

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

Lower Green Basin
Duchesne Subbasin

LOCATION.--Lat 40°12'33", long 109°46'55" 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 0.75 mi downstream from Uintah River, 1.7 mi southeast of Randlett, and 7.0 mi southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi².

SURFACE-WATER RECORDS

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

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

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft above NGVD of 1929, from topographic map. Prior to June 21, 2004, gage was located approximately ½ mile upstream at several different sites and datums.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s, Jun 20, 1983; maximum gage height 10.22 ft, Jun 5, 1986, at datum then in use; minimum daily discharge, 0.78 ft³/s, Aug 21, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,770 ft³/s, Jun 11, gage height 9.78 ft; minimum daily discharge, 35 ft³/s, Jul 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	277	446	399	e443	e403	574	407	270	546	61	72	60
2	418	465	394	e444	e405	567	414	278	614	58	116	54
3	661	480	414	e452	e401	538	370	322	752	60	110	54
4	643	462	375	e440	e422	536	369	405	827	65	112	59
5	673	454	392	e380	e428	479	388	449	826	54	105	52
6	669	459	379	e333	e390	463	447	344	1,240	66	89	43
7	556	458	383	e325	e377	469	434	309	1,340	77	84	47
8	415	446	323	e330	e425	508	432	277	1,340	102	113	48
9	344	440	283	e320	e451	507	451	278	1,680	101	103	83
10	334	444	292	e320	e417	459	456	289	2,000	105	78	126
11	318	439	332	e330	e362	399	414	289	2,390	97	70	107
12	334	485	e330	e345	e352	466	402	296	1,660	78	86	95
13	330	463	e360	e330	e398	448	389	260	1,300	67	90	83
14	333	446	e370	e330	e424	397	390	393	1,080	52	80	84
15	331	456	e370	e370	e438	447	454	564	894	55	79	176
16	338	433	e360	e360	e375	442	540	712	642	50	81	359
17	341	452	e380	e340	e358	434	494	881	442	47	80	229
18	339	465	e390	e375	e436	457	481	883	302	35	72	174
19	354	427	e400	e375	e441	497	416	949	233	39	72	158
20	371	427	e410	e355	e399	490	384	1,320	170	47	61	125
21	367	413	e415	e375	e363	452	376	1,640	134	39	67	144
22	368	422	e425	e390	e388	456	383	1,680	122	39	55	167
23	365	433	e420	e390	e418	417	386	1,550	136	36	45	186
24	353	398	e400	e390	e435	395	404	1,100	99	36	49	205
25	351	386	e400	e390	e471	385	394	867	79	42	51	197
26	349	402	e400	e431	470	417	327	965	92	58	58	153
27	350	403	e410	e376	475	401	258	1,360	90	74	68	131
28	360	333	e431	e369	522	373	240	906	103	73	105	113
29	477	374	e439	e421	---	384	270	542	79	57	94	98
30	506	379	e422	e407	---	480	271	461	73	55	74	91
31	463	---	e412	e428	---	427	---	490	---	62	68	---
Total	12,688	12,990	11,910	11,664	11,644	14,164	11,841	21,329	21,285	1,887	2,487	3,701
Mean	409	433	384	376	416	457	395	688	710	60.9	80.2	123
Max	673	485	439	452	522	574	540	1,680	2,390	105	116	359
Min	277	333	283	320	352	373	240	260	73	35	45	43
Ac-ft	25,170	25,770	23,620	23,140	23,100	28,090	23,490	42,310	42,220	3,740	4,930	7,340

