

MINNESOTA RIVER BASIN

05330000 MINNESOTA RIVER NEAR JORDAN, MN

LOCATION.--Lat 44°41'35", long 93° 38'30", in NW¼SW¼ sec. 7, T.114 N., R.23 W., Carver County, Hydrologic Unit 07020012, on pier at center downstream side of bridge, 1.5 mi northwest of Jordan, and at mile 39.4 upstream from Mississippi River.

DRAINAGE AREA.--16,200 mi², approximately.

PERIOD OF RECORD.--September 1934 to current year. Prior to Oct. 1, 1966, published as "near Carver, Minn".

REVISED RECORDS.--WSP 955: Drainage area. WSP 1508: 1935. WDR MN-87-2: 1976 (cal. yr. summary).

GAGE.--Water-stage recorder. Datum of gage is 690.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1966, water-stage recorder 2.8 mi downstream with auxiliary nonrecording gage at present site and present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
1	1370	3040	e3900	e2800	e1900	e2100	34200	23800	12300
15100	21000	4660							
2	1400	3090	e3800	e2750	e1900	e2500	36900	22800	12000
16000	19900	4800							
3	1370	3170	e3800	e2750	e1900	e3000	39000	21900	11500
16300	18600	4590							
4	1330	3250	e3800	e2750	e1900	e3600	40200	21200	10900
16300	16600	4170							
5	1280	3270	e3800	e2750	e1890	e4100	41200	20600	10200
15700	13900	3790							
6	1270	3370	e3900	e2700	e1890	e4600	42700	20000	9650
14600	11500	3580							
7	1240	3430	e4000	e2650	e1880	e5300	45200	19700	9140
13300	9750	3450							
8	1190	3470	e4000	e2600	e1880	e6000	50600	19700	8710
12300	8610	3360							
9	1150	3420	e4000	e2550	e1870	e6600	60600	19400	8330
11600	7810	3270							
10	1140	3370	e3900	e2500	e1860	7220	72300	19100	7900

11200	7140	3160							
11	1110	3300	e3900	e2500	e1850	e8300	79600	18700	7590
11200	6480	3090							
12	1090	3210	e3800	e2450	e1850	e9600	81900	18400	7250
11000	6120	3040							
13	1080	3040	e3800	e2400	e1840	e11000	80400	18000	6790
10800	5800	2930							
14	1070	2760	e3700	e2380	e1840	e12000	76300	17500	6340
11300	5590	2750							
15	1080	e3000	e3700	e2300	e1830	e12500	70000	16900	6010
12200	5540	2670							
16	1060	e3500	e3550	e2250	e1830	e12600	63000	16200	5660
12600	5600	2710							
17	1210	3820	e3400	e2250	e1850	e12600	56100	15400	5370
12700	5380	2780							
18	1360	e4300	e3350	e2250	e1900	e12700	50200	14700	5040
12300	5240	2660							
19	1590	e4500	e3250	e2300	e1900	e12800	45300	13800	4680
11900	5430	2500							
20	1730	e4600	e3200	e2250	e1950	e13000	41500	13100	4600
11600	8250	2380							
21	1860	e4700	e3100	e2200	e1950	e15000	38600	12500	4530
10800	9270	2310							
22	2050	e4500	e3050	e2200	e1960	e17000	36200	11700	4570
12300	8620	2240							
23	2250	e4300	e3000	e2150	e1950	e19500	34100	11000	4610
16400	8740	2220							
24	2340	e4200	e3000	e2100	e1950	20600	32200	10400	4630
17600	8390	2240							
25	2480	e4100	e2950	e2050	e1970	22400	30500	10300	5730
18200	7470	2260							
26	2520	e4100	e2900	e2000	e1980	24900	29300	11200	6770
19900	6780	2290							
27	2740	e4100	e2850	e2000	e2000	26800	28200	12300	7720
21600	6110	2290							
28	2930	e4100	e2800	e1950	e2050	28400	27100	13000	8130
22200	5560	2290							
29	2990	e4100	e2800	e1900	---	29500	26000	13100	9470
22300	5020	2210							
30	3000	e4000	e2800	e1900	---	30900	25000	12700	13100
22100	4790	2150							
31	3010	---	e2800	e1900	---	32400	---	12400	---
21600	4630	---							
TOTAL	53290	111110	106600	72480	53320	429520	1414400	501500	229220
465000	269620	88840							
MEAN	1719	3704	3439	2338	1904	13860	47150	16180	7641
15000	8697	2961							
MAX	3010	4700	4000	2800	2050	32400	81900	23800	13100
22300	21000	4800							
MIN	1060	2760	2800	1900	1830	2100	25000	10300	4530

