California Regional Water Quality Control Board

Central Valley Region, Sacramento Office
Agricultural Regulatory and Planning Unit

Loads of Salt, Boron, and Selenium in the Grassland Watershed and Lower San Joaquin River
October 1985 to September 1995 -- Raw Data Supplemental Appendix

---

Data Retrieval Result

Flow (cfs) Water Year 1986 - Charleston Drainage District

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
2	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
3	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
4	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
5	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
6	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
7	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
8	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
9	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
10	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
11	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
12	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
13	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
14	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
15	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
16	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
17	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
18	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
19	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
20	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
21	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
22	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
23	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
24	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
25	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
26	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
27	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
28	0.6	0.0	0.0	0.9	2.8	7.5	10.8	3.4	10.3	6.1	8.9	1.4
29	0.6	0.0	0.0	0.9		7.5	10.8	3.4	10.3	6.1	8.9	1.4
30	0.6	0.0	0.0	0.9		7.5	10.8	3.4	10.3	6.1	8.9	1.4
31	0.6		0.0	0.9		7.5		3.4		6.1	8.9	

TOTAL	18	1	0	27	79	233	325	106	309	191	277	41
MEAN	1	0	0	1	3	8	11	3	10	6	9	1
MAX	1	0	0	1	3	8	11	3	10	6	9	1
MIN	1	0	0	1	3	8	11	3	10	6	9	1
AC-FT	36	2	0	53	156	462	644	210	613	378	550	82

Electrical Conductivity @ Charleston Drain - Water Year 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					5,300	2,200						
2												4,000
3												
4				5,900					4,800			
5											1,700	
6												
7			5,600									
8												
9												
10												
11												
12												
13								5,400				
14				6,000							2,230	
15		4,393		6,370			4,450	2,820				
16										3,710		
17						3,440			2,900			
18	2,730											
19							4,500					4,020
20					5,300							
21												
22												
23												
24												
25												
26									4,500			
27							3,000					
28												4,800
29												
30												
31	3,640											

Boron (mg/L) @ Charleston Drain - Water Year 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					5.7	1.8						
2												4.2
3												
4				7.7					5.1			
5											1.5	
6												
7			6.7									

8												
9												
10												
11												
12												
13								5.0				
14				5.1							1.6	
15		5.0		6.9			3.3	2.9				
16										3.8		
17						3.6			2.4			
18	2.8											
19							4.7					4.4
20					5.0							
21												
22												
23												
24												
25												
26									4.5			
27							2.9					
28												5.6
29												
30												
31	3.7											

Selenium (µg/L): Charleston Drain - Water Year 1986

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					92	36						
2												61
3							129					
4				98					76			
5											23	
6												
7			104									
8												
9												
10												
11												
12												
13								100				
14				129							25	
15		88		9			80	15				
16										60		
17						13			54			
18	21											
19							110					39
20					74							
21												
22												
23												
24												
25												

26									94			
27							57					
28												69
29												
30												
31	121											

Flow (cfs) Water Year 1987- Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
2	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
3	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
4	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
5	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
6	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
7	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
8	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
9	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
10	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
11	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
12	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
13	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
14	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
15	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
16	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
17	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
18	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
19	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
20	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
21	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
22	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
23	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
24	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
25	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
26	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
27	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
28	1.1	0.1	0.0	0.7	6.1	14.9	13.5	5.0	16.2	13.7	7.8	0.0
29	1.1	0.1	0.0	0.7		14.9	13.5	5.0	16.2	13.7	7.8	0.0
30	1.1	0.1	0.0	0.7		14.9	13.5	5.0	16.2	13.7	7.8	0.0
31	1.1		0.0	0.7		14.9		5.0		13.7	7.8	
TOTAL	34	2	0	23	171	463	404	155	485	426	241	0
MEAN	1	0	0	1	6	15	13	5	16	14	8	0
MAX	1	0	0	1	6	15	13	5	16	14	8	0
MIN	1	0	0	1	6	15	13	5	16	14	8	0
AC-FT	68	3	0	45	340	919	801	308	962	845	478	0

Electrical Conductivity Water Year 1987- Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							4,660	4,610	3,610	4,100		3,320
2												

