Water-Data Report 2012

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

Lower Green Basin
Duchesne Subbasin

LOCATION.--Lat 40°12′37″, long 109°46′53″ referenced to North American Datum of 1983, in SW ¼ SW ¼ NW ¼ sec.21, T.3 S., R.2 E., Uintah Meridian, Uintah County, UT, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank 0.5 mi downstream from Uintah River, 2.0 mi southeast of Randlett, and about 7 mi southeast of Fort Duchesne.

DRAINAGE AREA.--3,790 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,750 ft above NGVD of 1929, from topographic map. Prior to June 21, 2004, gage was located approximately 0.4 mile upstream at several different sites and datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transbasin diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobble Creek ditch, Strawberry River, and Willow Creek Ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft^3/s, Jun 20, 1983; maximum gage height, 10.22 ft, Jun 5, 1986, site and datum then in use; minimum daily discharge, 0.78 ft^3/s, Aug 21, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft^3/s, Nov 24, 25, gage height, 8.22 ft; minimum daily discharge, 12 ft^3/s, Jul 28.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 09302000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/09302000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	794	893	952	721	e358	285	317	69	37	43	41	32
2	501	921	870	676	e365	262	325	64	48	43	34	69
3	274	925	887	726	e342	236	305	76	62	60	27	70
4	220	914	854	715	e321	267	288	82	59	56	21	51
5	263	1,000	833	685	e336	284	285	64	52	55	20	39
6	463	1,010	832	632	e345	305	288	63	49	45	24	28
7	900	943	789	e590	e333	320	292	62	48	50	38	33
8	559	943	e780	e550	e328	362	281	55	65	56	38	30
9	607	917	e780	e530	e340	377	233	56	76	61	31	38
10	784	929	e785	e510	e333	399	212	73	76	60	e34	31
11	818	928	e785	e505	e338	415	197	79	73	56	e37	29
12	799	943	e790	e500	e339	436	180	76	75	52	42	27
13	862	955	e805	e481	e342	443	169	75	72	51	49	34
14	844	938	e805	e485	e353	435	172	71	43	52	56	38
15	876	1,120	e800	e490	e361	432	174	74	34	46	46	32
16	867	1,160	e800	e470	e351	417	172	78	34	70	34	40
17	869	1,120	e790	e450	e292	392	111	70	34	75	23	45
18	1,020	937	e795	e400	287	382	76	75	34	45	24	42
19	1,020	824	e800	e461	306	376	67	79	55	31	35	40
20	953	1,140	e795	e514	259	364	51	70	48	29	33	36
21	872	1,150	e790	e419	275	345	54	71	42	23	38	42
22	859	1,170	e770	e395	308	348	e50	68	50	26	39	41
23	804	1,140	e730	e391	359	359	56	55	48	27	37	40
24	438	1,170	689	e374	298	362	e50	55	62	32	29	39
25	362	1,200	671	e383	294	361	e38	59	66	29	30	54
26	365	1,120	724	e380	280	358	e45	41	57	20	30	103
27	382	967	709	e374	270	358	49	46	59	14	29	127
28	465	1,010	727	e352	305	360	53	58	63	12	38	100
29	814	1,040	753	e314	281	359	64	65	57	29	49	72
30	865	960	808	e368	---	341	63	41	47	40	36	57
31	878	---	795	e366	---	323	---	39	---	38	34	---
Total	21,397	30,387	24,493	15,207	9,299	11,063	4,717	2,009	1,625	1,326	1,076	1,459
Mean	690	1,013	790	491	321	357	157	64.8	54.2	42.8	34.7	48.6
Max	1,020	1,200	952	726	365	443	325	82	76	75	56	127
Min	220	824	671	314	259	236	38	39	34	12	20	27
Ac-ft	42,440	60,270	48,580	30,160	18,440	21,940	9,360	3,980	3,220	2,630	2,130	2,890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	296	366	383	370	408	465	384	910	1,752	509	205	224
Max	1,529	1,443	1,353	1,246	964	1,202	1,865	4,938	7,988	4,727	978	1,264
(WY)	(1984)	(1984)	(1984)	(1984)	(1984)	(1983)	(1952)	(1952)	(1983)	(2011)	(2011)	(1997)
Min	30.0	42.6	39.6	39.4	52.6	66.1	23.6	27.5	22.9	7.12	5.89	18.9
(WY)	(2004)	(1990)	(1990)	(2004)	(1990)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(1960)

