



Water-Data Report 2010

09379500 SAN JUAN RIVER NEAR BLUFF, UT

Lower San Juan Basin
Lower San Juan Subbasin

LOCATION.--Lat 37°08'49", long 109°51'51" referenced to North American Datum of 1927, in SE ¼ NE ¼ SW ¼ sec.7, T.42 S., R.19 E., San Juan County, UT, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft above NGVD of 1929, from levels of Topographic Division, U.S. Geological Survey. Prior to March 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962.

EXTREMES FOR PERIOD OF RECORD.--(water years 1914-17, 1927-2005) maximum discharge, 70,000 ft³/s, Sep 10, 1927, gage height, 32.0 ft, from rating curve extended above 31,000 ft³/s, and slope-area measurement at gage height, 26.62 ft; no flow Jul 3-13, 1934, Aug 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sep 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug 1	0515	*7,490	*8.72

Minimum daily discharge, 383 ft³/s, Oct 1.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	383	806	880	925	959	937	979	1,770	3,480	651	3,840	822
2	392	759	870	917	888	940	1,020	1,610	3,190	706	4,250	802
3	538	767	868	864	827	959	1,130	1,320	3,000	812	5,280	784
4	682	772	860	906	790	962	980	1,140	2,570	923	3,280	750
5	719	782	807	869	783	982	864	945	2,230	939	2,680	712
6	734	777	846	e850	797	1,010	922	836	2,830	997	2,340	702
7	705	763	823	e840	1,490	1,020	1,120	751	3,600	931	2,270	645
8	678	762	927	e850	2,060	1,610	931	1,230	3,770	848	1,690	934
9	633	769	868	e850	1,220	1,440	842	1,410	3,330	788	1,540	3,110
10	619	765	838	e840	1,180	1,850	829	1,500	3,010	683	1,930	2,580
11	577	763	769	e850	1,090	1,880	867	1,580	2,780	684	1,310	1,240
12	545	750	808	e860	955	1,460	911	1,990	2,480	680	1,270	1,030
13	515	768	855	e830	912	1,210	1,130	1,870	2,220	623	1,080	912
14	510	781	841	e840	883	1,130	1,430	1,560	1,960	579	773	896
15	524	834	841	e850	861	1,230	1,540	1,310	1,640	511	1,170	827
16	570	874	822	e830	840	1,210	1,350	1,090	1,330	495	1,180	737
17	569	894	815	e810	867	1,160	1,230	929	1,080	515	1,000	651
18	618	868	798	e820	854	1,110	1,580	807	1,020	560	1,180	671
19	638	837	801	e830	853	1,190	2,320	940	898	703	931	703
20	623	828	831	e850	887	1,240	2,340	1,910	821	638	1,840	652
21	666	841	843	e870	921	1,340	2,260	1,530	816	633	1,500	652
22	631	844	875	3,360	1,030	1,240	2,270	1,230	757	855	1,110	1,200
23	622	849	859	1,650	1,040	1,130	2,640	2,140	693	891	943	3,670
24	620	841	874	1,660	1,040	1,080	2,680	3,140	617	850	984	3,010
25	612	826	847	902	933	1,130	1,990	2,710	620	774	1,110	1,560
26	592	815	826	848	963	1,090	1,470	2,480	488	1,130	1,310	1,280
27	580	822	843	774	958	1,070	1,260	1,800	646	2,160	1,090	1,150
28	594	814	816	772	928	1,000	1,140	1,930	754	1,770	911	1,070
29	645	846	804	933	---	906	1,160	3,000	689	1,300	861	927
30	699	862	829	1,220	---	839	1,540	4,050	663	1,260	845	850
31	722	---	908	1,130	---	842	---	4,280	---	1,640	856	---
Total	18,755	24,279	26,092	31,200	27,809	36,197	42,725	54,788	53,982	27,529	52,354	35,529
Mean	605	809	842	1,006	993	1,168	1,424	1,767	1,799	888	1,689	1,184
Max	734	894	927	3,360	2,060	1,880	2,680	4,280	3,770	2,160	5,280	3,670
Min	383	750	769	772	783	839	829	751	488	495	773	645
Ac-ft	37,200	48,160	51,750	61,890	55,160	71,800	84,750	108,700	107,100	54,600	103,800	70,470