3				5,900								
4			5,900									
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												3,130
15								3,850				
16				6,570						2,530		
17					5,490	5,240			4,180			
18		7,200										
19												
20												
21												
22												
23												
24												
25												
26												
27	3,070				5,350							
28												
29												
30												
31										2,800		

Boron (mg/L) Water Year 1987- Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							4.3	4.1	3.5	7.6		3.0
2												
3		1.9		6.0								
4			5.5									
5												
6												
7												
8												
9												
10												
11												
12												
13												
14											2.3	
15								3.2				
16				6.6						1.8		
17					4.6	4.0	3.4		4.2			
18		3.7										
19												
20												

21												
22												
23												
24												
25												
26												
27	3.6				5.2							
28												
29												
30												
31										2.7		

Selenium (µg/L) Water Year 1987- Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							82	102	65	75		47
2												
3		32		124								
4			97									
5												
6												
7												
8												
9												
10												
11												
12												
13												
14											50	
15								75				
16				5						52		
17					93	92	77		65			
18		4										
19												
20												
21												
22												
23												
24												
25												
26												
27	7				114							
28												
29												
30												
31										44		

Flow (cfs) Water Year 1988 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
2	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1

3	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
4	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
5	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
6	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
7	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
8	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
9	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
10	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
11	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
12	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
13	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
14	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
15	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
16	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
17	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
18	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
19	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
20	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
21	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
22	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
23	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
24	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
25	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
26	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
27	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
28	0.0	0.0	0.0	2.0	10.1	13.1	7.2	7.2	16.5	16.2	24.4	5.1
29	0.0	0.0	0.0	2.0		13.1	7.2	7.2	16.5	16.2	24.4	5.1
30	0.0	0.0	0.0	2.0		13.1	7.2	7.2	16.5	16.2	24.4	5.1
31	0.0		0.0	2.0		13.1		7.2		16.2	24.4	
TOTAL	0	0	0	62	282	405	216	224	496	501	755	152
MEAN	0	0	0	2	10	13	7	7	17	16	24	5
MAX	0	0	0	2	10	13	7	7	17	16	24	5
MIN	0	0	0	2	10	13	7	7	17	16	24	5
AC-FT	0	0	0	123	560	804	428	444	983	994	1,498	302

Electrical Conductivity Water Year 1988 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,730		10,220					5,547	4,300		4,450	5,200
2												
3		4,550										
4												
5								5,000				
6												4,490
7												
8												
9						4,200					4,300	
10												
11												
12												2,890
13												
14				6,030			3,730					

15							3,730		4,100	3,695	3,011	
16						4,310		4,800				
17					3,510							
18												
19												
20										3,300		
21												
22												
23												
24												
25												
26												3,944
27				5,600								
28												
29									4,100		5,195	
30						4,400			4,610			
31						5,180		4,390		8,791		

Boron (mg/L) Water Year 1988 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4		24					4.7	3.5		4.6	5.7
2												
3		4.7										
4												
5								4.0				
6												4.8
7												
8												
9						3.3					1.1	
10												
11												
12												3.0
13												
14				5.1			2.6					
15							2.6		4.3	4.1	2.9	
16						3.4		3.9				
17					2.7							
18												
19												
20										3.1		
21												
22												
23												
24												
25												
26												5.0
27				4.5								
28												
29									4.0		6.2	
30						4.1			4.0			
31						4.8		3.9		4.0		

Selenium (µg/L) Water Year 1988 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31		28					97	86		68	71
2												
3		63										
4												
5								93				
6												83
7												
8												
9						88					60	
10												
11												
12												7
13												
14				104			74					
15							74		88	47	55	
16						82		82				
17					39							
18												
19												
20										45		
21												
22												
23												
24												
25												
26												1
27				85								
28												
29									65		97	
30						96			65			
31						55		72		19		

Flow (cfs) Water Year 1989 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
2	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
3	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
4	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
5	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
6	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
7	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
8	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
9	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
10	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
11	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
12	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
13	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
14	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0