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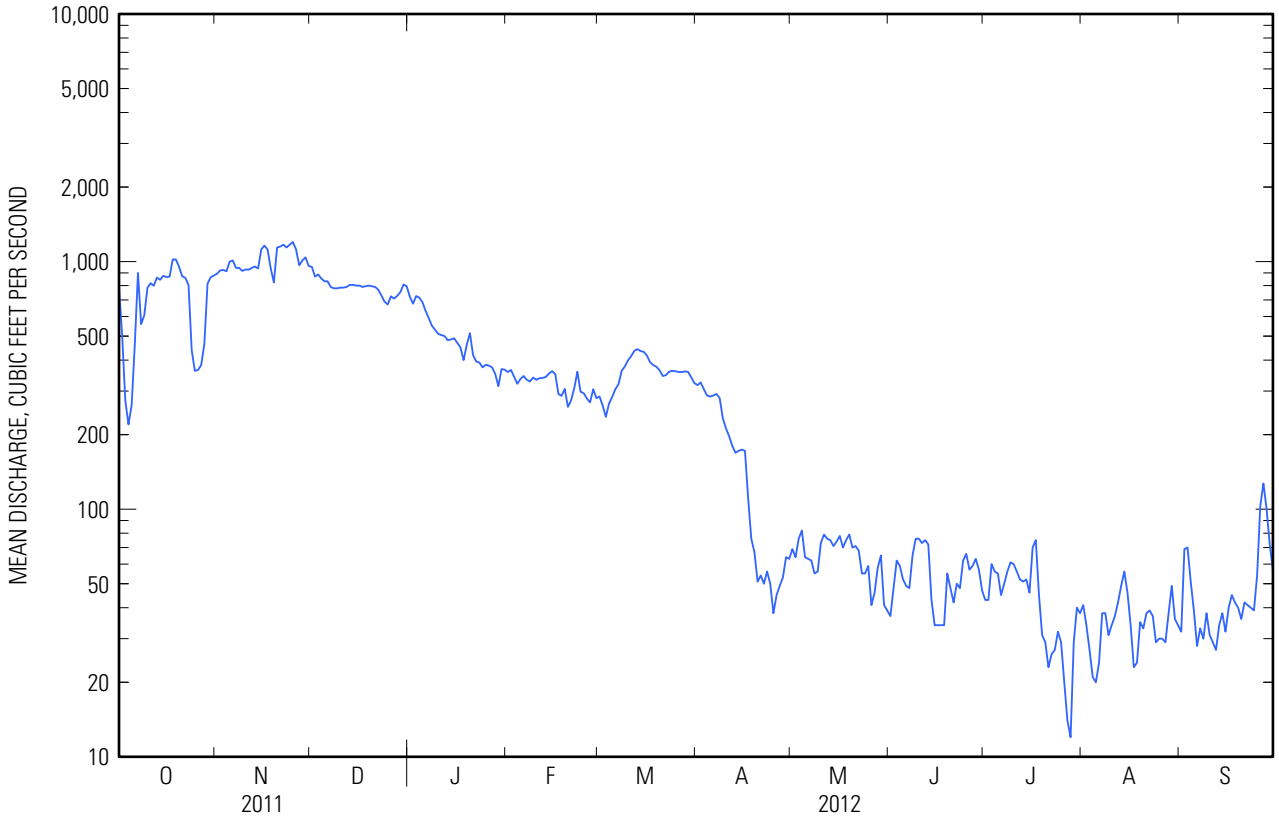
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1943 - 2012	
Annual total	562,133		124,058			
Annual mean	1,540		339		522	
Highest annual mean					1,736	1983
Lowest annual mean					48.2	2004
Highest daily mean	8,450	Jul 1	1,200	Nov 25	11,500	Jun 20, 1983
Lowest daily mean	160	Jan 1	12	Jul 28	0.78	Aug 21, 2002
Annual seven-day minimum	191	Jan 1	23	Jul 22	1.5	Aug 17, 2002
Annual runoff (ac-ft)	1,115,000		246,100		378,000	
10 percent exceeds	4,480		877		1,050	
50 percent exceeds	929		274		297	
90 percent exceeds	248		34		49	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year.
SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year.
SUSPENDED SEDIMENT: April-July 2006, April-June 2007, and April-July 2008.