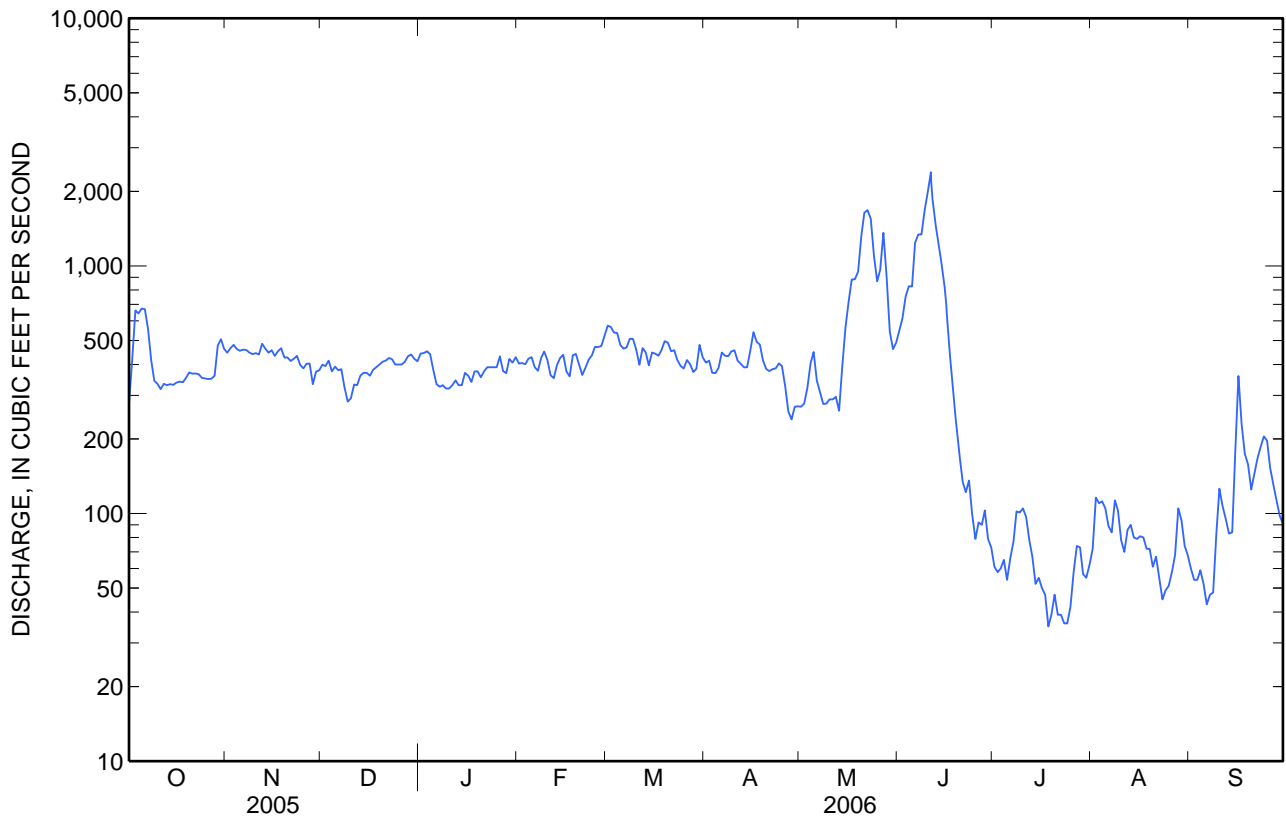
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	303	372	394	385	424	474	389	957	1,815	477	202	222
Max	1,529	1,443	1,353	1,246	964	1,202	1,865	4,938	7,988	3,177	926	1,264
(WY)	(1984)	(1984)	(1984)	(1984)	(1984)	(1983)	(1952)	(1952)	(1983)	(1995)	(1965)	(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 2005		Water Year 2006		Water Years 1943 - 2006	
Annual total	313,031		137,590			
Annual mean	858		377		533	
Highest annual mean					1,736	1983
Lowest annual mean					48.2	2004
Highest daily mean	7,240	May 26	2,390	Jun 11	11,500	Jun 20, 1983
Lowest daily mean	105	Sep 1	35	Jul 18	0.78	Aug 21, 2002
Annual seven-day minimum	122	Aug 28	39	Jul 18	1.5	Aug 17, 2002
Annual runoff (ac-ft)	620,900		272,900		386,400	
10 percent exceeds	2,400		550		1,080	
50 percent exceeds	410		379		316	
90 percent exceeds	195		67		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.--

SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year.

WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year.

