-06-2008	54	11.1	2,140
Dec-07-2008	48	10.8	2,090
Dec-08-2008	60	10.0	2,070
Dec-09-2008	56	9.5	2,020
Dec-10-2008	42	9.5	2,020
Dec-11-2008	38	9.4	2,020
Dec-12-2008	42	9.7	2,020
Dec-13-2008	41	10.0	2,050
Dec-14-2008	47	8.4	2,100
Dec-15-2008	51	9.0	2,040
Dec-16-2008	62	8.7	1,980
Dec-17-2008	60	7.8	1,910
Dec-18-2008	58	7.0	1,850
Dec-19-2008	62	8.2	1,840
Dec-20-2008	74	7.9	1,760
Dec-21-2008	76	8.3	1,720
Dec-22-2008	84	9.4	1,710
Dec-23-2008	72	9.9	1,750
Dec-24-2008	72	9.6	1,780
Dec-25-2008	57	9.9	1,880
Dec-26-2008	63	8.4	1,880
Dec-27-2008	50	8.3	1,930
Dec-28-2008	49	8.7	2,060
Dec-29-2008	39	9.4	2,070
Dec-30-2008	41	9.5	2,060
Dec-31-2008	34	10.2	2,160
Mean	55	9.7	1,970

PRELIMINARY RESULTS

Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), October 2008.

See Table 33 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-01-2008	265	23.5	1,170	0.7
Oct-02-2008	244	23.4	1,180	0.8
Oct-03-2008	260	22.0	1,210	1.3
Oct-04-2008	318	21.3	1,030	1.1
Oct-05-2008	341	20.6	950	0.7
Oct-06-2008	384	20.8	920	1.0
Oct-07-2008	405	20.8	870	0.8
Oct-08-2008	429	20.7	870	0.5
Oct-09-2008	466	19.2	780	0.5
Oct-10-2008	455	15.5	810	0.5
Oct-11-2008	494	13.7	730	0.5
Oct-12-2008	478	13.7	740	0.5
Oct-13-2008	470	14.5	730	0.5
Oct-14-2008	462	15.2	770	0.6
Oct-15-2008	456	15.8	830	0.8
Oct-16-2008	440	16.5	870	0.7
Oct-17-2008	418	17.1	950	0.7
Oct-18-2008	393	18.0	940	0.9
Oct-19-2008	427	18.0	890	0.9
Oct-20-2008	445	17.5	820	0.8
Oct-21-2008	461	17.1	810	0.8
Oct-22-2008	492	17.0	790	0.8
Oct-23-2008	494	17.3	810	0.7
Oct-24-2008	501	17.3	840	0.8
Oct-25-2008	506	17.1	860	0.8
Oct-26-2008	491	17.1	920	0.6
Oct-27-2008	472	17.0	950	0.8
Oct-28-2008	472	17.2	930	0.9
Oct-29-2008	468	17.1	930	0.9
Oct-30-2008	468	16.7	950	1.2
Oct-31-2008	476	16.5	950	0.7
Mean	431	17.9	900	0.8

PRELIMINARY RESULTS

Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), November 2008.

See Table 33 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-01-2008	487	16.6	960	0.8
Nov-02-2008	501	16.6	960	0.8
Nov-03-2008	517	16.1	930	0.8
Nov-04-2008	521	15.2	930	0.7
Nov-05-2008	525	14.2	940	0.9
Nov-06-2008	520	14.2	910	0.5
Nov-07-2008	521	14.3	970	0.6
Nov-08-2008	520	14.2	940	0.6
Nov-09-2008	534	14.3	960	0.6
Nov-10-2008	540	13.9	940	0.6
Nov-11-2008	545	13.8	1,000	0.7
Nov-12-2008	548	14.5	1,000	0.7
Nov-13-2008	547	15.2	990	0.9
Nov-14-2008	530	15.4	990	1.0
Nov-15-2008	523	15.2	1,010	1.1
Nov-16-2008	531	15.2	990	1.3
Nov-17-2008	526	15.1	1,000	1.3
Nov-18-2008	519	14.9	1,020	1.6
Nov-19-2008	512	14.7	1,050	2.0
Nov-20-2008	510	14.8	1,110	2.0
Nov-21-2008	512	14.2	1,110	1.6
Nov-22-2008	515	13.5	1,110	1.6
Nov-23-2008	520	13.1	1,120	1.7
Nov-24-2008	512	12.7	1,130	1.6
Nov-25-2008	512	12.7	1,190	2.0
Nov-26-2008	517	13.1	1,160	2.1
Nov-27-2008	520	13.8	1,170	2.1
Nov-28-2008	512	14.4	1,190	2.1
Nov-29-2008	508	13.6	1,170	1.6
Nov-30-2008	496	13.1	1,160	1.1
.
Mean	520	14.4	1,040	1.2

PRELIMINARY RESULTS

Table 5. Continuous water monitoring at Station N (San Joaquin River at Crow's Landing), December 2008.