INSTRUMENTATION.--Water temperature logger from April 1999 to October 2008. Multiparameter probe with water temperature and specific conductance from October 2008 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 in files at USGS Utah Water Science Center, Salt Lake City, Utah.

Water temperature records excellent except Aug 14- Sep 17, which are good.

Specific conductance records excellent except Jan 1-10, which are good.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 32.3°C, Jul 18, 2003; minimum, -0.1°C, many days most years.
SPECIFIC CONDUCTANCE: Maximum observed, 4,490 microsiemens/cm, Aug 24, 1960; minimum observed, 215 microsiemens/cm, several days in Jun 2005.
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 595 mg/L, May 15, 2007; minimum daily mean, 34 mg/L, Jul 2, 3, 2006.
SUSPENDED-SEDIMENT LOAD: Maximum daily, 3,730 tons, Jun 11, 2006; minimum daily, 4.8 tons, Jul 18, 2006.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 29.0°C, Jul 20, 26; minimum, -0.1°C, on many days .
SPECIFIC CONDUCTANCE: Maximum, 2,180 microsiemens/cm, Apr 28; minimum, 504 microsiemens/cm, Nov 26.

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	17.9	---	---	7.8	6.4	6.9	2.9	1.7	2.3	0.0	-0.1	0.0
2	16.9	14.6	15.8	7.3	5.0	6.1	1.7	0.4	1.1	0.0	-0.1	0.0
3	16.7	13.9	15.5	6.4	3.9	5.2	2.1	0.5	1.3	0.0	-0.1	0.0
4	16.0	14.7	15.4	6.6	3.8	5.3	1.4	0.3	0.8	0.0	-0.1	0.0
5	15.0	13.5	14.0	6.8	5.3	6.1	0.3	-0.1	0.0	0.0	-0.1	0.0
6	13.5	10.0	12.2	6.1	4.3	5.2	0.0	0.0	0.0	0.0	-0.1	0.0
7	10.0	8.0	8.6	6.6	4.9	5.6	0.0	0.0	0.0	0.1	-0.1	0.0
8	9.4	7.5	8.4	5.8	3.7	4.8	0.0	-0.1	0.0	0.1	-0.1	0.0
9	11.3	8.5	9.6	5.2	3.0	4.2	0.0	-0.1	0.0	0.0	0.0	0.0
10	12.1	8.7	10.4	4.8	2.5	3.7	0.0	-0.1	0.0	0.0	0.0	0.0
11	13.5	10.5	11.9	4.1	2.2	3.3	0.0	-0.1	0.0	0.0	0.0	0.0
12	13.7	10.5	12.1	4.7	3.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0
13	13.3	10.3	11.8	6.1	4.5	5.2	0.2	0.0	0.1	0.0	0.0	0.0
14	13.6	10.3	12.0	6.0	4.2	5.1	1.0	0.2	0.6	0.0	-0.1	0.0
15	13.8	10.7	12.3	5.4	3.6	4.4	1.1	0.6	0.8	0.0	0.0	0.0
16	13.7	11.1	12.5	4.5	2.6	3.5	1.0	0.5	0.7	0.0	0.0	0.0
17	13.6	11.0	12.3	4.0	2.0	3.0	1.2	0.5	0.8	0.0	0.0	0.0
18	12.5	9.6	11.3	4.3	2.0	3.2	0.6	0.0	0.3	0.1	0.0	0.0
19	11.9	9.1	10.5	3.7	2.6	3.1	0.6	-0.1	0.1	0.1	0.0	0.0
20	11.9	8.9	10.4	4.1	2.5	3.3	0.0	-0.1	0.0	0.2	0.0	0.0
21	12.3	9.2	10.8	5.0	3.4	4.1	0.0	-0.1	0.0	0.1	0.0	0.0
22	12.3	9.3	10.8	4.8	3.6	4.1	0.0	-0.1	0.0	0.3	-0.1	0.1
23	12.0	9.2	10.7	3.9	2.9	3.4	0.0	0.0	0.0	0.1	0.0	0.0
24	11.3	8.7	10.2	3.4	2.4	2.9	0.0	0.0	0.0	0.3	-0.1	0.0
25	10.6	8.9	9.8	3.9	2.3	2.9	0.0	0.0	0.0	0.2	0.0	0.0
26	9.8	8.2	9.0	3.3	1.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
27	8.5	6.1	7.4	2.6	0.6	1.6	0.0	0.0	0.0	0.2	-0.1	0.0
28	7.9	5.0	6.5	2.2	0.7	1.5	0.0	0.0	0.0	0.2	0.0	0.0
29	6.5	4.8	5.7	2.6	0.7	1.7	0.1	-0.1	0.0	0.2	0.0	0.1
30	7.5	4.4	6.0	3.1	1.1	2.1	0.2	-0.1	0.0	0.2	0.0	0.0
31	8.4	5.4	6.9	---	---	---	0.1	-0.1	0.0	0.2	0.0	0.0
Month	17.9	---	---	7.8	0.6	3.9	2.9	-0.1	0.3	0.3	-0.1	0.0