SUSPENDED SEDIMENT: April 2006 to July 2006.

INSTRUMENTATION.--Temperature data logger April 1999 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 of district office.

Water temperature records excellent except for Nov 10-24, Mar 15 to Apr 4, May 17-25, Jul. 28 to Aug 2, which are good; May 26 to Jun 2, Jul 21-27, which are fair; and Jun 3 to Jul 20, which are poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,490 microsiemens/cm, Aug 24, 1960; minimum observed, 215 microsiemens/cm, several days in Jun 2005.

WATER TEMPERATURES: Maximum, 32.3°C, Jul 18, 2003; minimum, 0.0°C, on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum observed, 1,620 microsiemens/cm, Jul 5; minimum observed, 370 microsiemens/cm, May 23.

WATER TEMPERATURE: Maximum, 30.8°C, Jul 23; minimum, 0.0°C, on many days during winter period.

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 570 mg/L, Jun 11, 2006; 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.

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf 25 degC (00095)	Temperature, deg C (00010)	Residue on evap. at 180degC wat flt mg/L (70300)
Oct							
05...	1130	6.98	644	8.0	850	10.3	566
Nov							
16...	1635	6.36	428	8.1	893	3.4	591
Jan							
04...	1400	7.49	480	8.2	814	.0	541
Mar							
28...	1230	6.28	375	8.2	880	8.0	557
May							
09...	1745	5.96	279	8.4	1,000	17.5	607
Jun							
29...	1030	5.94	239	8.2	1,240	24.9	897
Aug							
08...	1230	5.42	116	7.5	1,370	21.9	925
Sep							
19...	1215	5.67	187	7.9	1,230	13.0	855

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY INSTANTANEOUS VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	880	890	880	830	760	840	920	990	1,250	1,580	1,280	1,200
2	850	880	860	820	800	830	800	880	1,240	1,390	1,370	1,200
3	930	890	890	800	860	800	790	710	1,360	1,390	1,280	1,200
4	940	890	830	820	780	870	990	710	1,240	1,390	1,450	1,200
5	940	880	790	820	870	890	1,060	710	1,250	1,620	1,270	1,200
6	880	1,020	840	820	870	860	800	770	1,250	1,390	1,370	1,200
7	880	1,000	890	780	780	780	790	710	980	1,610	1,440	1,250
8	940	1,000	880	840	870	870	990	770	1,360	1,610	1,280	1,270
9	880	1,030	910	820	860	870	1,000	710	1,250	1,390	1,280	1,340
10	880	1,010	850	770	870	870	780	560	1,240	1,170	1,450	1,330
11	870	1,080	830	780	780	830	870	560	980	1,390	1,440	1,260
12	890	1,070	810	730	760	870	900	560	1,240	1,420	1,450	1,190
13	890	1,060	850	790	860	890	930	550	1,250	1,410	1,370	1,180
14	930	1,050	790	740	740	850	880	390	1,360	1,470	1,200	1,150
15	880	820	770	790	780	870	880	400	980	1,440	1,200	1,320
16	840	880	790	790	860	830	940	400	1,230	1,390	1,200	1,300
17	940	880	790	790	850	890	880	385	1,240	1,450	1,200	1,070
18	800	1,060	770	860	770	940	770	380	970	1,470	1,200	1,000
19	880	880	890	780	850	830	1,070	550	1,180	1,440	1,300	1,330
20	820	820	780	810	840	860	710	550	1,460	1,410	1,300	1,320
21	890	880	760	730	840	840	640	375	1,180	1,440	1,400	1,100
22	880	820	790	750	820	950	770	375	1,510	1,470	1,200	1,010
23	890	880	830	850	870	820	640	370	1,180	1,480	---	1,330
24	890	820	820	810	840	930	640	380	1,510	1,470	1,300	1,290
25	850	1,080	930	810	860	860	770	1,360	1,150	1,410	1,390	1,080
26	890	880	820	730	850	820	405	980	1,510	1,440	1,250	1,070
27	850	820	830	760	880	800	640	1,360	1,480	1,480	1,240	1,010
28	840	880	830	1,430	730	820	770	980	1,610	1,410	1,240	1,030
29	890	820	790	800	---	840	640	1,240	1,160	1,380	1,240	1,000
30	890	880	820	760	---	790	640	1,360	1,520	1,280	1,400	1,040
31	880	---	830	770	---	790	---	1,240	---	1,440	1,390	---
Max	940	1,080	930	1,430	880	950	1,070	1,360	1,610	1,620	---	1,340
Min	800	820	760	730	730	780	405	370	970	1,170	---	1,000