10800	4630	2150							
AC-FT	105700	220400	211400	143800	105800	852000	2805000	994700	454700
922300	534800	176200							
CFSM	.11	.23	.21	.14	.12	.86	2.91	1.00	.47
.93	.54	.18							
IN.	.12	.26	.24	.17	.12	.99	3.25	1.15	.53
1.07	.62	.20							

o e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1997, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP							
MEAN	2230	2152	1497	911	955	5219	12250	7906	7630
5871	3354	2308							
MAX	16030	9463	5216	3344	3992	21170	48210	25510	41460
38640	25660	14460							
(WY)	1969	1996	1983	1992	1983	1983	1969	1993	1993
1993	1993	1993							
MIN	167	178	158	111	130	322	926	923	633
279	178	183							
(WY)	1935	1935	1977	1940	1940	1940	1959	1959	1976
1936	1936	1976							

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS	
1935 - 1997						
ANNUAL TOTAL	2271680		3794900			
ANNUAL MEAN	6207		10400		4363a	
HIGHEST ANNUAL MEAN						
16910	1993					
LOWEST ANNUAL MEAN						
687	1940					
HIGHEST DAILY MEAN	31200	Jun 23	81900	Apr 12	112000	Apr
11 1965						
LOWEST DAILY MEAN	1060	Oct 16	1060	Oct 16	85	Jan
21 1940						
ANNUAL SEVEN-DAY MINIMUM	1090	Oct 10	1090	Oct 10	89	Jan
20 1940						
INSTANTANEOUS PEAK FLOW			82300	Apr 12	117000	Apr
11 1965						
INSTANTANEOUS PEAK STAGE			32.24	Apr 12	35.07	Apr
12 1965						
INSTANTANEOUS LOW FLOW			1060	Oct 14	79	Nov
17 1955						
ANNUAL RUNOFF (AC-FT)	4506000		7527000		3161000	
ANNUAL RUNOFF (CFSM)	.38		.64		.27	
ANNUAL RUNOFF (INCHES)	5.22		8.71		3.66	
10 PERCENT EXCEEDS	13500		24200		11700	
50 PERCENT EXCEEDS	3360		4570		1800	
90 PERCENT EXCEEDS	1500		1900		308	

- o a Median of annual mean discharges is 3483 ft³/s.

(National Water-Quality Assessment Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-63-69, 1972 to current year. NASQAN site prior to 1996.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1996 to current year.

SPECIFIC CONDUCTANCE: June 1996 to current year.

INSTRUMENTATION.--Electronic data logger and water temperature/ specific conductance probe since June 1996, provides continuous recordings. Sensor located at gage.

REMARKS.--Records represent water temperature at sensor within 0.5 °C. Temperature and conductance at the sensor was compared with water-quality instruments at least monthly. Variation of temperature was within 0.5 °C; variation of conductance was within 14% (corrections applied).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 27.5 °C, July 18, 1997; minimum, 0.0 °C, on many days during winter.

SPECIFIC CONDUCTANCE: Maximum, 1080 µs/cm, Feb. 20, 21, 1997; minimum, 484 µs/cm, July 26, 1997.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.5 °C, July 18; minimum, 0.0 °C, on many days during winter.