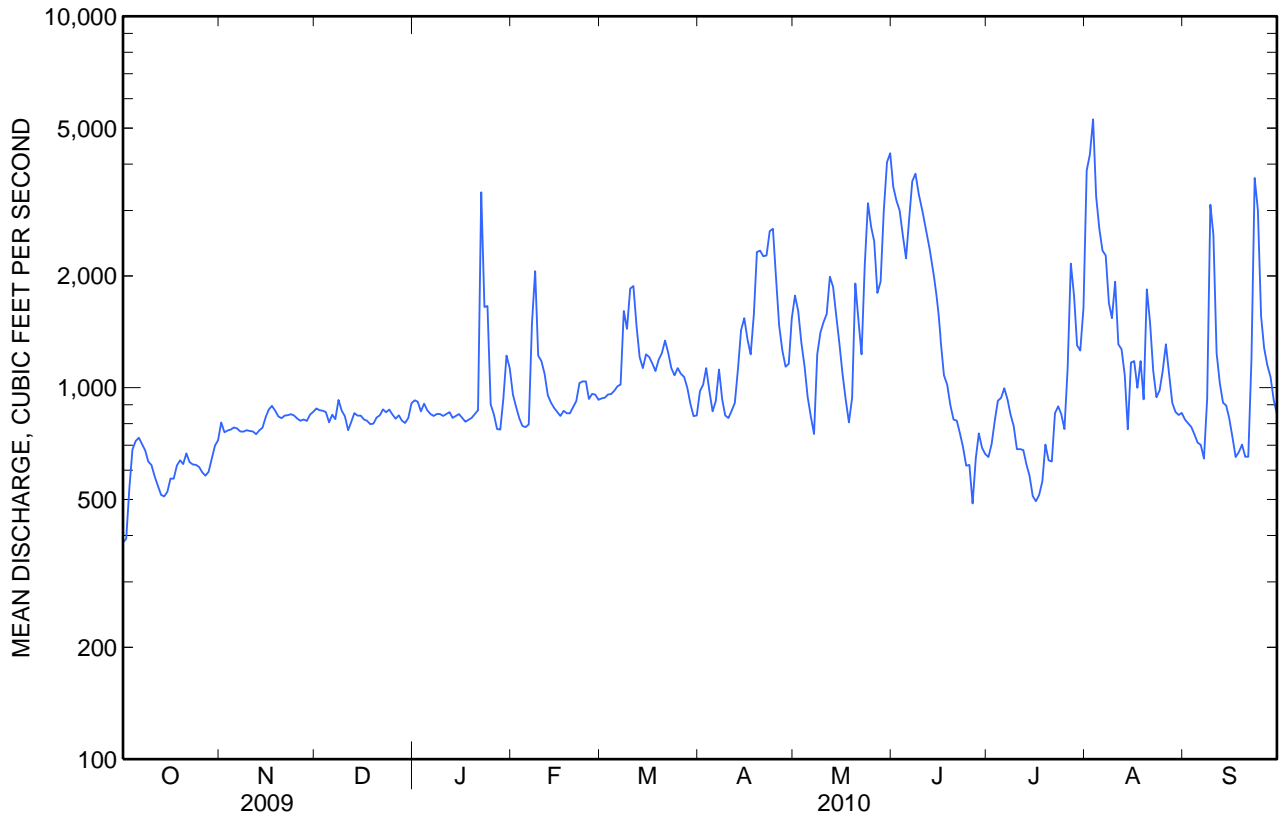
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916, 1930-2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,513	1,202	1,073	1,097	1,394	1,820	3,234	5,056	5,379	2,358	1,708	1,603
Max	10,650	4,435	3,821	3,374	3,683	6,209	10,120	21,520	15,380	9,212	9,335	11,870
(WY)	(1942)	(1987)	(1966)	(1986)	(1987)	(1916)	(1942)	(1941)	(1941)	(1957)	(1929)	(1927)
Min	205	345	408	335	516	463	399	339	479	236	80.4	64.5
(WY)	(1957)	(1935)	(1957)	(1931)	(2004)	(1964)	(1977)	(1977)	(2002)	(1963)	(1939)	(1956)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1916, 1930-2010	
Annual total	462,726		431,239			
Annual mean	1,268		1,181		2,192	
Highest annual mean					5,859	1941
Lowest annual mean					742	2002
Highest daily mean	5,970	Jun 3	5,280	Aug 3	52,000	Jun 30, 1927
Lowest daily mean	383	Oct 1	383	Oct 1	0.00	Jul 3, 1934
Annual seven-day minimum	451	Sep 27	544	Oct 11	0.00	Jul 3, 1934
Annual runoff (ac-ft)	917,800		855,400		1,588,000	
10 percent exceeds	3,240		2,220		5,290	
50 percent exceeds	826		894		1,200	
90 percent exceeds	566		649		501	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1941 to September 1977, October 1980 to July 1999, July 2000 to current year.