See Table 33 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-01-2008	501	12.4	1,160	1.0
Dec-02-2008	499	12.4	1,120	0.9
Dec-03-2008	491	12.9	1,120	1.0
Dec-04-2008	479	13.1	1,190	1.1
Dec-05-2008	488	11.7	1,210	1.1
Dec-06-2008	489	11.2	1,210	1.3
Dec-07-2008	480	10.9	1,280	1.3
Dec-08-2008	459	10.2	1,310	1.3
Dec-09-2008	465	9.5	1,310	1.9
Dec-10-2008	470	9.2	1,290	2.0
Dec-11-2008	467	9.2	1,290	2.5
Dec-12-2008	447	9.3	1,330	1.8
Dec-13-2008	442	9.9	1,370	2.6
Dec-14-2008	437	8.8	1,380	2.6
Dec-15-2008	453	8.9	1,360	2.5
Dec-16-2008	473	8.8	1,370	2.6
Dec-17-2008	499	7.8	1,250	2.3
Dec-18-2008	504	7.1	1,260	2.1
Dec-19-2008	512	7.8	1,240	1.9
Dec-20-2008	517	7.8	1,270	2.2
Dec-21-2008	518	8.0	1,320	2.3
Dec-22-2008	544	8.7	1,300	2.0
Dec-23-2008	552	9.5	1,240	1.8
Dec-24-2008	554	9.4	1,240	1.7
Dec-25-2008	564	9.7	1,230	1.8
Dec-26-2008	556	8.6	1,260	1.8
Dec-27-2008	549	8.2	1,290	1.7
Dec-28-2008	529	8.4	1,300	1.6
Dec-29-2008	506	8.8	1,350	1.6
Dec-30-2008	490	8.9	1,340	1.8
Dec-31-2008	480	9.2	1,400	1.6
Mean	497	9.6	1,280	1.8

PRELIMINARY RESULTS

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

See Table 33 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-01-2008	13	.	.	4,220	176	.	.	.
Oct-08-2008	12	.	.	3,890	144	.	.	.
Oct-15-2008	8	.	.	4,870	NA	.	.	.
Oct-22-2008	10	.	.	4,460	99	.	.	.
Oct-29-2008	7	.	.	3,760	38	.	.	.
Nov-05-2008	11	.	.	3,190	39	.	.	.
Nov-12-2008	20	.	.	4,530	257	.	.	.
Nov-19-2008	18	.	.	4,450	207	.	.	.
Nov-25-2008	23	.	.	3,520	747	.	.	.
Dec-03-2008	19	.	.	4,150	222	.	.	.
Dec-10-2008	23	.	.	3,940	111	.	.	.
Dec-17-2008	18	.	.	4,530	68	.	.	.
Dec-23-2008	16	.	.	4,740	93	.	.	.
Dec-30-2008	12	.	.	4,560	29	.	.	.

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

See Table 33 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-07-2008	13	.	.	3,160	.	17.9	.	5.5
Oct-14-2008	9	.	.	4,550	.	42.1	.	7.7
Oct-21-2008	8	.	.	4,750	.	49.9	.	7.6
Oct-28-2008	6	.	.	4,070	.	29.8	.	7.4
Nov-04-2008	14	.	.	3,210	.	15.4	.	5.6
Nov-11-2008	15	.	.	3,520	.	28.7	.	6.2
Nov-18-2008	18	.	.	4,290	.	53.6	.	7.0
Nov-24-2008	26	.	.	3,370	.	45.9	.	6.6
Dec-01-2008	11	.	.	4,380	.	38.4	.	7.5
Dec-09-2008	21	.	.	4,360	.	50.4	.	7.0
Dec-16-2008	20	.	.	4,280	.	56.8	.	6.5
Dec-22-2008	16	.	.	4,660	.	59.6	.	7.9
Dec-30-2008	12	.	.	4,780	.	64.7	.	7.4

PRELIMINARY RESULTS

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

See Table 33 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-02-2008	16	22.8	7.7	3,530	49	11.2	5.7
Oct-09-2008	16	20.5	7.8	2,680	36	8.1	3.7
Oct-16-2008	15	15.7	7.1	3,900	34	27.0	5.5
Oct-23-2008	17	17.8	8.2	3,680	37	22.7	5.0
Oct-30-2008	14	17.9	8.1	3,430	56	19.0	4.7
Nov-06-2008	12	13.9	8.1	3,080	36	7.5	4.6
Nov-13-2008	23	15.4	7.3	3,170	23	22.8	4.4
Nov-20-2008	22	15.3	7.4	4,060	46	41.8	5.8
Nov-25-2008	29	12.9	7.4	3,930	50	35.0	5.9
Dec-04-2008	23	12.9	7.0	3,610	34	23.8	5.6
Dec-11-2008	27	8.8	7.6	3,980	N/A	40.0	5.7
Dec-18-2008	23	5.9	7.5	4,080	13	52.7	5.5
Dec-23-2008	20	8.8	8.0	4,150	18	45.3	6.4
Dec-30-2008	17	8.8	8.0	4,200	22	51.1	6.4

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

See Table 33 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-02-2008	29	22.0	7.6	1,040	.	<0.4	0.6
Oct-09-2008	66	19.1	7.7	1,010	.	<0.4	0.6
Oct-16-2008	63	16.0	7.7	1,170	.	<0.4	0.6
Oct-23-2008	129	16.8	7.7	1,160	.	0.6	0.7
Oct-30-2008	80	17.0	7.8	1,380	.	<0.4	0.9
Nov-06-2008	78	13.1	7.9	1,510	.	<0.4	1.0
Nov-13-2008	60	15.7	7.8	1,700	.	<0.4	1.1
Nov-20-2008	46	14.1	7.8	1,850	.	<0.4	1.2
Nov-25-2008	48	12.7	7.8	1,910	.	0.4	1.2
Dec-04-2008	60	12.6	7.7	1,930	.	<0.4	1.4
Dec-11-2008	52	8.4	6.8	2,090	.	<0.4	1.3
Dec-18-2008	95	5.3	7.8	1,830	.	0.4	1.3
Dec-23-2008	95	9.2	8.0	1,850	.	<0.4	1.4
Dec-30-2008	74	9.1	8.0	2,020	.	<0.4	1.4