15	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
16	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
17	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
18	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
19	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
20	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
21	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
22	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
23	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
24	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
25	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
26	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
27	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
28	0.1	0.0	0.0	0.5	5.7	3.0	7.6	5.4	13.5	8.2	1.7	1.0
29	0.1	0.0	0.0	0.5		3.0	7.6	5.4	13.5	8.2	1.7	1.0
30	0.1	0.0	0.0	0.5		3.0	7.6	5.4	13.5	8.2	1.7	1.0
31	0.1		0.0	0.5		3.0		5.4		8.2	1.7	
TOTAL	4	0	0	15	159	94	227	169	406	254	51	31
MEAN	0	0	0	0	6	3	8	5	14	8	2	1
MAX	0	0	0	0	6	3	8	5	14	8	2	1
MIN	0	0	0	0	6	3	8	5	14	8	2	1
AC-FT	8	0	0	30	315	187	451	335	806	504	102	61

Electrical Conductivity (µmhos/cm) Water Year 1989 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		3,550				4,330		5,200			3,760	4,810
2												
3							5,001					
4	2,940											
5			9,273							3,180		
6				8,701								
7		7,300			4,900							2,679
8			5,330									
9												
10	3,060									4,040		
11				5,810								
12									4,504			
13					4,637	5,605						
14												
15								4,380				
16												
17				7,694			4,264			2,811		
18												
19			13,955									
20						4,246						
21		7,445										
22												
23												
24	3,258											
25												
26									4,374			4,014

27					5,211							
28												
29						5,130		4,410				1,990
30				5,973				4,400				
31										3,041		

Boron (mg/L) Water Year 1989 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		3.0				3.1		4.9			2.8	4.3
2												
3							4.5					
4	2.3											
5			15.8							2.8		
6				13.5								
7		11.3			3.8							2.4
8			5.2									
9												
10	3.1									2.8		
11				6.0								
12									3.7			
13					4.6	5.9						
14												
15								4.2				
16												
17				8.0			4.0			1.7		
18												
19			17.9									
20						4.4						
21		9.8										
22												
23												
24	3.4											
25												
26									3.1			4.3
27					6.0							
28												
29						4.0		4.0				1.6
30				4.9				3.8				
31										2.4		

Selenium (µg/L) Water Year 1989 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		44				87		81			66	76
2												
3							108					
4	32											
5			7							58		
6				4								
7		4			53							
8			81									

9												
10	11									85		
11				99								
12									78			
13					59	43						
14												
15								70				
16												
17				278			49			18		
18												
19			7									
20						61						
21		4										
22												
23												
24	8											
25												
26									96			29
27					124							
28												
29						125		89				20
30				106				9				
31										35		

Flow (cfs) Water Year 1990 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
2	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
3	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
4	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
5	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
6	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
7	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
8	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
9	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
10	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
11	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
12	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
13	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
14	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
15	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
16	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
17	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
18	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
19	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
20	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
21	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
22	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
23	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
24	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
25	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
26	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0

27	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
28	0.0	0.1	3.7	2.0	5.1	5.7	3.4	2.6	0.8	6.5	5.4	0.0
29	0.0	0.1	3.7	2.0		5.7	3.4	2.6	0.8	6.5	5.4	0.0
30	0.0	0.1	3.7	2.0		5.7	3.4	2.6	0.8	6.5	5.4	0.0
31	0.0		3.7	2.0		5.7		2.6		6.5	5.4	
TOTAL	0	2	114	63	142	177	103	80	24	201	167	0
MEAN	0	0	4	2	5	6	3	3	1	6	5	0
MAX	0	0	4	2	5	6	3	3	1	6	5	0
MIN	0	0	4	2	5	6	3	3	1	6	5	0
AC-FT	0	4	226	125	281	350	204	158	47	399	332	0

Electrical Conductivity Water Year 1990 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2					3,010							
3	4,775											
4												
5									5,210			
6												
7												
8								4,778				
9												
10							5,300				3,090	
11												
12			5,200	5,660			5,210					
13						5,540						
14												
15												
16	5,952											
17										4,030		
18												
19				4,800					5,627			
20												
21		5,188										
22												
23												
24							3,950					
25												
26												
27					4,570	5,340	5,340			2,680		
28									5,120		4,270	2,690
29			2,880									
30	4,720	4,700				5,410		4,490			3,640	
31								4,000		2,860		

Boron (mg/L) Water Year 1990 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2					2.1							