WATER TEMPERATURE: May 1944 to September 1961, October 1964 to September 1999, July 2000 to current year.

SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

INSTRUMENTATION.--Water-quality monitor October 1980 to September 1999, July 2000 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available at USGS Utah Water Science Center, Salt Lake City, Utah.

Specific conductance records excellent, except for Oct 2 to Nov 5 which are good. Daily values were not published on several days due to equipment failure.

Water temperature records excellent. Daily values were not published on several days due to equipment failure.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,790 microsiemens/cm, Sep 19, 1959; minimum daily, 208 microsiemens/cm, Jun 17, 1952.

WATER TEMPERATURE: Maximum, 33.4°C, Aug 14, 1998; minimum, -0.2°C, on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L, Sep 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.

SEDIMENT LOADS: Maximum daily, 15,700,000 tons, Oct 20, 1972; minimum daily, no flow on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 2,140 microsiemens/cm, Sept. 22; minimum, 252 microsiemens/cm, May 31.

WATER TEMPERATURE: Maximum, 30.3°C, July 16, 18; minimum, -0.1°C, on many days.

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	828	816	822	765	741	758	---	---	---	683	652	666
2	841	825	833	764	726	754	---	---	---	677	627	653
3	835	812	823	726	706	718	---	---	---	711	668	687
4	815	777	801	719	706	712	711	659	686	735	684	709
5	777	721	749	737	709	722	694	658	682	733	679	709
6	721	689	702	736	730	733	676	657	669	786	698	---
7	691	680	687	744	731	736	725	652	693	727	656	689
8	682	670	678	733	716	727	730	655	691	717	682	700
9	680	675	678	736	719	728	710	671	694	728	652	696
10	683	673	679	726	721	723	718	666	696	706	616	644
11	710	682	695	721	711	718	713	686	697	734	669	707
12	713	700	708	718	711	715	709	667	685	703	659	687
13	710	700	705	711	706	710	729	700	716	701	685	695
14	708	704	706	713	703	708	709	698	704	685	662	676
15	704	697	701	715	703	708	722	698	708	691	643	663
16	710	696	704	747	715	737	716	699	710	643	617	631
17	707	697	702	770	746	757	723	689	704	628	617	625
18	708	697	704	770	759	764	727	679	702	646	628	640
19	697	684	691	776	744	764	737	677	704	644	605	633
20	684	666	676	750	733	741	736	672	703	605	547	569
21	763	660	686	743	726	735	717	675	695	605	580	593
22	677	669	673	738	726	733	696	663	678	607	429	532
23	683	673	679	730	719	725	707	660	682	646	496	560
24	686	679	682	729	714	722	693	682	687	641	617	624
25	699	684	690	721	713	717	701	677	688	760	627	680
26	712	694	702	718	---	---	722	684	702	854	760	817
27	713	707	709	---	---	---	725	673	699	842	772	812
28	726	709	720	---	---	---	740	717	726	794	755	777
29	728	722	725	---	---	---	750	692	718	794	757	776
30	731	724	726	---	---	---	736	706	721	757	681	721
31	742	726	731	---	---	---	712	665	698	796	710	740
Month	841	660	715	---	---	---	---	---	---	854	429	---