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

PRELIMINARY RESULTS

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

See Table 33 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-02-2008	45	22.3	7.6	1,760	3.2	2.1
Oct-09-2008	79	19.6	7.6	1,380	1.8	1.2
Oct-16-2008	76	15.9	7.7	1,660	3.7	1.5
Oct-23-2008	123	16.9	7.6	1,560	3.3	1.3
Oct-30-2008	87	17.5	7.7	1,720	3.2	1.5
Nov-06-2008	88	13.3	8.0	1,740	1.2	1.4
Nov-13-2008	83	15.7	7.8	2,040	5.1	1.9
Nov-20-2008	69	14.2	7.8	2,620	11.0	2.8
Nov-25-2008	77	12.7	7.8	2,830	15.8	3.0
Dec-04-2008	83	12.7	7.6	2,340	5.5	2.3
Dec-11-2008	80	8.5	7.3	2,790	14.4	2.8
Dec-18-2008	118	5.6	7.7	2,290	9.3	2.1
Dec-23-2008	115	9.1	7.8	2,330	9.0	2.3
Dec-30-2008	92	9.0	7.8	2,500	9.8	2.3

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

See Table 33 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-07-2008	.	7.8	1,912	17	3.0	2.3
Oct-15-2008	.	7.7	1,700	16	3.8	1.8
Oct-23-2008	.	7.8	1,622	19	3.2	1.5
Oct-30-2008	.	8.0	1,770	13	3.1	1.6
Nov-04-2008	.	7.9	1,856	31	1.7	1.8
Nov-13-2008	.	7.7	2,108	13	4.6	2.0
Nov-18-2008	.	7.9	2,756	28	16.2	3.3
Nov-25-2008	.	8.3	2,531	13	15.8	3.5
Dec-02-2008	.	7.7	2,376	17	6.5	2.2
Dec-23-2008	.	7.8	2,521	12	8.4	2.3

PRELIMINARY RESULTS

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

See Table 33 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-02-2008	54	21.1	7.8	1,580	<0.4	0.7
Oct-09-2008	38	17.6	7.9	1,610	<0.4	0.7
Oct-16-2008	40	14.2	7.7	1,650	<0.4	0.7
Oct-23-2008	49	16.1	7.8	1,740	<0.4	0.8
Oct-30-2008	74	15.9	7.8	1,530	<0.4	0.8
Nov-06-2008	123	12.5	8.1	1,350	0.5	0.6
Nov-13-2008	101	14.5	7.7	1,570	<0.4	0.7
Nov-20-2008	112	13.6	7.7	1,530	<0.4	0.7
Nov-25-2008	91	12.0	8.0	1,760	<0.4	0.8
Dec-04-2008	56	12.7	7.4	2,060	<0.4	1.1
Dec-11-2008	38	8.7	7.1	2,230	<0.4	1.0
Dec-18-2008	58	5.6	7.5	1,970	<0.4	1.1
Dec-23-2008	72	10.2	7.7	1,900	<0.4	1.2
Dec-30-2008	41	9.6	7.8	2,030	<0.4	1.2

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

See Table 33 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-01-2008	215	.	.	640	0.6	0.2
Oct-08-2008	105	.	.	580	<0.4	0.2
Oct-15-2008	80	.	.	580	<0.4	0.2
Oct-22-2008	80	.	.	590	0.5	0.2
Oct-29-2008	70	.	.	550	0.7	0.2
Nov-05-2008	50	.	.	570	0.6	0.2
Nov-12-2008	40	.	.	560	0.8	0.2
Nov-19-2008	65	.	.	600	0.8	0.2
Nov-25-2008	60	.	.	650	0.7	0.2
Dec-03-2008	35	.	.	720	0.5	0.3
Dec-10-2008	15	.	.	670	0.6	0.3
Dec-17-2008	5	.	.	790	0.7	0.4
Dec-23-2008	5	.	.	700	0.7	0.3
Dec-30-2008	5	.	.	790	<0.4	0.4

PRELIMINARY RESULTS

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

See Table 33 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-01-2008	150	.	.	670	0.7	0.3
Oct-08-2008	150	.	.	580	0.6	0.2
Oct-15-2008	70	.	.	570	<0.4	0.2
Oct-22-2008	35	.	.	550	<0.4	0.2
Oct-29-2008	35	.	.	560	0.7	0.3
Nov-05-2008	35	.	.	600	0.7	0.4
Nov-12-2008	35	.	.	790	1.3	0.5
Nov-19-2008	35	.	.	660	0.9	0.3
Nov-25-2008	30	.	.	610	0.6	0.3
Dec-03-2008	30	.	.	640	0.6	0.3
Dec-10-2008	30	.	.	710	0.6	0.3
Dec-17-2008	30	.	.	710	0.8	0.3
Dec-23-2008	20	.	.	750	<0.4	0.3
Dec-30-2008	20	.	.	780	0.6	0.4

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

See Table 33 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-01-2008	NA	.	.	700	0.6	0.3
Oct-08-2008	NA	.	.	640	0.5	0.2
Oct-15-2008	NA	.	.	680	0.5	0.3
Oct-22-2008	NA	.	.	690	0.5	0.3
Oct-29-2008	NA	.	.	660	0.6	0.3
Nov-05-2008	NA	.	.	650	0.7	0.4
Nov-12-2008	NA	.	.	1,080	0.8	0.9
Nov-19-2008	NA	.	.	1,030	0.8	0.8
Nov-25-2008	NA	.	.	1,040	0.7	0.8
Dec-03-2008	NA	.	.	1,550	2.2	1.5
Dec-10-2008	NA	.	.	820	0.5	0.5
Dec-17-2008	NA	.	.	1,220	0.8	1.0
Dec-23-2008	NA	.	.	800	0.5	0.4
Dec-30-2008	NA	.	.	1,270	0.9	1.1