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	16.2	12.8	14.5	8.6	5.9	7.4	0.2	0.0	0.0	0.1	0.1	0.1
2	16.5	12.7	14.7	8.4	6.0	7.3	0.6	0.0	0.2	0.1	0.1	0.1
3	16.9	14.2	15.5	9.2	6.8	8.1	0.4	0.0	0.0	0.1	0.1	0.1
4	15.8	11.9	13.8	9.4	7.1	8.2	0.0	0.0	0.0	0.1	0.1	0.1
5	13.1	9.8	11.5	7.9	6.1	7.0	0.0	0.0	0.0	0.1	0.1	0.1
6	13.6	9.9	11.8	7.7	5.2	6.5	0.0	0.0	0.0	0.1	0.1	0.1
7	13.6	9.9	11.8	6.6	5.4	6.0	0.0	0.0	0.0	0.1	0.1	0.1
8	13.4	10.3	12.0	7.2	5.4	6.3	0.0	0.0	0.0	0.1	0.1	0.1
9	12.4	10.5	11.5	8.8	6.6	7.6	0.0	0.0	0.0	0.1	0.1	0.1
10	11.1	9.8	10.5	8.5	6.7	7.7	0.0	0.0	0.0	0.1	0.1	0.1
11	12.8	9.2	10.9	7.9	6.8	7.2	0.0	0.0	0.0	0.1	0.1	0.1
12	13.2	9.7	11.5	8.5	6.2	7.2	0.0	0.0	0.0	0.1	0.1	0.1
13	13.1	9.4	11.3	6.2	4.5	5.3	0.0	0.0	0.0	0.1	0.1	0.1
14	13.2	9.5	11.4	5.6	3.4	4.5	0.0	0.0	0.0	0.1	0.1	0.1
15	13.2	9.5	11.4	4.2	2.3	3.3	0.0	0.0	0.0	0.1	0.1	0.1
16	14.1	10.3	12.1	3.4	1.1	2.3	0.0	0.0	0.0	0.1	0.1	0.1
17	14.2	10.7	12.5	2.9	0.6	1.8	0.0	0.0	0.0	0.1	0.1	0.1
18	12.9	10.8	11.7	3.1	0.7	2.0	0.0	0.0	0.0	0.2	0.1	0.2
19	13.2	10.7	11.7	3.7	1.2	2.5	0.0	0.0	0.0	0.2	0.2	0.2
20	13.7	10.4	12.1	3.4	1.0	2.3	0.0	0.0	0.0	0.2	0.2	0.2
21	13.4	10.3	11.9	3.2	0.8	2.1	0.0	0.0	0.0	0.2	0.2	0.2
22	12.9	9.7	11.4	3.0	0.6	1.9	0.0	0.0	0.0	0.2	0.2	0.2
23	12.6	9.4	11.0	2.6	0.4	1.6	0.0	0.0	0.0	0.2	0.2	0.2
24	12.3	9.1	10.7	2.2	0.0	1.1	0.0	0.0	0.0	0.2	0.2	0.2
25	12.3	9.1	10.7	2.0	0.0	1.0	0.0	0.0	0.0	0.2	0.2	0.2
26	12.2	9.2	10.7	2.7	0.9	1.6	0.0	0.0	0.0	0.2	0.2	0.2
27	11.3	9.3	10.5	1.2	0.0	0.4	0.1	0.0	0.1	0.2	0.2	0.2
28	10.6	9.9	10.1	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2
29	11.4	9.3	10.2	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2
30	11.1	8.8	9.8	0.2	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2
31	9.2	6.7	8.1	---	---	---	0.1	0.1	0.1	0.2	0.2	0.2
Month	16.9	6.7	11.6	9.4	0.0	4.0	0.6	0.0	0.0	0.2	0.1	0.1