SPECIFIC CONDUCTANCE: Maximum, 1080 µs/cm, Feb. 20, 21; minimum, 484 µs/cm, July 26.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
MAX	MIN	MEAN							

	DECEMBER	OCTOBER	JANUARY		NOVEMBER				
1	16.7	15.1	15.8	5.6	4.4	5.0	.5	.5	.5
.5	.5	.5							
2	16.7	15.3	15.9	4.4	3.4	3.8	.5	.5	.5
.5	.5	.5							
3	15.3	14.1	14.6	3.7	2.9	3.3	.5	.5	.5
.5	.5	.5							
4	14.4	13.7	13.9	3.9	3.3	3.5	.5	.5	.5
.5	.5	.5							
5	15.2	13.5	14.2	4.5	3.9	4.2	.5	.5	.5
.5	.5	.5							
6	15.2	14.5	14.8	4.7	4.5	4.6	.5	.5	.5
.5	.5	.5							
7	14.7	13.9	14.2	4.9	4.2	4.5	.5	.5	.5
.5	.5	.5							
8	13.9	13.0	13.6	4.7	4.4	4.5	.5	.5	.5
.5	.5	.5							
9	13.9	12.8	13.5	4.4	3.6	3.9	.5	.0	.5
.5	.5	.5							
10	13.1	12.2	12.6	3.6	2.5	2.9	.0	.0	.0
.5	.5	.5							
11	12.9	11.7	12.3	2.5	1.5	2.0	.0	.0	.0
.5	.5	.5							
12	13.6	12.0	12.7	1.5	.7	.9	.5	.0	.0
.5	.5	.5							
13	14.2	12.6	13.2	.9	.5	.6	.5	.0	.0
.5	.0	.5							
14	14.2	13.0	13.5	.5	.2	.3	.5	.0	.0
.5	.5	.5							
15	15.2	13.7	14.4	.4	.2	.2	.5	.0	.0
.5	.5	.5							
16	15.4	13.8	14.5	1.4	.3	.7	.5	.0	.0
.5	.5	.5							
17	14.9	12.9	14.3	1.4	1.2	1.3	.5	.0	.0
.5	.0	.5							
18	12.9	11.5	12.1	1.6	1.2	1.4	.5	.0	.5
.5	.5	.5							
19	11.8	10.9	11.3	1.3	.2	.5	.5	.0	.5
.5	.5	.5							
20	11.2	10.5	10.9	.3	.2	.2	.5	.0	.5
.5	.5	.5							
21	11.3	10.5	10.8	.4	.2	.3	.5	.5	.5
.5	.5	.5							
22	10.6	9.7	10.2	.4	.3	.3	.5	.5	.5
.5	.5	.5							
23	9.7	8.9	9.3	.4	.3	.4	.5	.5	.5
.5	.5	.5							
24	8.9	8.1	8.5	.4	.2	.3	.5	.0	.5

14.2	13.1	13.5							
13	.5	.5	.5	.0	.0	.0	3.5	2.5	3.0
13.2	12.7	12.9							
14	.5	.5	.5	.0	.0	.0	4.0	3.0	3.5
12.8	11.7	12.2							
15	.5	.5	.5	.0	.0	.0	4.5	4.0	4.0
11.7	11.0	11.3							
16	.5	.5	.5	.0	.0	.0	5.0	4.0	4.5
12.1	11.1	11.5							
17	.5	.5	.5	.5	.0	.0	5.5	4.5	5.0
13.6	12.1	12.6							
18	.5	.5	.5	.0	.0	.0	6.0	5.0	5.5
15.2	13.6	14.2							
19	.5	.5	.5	.0	.0	.0	7.0	5.5	6.5
15.6	15.2	15.3							
20	.5	.5	.5	.0	.0	.0	8.5	7.0	7.5
16.0	15.4	15.6							
21	.5	.5	.5	.0	.0	.0	9.5	8.0	9.0
16.0	15.5	15.8							
22	.5	.5	.5	1.0	.0	.5	10.5	9.0	9.5
16.1	15.8	15.9							
23	.5	.5	.5	1.5	.5	1.0	11.0	10.0	10.5
16.8	16.1	16.3							
24	.5	.5	.5	1.5	.5	1.0	11.0	10.5	10.5
17.3	16.8	17.1							
25	.5	.5	.5	1.0	.5	.5	11.5	10.5	11.0
17.3	16.8	17.1							
26	.5	.5	.5	1.5	.5	1.0	12.0	11.5	11.5
16.8	16.1	16.3							
27	.5	.5	.5	3.5	1.5	2.5	12.5	11.5	12.0
16.1	15.4	15.7							
28	.5	.5	.5	4.0	3.5	4.0	13.0	12.0	12.5
15.4	14.4	15.0							
29	---	---	---	5.0	4.0	4.5	14.0	13.0	13.5
14.4	13.6	14.0							
30	---	---	---	5.0	4.5	5.0	14.0	12.5	13.5
14.6	13.4	13.8							
31	---	---	---	5.5	4.0	4.5	---	---	---
15.8	14.4	14.9							
MONTH	.5	.5	.5	5.5	.0	.8	14.0	2.5	7.3
17.3	11.0	14.2							