PRELIMINARY RESULTS

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

See Table 33 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-01-2008	NA	.	.	820	0.5	0.4
Oct-08-2008	NA	.	.	840	0.6	0.5
Oct-15-2008	NA	.	.	830	0.4	0.5
Oct-22-2008	NA	.	.	840	0.5	0.5
Oct-29-2008	NA	.	.	870	0.5	0.6
Nov-05-2008	NA	.	.	920	0.6	0.7
Nov-12-2008	NA	.	.	890	0.6	0.6
Nov-19-2008	NA	.	.	940	0.5	0.7
Nov-25-2008	NA	.	.	1,040	0.6	0.8
Dec-03-2008	NA	.	.	1,040	<0.4	0.9
Dec-10-2008	NA	.	.	1,330	<0.4	1.3
Dec-17-2008	NA	.	.	1,460	0.6	1.3
Dec-23-2008	NA	.	.	1,520	<0.4	1.4
Dec-30-2008	NA	.	.	1,820	0.5	1.8

Table 16. Weekly water quality monitoring at Central California Irrigation District Main Canal at Russell Avenue (MER510).

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	.	.	.	Specific Conductance	Selenium (total)	Boron
DATA SOURCE	.	.	.	CVRWQCB	CVRWQCB	CVRWQCB
UNITS	.	.	.	µS/cm	µg/L	mg/L
Oct-01-2008	.	.	.	640	0.4	0.2
Oct-08-2008	.	.	.	570	0.4	0.2
Oct-15-2008	.	.	.	650	<0.4	0.3
Oct-22-2008	.	.	.	530	0.5	0.2
Oct-29-2008	.	.	.	570	0.7	0.2
Nov-05-2008	.	.	.	560	0.7	0.2
Nov-12-2008	.	.	.	570	<0.4	0.2
Nov-19-2008	.	.	.	630	0.6	0.2
Nov-25-2008	.	.	.	720	0.8	0.3
Dec-03-2008	.	.	.	730	0.5	0.3
Dec-10-2008	.	.	.	630	0.5	0.2
Dec-17-2008	.	.	.	680	<0.4	0.2
Dec-23-2008	.	.	.	730	0.7	0.3
Dec-30-2008	.	.	.	620	0.6	0.2

PRELIMINARY RESULTS

Table 17. Weekly water quality monitoring at Station G (San Joaquin River at Fremont Ford).

See Table 33 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-02-2008	51	22.0	7.9	1,990	<0.4	0.8
Oct-09-2008	41	18.1	7.2	2,170	<0.4	0.9
Oct-16-2008	40	15.3	7.2	2,190	<0.4	0.9
Oct-23-2008	45	15.2	7.8	2,070	<0.4	0.8
Oct-30-2008	56	16.1	7.8	1,740	<0.4	0.8
Nov-06-2008	98	13.2	8.2	1,420	<0.4	0.7
Nov-13-2008	112	15.8	7.8	1,450	<0.4	0.7
Nov-20-2008	116	13.9	7.1	1,770	<0.4	0.7
Nov-25-2008	104	12.5	7.1	1,910	<0.4	0.7
Dec-04-2008	66	12.5	6.8	2,660	<0.4	0.7
Dec-11-2008	59	7.9	7.9	2,100	<0.4	0.9
Dec-18-2008	78	5.2	7.9	1,970	<0.4	0.9
Dec-23-2008	95	8.9	7.8	2,020	<0.4	1.1
Dec-30-2008	65	8.4	7.9	2,560	<0.4	1.1

Table 18. Weekly water quality monitoring at Station H (San Joaquin River at Hills Ferry).

(Collected data intended for use with biological monitoring.)

See Table 33 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-07-2008	.	.	.	1,750	1.7	1.3
Oct-14-2008	.	.	.	1,880	1.5	1.1
Oct-21-2008	.	.	.	1,560	1.9	0.9
Oct-28-2008	.	.	.	1,930	1.6	1.3
Nov-04-2008	.	.	.	628	<0.4	0.2
Nov-11-2008	.	.	.	1,900	1.2	1.2
Nov-18-2008	.	.	.	2,060	4.3	1.6
Nov-25-2008	.	.	.	3,700	41	5.3
Dec-03-2008	.	.	.	1,050	0.5	0.8
Dec-10-2008	.	.	.	1,080	<0.4	0.8
Dec-12-2008	.	.	.	1,110	<0.4	0.8
Dec-23-2008	.	.	.	1,180	<0.4	0.9

PRELIMINARY RESULTS

Table 19. Weekly water quality monitoring at Station N (San Joaquin River at Crow's Landing).

See Table 33 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-02-2008	244	22.1	8.0	1,210	0.9	0.7
Oct-09-2008	466	18.9	8.0	790	0.5	0.4
Oct-16-2008	440	15.5	7.7	930	0.8	0.5
Oct-23-2008	494	16.3	7.7	840	1.2	0.5
Oct-30-2008	468	16.6	8.0	950	0.7	0.5
Nov-06-2008	520	13.9	8.1	940	0.8	0.5
Nov-13-2008	547	15.5	8.2	1,000	0.8	0.5
Nov-20-2008	510	14.1	7.9	1,130	1.9	0.7
Nov-25-2008	512	12.3	7.8	1,210	2.1	0.7
Dec-04-2008	479	12.8	7.7	1,220	1.3	1.0
Dec-11-2008	467	8.7	8.0	1,300	2.2	0.8
Dec-18-2008	504	6.3	7.9	1,320	2.1	0.8
Dec-23-2008	552	9.0	7.8	1,270	1.9	0.8
Dec-30-2008	490	8.7	7.9	1,390	1.8	0.9

Table 20. Summary of fathead minnow (*Pimephales promelas*) larvae survival in 7-day tests using water samples collected from January 2008 to December 2008. Each value is the mean of 4 replicates with 10 fish in each replicate.