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	0.2	0.2	0.2	6.2	2.4	4.2	10.7	8.4	9.5	18.4	12.1	15.2
2	0.2	0.2	0.2	6.1	2.3	4.3	11.7	6.5	9.0	18.7	13.4	16.1
3	0.2	0.2	0.2	7.2	3.3	5.3	12.5	7.9	10.1	17.2	13.9	15.6
4	0.2	0.2	0.2	6.3	4.0	5.1	14.0	9.8	11.8	15.6	12.7	14.0
5	0.2	0.2	0.2	6.7	2.7	4.8	12.8	9.9	11.4	16.0	10.9	13.3
6	0.2	0.2	0.2	6.6	3.5	5.2	10.2	8.0	8.9	17.6	11.7	14.7
7	0.2	0.2	0.2	6.6	4.5	5.6	11.9	5.9	8.8	17.8	13.1	15.4
8	0.2	0.2	0.2	7.8	4.2	5.9	13.7	8.2	10.8	18.5	13.5	15.8
9	0.2	0.2	0.2	6.4	4.2	5.2	15.5	9.7	12.4	17.7	12.7	15.0
10	0.2	0.2	0.2	4.2	2.4	3.4	14.8	10.5	12.7	17.7	11.4	14.5
11	0.2	0.2	0.2	4.5	1.0	2.7	14.7	10.8	12.6	18.4	12.2	15.2
12	0.2	0.2	0.2	6.1	2.5	4.1	16.0	10.3	12.9	20.0	13.5	16.7
13	0.2	0.2	0.2	5.7	2.6	4.1	16.9	11.2	14.1	20.5	14.8	17.8
14	0.2	0.2	0.2	6.5	1.6	4.0	16.0	12.0	14.1	21.6	16.2	18.8
15	0.3	0.2	0.3	7.2	3.7	5.4	16.6	12.6	14.4	21.3	15.7	18.5
16	0.3	0.3	0.3	6.6	2.9	5.0	16.6	12.3	14.5	20.8	15.6	18.3
17	0.3	0.3	0.3	9.0	4.8	6.8	14.7	9.6	12.2	19.6	16.0	18.1
18	0.3	0.3	0.3	7.8	6.2	6.9	11.4	7.3	9.4	20.2	17.0	18.7
19	0.3	0.3	0.3	7.6	4.7	6.1	12.6	6.9	9.7	19.7	17.6	18.3
20	0.3	0.3	0.3	7.9	4.2	6.2	14.2	8.1	11.0	19.7	15.9	17.7
21	0.3	0.3	0.3	8.4	5.4	7.0	15.0	9.6	12.3	19.1	16.2	17.7
22	0.3	0.3	0.3	9.7	5.3	7.6	16.9	11.6	14.1	18.1	15.8	16.8
23	0.3	0.3	0.3	10.5	5.9	8.2	16.5	12.2	14.4	18.1	14.0	16.0
24	0.7	0.3	0.4	10.5	6.4	8.5	14.5	11.6	13.2	20.1	14.6	17.2
25	2.9	0.4	1.5	11.7	7.0	9.4	16.4	11.1	13.5	21.8	16.2	19.0
26	3.9	1.1	2.5	10.7	7.6	9.2	17.6	11.9	14.7	21.7	16.9	19.4
27	5.1	1.4	3.3	9.7	5.9	7.9	19.3	12.8	15.9	18.5	14.6	16.9
28	4.7	3.4	4.0	9.5	6.7	8.2	17.8	13.2	15.7	16.1	12.9	14.4
29	---	---	---	8.8	7.1	7.9	18.4	12.2	15.2	17.6	11.1	14.3
30	---	---	---	10.8	5.8	8.2	17.7	13.4	15.6	19.5	13.1	16.2
31	---	---	---	10.5	6.7	8.8	---	---	---	21.1	15.0	18.0
Month	5.1	0.2	0.6	11.7	1.0	6.2	19.3	5.9	12.5	21.8	10.9	16.6