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
MAX	MIN	MEAN							
		JUNE			JULY				
AUGUST			SEPTEMBER						
1	17.3	15.7	16.4	22.5	21.0	21.5	23.5	23.0	23.0
23.5	20.5	22.0							

2	18.7	17.2	17.9	22.5	22.0	22.0	24.0	23.0	23.5
21.5	18.0	19.0							
3	19.9	18.7	19.2	22.0	20.5	21.0	25.0	24.0	24.5
23.0	16.0	19.5							
4	---	---	---	20.5	19.5	20.0	25.5	24.5	25.0
22.5	21.5	22.0							
5	---	---	---	20.0	19.5	19.5	25.5	25.0	25.0
22.0	21.0	21.5							
6	---	---	---	20.5	19.5	20.0	25.0	24.5	25.0
22.5	21.0	22.0							
7	---	---	---	20.0	20.0	20.0	25.0	24.0	25.0
22.5	21.0	22.0							
8	---	---	---	20.0	19.5	19.5	25.0	24.0	24.5
22.5	21.0	22.0							
9	---	---	---	20.5	19.5	20.0	25.0	23.5	24.5
22.5	19.5	22.0							
10	---	---	---	21.0	20.5	21.0	24.5	22.5	23.5
22.5	18.5	21.5							
11	---	---	---	22.0	21.0	21.0	23.5	21.5	23.0
22.5	18.5	21.0							
12	---	---	---	23.0	22.0	22.5	23.0	21.0	22.5
22.0	18.0	21.0							
13	---	---	---	24.5	23.0	23.5	22.5	20.5	22.0
22.0	18.0	20.5							
14	---	---	---	25.0	24.0	24.5	22.0	20.0	21.5
22.0	18.0	21.0							
15	---	---	---	25.0	24.0	24.5	23.0	20.0	22.0
22.5	18.5	21.5							
16	---	---	---	26.0	25.0	25.5	23.5	21.0	23.0
22.5	18.5	21.0							
17	---	---	---	27.0	26.0	26.5	24.0	21.5	23.0
22.0	18.0	21.0							
18	---	---	---	27.5	27.0	27.0	22.5	21.0	22.0
23.5	18.0	21.5							
19	---	---	---	27.0	26.0	26.5	22.0	19.5	21.5
23.0	18.0	21.5							
20	---	---	---	26.5	25.5	26.0	20.5	18.5	20.0
22.0	17.0	20.0							
21	---	---	---	27.0	26.0	26.5	20.5	18.5	19.5
20.5	16.0	19.5							
22	---	---	---	27.0	23.5	25.5	21.5	20.0	20.5
20.5	15.0	18.5							
23	---	---	---	24.0	22.5	23.0	22.0	20.5	21.5
20.0	14.0	18.0							
24	---	---	---	23.5	23.0	23.0	22.5	21.5	22.0
20.0	14.0	18.0							
25	---	---	---	23.5	23.0	23.0	23.0	21.5	22.5
20.5	14.5	18.5							
26	---	---	---	24.0	23.0	23.5	---	---	---
21.0	15.0	19.0							
27	26.1	25.0	25.6	24.5	24.0	24.5	---	---	---