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	0.1	0.0	0.0	4.4	1.9	3.1	13.7	10.6	12.2	15.4	13.1	14.2
2	0.3	0.0	0.0	4.1	0.8	2.3	11.3	8.1	9.7	17.4	13.3	15.2
3	0.5	0.0	0.1	4.0	-0.1	1.9	13.3	7.9	10.5	18.4	13.8	16.1
4	0.4	-0.1	0.1	5.2	0.8	3.0	14.6	9.2	11.8	19.3	14.2	16.8
5	0.3	0.0	0.0	6.4	2.0	4.2	13.3	10.0	11.7	18.4	15.0	16.6
6	0.3	0.0	0.1	5.9	3.1	4.7	11.8	8.3	10.1	18.4	12.6	15.5
7	0.4	-0.1	0.1	6.3	3.1	4.6	12.4	6.8	9.5	17.5	13.7	15.5
8	0.2	-0.1	0.0	6.9	2.9	4.9	13.4	7.5	10.4	18.5	12.2	15.4
9	0.5	-0.1	0.2	7.2	3.0	5.1	14.8	8.7	11.7	19.9	13.8	16.9
10	0.8	-0.1	0.3	7.8	3.4	5.6	15.3	10.4	13.0	20.3	15.2	17.7
11	0.7	-0.1	0.3	8.4	4.1	6.3	16.3	10.9	13.6	17.9	15.9	16.7
12	1.5	0.0	0.7	9.5	5.3	7.3	14.0	11.6	12.7	19.2	13.3	16.2
13	1.9	0.6	1.2	9.7	5.5	7.7	12.6	9.2	11.1	19.5	14.0	16.8
14	2.2	0.9	1.5	10.4	6.0	8.2	13.5	9.5	11.5	20.4	13.9	17.2
15	2.1	0.9	1.6	12.1	7.6	9.7	12.8	9.9	11.5	21.4	15.0	18.3
16	2.9	1.1	1.9	12.1	8.0	10.1	14.3	8.4	11.2	19.4	16.3	17.7
17	2.7	0.6	1.7	10.9	8.6	9.5	14.5	10.6	12.5	19.7	14.9	17.4
18	2.4	0.3	1.4	9.1	7.2	8.1	14.1	11.2	12.8	18.0	15.1	16.4
19	1.7	0.7	1.4	8.1	5.0	6.8	14.9	10.2	12.5	19.4	13.3	16.2
20	1.4	-0.1	0.6	8.8	4.3	6.6	17.0	10.9	13.9	21.4	15.0	18.1
21	2.4	0.0	1.1	9.6	4.7	7.1	19.0	12.9	16.0	22.6	16.6	19.6
22	3.4	0.6	2.0	11.3	5.8	8.5	20.7	14.8	17.7	22.2	17.7	20.1
23	3.1	1.3	2.3	12.4	7.3	9.8	21.5	15.9	18.7	20.4	16.6	18.5
24	3.0	0.1	1.4	12.6	8.6	10.7	21.9	16.3	19.1	19.4	13.8	16.6
25	3.2	0.2	1.6	12.6	9.5	11.2	19.8	17.3	18.4	20.0	15.0	17.4
26	3.0	-0.1	1.3	11.2	9.0	9.9	18.4	16.0	17.2	19.1	15.9	17.3
27	1.9	0.0	1.0	10.9	6.7	8.8	16.1	12.3	14.0	16.9	13.4	15.1
28	4.2	0.9	2.3	11.7	7.2	9.5	15.9	10.1	12.8	19.3	12.6	15.9
29	4.2	1.3	2.7	13.3	8.7	10.9	16.7	11.0	13.8	21.0	14.7	17.9
30	---	---	---	13.9	9.0	11.4	16.7	12.1	14.6	22.4	16.6	19.4
31	---	---	---	15.2	10.0	12.5	---	---	---	23.6	17.0	20.2
Month	4.2	-0.1	1.0	15.2	-0.1	7.4	21.9	6.8	13.2	23.6	12.2	17.1