09302000 DUCHESNE RIVER NEAR RANDLETT, UT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	22.2	15.9	19.0	27.7	24.5	26.2	25.0	21.8	23.2	23.1	18.4	20.9
2	22.5	17.4	20.1	27.8	24.1	25.9	25.7	19.6	22.5	22.7	17.7	20.5
3	22.4	17.8	20.1	27.9	22.8	25.5	24.1	21.1	22.4	22.8	17.8	20.5
4	22.9	17.3	20.0	28.5	23.0	25.7	22.1	19.7	21.0	23.0	18.0	20.7
5	24.1	18.2	21.0	26.2	23.6	25.1	24.8	19.0	21.9	21.4	18.3	20.1
6	22.7	18.7	20.7	26.1	23.5	24.8	25.7	20.7	22.9	21.4	17.5	19.6
7	22.1	19.0	20.5	28.2	22.9	25.4	25.3	19.9	22.4	21.3	17.4	19.4
8	20.5	17.7	19.2	26.6	23.7	25.0	26.0	19.8	22.8	20.2	18.2	19.2
9	19.5	16.7	17.8	27.3	22.7	24.7	25.4	21.3	23.5	20.0	16.4	18.3
10	19.4	16.3	17.8	26.0	21.7	24.1	26.3	20.4	23.4	20.1	13.4	17.4
11	20.6	17.5	18.9	26.0	21.5	23.8	24.5	21.2	23.1	20.3	15.7	18.1
12	21.8	17.8	19.7	26.6	21.5	24.1	25.7	21.0	23.3	21.0	16.2	18.7
13	22.2	17.8	19.9	27.4	21.7	24.6	24.8	21.4	23.1	21.2	16.6	19.0
14	21.4	18.3	19.8	28.8	22.1	25.5	24.7	19.6	22.2	20.6	17.0	18.9
15	19.8	17.3	18.6	29.9	23.4	26.8	23.5	20.3	22.0	19.0	14.6	17.3
16	22.7	16.8	19.5	30.0	24.8	27.6	24.5	19.4	22.0	14.9	11.1	13.2
17	24.0	17.3	20.5	29.3	25.0	27.3	25.6	20.8	23.2	14.7	10.6	12.6
18	26.2	19.2	22.6	29.5	24.8	26.9	25.7	20.4	23.2	15.3	10.7	13.0
19	26.2	20.8	23.6	29.2	24.4	26.6	25.8	20.6	23.4	15.9	11.2	13.6
20	25.8	20.9	23.4	30.0	24.2	26.9	25.5	21.5	23.6	14.6	12.5	13.3
21	26.1	20.1	23.2	30.7	25.2	27.9	25.6	20.3	23.1	13.2	11.0	12.2
22	27.2	20.9	24.1	30.2	24.6	27.6	24.7	20.7	23.0	13.5	10.5	12.0
23	27.6	21.2	24.5	30.8	25.1	27.7	24.0	20.3	22.3	13.9	10.4	12.2
24	27.7	21.5	24.7	29.1	24.8	27.0	22.3	19.6	21.2	14.7	10.7	12.7
25	28.2	22.4	25.4	28.2	24.9	26.6	23.5	19.3	21.2	14.8	10.6	12.7
26	27.4	22.8	25.4	29.3	23.9	26.3	21.7	18.8	20.1	15.3	11.0	13.2
27	28.2	22.2	25.3	29.3	23.2	26.3	21.6	16.3	19.0	15.7	11.4	13.6
28	29.3	23.2	26.3	29.6	24.2	27.0	22.8	17.7	20.2	15.9	11.7	13.9
29	29.3	23.9	26.6	29.5	24.6	27.1	23.5	18.3	21.0	16.2	12.0	14.2
30	29.2	23.8	26.5	28.0	24.3	26.0	22.8	19.1	21.3	16.2	12.1	14.3
31	---	---	---	26.0	23.1	24.6	23.8	18.9	21.4	---	---	---
Month	29.3	15.9	21.8	30.8	21.5	26.0	26.3	16.3	22.2	23.1	10.4	16.2
Year	30.8	0.0	11.6									