See Table 33 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Canal	Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
Jan-2008	100	100	95	98	100	100
Feb-2008	100	95	100	95	98	100
Mar-2008	93	95	100	100	73	100
Apr-2008	98	100	100	100	95	98
May-2008	98	95	98	95	98	100
Jun-2008	98	95	100	93	100	98
Jul-2008	90	98	100	90	100	95
Aug-2008	98	93	95	98	100	100
Sep-2008	90	95	93	98	95	98
Oct-2008	100	98	95	100	93	98
Nov-2008	93	95	98	100	95	98
Dec-2008	100	100	100	95	100	100

Table 21. Summary of fathead minnow (*Pimephales promelas*) larvae growth in 7-day tests using water samples collected from January 2008 to December 2008. Each value is the mean of 4 replicates with 10 fish in each replicate.

See Table 33 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Canal	Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	mg	mg	mg	mg	mg	mg
Jan-2008	0.40	0.40	0.41	0.41	0.37	0.35
Feb-2008	0.46	0.43	0.41	0.41	0.38	0.33
Mar-2008	0.33	0.33	0.37	0.38	0.22	0.29
Apr-2008	0.31	0.39	0.31	0.24*	0.30	0.27
May-2008	0.31	0.31	0.29*	0.31	0.34	0.32
Jun-2008	0.31	0.33	0.36	0.31	0.31	0.31
Jul-2008	0.32	0.34	0.30	0.26	0.29	0.25
Aug-2008	0.36	0.33	0.37	0.33	0.34	0.32
Sep-2008	0.30	0.36	0.30	0.33	0.33	0.28
Oct-2008	0.43	0.44	0.38	0.41	0.37	0.38
Nov-2008	0.32*	0.35	0.31	0.32*	0.38	0.35
Dec-2008	0.34	0.35	0.35	0.34	0.34	0.32

Table 22. Summary of *Daphnia magna* survival in 7-day tests using water samples collected from January 2008 to December 2008. Each value is the mean of 10 replicates with 1 animal in each replicate.

See Table 33 for explanation of footnotes and agency abbreviations.

LOCATION	Station B	Station C	Station D	Station F	Canal	Control
DATA SOURCE	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA	SLDMWA
UNITS	%	%	%	%	%	%
Jan-2008	70	100	90	100	100	90
Feb-2008	100	90	80	90	100	100
Mar-2008	100	100	90	100	100	90
Apr-2008	100	100	80	100	90	90
May-2008	80	70	80	100	90	90
Jun-2008	100	100	100	90	90	90
Jul-2008	100	80	100	100	90	100
Aug-2008	100	70	70	100	100	100
Sep-2008	90	90	100	90	100	100
Oct-2008	90	100	90	90	100	100
Nov-2008	100	100	100	100	90	90
Dec-2008	90	100	100	100	100	100

PRELIMINARY RESULTS

Table 23. Summary of *Daphnia magna* reproduction in 7-day tests using water samples collected from January 2008 to December 2008. Each value is the mean of 10 replicates with 1 animal in each replicate.

See Table 33 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-2008	36.4	47.8	41.5	40.3	48.8	45.2
Feb-2008	35.6	33.6	33.4	35.8	27.7	28.3
Mar-2008	27.4	29.0	29.5	26.2	30.1	19.6
Apr-2008	31.4	31.1	27.5	24.8	33.6	25.8
May-2008	22.2	19.6	23.5	33.1	25.7	28.8
Jun-2008	23.4	21.0	29.3	23.6	26.6	26.0
Jul-2008	19.1	22.4	23.8	18.4	21.4	24.3
Aug-2008	26.5	15.3*	23.3	30.2	24.1	29.5
Sep-2008	27.3	24.9	36.6	22.3	27.3	23.8
Oct-2008	24.4	28.2	25.6	22.3	24.9	26.3
Nov-2008	57.7	43.0	50.1	41.2	46.6	30.1
Dec-2008	32.6	26.0	26.3	22.6	30.3	21.2

Table 24. Summary of *Selenastrum capricornutum* growth in 4-day tests using water samples collected from January 2008 to December 2008. Each value is the mean of 4 replicates.

See Table 33 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 ⁵ cells/mL	10 ⁵ cells/mL	10 ⁵ cells/mL	10 ⁵ cells/mL	10 ⁵ cells/mL	10 ⁵ cells/mL
Jan-2008	15.8	16.3	22.6	19.9	16.3	16.1
Feb-2008	6.2	13.9	12.1	12.8	7.7††††	12.3
Mar-2008	18.1	14.2*	22.2	11.2*	20.5	24.9
Apr-2008	13.3*	16.7	22.4	11.9*	17.2	18.3
May-2008	17.1	30.5	22.3	14.2*	21.6	19.8
Jun-2008	15.9*	20.9	8.6*	22.7	20.5	20.1
Jul-2008	22.1	27.7	22.7	26.1	21.5	12.6
Aug-2008	16.8*	23.3	18.2*	19.5	20.9	20.8
Sep-2008	24.7	18.2*	10.0*	17.5*	26.5	17.1
Oct-2008	25.8	33.9	30.6	30.7	24.3	22.5
Nov-2008	15.8*	23.7	25.3	24.0	20.5	21.6
Dec-2008	17.5	23.9	21.0	20.0	20.3	18.4

PRELIMINARY RESULTS

Table 25. Summary of selenium concentrations in grab water samples collected at study stations for use in laboratory toxicity tests, October 2008 to December 2008.