15	858	841	850	1030	1020	1030	991	977	985
979	966	975							
16	852	836	844	1030	945	992	1000	987	993
984	975	980							
17	843	793	811	945	876	921	1010	993	1000
987	982	985							
18	809	787	800	876	821	843	1040	1000	1020
994	983	990							
19	787	759	773	824	809	816	1040	1030	1030
999	992	995							
20	825	774	797	818	803	808	1040	1020	1030
1000	994	995							
21	828	737	784	826	818	821	1040	1020	1030
1000	997	1000							
22	774	745	762	859	824	844	1040	1020	1030
1010	996	1010							
23	822	774	796	867	857	862	1040	1030	1030
1010	997	1010							
24	843	822	837	887	867	880	1040	1030	1030
1030	999	1010							
25	867	838	851	917	886	899	1040	1020	1030
1030	999	1010							
26	872	857	865	924	917	921	1030	a1000	1030
1010	a969	996							
27	892	---	---	949	923	934	1030	a1010	1030
1010	1000	1010							
28	---	---	---	959	947	954	1030	a1000	1030
1010	1000	1010							
29	---	---	---	1020	953	992	1030	a1000	1020
1010	a991	1010							
30	---	---	---	1050	1020	1040	1010	a1010	1010
1020	1000	1010							
31	---	---	---	---	---	---	1010	995	1000
1020	1000	1020							
MONTH	---	---	---	---	---	---	1040	943	997
1030	941	986							

o a Minimum observed.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
MAX	MIN	MEAN							
			FEBRUARY			MARCH			

APRIL

MAY

1	1020	1000	1010	792	764	778	514	508	512
692	687	690							
2	1020	1000	1010	764	746	755	508	491	499
693	689	692							
3	1040	995	1010	762	752	758	491	486	488
695	692	694							
4	1040	994	1020	764	751	758	490	486	488
698	693	696							
5	1020	a991	1010	752	730	736	493	490	491
700	695	698							
6	1020	a986	1010	738	725	731	495	491	493
698	693	696							
7	1010	a982	1000	738	716	721	501	495	498
698	691	693							
8	1010	a966	997	742	716	730	505	501	503
715	698	707							
9	1010	a974	997	762	742	751	531	505	518
719	715	717							
10	1040	1000	1020	776	762	772	536	523	528
722	718	719							
11	1040	1010	1030	789	739	772	574	536	554
731	722	726							
12	1040	1020	1030	740	630	698	584	574	582
739	730	735							
13	1050	1030	1040	630	548	575	582	562	572
752	739	745							
14	1050	1030	1050	548	526	534	563	557	558
774	752	765							
15	1050	1030	1050	538	525	529	565	558	561
783	774	779							
16	1060	1040	1050	566	538	551	572	565	568
788	782	785							
17	1070	1040	1060	588	564	577	582	572	577
793	788	791							
18	1070	1060	1070	615	588	597	593	582	588
797	792	794							
19	1060	1040	1050	650	613	634	605	593	599
796	794	795							
20	1080	1030	1050	665	639	659	615	605	610
795	792	794							
21	1080	1040	1060	666	643	661	622	614	618
798	792	795							
22	1060	1030	1040	652	594	626	628	621	625
806	797	801							
23	1050	1030	1030	621	537	562	637	628	632
818	804	808							
24	1040	1020	1030	537	526	531	645	636	640
829	808	815							
25	1040	1000	1020	530	526	527	653	644	648
812	803	810							

12	---	---	---	811	801	805	873	838	858
827	785	815							
13	---	---	---	805	801	803	847	834	843
830	793	820							
14	---	---	---	809	787	802	850	837	846
834	802	824							
15	---	---	---	787	769	779	849	830	844
856	803	835							
16	---	---	---	770	754	759	842	823	838
859	816	844							
17	---	---	---	763	755	759	852	826	842
835	806	827							
18	---	---	---	762	755	759	851	827	844
839	806	827							
19	---	---	---	766	749	761	837	707	816
843	816	834							
20	---	---	---	765	747	754	755	620	687
850	821	839							
21	---	---	---	770	762	766	664	612	638
864	828	850							
22	---	---	---	770	609	722	717	662	693
867	831	852							
23	---	---	---	639	536	571	739	716	724
859	825	847							
24	---	---	---	615	550	576	749	733	742
862	830	849							
25	---	---	---	624	523	602	778	737	755
869	837	857							
26	---	---	---	541	484	503	---	---	---
868	836	854							
27	788	744	762	584	517	554	804	784	794
868	833	853							
28	801	785	792	584	564	573	---	---	---
868	836	857							
29	811	702	788	598	564	577	---	---	---
865	818	846							
30	740	640	691	643	598	622	---	---	---
869	823	855							
31	---	---	---	679	643	662	---	---	---
	---	---							---
MONTH	---	---	---	813	484	709	---	---	---
	---	---							---

OXYGEN,
 DIS-
 SOLVED

DIS-
 CHARGE,
 INST.