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	853	793	823	817	797	809	935	852	883	545	487	513
2	851	799	823	814	797	806	951	842	885	487	460	470
3	852	804	823	826	803	813	934	855	889	523	469	502
4	842	805	820	855	822	843	903	851	881	559	523	539
5	830	782	805	877	843	853	902	853	864	615	559	582
6	815	767	795	931	869	888	909	842	857	651	615	631
7	783	586	705	938	906	922	911	781	851	662	651	660
8	673	580	614	938	737	806	839	775	812	687	642	673
9	732	638	698	871	741	801	848	798	825	642	506	564
10	811	702	760	875	793	835	812	796	806	506	490	498
11	877	811	845	858	802	829	816	797	805	498	464	479
12	881	833	867	903	794	832	801	777	787	477	444	457
13	870	825	847	994	861	902	780	719	752	444	404	414
14	853	802	830	1,080	991	1,030	719	671	696	431	404	413
15	817	789	806	1,030	970	989	671	609	627	471	431	449
16	833	795	813	1,050	929	973	615	579	590	523	471	495
17	818	772	789	939	856	906	620	587	595	554	523	540
18	830	778	799	1,000	929	947	620	599	612	567	554	563
19	807	751	778	1,020	964	993	606	554	576	613	566	586
20	796	726	767	1,010	916	965	554	488	519	615	465	540
21	794	761	779	1,010	937	977	522	486	502	467	418	436
22	807	780	792	937	830	875	488	459	467	443	423	430
23	830	804	814	906	825	861	462	428	458	492	443	471
24	828	797	812	941	793	857	467	448	457	472	321	398
25	814	784	794	940	859	896	494	459	481	327	307	316
26	849	791	821	893	819	845	530	492	511	343	323	332
27	840	787	811	848	825	838	551	530	542	374	343	355
28	826	785	804	860	826	835	584	551	571	416	373	397
29	---	---	---	864	834	847	590	584	588	416	344	387
30	---	---	---	857	819	840	589	545	570	344	274	309
31	---	---	---	894	838	865	---	---	---	290	252	272
Month	881	580	794	1,080	737	880	951	428	675	687	252	473

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	276	257	267	563	551	555	1,910	725	1,040	659	600	634
2	306	275	294	560	539	549	1,200	696	795	658	607	632
3	314	297	308	542	522	531	1,160	833	984	612	606	608
4	334	308	320	526	502	512	1,040	780	891	606	581	590
5	356	334	342	612	525	550	1,000	702	783	595	572	582
6	364	354	360	525	516	519	821	676	713	589	570	579
7	354	284	322	517	505	509	877	684	791	594	574	584
8	284	267	276	507	485	492	684	563	607	2,090	572	725
9	291	267	278	493	480	488	709	660	682	1,690	474	832
10	305	272	295	516	490	500	699	645	674	1,670	787	1,260
11	315	297	307	541	516	528	839	684	752	974	792	885
12	323	303	312	547	541	545	985	685	736	922	701	826
13	354	323	334	550	534	541	986	618	717	701	635	654
14	469	354	412	570	550	558	1,130	789	948	635	616	621
15	461	419	448	579	558	565	793	662	726	616	600	605
16	492	461	478	572	560	565	1,970	610	760	618	594	605
17	533	492	513	584	561	572	728	606	655	626	604	612
18	565	533	549	572	543	557	652	582	610	627	607	614
19	575	565	569	545	507	528	1,230	581	639	612	594	600
20	572	552	560	514	484	499	975	546	636	599	579	589
21	577	558	566	492	480	484	986	555	697	597	584	589
22	566	537	551	643	479	505	849	634	689	2,140	567	827
23	559	542	551	1,230	458	640	700	640	666	1,160	459	658
24	593	549	574	1,290	590	718	673	628	644	1,220	501	842
25	581	568	573	655	494	564	638	607	619	1,220	852	942
26	598	572	582	735	533	554	755	596	671	857	718	796
27	622	598	609	1,560	593	724	840	570	618	718	666	699
28	618	584	592	1,380	700	993	1,130	672	895	671	651	663
29	585	548	559	851	635	704	672	618	628	651	633	636
30	555	540	545	764	654	691	658	592	622	635	627	631
31	---	---	---	1,430	706	788	625	599	605	---	---	---
Month	622	257	442	1,560	458	582	1,970	546	726	2,140	459	697