See Table 33 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-06-2008	11	<0.4	3.3	<0.4	<0.4
Oct-08-2008	8	<0.4	2.8	<0.4	<0.4
Oct-10-2008	11	<0.4	2.0	<0.4	<0.4
Nov-03-2008	11	0.4	3.2	<0.4	<0.4
Nov-05-2008	9	<0.4	2.2	0.5	<0.4
Nov-07-2008	9	<0.4	1.6	<0.4	<0.4
Dec-01-2008	30	<0.4	6.1	<0.4	<0.4
Dec-03-2008	19	<0.4	6.3	<0.4	<0.4
Dec-05-2008	24	<0.4	7.2	<0.4	0.5

Table 26. Summary of total suspended solids concentrations in grab water samples collected at study stations for use in laboratory toxicity tests, October 2008 to December 2008.

See Table 33 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-06-2008	32	16	14	34	10
Oct-08-2008	35	11	20	33	10
Oct-10-2008	54	50	19	24	16
Nov-03-2008	51	17	43	66	3
Nov-05-2008	45	32	35	88	9
Nov-07-2008	32	23	29	94	10
Dec-01-2008	28	28	28	34	5
Dec-03-2008	24	15	26	37	4
Dec-05-2008	39	14	27	25	6

PRELIMINARY RESULTS

Table 27. Monthly Flow and Salinity of Water at San Luis Drain, Station B.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station B		Salinity at Station B		
	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
Jan-2007	32	1,980	3,970	2,940	7,920
Feb-2007	43	2,380	3,980	2,940	9,520
Mar-2007	31	1,920	4,480	3,320	8,670
Apr-2007	32	1,900	4,713	3,490	9,020
May-2007	32	1,990	4,858	3,590	9,720
Jun-2007	23	1,370	4,139	3,063	5,710
Jul-2007	20	1,230	3,700	2,738	4,580
Aug-2007	16	1,000	3,898	2,885	3,920
Sep-2007	13	800	4,075	3,016	3,280
Oct-2007	7	430	4,340	3,212	1,880
Nov-2007	10	610	4,823	3,569	2,960
Dec-2007	17	1,020	4,294	3,178	4,410
Jan-2008	27	1,660	4,443	3,288	7,420
Feb-2008	32	1,850	4,462	3,302	8,310
Mar-2008	29	1,780	3,882	2,873	6,950
Apr-2008	26	1,540	4,276	3,164	6,630
May-2008	29	1,760	4,461	3,301	7,900
Jun-2008	21	1,260	4,361	3,227	5,530
Jul-2008	16	980	4,120	3,049	4,060
Aug-2008	11	690	4,110	3,041	2,850
Sep-2008	12	690	3,809	2,819	2,650
Oct-2008	17	1,020	3,488	2,581	3,580
Nov-2008	21	1,270	3,536	2,617	4,520
Dec-2008	22	1,320	4,045	2,993	5,370

Note: EC to TDS conversion = 0.74

Water Year Averages and Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
WY 1997	52	37,560	4,257	3,150	167,830
WY 1998	64	45,950	4,438	3,280	205,110
WY 1999	45	32,310	4,650	3,440	149,140
WY 2000	43	31,260	4,301	3,180	135,010
WY 2001	39	28,250	4,191	3,100	120,030
WY 2002	39	28,400	4,069	3,010	116,190
WY 2003	38	27,270	4,319	3,200	118,760
WY 2004	38	27,700	4,173	3,090	116,350
WY 2005	42	30,160	4,315	3,190	130,850
WY 2006	36	25,970	4,605	3,410	121,050
WY 2007	26	18,540	4,235	3,130	78,920
WY 2008	22	15,670	4,161	3,080	65,640

Calendar Year Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
CY 1997	52	37,490	4,354	3,220	164,180
CY 1998	64	46,240	4,563	3,380	212,560
CY 1999	45	32,250	4,532	3,360	147,370
CY 2000	42	30,210	4,189	3,100	127,370
CY 2001	39	28,010	4,200	3,110	118,470
CY 2002	39	28,460	4,155	3,070	118,830
CY 2003	38	27,550	4,282	3,170	118,770
CY 2004	39	28,290	4,129	3,060	117,730
CY 2005	41	29,610	4,420	3,270	131,680
CY 2006	36	25,890	4,589	3,395	119,540
CY 2007	25	17,990	4,137	3,061	74,890
CY 2008	22	15,860	4,096	3,030	65,360

Note: All totals and averages calculated from USGS preliminary data.

PRELIMINARY RESULTS

Table 28. Monthly Flow and Salinity of Water at Mud Slough, Station D.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station D		Salinity at Station D		
	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
Jan-2007	159	9,780	2,050	1,410	18,750
Feb-2007	149	8,270	2,570	1,780	20,020
Mar-2007	136	8,340	2,760	1,900	21,550
Apr-2007	50	2,990	3,876	2,670	10,860
May-2007	49	3,030	3,466	2,390	9,850
Jun-2007	29	1,730	3,490	2,408	5,670
Jul-2007	27	1,680	2,755	1,901	4,340
Aug-2007	21	1,270	3,116	2,150	3,710
Sep-2007	35	2,060	1,952	1,347	3,770
Oct-2007	123	7,570	1,301	898	9,240
Nov-2007	128	7,600	1,798	1,241	12,820
Dec-2007	127	7,790	2,188	1,510	15,990
Jan-2008	169	10,410	1,590	1,097	15,530
Feb-2008	148	8,500	1,790	1,235	14,280
Mar-2008	125	7,690	1,830	1,263	13,210
Apr-2008	71	4,200	2,420	1,670	9,540
May-2008	50	3,060	2,640	1,822	7,580
Jun-2008	29	1,720	2,400	1,656	3,870
Jul-2008	18	1,090	2,630	1,815	2,690
Aug-2008	14	890	2,530	1,746	2,110
Sep-2008	20	1,160	1,670	1,152	1,820
Oct-2008	106	6,540	1,040	718	6,380
Nov-2008	86	5,100	1,520	1,049	7,270
Dec-2008	106	6,520	1,640	1,132	10,030