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	24.8	18.8	21.8	25.7	22.2	24.1	28.4	23.0	25.4	24.3	20.3	22.0
2	23.0	20.1	21.7	23.3	20.6	22.0	27.6	23.2	25.4	24.3	19.8	21.9
3	24.3	18.1	21.1	25.9	19.7	22.7	26.4	21.6	24.1	25.0	20.6	22.8
4	24.0	19.2	21.7	25.7	21.5	23.7	27.4	20.8	23.8	23.9	19.7	21.9
5	23.4	18.9	21.0	24.3	22.1	23.0	27.8	21.8	24.7	23.0	18.1	20.6
6	19.8	15.2	17.8	26.9	20.6	23.5	25.8	23.0	24.4	21.2	18.1	19.8
7	22.3	15.8	19.0	27.8	22.9	25.2	27.0	21.7	24.3	23.0	17.9	20.4
8	22.9	17.2	20.1	28.1	22.5	25.3	27.2	21.9	24.6	23.1	18.4	20.8
9	21.8	17.9	19.9	28.5	22.7	25.7	25.6	22.1	24.0	22.6	17.7	20.2
10	20.4	14.2	17.3	27.6	23.2	25.4	25.5	21.5	23.4	22.6	18.2	20.4
11	21.3	15.0	18.2	26.6	21.9	24.4	26.7	21.6	24.0	21.2	19.3	20.2
12	22.1	16.3	19.3	27.2	22.4	24.8	27.2	22.1	24.7	23.1	18.1	20.3
13	23.0	16.6	19.9	25.8	22.4	24.1	25.7	22.5	23.7	21.8	17.3	19.6
14	24.1	18.1	21.1	24.9	21.8	23.4	25.5	20.5	23.0	21.4	16.8	19.1
15	23.7	18.7	21.4	23.6	21.8	22.7	25.3	21.1	23.4	21.6	16.6	19.1
16	25.3	18.7	21.9	26.3	20.7	23.3	25.3	21.1	23.3	21.2	16.6	19.0
17	24.6	19.9	22.4	26.6	21.1	23.9	25.0	21.0	22.8	21.1	17.4	19.2
18	24.9	19.2	22.0	26.7	21.5	24.3	25.7	19.9	22.7	20.2	16.1	18.3
19	23.8	19.9	21.7	27.4	22.3	25.0	25.4	20.8	23.1	19.7	15.6	17.7
20	24.4	18.6	21.4	29.0	23.4	25.8	25.3	22.0	23.5	19.6	15.2	17.4
21	25.4	19.0	22.3	27.8	23.4	25.6	25.7	20.5	23.1	19.3	15.3	17.4
22	25.9	20.3	23.2	27.6	23.4	25.3	23.9	21.1	22.0	19.0	15.2	17.2
23	26.2	20.3	23.4	28.3	23.1	25.5	25.2	19.8	22.4	17.8	15.4	16.7
24	25.9	20.6	23.6	26.0	23.5	24.9	26.6	21.7	23.9	18.0	15.5	16.7
25	25.6	21.5	23.5	27.7	22.4	25.0	24.9	20.5	22.8	17.6	15.7	16.5
26	26.1	20.8	23.5	29.0	22.6	25.6	25.5	20.7	23.0	16.6	14.9	15.6
27	26.0	20.7	23.5	26.2	23.4	24.8	25.7	20.8	23.0	17.1	14.0	15.3
28	26.4	21.1	23.8	28.2	21.2	24.1	26.1	21.0	23.6	18.2	14.8	16.6
29	27.2	21.8	24.5	24.8	21.9	23.3	26.0	21.8	24.1	18.6	15.3	17.0
30	27.6	22.1	25.0	25.4	21.8	23.6	25.7	22.2	23.9	18.6	15.0	16.9
31	---	---	---	27.1	21.2	23.9	24.5	21.6	22.8	---	---	---
Month	27.6	14.2	21.6	29.0	19.7	24.3	28.4	19.8	23.6	25.0	14.0	18.9