3	4.8											
4												
5									4.1			
6												
7												
8								4.1				
9												
10							4.6				2.5	
11												
12			6.3	7.0			4.9					
13						4.9						
14												
15												
16	7.6											
17										3.3		
18												
19				4.0					4.8			
20												
21		7.1										
22												
23												
24							3.6					
25												
26												
27					4.2	5.4	4.1			2.4		
28									3.7		4.3	3.0
29			2.5									
30	4.9	4.4				4.5		4.9			3.6	
31								3.2		2.3		

Selenium (µg/L) Water Year 1990 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2					41							
3	26											
4												
5									130			
6												
7												
8								78				
9												
10							71				285	
11												
12			31	16			111					
13						79						
14												
15												
16												
17										46		
18												
19				68					61			
20												

21		44										
22												
23												
24							48					
25												
26												
27					17	96	108			44		
28									95		15	34
29			39									
30	70	69				112		25			62	
31								72		25		

Flow (cfs) Water Year 1991 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
2	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
3	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
4	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
5	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
6	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
7	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
8	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
9	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
10	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
11	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
12	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
13	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
14	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
15	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
16	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
17	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
18	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
19	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
20	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
21	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
22	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
23	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
24	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
25	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
26	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
27	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
28	0.1	0.0	0.4	1.2	0.6	5.2	3.6	0.4	0.2	1.0	0.2	0.1
29	0.1	0.0	0.4	1.2		5.2	3.6	0.4	0.2	1.0	0.2	0.1
30	0.1	0.0	0.4	1.2		5.2	3.6	0.4	0.2	1.0	0.2	0.1
31	0.1		0.4	1.2		5.2		0.4		1.0	0.2	
TOTAL	3	0	11	37	18	161	107	14	5	32	6	2
MEAN	0	0	0	1	1	5	4	0	0	1	0	0
MAX	0	0	0	1	1	5	4	0	0	1	0	0
MIN	0	0	0	1	1	5	4	0	0	1	0	0
AC-FT	6	0	22	73	35	319	212	27	9	64	11	3

Electrical Conductivity (µmhos/cm) Water Year 1991 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									4,860	5,020		
2	7,232										2,430	
3									4,860	5,210		4,370
4												
5									4,710	3,970	2,690	
6					6,085	3,700			3,460			
7								6,300	4,760			2,000
8							4,890			3,210		
9								4,100			3,000	
10									4,800	2,660		
11								4,020				
12									4,760	3,940	3,575	
13												
14								4,540	4,990		3,620	
15										4,160		
16	11,705			5,008				5,040			2,780	5,800
17									4,770	4,720		4,940
18												
19								4,670	4,295	4,260	4,320	
20		2,991			4,340							
21								4,915	3,960		4,830	4,940
22					5,295					4,220		
23								3,410			4,950	4,750
24									4,055	4,490		
25				3,635			4,080	3,350				
26	2,010						2,660		3,620	4,370	1,620	
27		5,130				5,500						
28			5,910			5,130		4,610	4,830		3,620	
29										5,500		
30	6,583							4,580			3,900	4,395
31										5,420		

Boron (mg/L) Water Year 1991 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									3.7	4.1		
2	11.6										2.8	
3									2.5	4.9		4.6
4												
5									4.0	3.8	5.4	
6					6.1	4.9			4.7			
7								6.2	4.2			2.4
8							5.5			3.2		
9								3.9			4.5	
10									4.0	2.4		
11								3.7				
12									4.4	4.5	3.3	
13												
14								4.1	4.6		3.1	

15										3.8		
16	9.8			2.8				4.3			3.3	7.7
17									4.2	5.0		4.8
18												
19								4.0	3.2	4.1	4.1	
20		3.5			7.1							
21								5.1	3.2		4.6	4.8
22					5.0					4.5		
23								3.7			5.4	4.5
24									4.3	4.4		
25				3.2			4.2	3.5				
26	1.8						3.6		3.9	4.2	1.8	
27		5.1				4.0						
28			6.3			4.1		4.5	3.7		3.6	
29										5.6		
30	10.4							4.0			4.0	4.2
31										5.6		