Note: EC to TDS conversion = 0.69

Water Year Averages and Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
WY 1997	181	130,930	2,390	1,650	254,020
WY 1998	257	182,580	2,600	1,790	369,220
WY 1999	141	101,360	2,582	1,780	229,760
WY 2000	131	94,440	2,496	1,720	201,560
WY 2001	129	92,870	2,737	1,890	214,330
WY 2002	104	75,280	2,809	1,940	184,890
WY 2003	122	88,200	2,688	1,860	208,450
WY 2004	120	87,190	2,704	1,870	197,370
WY 2005	154	110,600	2,535	1,750	263,230
WY 2006	160	116,100	2,273	1,570	242,890
WY 2007	100	72,200	2,541	1,750	171,840
WY 2008	85	61,680	2,044	1,410	118,280

Calendar Year Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
CY 1997	174	125,450	2,471	1,700	290,040
CY 1998	258	183,320	2,559	1,770	441,290
CY 1999	137	98,740	2,588	1,790	240,370
CY 2000	133	96,070	2,467	1,700	222,110
CY 2001	123	88,890	2,768	1,910	230,900
CY 2002	111	80,260	2,827	1,950	212,850
CY 2003	119	85,750	2,621	1,810	211,080
CY 2004	121	87,960	2,738	1,890	226,090
CY 2005	160	115,030	2,513	1,730	270,640
CY 2006	160	115,820	2,241	1,546	243,490
CY 2007	86	61,940	2,611	1,801	151,730
CY 2008	79	56,880	1,953	1,350	104,430

Note: All totals and averages calculated from USGS preliminary data.

PRELIMINARY RESULTS

Table 29. Monthly Flow and Salinity of Water at Salt Slough, Station F.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station F		Salinity at Station F		
	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
Jan-2007	198	12,150	1,370	930	15,370
Feb-2007	228	12,690	1,380	940	16,220
Mar-2007	235	14,460	1,500	1,020	20,060
Apr-2007	139	8,260	1,441	980	11,010
May-2007	145	8,910	1,172	800	9,700
Jun-2007	136	8,090	1,118	760	8,370
Jul-2007	133	8,200	1,028	699	7,800
Aug-2007	88	5,410	1,196	813	5,980
Sep-2007	67	3,990	1,400	952	5,170
Oct-2007	106	6,520	1,348	917	8,130
Nov-2007	111	6,600	1,511	1,027	9,220
Dec-2007	122	7,480	1,577	1,072	10,910
Jan-2008	170	10,460	1,080	734	10,450
Feb-2008	188	10,800	1,090	741	10,890
Mar-2008	228	14,030	660	449	8,560
Apr-2008	135	8,050	1,040	707	7,740
May-2008	117	7,200	990	673	6,590
Jun-2008	107	6,370	880	598	5,180
Jul-2008	103	6,310	840	571	4,900
Aug-2008	72	4,430	820	558	3,360
Sep-2008	45	2,680	950	646	2,350
Oct-2008	48	2,980	1,160	789	3,200
Nov-2008	103	6,100	1,070	728	6,040
Dec-2008	51	3,110	1,340	911	3,850

Note: EC to TDS conversion = 0.68

Water Year Averages and Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
WY 1997	216	156,080	1,294	880	192,670
WY 1998	273	196,090	1,387	940	258,200
WY 1999	210	151,770	1,192	810	171,580
WY 2000	195	141,050	1,314	890	170,780
WY 2001	185	133,880	1,340	910	168,570
WY 2002	145	104,880	1,445	980	142,570
WY 2003	177	127,940	1,334	910	165,550
WY 2004	170	123,330	1,296	880	153,230
WY 2005	215	155,280	1,267	860	181,620
WY 2006	234	168,800	1,189	810	192,440
WY 2007	154	111,370	1,272	870	131,770
WY 2008	125	90,930	1,099	750	92,750

Calendar Year Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
CY 1997	205	147,940	1,355	920	185,100
CY 1998	281	201,370	1,292	880	241,000
CY 1999	204	147,380	1,255	850	170,370
CY 2000	194	140,370	1,284	870	166,090
CY 2001	181	131,100	1,399	950	169,380
CY 2002	161	116,600	1,403	950	150,650
CY 2003	163	117,730	1,342	910	145,700
CY 2004	170	123,500	1,285	870	146,130
CY 2005	224	161,730	1,261	860	189,160
CY 2006	232	167,460	1,163	793	180,680
CY 2007	142	102,810	1,336	909	127,130
CY 2008	114	82,520	1,027	700	78,560

Note: All totals and averages calculated from USGS preliminary data.

PRELIMINARY RESULTS

Table 30. Monthly Flow and Salinity of Water at San Joaquin River at Fremont Ford, Station G.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station N		Salinity at Station N		
	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
Jan-2007	238	14,620	1,530	1,040	20,680
Feb-2007	336	18,650	1,370	930	23,590
Mar-2007	412	25,320	1,490	1,010	34,780
Apr-2007	223	13,300	1,706	1,160	20,070
May-2007	196	12,050	1,457	600	9,070
Jun-2007	172	10,210	1,307	889	12,340
Jul-2007	164	10,100	1,077	732	10,060
Aug-2007	113	6,950	1,265	860	8,130
Sep-2007	80	4,760	1,589	1,080	6,990
Oct-2007	124	7,640	1,474	1,002	10,410
Nov-2007	132	7,860	1,757	1,195	12,770
Dec-2007	147	9,040	1,905	1,295	15,930
Jan-2008	489	30,070	580	394	16,130
Feb-2008	640	36,840	570	388	19,420
Mar-2008	337	20,740	1,100	748	21,100
Apr-2008	167	9,910	1,370	932	12,560
May-2008	139	8,560	1,220	830	9,660
Jun-2008	119	7,080	1,090	741	7,140
Jul-2008	92	5,630	940	639	4,890
Aug-2008	83	5,090	940	639	4,420
Sep-2008	48	2,830	1,220	830	3,190
Oct-2008	43	2,660	2,030	1,380	4,990
Nov-2008	106	6,300	1,730	1,176	10,080
Dec-2008	73	4,460	2,570	1,748	10,600