09302000 DUCHESNE RIVER NEAR RANDLETT, UT—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	558	539	542	630	614	623	614	594	600	637	596	621
2	708	552	619	638	608	615	669	585	606	670	637	655
3	871	708	798	640	611	626	644	614	628	655	626	642
4	978	871	919	620	607	614	650	608	624	638	625	631
5	1,160	978	1,080	620	602	608	677	579	630	642	614	631
6	1,110	1,010	1,060	616	597	606	729	621	658	651	634	643
7	1,220	1,030	1,130	613	603	607	737	669	701	656	644	651
8	1,080	1,040	1,050	615	604	608	737	668	688	669	649	659
9	1,100	1,000	1,070	621	604	613	676	568	641	686	669	677
10	1,000	767	857	618	595	607	639	571	608	701	648	677
11	767	729	753	615	578	597	623	600	611	699	647	679
12	729	702	716	611	591	600	617	601	608	723	695	704
13	702	671	689	622	608	617	611	579	593	758	723	747
14	675	670	672	638	619	627	579	558	566	757	725	747
15	678	656	668	658	523	603	592	569	586	743	704	730
16	661	655	658	529	511	519	604	586	598	704	674	695
17	689	659	663	547	521	533	610	601	606	729	675	705
18	690	578	616	561	522	537	621	606	615	827	728	789
19	585	571	579	691	551	580	629	621	626	830	713	786
20	596	568	579	678	520	545	646	629	636	713	612	656
21	625	596	619	534	526	530	666	624	644	644	598	614
22	631	618	625	539	527	532	650	605	628	744	644	689
23	635	617	622	537	529	533	669	624	640	783	729	755
24	742	635	687	540	525	533	713	669	691	830	750	791
25	866	742	803	526	509	517	736	681	707	828	771	798
26	944	866	900	558	504	524	696	652	678	856	787	819
27	958	920	940	612	539	571	668	634	651	847	760	801
28	1,070	941	987	598	536	566	648	611	630	862	768	812
29	941	613	722	591	520	558	619	582	601	941	803	877
30	621	612	617	634	559	578	591	573	583	895	819	858
31	629	620	621	---	---	---	596	574	588	853	771	802
Month	1,220	539	770	691	504	578	737	558	628	941	596	721