Selenium (µg/L) Water Year 1991 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									93	98		
2	16										27	
3									92	99		48
4												
5									77	57	11	
6					116	131			80			
7								88	87			13
8							120			44		
9								45			5.8	
10									79	27		
11								53				
12									89	60	72	
13												
14								66	92		46	
15										75		
16	501			92				76			6.6	30
17									86	83		60
18												
19								71	65	63	56	
20		1			282							
21								74	58		64	60
22					77					61		
23								44			54	55
24									68	62		
25				58			68	51				
26	21						173		14	70	2	
27		84				123						
28			92			97		75	102		35	
29										116		
30	22							87			39	39
31										120		

Flow (cfs) Water Year 1992 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
2	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
3	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
4	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
5	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
6	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
7	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
8	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
9	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
10	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
11	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
12	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
13	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
14	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
15	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
16	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
17	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
18	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
19	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
20	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
21	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
22	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
23	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
24	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
25	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
26	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
27	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
28	0.0	0.0	0.4	1.2	0.6	5.0	3.1	1.4	1.7	0.9	0.0	0.0
29	0.0	0.0	0.4	1.2		5.0	3.1	1.4	1.7	0.9	0.0	0.0
30	0.0	0.0	0.4	1.2		5.0	3.1	1.4	1.7	0.9	0.0	0.0
31	0.0		0.4	1.2		5.0		1.4		0.9	0.0	
TOTAL	0	0	11	37	18	154	93	42	51	28	0	0
MEAN	0	0	0	1	1	5	3	1	2	1	0	0
MAX	0	0	0	1	1	5	3	1	2	1	0	0
MIN	0	0	0	1	1	5	3	1	2	1	0	0
AC-FT	0	0	22	73	35	305	185	83	102	55	0	0

Electrical Conductivity (µmhos/cm) Water Year 1992 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		2,780										
2							5,400					
3										3,170		
4	2,190											3,350
5									3,920			
6			4,020				5,420					
7	1,830										4,920	
8		2,970										2,040

9						4,640	5,190					
10				5,110						2,340		
11	1,830											3,790
12									4,670			
13			4,990			5,400						
14											4,170	
15		1,400						5,060				
16							5,290		4,490			
17				5,420						5,240		
18	1,350											4,430
19								4,710	4,430			
20			5,190			4,985						
21								4,600				
22												
23							3,770				3,790	
24				5,335	4,460					3,420	2,090	
25	1,370	3,500										1,280
26			5,110			4,265			4,420			
27										3,390		
28					5,685			4,300			4,190	
29								4,320				
30		6,050		5,045		5,550	4,220			4,020		
31			4,750									

Boron (mg/L) Water Year 1992 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		2.3										
2							4.9					
3										3.5		
4	1.7											3.2
5									4.5			
6			3.8				5.4					
7	1.4							3.5			4.9	
8		2.6										1.3
9						4.3	4.4					
10				4.6						2.2		
11	1.4											3.9
12									4.6			
13			5.4			5.6						
14											4.6	
15		0.93						4.6				
16							4.7		3.9			
17				5.3						6.0		
18	0.74											5.0
19								4.7	4.0			
20			5.7			4.9						
21								3.7				
22												
23							3.8				3.6	
24				5.2	5.1					2.8	1.9	
25	1.2	3.2										0.87
26			4.9			4.4			4.3			

27										3.7		
28					6.0			4.3			4.9	
29								3.9				
30		7.9		5.4		1.4	4.3			4.7		
31			4.8									

Selenium (µg/L) Water Year 1992 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		32										
2							101					
3										27		
4	19											34
5									4.6			
6			56				100					
7	15							97			73	
8		42										9
9						85	104					
10				80						3.6		
11	15											47
12									91			
13			73			99						
14											49	
15		12						75				
16							106		32			
17				73						81		
18	10											51
19								12	76			
20			89			81						
21								84				
22												
23							45				59	
24				84	39					51	4.0	
25	12	44										4.7
26			79			71			72			
27										38		
28					103						60	
29								63				
30		12		61		106	74			59		
31			5									

Flow (cfs) Water Year 1993 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
2	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
3	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
4	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
5	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
6	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
7	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
8	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7