SPE-
 SPE-
 CIFIC

SPE-
 CIFIC
 CON-

PH
 WATER
 WHOLE

PH
 WATER
 WHOLE

BARO-
 METRIC
 PRES-

(PER- CENT DATE SATUR- ATION) (00301)	TIME	CUBIC FEET PER SECOND (00061)	CON- DUCT- ANCE LAB (US/CM) (00095)	DUCT- ANCE LAB (US/CM) (90095)	FIELD (STAND- ARD UNITS) (00400)	LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE WATER (DEG C) (00010)	SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)		
OCT 08...	1023	1200	874	864	8.2	8.1	13.0	748	11.5	111	
NOV 08...	1015	3500	948	966	8.2	8.2	4.5	--	12.2	96	
DEC 09...	1200	6660	960	949	8.0	7.7	0.0	745	12.1	85	
JAN 07...	1045	4070	942	951	7.4	7.8	0.0	756	9.1	63	
FEB 10...	1030	1860	990	1010	7.4	7.8	0.0	762	9.8	67	
MAR 04...	1000	5290	742	759	7.5	7.8	0.0	--	10.7	75	
17...	1140	12600	556	565	7.6	7.5	0.0	749	11.4	80	
APR 14...	1155	76500	552	549	7.9	7.6	3.5	750	12.1	92	
22...	1230	36200	619	634	8.0	7.7	9.5	743	9.3	88	
MAY 14...	1150	17500	760	770	8.4	8.1	12.0	7	10.8	103	
JUN 04...	1100	10900	808	790	8.2	8.3	19.5	746	8.3	91	
24...	1255	4590	819	792	8.2	8.2	25.0	738	7.4	92	
JUL 01...	1212	15200	660	617	7.9	7.9	21.0	741	6.8	80	
17...	1045	12700	763	731	8.1	8.2	26.0	745	6.5	82	
AUG 13...	1135	5790	847	828	8.1	8.2	21.5	750	7.2	83	
SEP 04...	1100	4070	784	768	8.1	8.3	21.5	757	8.2	94	
NITRO- GEN, NO2+NO3 ORGANIC SOLVED DATE (MG/L N)	HARD- NESS TOTAL DIS- (MG/L AS CACO3)	ALKA- LINITY WAT DIS TOT IT LAB (MG/L FIELD (MG/L AS CACO3)	ALKA- LINITY LAB (MG/L AS CACO3)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN,AM- MONIA + TOTAL (MG/L AS N)		
	(00900)	(39086)	(90410)	(00453)	(00452)	(00608)	(00613)	(00623)	(00625)		

(00631)

OCT										
08...	390	263	268	321	0	0.020	<0.010	0.40	1.5	
0.130										
NOV										
08...	450	217	287	265	0	0.030	0.030	0.60	1.1	
4.00										
DEC										
09...	490	309	327	377	0	0.220	0.030	0.80	0.80	
7.30										
JAN										
07...	420	316	329	386	0	0.320	0.040	0.80	0.80	
5.70										
FEB										
10...	460	350	354	427	0	0.400	0.060	0.80	1.0	
4.70										
MAR										
04...	370	256	261	312	0	0.390	0.050	1.0	1.4	
5.10										
17...	270	183	196	223	0	0.340	0.080	1.0	1.7	
5.40										
APR										
14...	250	145	153	177	0	0.333	0.065	0.63	1.4	
3.13										
22...	290	167	178	204	0	0.072	0.044	0.75	1.3	
3.04										
MAY										
14...	370	212	219	236	11	<0.015	0.020	0.48	1.3	
2.33										
JUN										
04...	400	252	263	307	0	<0.015	0.023	0.40	1.2	
6.50										
24...	390	247	260	301	0	0.029	0.023	0.40	1.1	
4.02										
JUL										
01...	310	221	203	270	0	<0.015	0.082	0.82	2.1	
10.3										
17...	380	233	243	284	0	<0.015	0.028	0.62	1.5	
6.96										
AUG										
13...	410	255	278	311	0	<0.015	0.019	0.68	1.5	
3.45										
SEP										
04...	370	267	270	323	1	<0.015	0.019	0.53	1.3	
2.95										