09302000 DUCHESNE RIVER NEAR RANDETT, UT—Continued

(00060), DD #8 (80154), DD #9 (80155)
 SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 [e, estimated]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)
	October			November			December		
1	277	---	---	446	---	---	399	---	---
2	418	---	---	465	---	---	394	---	---
3	661	---	---	480	---	---	414	---	---
4	643	---	---	462	---	---	375	---	---
5	673	---	---	454	---	---	392	---	---
6	669	---	---	459	---	---	379	---	---
7	556	---	---	458	---	---	383	---	---
8	415	---	---	446	---	---	323	---	---
9	344	---	---	440	---	---	283	---	---
10	334	---	---	444	---	---	292	---	---
11	318	---	---	439	---	---	332	---	---
12	334	---	---	485	---	---	e330	---	---
13	330	---	---	463	---	---	e360	---	---
14	333	---	---	446	---	---	e370	---	---
15	331	---	---	456	---	---	e370	---	---
16	338	---	---	433	---	---	e360	---	---
17	341	---	---	452	---	---	e380	---	---
18	339	---	---	465	---	---	e390	---	---
19	354	---	---	427	---	---	e400	---	---
20	371	---	---	427	---	---	e410	---	---
21	367	---	---	413	---	---	e415	---	---
22	368	---	---	422	---	---	e425	---	---
23	365	---	---	433	---	---	e420	---	---
24	353	---	---	398	---	---	e400	---	---
25	351	---	---	386	---	---	e400	---	---
26	349	---	---	402	---	---	e400	---	---
27	350	---	---	403	---	---	e410	---	---
28	360	---	---	333	---	---	e431	---	---
29	477	---	---	374	---	---	e439	---	---
30	506	---	---	379	---	---	e422	---	---
31	463	---	---	---	---	---	e412	---	---
Total	12,688	---	---	12,990	---	---	11,910	---	---

09302000 DUCHESNE RIVER NEAR RANDETT, UT—Continued

(00060), DD #8 (80154), DD #9 (80155)
 SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 [e, estimated]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)
	January			February			March		
1	e443	---	---	e403	---	---	574	---	---
2	e444	---	---	e405	---	---	567	---	---
3	e452	---	---	e401	---	---	538	---	---
4	e440	---	---	e422	---	---	536	---	---
5	e380	---	---	e428	---	---	479	---	---
6	e333	---	---	e390	---	---	463	---	---
7	e325	---	---	e377	---	---	469	---	---
8	e330	---	---	e425	---	---	508	---	---
9	e320	---	---	e451	---	---	507	---	---
10	e320	---	---	e417	---	---	459	---	---
11	e330	---	---	e362	---	---	399	---	---
12	e345	---	---	e352	---	---	466	---	---
13	e330	---	---	e398	---	---	448	---	---
14	e330	---	---	e424	---	---	397	---	---
15	e370	---	---	e438	---	---	447	---	---
16	e360	---	---	e375	---	---	442	---	---
17	e340	---	---	e358	---	---	434	---	---
18	e375	---	---	e436	---	---	457	---	---
19	e375	---	---	e441	---	---	497	---	---
20	e355	---	---	e399	---	---	490	---	---
21	e375	---	---	e363	---	---	452	---	---
22	e390	---	---	e388	---	---	456	---	---
23	e390	---	---	e418	---	---	417	---	---
24	e390	---	---	e435	---	---	395	---	---
25	e390	---	---	e471	---	---	385	---	---
26	e431	---	---	470	---	---	417	---	---
27	e376	---	---	475	---	---	401	---	---
28	e369	---	---	522	---	---	373	---	---
29	e421	---	---	---	---	---	384	---	---
30	e407	---	---	---	---	---	480	---	---
31	e428	---	---	---	---	---	427	---	---
Total	11,664	---	---	11,644	---	---	14,164	---	---