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	16.5	12.7	14.3	8.5	6.2	7.3	---	---	---	-0.1	-0.1	-0.1
2	15.8	11.5	13.4	8.8	6.6	7.6	---	---	---	-0.1	-0.1	-0.1
3	15.0	11.6	13.2	9.5	7.2	8.2	---	---	---	-0.1	-0.1	-0.1
4	14.6	13.0	13.7	9.5	7.5	8.4	0.8	-0.1	0.1	-0.1	-0.1	-0.1
5	14.6	12.1	13.1	10.1	7.9	8.8	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
6	13.7	10.9	12.4	10.7	8.3	9.4	-0.1	-0.1	-0.1	0.0	-0.1	-0.1
7	13.6	11.3	12.4	10.9	8.8	9.8	0.2	-0.1	0.0	-0.1	-0.1	-0.1
8	14.7	11.7	13.1	10.9	8.8	9.8	2.2	0.2	0.9	-0.1	-0.1	-0.1
9	14.9	11.7	13.3	10.8	8.8	9.8	1.1	-0.1	0.3	-0.1	-0.1	-0.1
10	14.9	11.7	13.3	10.6	8.6	9.5	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
11	14.8	12.1	13.3	10.0	8.8	9.4	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
12	14.6	11.8	13.1	10.0	8.7	9.3	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
13	15.3	13.3	14.2	10.4	9.0	9.4	1.2	-0.1	0.4	-0.1	-0.1	-0.1
14	16.7	13.7	15.0	9.4	7.8	8.7	2.2	0.3	1.0	-0.1	-0.1	-0.1
15	17.3	14.0	15.5	7.8	6.2	6.8	2.5	0.7	1.4	0.0	-0.1	-0.1
16	17.1	14.0	15.5	7.0	5.2	6.0	2.5	0.8	1.5	-0.1	-0.1	-0.1
17	16.5	13.5	15.0	6.2	4.4	5.2	2.3	0.5	1.2	0.0	-0.1	-0.1
18	16.3	13.4	14.8	5.6	3.8	4.6	2.2	0.4	1.2	-0.1	-0.1	-0.1
19	16.6	14.1	15.3	5.5	3.5	4.4	2.1	0.3	1.0	-0.1	-0.1	-0.1
20	16.3	14.4	15.1	5.4	3.5	4.4	1.8	0.1	0.9	0.0	-0.1	-0.1
21	14.8	12.9	13.9	5.7	3.7	4.6	1.7	0.3	1.0	0.0	-0.1	-0.1
22	14.8	12.7	13.7	5.8	4.0	4.7	1.4	0.0	0.5	1.2	0.0	0.7
23	13.5	11.5	12.5	5.2	3.4	4.1	2.8	0.2	1.4	1.7	0.6	1.1
24	12.6	10.6	11.7	4.4	2.5	3.3	2.1	0.6	1.3	1.5	0.7	1.1
25	12.6	10.3	11.3	3.8	1.8	2.7	0.8	-0.1	0.1	1.9	0.4	1.0
26	11.4	9.1	10.3	3.4	1.5	2.4	-0.1	-0.1	-0.1	2.1	0.5	1.2
27	9.9	8.2	9.1	---	---	---	-0.1	-0.1	-0.1	2.2	0.9	1.5
28	8.2	6.2	7.3	---	---	---	-0.1	-0.1	-0.1	2.8	2.0	2.4
29	8.2	6.2	6.9	---	---	---	-0.1	-0.1	-0.1	3.9	2.3	3.1
30	7.9	5.2	6.5	---	---	---	-0.1	-0.1	-0.1	4.2	2.8	3.4
31	8.1	5.7	6.8	---	---	---	-0.1	-0.1	-0.1	3.7	2.8	3.3
Month	17.3	5.2	12.5	---	---	---	---	---	---	4.2	-0.1	0.5