9	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
10	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
11	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
12	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
13	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
14	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
15	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
16	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
17	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
18	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
19	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
20	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
21	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
22	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
23	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
24	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
25	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
26	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
27	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
28	0.0	0.0	0.0	0.4	1.1	5.9	5.6	2.1	6.1	3.5	3.6	2.7
29	0.0	0.0	0.0	0.4		5.9	5.6	2.1	6.1	3.5	3.6	2.7
30	0.0	0.0	0.0	0.4		5.9	5.6	2.1	6.1	3.5	3.6	2.7
31	0.0		0.0	0.4		5.9		2.1		3.5	3.6	
TOTAL	0	1	0	12	31	183	168	64	183	108	110	80
MEAN	0	0	0	0	1	6	6	2	6	3	4	3
MAX	0	0	0	0	1	6	6	2	6	3	4	3
MIN	0	0	0	0	1	6	6	2	6	3	4	3
AC-FT	0	1	0	24	62	363	333	127	362	214	219	158

Electrical Conductivity (µmhos/cm) Water Year 1993 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	1,830											
3												
4			3,920		5,640							
5												
6		2,910					3,880					
7												
8												
9	1,050											
10												
11												
12												
13										4,960	4,220	
14												
15									4,450			
16	1,010										4,130	
17								4,110				
18												
19												
20												3,170

21												
22												
23	1,040					5,090						4,930
24					4,960							
25									5,740			
26				3,410							4,090	
27												
28				5,220				5,190				
29												
30	2,180	3,760					4,980		5,450	5,090		
31												

Boron (mg/L) Water Year 1993 - Charelston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	1.5											
3												
4			3.8		6.4							
5												
6		2.6					5.2					
7												
8												
9	0.54											
10												
11												
12												
13										5.1	3.9	
14												
15									4.0			
16	0.50										4.5	
17								4.9				
18												
19												
20												3.1
21												
22												
23	0.55					5.2						6.1
24					5.6							
25									5.4			
26				2.3							4.4	
27												
28				5.3				5.0				
29												
30	2.0	3.6					4.9		4.7	5.5		
31												

Selenium (µg/L) Water Year 1993 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2	10											

3												
4			38		100							
5												
6		23					74					
7												
8												
9	4.0											
10												
11												
12												
13										88	80	
14												
15									81			
16	3.4										69	
17								95				
18												
19												
20												59
21												
22												
23	3.9					83						73
24					84							
25									108			
26				47							73	
27												
28				84				90				
29												
30	19	40					68		117	106		
31												

Flow (cfs) Water Year 1994 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
2	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
3	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
4	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
5	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
6	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
7	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
8	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
9	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
10	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
11	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
12	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
13	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
14	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
15	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
16	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
17	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
18	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
19	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
20	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2

21	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
22	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
23	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
24	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
25	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
26	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
27	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
28	1.1	0.2	1.1	3.7	2.8	13.1	7.9	6.6	7.3	4.6	4.1	0.2
29	1.1	0.2	1.1	3.7		13.1	7.9	6.6	7.3	4.6	4.1	0.2
30	1.1	0.2	1.1	3.7		13.1	7.9	6.6	7.3	4.6	4.1	0.2
31	1.1		1.1	3.7		13.1		6.6		4.6	4.1	
TOTAL	34	7	35	114	79	406	237	204	220	141	129	6
MEAN	1	0	1	4	3	13	8	7	7	5	4	0
MAX	1	0	1	4	3	13	8	7	7	5	4	0
MIN	1	0	1	4	3	13	8	7	7	5	4	0
AC-FT	68	13	70	227	157	805	470	405	437	280	255	12

Electrical Conductivity (µmhos/cm) Water Year 1994 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3,780					
2												
3				2,980								
4												
5												
6			2,370									
7						5,530						
8											3,600	
9		5,080										
10												
11												
12										3,990		
13												
14												
15												
16												
17					4,600							
18				4,290								
19												
20												
21						5,650						
22												
23		4,840										
24												
25	4,570				5,230			5,130				
26										4,360		
27							5,090			4,720		
28	1,548	1,617		4,830								
29									4,540			2,600
30							3,850		3,990			
31				6,370							3,370	

Boron (mg/L) Water Year 1994 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.3					
2												
3				3.6								
4												
5												
6			2.8									
7						4.7						
8											3.3	
9		6.2										
10												
11												
12										3.6		
13												
14												
15												
16												
17					4.2							
18				4.3								
19												
20												
21						4.1						
22												
23		6.7										
24												
25	5.0				4.2			6.5				
26										4.3		
27							4.6			4.4		
28	1.4	1.5		6.0								
29									4.0			2.6
30							4.1		3.6			
31				7.1							2.8	