09302000 DUCHESNE RIVER NEAR RANDLETT, UT—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	864	763	813	1,010	900	955	849	832	842	1,770	1,670	1,720
2	854	753	804	996	931	950	856	831	846	1,720	1,550	1,620
3	813	740	779	1,040	932	988	891	856	878	1,750	1,320	1,580
4	837	751	800	1,100	923	985	915	884	898	1,520	1,320	1,400
5	869	790	833	1,040	889	946	903	892	897	1,600	1,370	1,490
6	910	787	845	953	887	929	911	897	904	1,700	1,380	1,530
7	904	752	828	926	892	909	933	887	907	1,720	1,450	1,600
8	895	747	821	926	887	902	918	893	907	1,670	1,570	1,630
9	870	742	806	906	807	847	975	893	932	1,770	1,570	1,640
10	837	741	781	807	779	795	1,040	975	1,010	1,860	1,630	1,760
11	841	749	786	800	774	786	1,010	976	998	1,650	1,340	1,470
12	829	751	783	798	772	787	1,060	1,000	1,030	1,640	1,440	1,540
13	785	764	774	790	762	773	1,080	1,060	1,070	1,790	1,470	1,650
14	791	769	782	787	761	774	1,100	1,070	1,090	1,830	1,730	1,800
15	802	764	786	785	755	764	1,250	1,080	1,140	1,730	1,580	1,630
16	846	802	820	794	760	772	1,250	1,160	1,200	1,620	1,420	1,550
17	961	846	901	832	794	812	1,300	1,210	1,250	1,580	1,430	1,530
18	988	903	941	843	824	833	1,340	1,260	1,290	1,610	1,510	1,570
19	980	901	947	859	835	850	1,580	1,340	1,450	1,690	1,600	1,640
20	960	915	932	854	842	848	1,910	1,580	1,750	1,670	1,560	1,590
21	1,040	930	990	880	847	861	2,120	1,910	2,070	1,600	1,580	1,590
22	1,050	844	942	880	849	860	2,120	1,880	2,040	1,600	1,510	1,550
23	957	841	915	884	834	855	1,880	1,800	1,840	1,590	1,510	1,540
24	962	926	942	842	827	833	2,030	1,850	1,930	1,790	1,590	1,710
25	1,020	890	969	827	818	821	2,020	1,980	1,990	1,640	1,460	1,530
26	1,020	914	960	833	824	829	2,110	2,010	2,070	1,640	1,540	1,590
27	1,040	900	971	840	824	830	2,170	2,050	2,110	1,790	1,630	1,720
28	1,050	911	957	824	797	805	2,180	1,800	1,930	1,820	1,610	1,730
29	945	902	920	817	805	812	2,070	1,880	1,950	1,670	1,560	1,620
30	---	---	---	822	793	808	2,080	1,660	1,800	1,620	1,520	1,560
31	---	---	---	851	814	838	---	---	---	1,970	1,620	1,780
Month	1,050	740	866	1,100	755	850	2,180	831	1,370	1,970	1,320	1,610