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

POTAS-	PHOS-	PHOS-	CARBON,	CARBON,	MAGNE-	SODIUM
		PHORUS	CARBON,	ORGANIC		

SIUM, DIS- SOLVED DATE (MG/L K) (00935)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHORUS DIS- SOLVED (MG/L AS P) (00666)	ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SUS- PENDEDED TOTAL (MG/L AS C) (00689)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	AD- SORP- TION RATIO AS (00931)
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OCT 08...	0.100	<0.010	<0.010	4.9	>5.0	82	45	35	0.8	4.8
NOV 08...	0.200	0.050	0.050	6.0	3.9	100	49	27	0.6	5.0
DEC 09...	0.080	0.080	0.080	5.3	0.50	120	47	20	0.4	3.8
JAN 07...	0.100	0.080	0.090	5.0	0.40	100	42	25	0.5	3.7
FEB 10...	0.090	0.090	0.100	4.9	0.20	110	46	28	0.6	4.2
MAR 04...	0.220	0.130	0.170	6.3	1.1	91	34	18	0.4	4.3
17...	0.360	0.180	0.170	7.3	2.7	70	24	8.8	0.2	4.2
APR 14...	0.307	0.112	0.113	6.3	2.8	60	24	9.0	0.2	4.8
22...	0.202	0.119	0.109	6.3	1.0	68	28	11	0.3	5.1
MAY 14...	0.111	<0.010	<0.010	6.2	2.2	83	40	16	0.4	4.8
JUN 04...	0.150	0.047	0.032	4.9	3.2	94	40	15	0.3	3.7
24...	0.151	0.010	0.032	5.7	3.1	88	41	19	0.4	4.3
JUL 01...	0.600	0.182	0.145	6.6	2.0	77	29	10	0.2	3.7
17...	0.309	0.119	0.112	5.6	1.8	92	37	13	0.3	3.6
AUG 13...	0.299	0.127	0.115	6.4	4.6	97	41	17	0.4	4.4
SEP 04...	0.206	0.076	0.076	6.7	3.2	84	38	17	0.4	4.3

SED. SUSP. SIEVE DIAM. FINER DATE THAN .062 MM	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS SO4)	SILICA, DIS- SOLVED (MG/L AS SIO2)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SEDI- MENT, SUS- PENDEDED (MG/L)	%
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(00940) (00945) (00950) (00955) (01046) (01056) (70300) (70301) (80154)
 (70331)

OCT											
08...	39	160	0.30	13	<3.0	38	562	538	56	75	
NOV											
08...	28	210	0.40	14	<3.0	10	653	582	182	66	
DEC											
09...	27	160	0.40	21	7.0	17	646	617	114	57	
JAN											
07...	34	140	0.40	20	<3.0	41	631	581	145	18	
FEB											
10...	34	150	0.40	23	8.0	110	662	627	168	39	
MAR											
04...	23	110	0.30	20	9.0	37	490	478	87	62	
17...	16	65	0.30	17	12	49	355	340	233	66	
APR											
14...	9.9	110	0.26	15	8.7	14	362	331	119	98	
22...	10	130	0.25	16	4.0	11	411	380	61	91	
MAY											
14...	15	170	0.28	5.7	4.0	5.1	517	473	138	74	
JUN											
04...	19	130	0.41	13	<3.0	<1.0	538	496	--	--	
24...	22	140	0.33	13	<3.0	1.7	538	493	232	80	
JUL											
01...	15	79	0.38	22	<3.0	<1.0	455	416	595	91	
17...	17	110	0.40	23	<3.0	<1.0	536	470	339	90	
AUG											
13...	20	150	0.40	24	<3.0	4.1	677	518	223	95	
SEP											
04...	21	110	0.36	22	<3.0	1.3	522	475	--	--	