Selenium (µg/L) Water Year 1994 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							74					
2												
3				28								
4												
5												
6			14									
7						108						
8											100	
9		2.0										
10												
11												
12										76		
13												
14												

15												
16												
17					284							
18				36								
19												
20												
21						113						
22												
23		16										
24												
25	19				110			78				
26										101		
27							95			97		
28	14	14		81								
29									87			32
30							130		76			
31				65							51	

Flow (cfs) Water Year 1995 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
2	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
3	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
4	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
5	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
6	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
7	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
8	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
9	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
10	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
11	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
12	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
13	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
14	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
15	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
16	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
17	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
18	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
19	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
20	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
21	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
22	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
23	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
24	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
25	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
26	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
27	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
28	0.0	0.0	0.0	3.8	14.9	12.0	9.2	5.5	4.0	8.1	10.3	5.4
29	0.0	0.0	0.0	3.8		12.0	9.2	5.5	4.0	8.1	10.3	5.4
30	0.0	0.0	0.0	3.8		12.0	9.2	5.5	4.0	8.1	10.3	5.4
31	0.0		0.0	3.8		12.0		5.5		8.1	10.3	

TOTAL	0	0	0	116	417	372	276	170	119	252	318	161
MEAN	0	0	0	4	15	12	9	5	4	8	10	5
MAX	0	0	0	4	15	12	9	5	4	8	10	5
MIN	0	0	0	4	15	12	9	5	4	8	10	5
AC-FT	0	0	0	231	827	737	548	337	236	499	631	320

Electrical Conductivity (µmhos/cm) Water Year 1995 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			4,830									
2									4,150			
3	1,570				5,140	4,980		2,930		5,660	2,600	
4												
5									5,480			
6							5,820			4,500		
7												4,110
8		3,450						5,490				
9			2,990		5,910				4,250			
10		4,690									4,180	
11												
12								5,310				
13							5,650			3,260		
14												
15			4,760		5,770		5,040					4,560
16												
17					6,010			4,880		4,210	3,890	
18		4,190										
19												
20									3,480	4,500		
21			2,350				4,660					
22		4,520						4,790				4,080
23					5,750				4,770			
24							6,970				3,270	
25												
26				3,070				5,070				
27	2,540									3,120		
28					4,470	4,950	3,100		4,680		2,830	3,040
29			2,780			5,740						
30				4,240								
31										3,660	4,960	

Boron (mg/L) Water Year 1995 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			4.5									
2									3.7			
3	1.4				4.7	4.0		2.8		5.5	2.2	
4												
5									5.6			
6							5.0			3.3		
7												3.9
8		2.9						5.9				

9			2.5		5.2				4.3			
10		5.3									3.4	
11												
12								4.8				
13							5.1			2.8		
14												
15			4.6		6.4		5.0					4.3
16												
17					5.3			4.9		3.8	3.5	
18		3.8										
19												
20									3.2	0.17		
21			1.9				4.5					
22		3.9						6.1				5.1
23					5.1				4.9			
24							6.8				2.7	
25												
26				2.6				5.4				
27	1.9									2.8		
28					5.0	4.6	2.6		4.8		2.6	0.15
29			2.3			4.9						
30				4.2								
31										3.6	4.3	

Selenium (µg/L) Water Year 1995 - Charleston Drain

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			63									
2									65			
3	9.0				89	88		52		129	34	
4												
5									95			
6							117			74		
7												59
8		37						101			71	
9			34		105				61			
10		66										
11												
12												
13							104			46		
14												
15			56		104		133					64
16												
17					96			79		41	67	
18		49										
19												
20									76	1.6		
21			25				76	96				
22		58						83				47
23					92				104			
24							99				50	
25												
26				49				99				

27	24								56		
28				89	110	54		87		46	1.3
29		25			110						
30			93								
31									42	89	

California Regional Water Quality Control Board, Central Valley Region
Sacramento Office -- Agricultural Regulatory and Planning Unit

Last Revised: 1/8/98