09302000 DUCHESNE RIVER NEAR RANDETT, UT—Continued

(00060), DD #8 (80154), DD #9 (80155)
 SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 [e, estimated]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)				Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	
				Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)				
			April				May			
									June	
1	407	---	---	270	72	52	546	119	176	
2	414	---	---	278	83	62	614	135	224	
3	370	---	---	322	147	128	752	166	337	
4	369	---	---	405	180	197	827	155	347	
5	388	---	---	449	151	183	826	120	273	
6	447	---	---	344	99	93	1,240	228	781	
7	434	---	---	309	82	69	1,340	248	907	
8	432	---	---	277	64	49	1,340	199	749	
9	451	---	---	278	61	46	1,680	202	930	
10	456	---	---	289	75	59	2,000	315	1,840	
11	414	---	---	289	79	62	2,390	570	3,730	
12	402	---	---	296	82	66	1,660	381	1,740	
13	389	---	---	260	72	51	1,300	236	850	
14	390	---	---	393	127	141	1,080	145	432	
15	454	---	---	564	182	279	894	103	255	
16	540	---	---	712	254	494	642	93	161	
17	494	---	---	881	335	808	442	80	97	
18	481	---	---	883	281	674	302	58	48	
19	416	---	---	949	245	633	233	42	26	
20	384	---	---	1,320	331	1,200	170	53	24	
21	376	77	78	1,640	436	1,970	134	51	18	
22	383	84	87	1,680	444	2,010	122	52	19	
23	386	88	91	1,550	224	941	136	107	41	
24	404	93	102	1,100	196	581	99	65	17	
25	394	81	87	867	138	328	79	41	8.8	
26	327	70	62	965	151	410	92	38	9.4	
27	258	61	43	1,360	272	1,010	90	43	10	
28	240	59	38	906	177	454	103	48	14	
29	270	63	46	542	212	313	79	46	9.9	
30	271	62	45	461	101	126	73	47	9.1	
31	---	---	---	490	107	142	---	---	---	
Total	11,841	---	---	21,329	---	13,631	21,285	---	14,083.2	

09302000 DUCHESNE RIVER NEAR RANDLETT, UT—Continued

(00060), DD #8 (80154), DD #9 (80155)
 SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY)
 WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
 [e, estimated]

Day	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)	Mean discharge (ft ³ /s)	Mean concentration (mg/l)	Sediment discharge (tons/day)
	July			August			September		
1	61	38	6.2	72	---	---	60	---	---
2	58	34	5.4	116	---	---	54	---	---
3	60	34	5.6	110	---	---	54	---	---
4	65	36	6.4	112	---	---	59	---	---
5	54	36	5.3	105	---	---	52	---	---
6	66	51	9.3	89	---	---	43	---	---
7	77	87	18	84	---	---	47	---	---
8	102	88	24	113	---	---	48	---	---
9	101	95	26	103	---	---	83	---	---
10	105	90	25	78	---	---	126	---	---
11	97	73	19	70	---	---	107	---	---
12	78	70	15	86	---	---	95	---	---
13	67	70	13	90	---	---	83	---	---
14	52	65	9.1	80	---	---	84	---	---
15	55	69	10	79	---	---	176	---	---
16	50	87	12	81	---	---	359	---	---
17	47	77	9.7	80	---	---	229	---	---
18	35	51	4.8	72	---	---	174	---	---
19	39	---	---	72	---	---	158	---	---
20	47	---	---	61	---	---	125	---	---
21	39	---	---	67	---	---	144	---	---
22	39	---	---	55	---	---	167	---	---
23	36	---	---	45	---	---	186	---	---
24	36	---	---	49	---	---	205	---	---
25	42	---	---	51	---	---	197	---	---
26	58	---	---	58	---	---	153	---	---
27	74	---	---	68	---	---	131	---	---
28	73	---	---	105	---	---	113	---	---
29	57	---	---	94	---	---	98	---	---
30	55	---	---	74	---	---	91	---	---
31	62	---	---	68	---	---	---	---	---
Total	1,887	---	---	2,487	---	---	3,701	---	---