09379500 SAN JUAN RIVER NEAR BLUFF, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	4.3	2.9	3.5	7.9	5.2	6.5	11.2	9.5	10.2	13.8	11.0	12.3
2	3.9	2.4	3.1	8.1	6.1	7.1	10.9	8.3	9.6	13.0	11.2	12.0
3	3.5	2.2	2.8	8.9	6.3	7.6	10.7	8.1	9.5	14.5	10.5	12.5
4	4.0	1.9	2.9	9.0	7.1	8.1	12.2	8.8	10.6	16.4	12.9	14.7
5	4.4	2.9	3.7	9.3	6.7	8.0	13.1	10.4	11.5	17.5	14.4	16.1
6	5.6	3.7	4.6	9.2	7.2	8.2	11.6	8.9	10.5	17.8	14.4	16.1
7	5.5	4.2	5.0	9.0	7.8	8.4	11.3	7.9	9.6	17.7	13.4	15.7
8	5.2	4.2	4.7	8.7	7.5	8.0	12.6	8.3	10.5	17.7	14.6	16.2
9	5.7	4.6	5.0	8.0	6.8	7.4	14.1	9.8	12.0	17.8	15.3	16.6
10	5.7	4.5	5.0	7.0	5.8	6.5	14.5	11.4	13.2	17.3	13.9	15.7
11	5.6	4.1	4.7	7.4	5.4	6.5	15.6	12.0	13.9	16.2	13.6	14.6
12	5.7	3.6	4.6	7.8	5.7	6.9	15.4	13.1	14.1	14.9	12.5	13.7
13	6.0	4.0	4.9	8.5	6.4	7.5	14.6	11.7	13.2	16.0	13.6	14.9
14	6.3	4.1	5.1	7.9	6.5	7.1	15.1	11.9	13.6	16.2	14.4	15.4
15	6.0	4.0	5.0	7.5	5.2	6.5	16.1	12.9	14.5	17.9	14.1	16.1
16	6.5	4.1	5.2	9.3	6.4	7.9	15.9	13.7	14.9	19.8	15.6	17.8
17	6.3	4.4	5.3	10.6	8.2	9.5	17.8	14.0	15.9	20.7	17.1	19.0
18	6.8	4.2	5.5	11.1	8.8	10.1	17.9	15.2	16.7	19.5	17.3	18.2
19	6.6	5.3	6.0	11.6	9.9	10.6	17.8	16.0	17.0	19.7	16.0	17.9
20	6.4	5.3	5.8	9.9	8.0	9.0	17.6	16.1	16.9	19.8	16.9	18.4
21	6.5	5.5	5.9	9.4	7.2	8.4	16.9	14.8	15.8	20.3	17.4	18.9
22	6.7	5.1	5.8	10.6	7.8	9.3	14.8	12.9	13.9	19.2	16.7	18.0
23	5.6	3.5	4.5	10.4	8.8	9.7	13.9	12.3	13.2	17.9	15.8	16.9
24	4.4	3.3	3.8	10.7	7.9	9.3	14.5	11.6	13.1	16.4	14.0	15.4
25	5.8	3.3	4.3	10.0	8.3	9.3	15.0	12.6	14.0	18.0	14.6	16.3
26	6.0	3.7	5.0	9.8	8.6	9.2	16.4	13.4	14.9	18.6	16.0	17.3
27	5.8	4.9	5.3	10.2	7.5	8.8	16.8	14.2	15.6	19.5	16.6	18.0
28	6.9	4.5	5.6	11.2	7.8	9.5	16.6	14.0	15.3	19.3	17.0	18.2
29	---	---	---	11.8	8.4	10.2	14.5	12.2	12.9	19.8	17.0	18.5
30	---	---	---	12.6	9.8	11.3	13.0	10.9	11.9	18.9	17.0	18.0
31	---	---	---	11.8	10.2	11.0	---	---	---	18.1	15.6	17.0
Month	6.9	1.9	4.7	12.6	5.2	8.5	17.9	7.9	13.3	20.7	10.5	16.3