09302000 DUCHESNE RIVER NEAR RANDLETT, UT—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	1,970	1,750	1,880	1,380	1,250	1,300	1,440	1,350	1,390	1,430	1,320	1,360
2	1,750	1,690	1,730	1,430	1,350	1,400	1,380	1,300	1,340	1,370	1,240	1,290
3	1,740	1,510	1,630	1,350	1,280	1,320	1,410	1,310	1,360	1,430	1,310	1,380
4	1,510	1,390	1,450	1,300	1,240	1,250	1,590	1,410	1,510	1,410	1,350	1,370
5	1,480	1,390	1,460	1,250	1,170	1,200	1,550	1,450	1,480	1,360	1,340	1,350
6	1,590	1,430	1,530	1,250	1,130	1,170	1,570	1,450	1,510	1,380	1,310	1,350
7	1,530	1,420	1,450	1,280	1,220	1,250	1,470	1,410	1,450	1,450	1,330	1,390
8	1,650	1,460	1,560	1,310	1,240	1,280	1,540	1,430	1,480	1,450	1,290	1,360
9	1,460	1,360	1,390	1,260	1,190	1,220	1,480	1,320	1,390	1,450	1,290	1,360
10	1,360	1,330	1,350	1,240	1,190	1,210	1,370	1,310	1,330	1,460	1,440	1,450
11	1,340	1,160	1,240	1,300	1,230	1,260	1,360	1,260	1,300	1,490	1,450	1,470
12	1,220	1,160	1,190	1,260	1,150	1,190	1,360	1,270	1,340	1,490	1,450	1,460
13	1,230	1,200	1,210	1,180	1,160	1,170	1,270	1,200	1,220	1,470	1,440	1,460
14	1,270	1,220	1,250	1,320	1,180	1,250	1,220	1,180	1,200	1,680	1,440	1,530
15	1,550	1,270	1,420	1,350	1,280	1,310	1,270	1,200	1,240	1,730	1,670	1,690
16	1,610	1,530	1,570	1,280	1,170	1,220	1,340	1,260	1,310	1,690	1,420	1,530
17	1,710	1,540	1,580	1,360	1,180	1,300	1,330	1,250	1,280	1,420	1,370	1,400
18	1,740	1,640	1,700	1,330	1,290	1,300	1,450	1,310	1,390	1,440	1,370	1,400
19	1,920	1,630	1,740	1,390	1,320	1,350	1,420	1,350	1,390	1,430	1,360	1,410
20	1,730	1,560	1,640	1,530	1,390	1,470	1,460	1,380	1,420	1,450	1,360	1,400
21	1,560	1,430	1,460	1,550	1,440	1,480	1,570	1,460	1,520	1,460	1,370	1,400
22	1,460	1,430	1,440	1,680	1,550	1,620	1,540	1,370	1,450	1,520	1,410	1,460
23	1,460	1,380	1,410	1,670	1,580	1,610	1,410	1,360	1,390	1,640	1,460	1,520
24	1,410	1,340	1,390	1,650	1,580	1,610	1,500	1,410	1,450	1,600	1,420	1,480
25	1,340	1,260	1,290	1,710	1,640	1,670	1,460	1,370	1,390	1,550	1,350	1,450
26	1,410	1,330	1,390	1,640	1,510	1,550	1,440	1,370	1,390	1,420	1,310	1,360
27	1,370	1,290	1,340	1,540	1,490	1,510	1,440	1,310	1,340	1,650	1,250	1,450
28	1,290	1,200	1,250	1,560	1,530	1,550	1,380	1,310	1,350	1,520	1,440	1,470
29	1,200	1,160	1,180	1,590	1,520	1,550	1,340	1,290	1,300	1,570	1,450	1,520
30	1,260	1,200	1,240	1,650	1,460	1,550	1,320	1,310	1,320	1,470	1,420	1,440
31	---	---	---	1,520	1,430	1,480	1,320	1,300	1,310	---	---	---
Month	1,970	1,160	1,450	1,710	1,130	1,370	1,590	1,180	1,370	1,730	1,240	1,430

	Max	Min	Mean
Year	2,180	504	1,080

09302000 DUCHESNE RIVER NEAR RANDLETT, UT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 1 of 2
[ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; SiO_2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data]

Date	Discharge, instantaneous, ft³/s (00061)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)
10-18-2011	966	8.5	601	10.5	368	370	56.1	27.9	1.95	40.4
11-29-2011	995	8.6	525	1.0	341	336	50.8	24.4	1.44	37.1
01-10-2012	500	--	677	.0	412	416	58.8	28.0	1.52	44.1
03-01-2012	293	8.5	956	3.4	627	618	72.7	40.5	2.04	77.7
04-10-2012	213	8.4	1,010	13.0	643	670	80.4	44.2	1.92	92.8
05-09-2012	--	--	1,600	16.7	--	--	--	--	--	--
05-23-2012	61	8.3	1,520	16.8	1,080	1,020	109	60.9	4.66	158
06-27-2012	61	8.3	1,340	23.6	912	868	81.5	50.3	3.42	147
08-07-2012	41	8.2	1,400	23.3	955	917	70.4	54.0	3.05	163

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
Part 2 of 2
[ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; SiO_2, silicon dioxide; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; --, no data]

Date	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (90410)	Alkalinity, water, filtered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (29801)	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)
10-18-2011	195	182	15.8	0.32	7.34	111
11-29-2011	--	175	14.5	.25	5.83	97.1
01-10-2012	--	190	18.7	.34	7.51	143
03-01-2012	--	215	35.0	.45	9.04	252
04-10-2012	--	232	38.9	.40	3.94	269
05-09-2012	--	--	--	--	--	--
05-23-2012	288	277	74.8	.67	11.7	436
06-27-2012	--	261	63.8	.50	5.90	358
08-07-2012	240	238	68.1	.51	6.47	408