Note: EC to TDS conversion = 0.62

Water Year Averages and Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
WY 1997	na	na	1,387	940	na
WY 1998	na	na	1,281	870	na
WY 1999	na	na	1,433	980	na
WY 2000	na	na	1,525	1,040	na
WY 2001	na	na	1,761	1,200	na
WY 2002	na	na	1,433	970	na
WY 2003	215	156,100	1,486	1,010	217,950
WY 2004	223	161,760	1,493	1,020	219,220
WY 2005	889	642,060	1,034	610	532,650
WY 2006	2,670	1,931,210	787	530	344,360
WY 2007	217	156,740	1,355	890	189,720
WY 2008	206	148,330	1,611	1,100	221,900

Calendar Year Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
CY 1997	na	na	1,466	1,000	na
CY 1998	na	na	1,221	830	na
CY 1999	na	na	1,463	1,000	na
CY 2000	na	na	1,517	1,030	na
CY 2001	na	na	1,811	1,230	na
CY 2002	225	163,110	1,439	980	217,390
CY 2003	194	140,470	1,534	1,040	198,680
CY 2004	238	172,020	1,435	980	229,270
CY 2005	897	647,690	992	590	519,710
CY 2006	2,671	1,931,950	765	518	1,361,900
CY 2007	193	138,380	1,495	983	184,930
CY 2008	191	137,210	1,703	1,160	216,460

Note: All totals and averages calculated from USGS preliminary data.

PRELIMINARY RESULTS

Table 31. Monthly Flow and Salinity of Water at San Joaquin River at Crow's Landing, Station N.

See Table 33 for explanation of footnotes and agency abbreviations.

PARAMETER	Flow at Station N		Salinity at Station N		
	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
Jan-2007	850	52,460	1,290	799	57,000
Feb-2007	920	51,280	1,400	871	60,720
Mar-2007	1,020	62,530	1,460	905	76,990
Apr-2007	770	45,550	1,294	820	50,800
May-2007	1,000	61,340	805	513	42,860
Jun-2007	680	40,300	834	517	28,340
Jul-2007	340	20,840	1,177	730	20,680
Aug-2007	290	17,950	1,118	693	16,920
Sep-2007	280	16,770	1,172	727	16,580
Oct-2007	620	37,880	855	530	27,320
Nov-2007	1,020	60,400	686	425	34,930
Dec-2007	850	52,270	1,027	637	45,270
Jan-2008	1,410	86,440	537	333	39,140
Feb-2008	1,490	85,840	565	350	40,890
Mar-2008	1,040	64,130	889	551	48,070
Apr-2008	780	46,630	933	578	36,680
May-2008	1,100	67,510	452	280	25,730
Jun-2008	380	22,670	870	539	16,630
Jul-2008	300	18,300	804	498	12,410
Aug-2008	400	24,700	604	374	12,580
Sep-2008	340	20,480	635	394	10,970
Oct-2008	430	26,480	896	556	20,010
Nov-2008	520	30,940	1,055	654	27,530
Dec-2008	500	30,570	1,235	766	31,830

Note: EC to TDS conversion = 0.62

Water Year Averages and Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
WY 1997	5,407	3,844,610	820	510	1,080,680
WY 1998	6,869	4,904,910	601	370	1,511,480
WY 1999	1,412	1,015,480	902	560	680,120
WY 2000	1,423	1,027,440	976	610	703,910
WY 2001	903	653,430	1,162	720	623,560
WY 2002	738	533,960	1,202	750	517,360
WY 2003	753	546,130	1,244	770	576,340
WY 2004	764	554,550	1,226	760	564,500
WY 2005	2,381	1,721,000	722	450	1,053,250
WY 2006	4,748	3,437,650	569	350	947,330
WY 2007	826	598,540	1,103	690	561,670
WY 2008	802	580,500	1,059	660	521,060

Calendar Year Totals

PARAMETER	Mean daily	Total	FW EC	TDS	Salt load
UNITS	cfs	acre-feet	µS/cm	mg/L	tons
CY 1997	5,063	3,590,680	975	600	2,929,990
CY 1998	7,086	5,064,330	453	280	1,928,500
CY 1999	1,207	864,600	1,017	630	740,790
CY 2000	1,466	1,059,180	905	560	806,670
CY 2001	882	638,210	1,174	730	633,610
CY 2002	723	523,240	1,235	770	547,940
CY 2003	718	521,480	1,258	780	553,190
CY 2004	790	573,270	1,213	750	584,740
CY 2005	2,428	1,755,440	697	430	1,026,580
CY 2006	4,786	3,465,280	567	352	1,657,190
CY 2007	740	535,170	1,099	684	497,750
CY 2008	723	523,470	1,106	690	491,220

Note: All totals and averages calculated from USGS preliminary data.

Table 33. 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/Lab CI 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 µg/L as of June 1998.
❖	Based on definitive bioassay, NOEC is 50 percent
S	Source
EC	Electrical conductivity
FW	Flow-weighted average concentration
G	US Geological Survey published data
L	Lawrence Berkeley Laboratory 15 minute flow and EC data
TDS	Total dissolved solids