09379500 SAN JUAN RIVER NEAR BLUFF, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	18.0	15.9	17.1	27.3	24.0	25.5	26.3	22.1	24.4	22.8	19.8	21.4
2	19.4	16.5	18.0	26.2	23.5	24.9	25.0	22.8	23.6	23.2	19.8	21.6
3	20.3	17.6	19.0	26.5	23.1	24.7	24.3	22.3	23.2	23.6	20.1	22.0
4	21.6	18.8	20.2	25.3	21.8	23.6	25.0	23.6	24.3	24.5	20.8	22.6
5	23.4	20.0	21.6	24.2	20.3	22.5	24.8	21.8	23.8	24.1	21.1	22.4
6	24.6	21.3	22.9	25.3	21.2	23.3	25.3	22.8	24.1	22.9	19.8	21.4
7	23.5	22.1	22.8	25.8	22.6	24.2	24.6	23.0	23.5	20.9	18.8	19.6
8	22.8	20.5	21.8	26.7	22.2	24.4	24.1	21.8	23.0	22.5	18.9	20.5
9	22.8	20.6	21.8	26.9	23.2	25.0	24.6	22.5	23.6	21.3	17.6	19.5
10	22.1	20.0	21.2	27.9	23.6	25.5	24.5	22.7	23.7	19.0	17.4	18.3
11	21.2	19.3	19.9	28.1	23.7	25.9	24.4	22.6	23.5	19.2	16.4	17.9
12	20.8	18.8	19.7	28.2	23.8	26.0	25.1	22.4	23.8	19.4	17.2	18.5
13	19.4	17.9	18.7	28.7	24.8	26.5	25.2	22.2	23.7	21.1	18.0	19.5
14	20.9	17.9	19.3	28.8	24.8	26.7	25.1	22.1	23.7	21.4	18.3	19.9
15	23.1	19.0	21.0	30.0	24.4	27.0	26.0	22.7	24.4	22.2	19.0	20.6
16	22.9	20.6	21.7	30.3	24.9	27.5	25.8	23.7	24.6	22.7	19.2	21.0
17	23.4	18.7	21.1	30.1	25.3	27.5	26.9	23.3	25.1	23.0	19.6	21.3
18	24.2	20.5	22.5	30.3	25.9	27.9	26.2	23.7	24.7	22.9	19.4	21.2
19	24.3	20.5	22.4	30.0	26.4	28.1	25.6	23.1	24.2	22.5	19.0	20.9
20	24.2	20.3	22.3	29.4	25.8	27.2	24.8	22.8	23.8	22.2	19.8	20.9
21	24.2	20.4	22.4	28.8	25.2	27.0	24.6	22.2	23.4	22.7	19.5	21.0
22	24.5	19.9	22.3	27.1	25.0	25.7	24.1	22.9	23.5	21.4	18.3	20.2
23	25.7	20.5	23.1	26.6	23.9	25.0	26.1	22.8	24.3	19.0	17.2	18.0
24	26.8	21.7	24.2	27.3	23.6	25.1	26.0	22.9	24.7	18.8	17.5	18.1
25	26.0	22.9	24.6	27.8	23.7	25.7	25.7	22.9	24.5	19.2	16.8	18.1
26	27.6	22.8	25.1	27.8	24.7	26.3	24.7	22.8	24.0	19.6	17.2	18.5
27	27.2	22.9	25.2	26.7	24.9	25.7	25.1	22.4	23.7	20.1	17.8	19.1
28	27.7	23.5	25.5	26.2	24.3	25.3	23.7	21.9	22.7	20.5	18.0	19.3
29	27.6	23.2	25.4	26.9	24.1	25.3	22.6	20.6	21.6	20.3	17.8	19.1
30	27.3	23.0	25.3	28.0	25.0	26.6	22.2	19.8	21.0	20.1	17.4	18.8
31	---	---	---	27.6	25.3	26.5	23.0	19.4	21.2	---	---	---
Month	27.7	15.9	21.9	30.3	20.3	25.7	26.9	19.4	23.7	24.5	16.4	20.0

09379500 SAN JUAN RIVER NEAR BLUFF, UT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 2

[CaCO₃, calcium carbonate; SiO₂, silicon dioxide; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Date	Discharge, instantaneous, ft ³ /s (00061)	pH, water, unfiltered, field, standard units (00400)	Specific conduc- tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera- ture, water, °C (00010)	Gage height, ft (00065)	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituen ts, milligrams per liter (70301)	Calcium, water, filtered, mg/L (00915)	Magne- sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)
11-05-2009	780	7.5	725	10.0	4.06	505	474	79.9	19.0	2.72
03-03-2010	961	--	820	8.2	4.21	570	545	76.8	22.8	3.17
04-20-2010	2,300	--	527	16.7	5.38	344	309	53.8	13.9	2.52
06-03-2010	2,740	--	319	18.6	5.66	207	192	40.4	7.51	1.34
06-29-2010	698	--	572	25.0	3.83	369	360	64.1	15.2	2.32
07-28-2010	1,900	--	1,090	25.5	5.00	817	773	158	18.8	6.30
07-28-2010	1,890	--	1,170	25.9	4.99	916	873	181	19.6	6.87
08-12-2010	1,160	--	735	24.0	4.45	503	478	55.9	8.86	5.67
09-27-2010	1,140	--	706	18.8	4.43	487	468	77.1	14.6	4.35

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 2

[CaCO₃, calcium carbonate; SiO₂, silicon dioxide; ft, feet; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Date	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃ (29801)	Sodium, water, filtered, mg/L (00930)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Sulfate, water, filtered, mg/L (00945)
11-05-2009	48.3	140	16.7	.32	6.44	216
03-03-2010	64.0	141	18.8	.32	8.13	266
04-20-2010	30.2	69	10.7	.25	7.31	149
06-03-2010	13.8	73	5.43	.26	5.88	73.0
06-29-2010	35.2	119	11.8	.30	5.07	155
07-28-2010	48.9	110	14.7	.40	10.0	450
07-28-2010	63.5	110	16.4	.42	10.3	509
08-12-2010	86.4	116	14.8	.54	10.8	225
09-27-2010	52.7	134	14.2	.42	9.41	215