

Water-Data Report UT-2005

09261000 GREEN RIVER NEAR JENSEN, UT

Green River Basin

LOCATION.--Lat 40°24'34", long 109°14'05" referenced to North American Datum of 1927, in NE ¼ SW ¼ SE ¼ sec.5, T.5 S., R.24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft upstream from highway bridge, 1 mi downstream from Cub Creek and Chew Ranch, 4 mi southeast of Dinosaur National Monument headquarters, 6.5 mi northeast of Jensen, 12 mi upstream from Brush Creek, and 313 mi north of the confluence with the Colorado River.

DRAINAGE AREA.--29,660 mi², approximately. This noncontributing area includes 3,959 mi² in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 1243: 1904(m). WDR UT-73: 1972. WDR UT-76-1: Drainage area.

PERIOD OF RECORD.--October 1903 to December 1904, June to August 1905 (gage heights only), March to September 1906, July to October 1914, August to December 1915, October 1946 to current year. Prior to October 1946, published as "at Jensen," except October to December 1903, which was published as "near Vernal."

GAGE.--Water-stage recorder. Elevation of gage is 4,758 ft above NGVD of 1929, from river-profile map. Prior to October 1, 1946, nonrecording gages at site 15 mi downstream at different datums. December 13, 1946 to September 30, 1948, water-stage recorder at present site at datum 1.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234500) 93.1 mi upstream beginning November 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft³/s, May 18, 1984; gage height, 14.66 ft; minimum observed, 102 ft³/s, Dec 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,900 ft³/s, May 26, gage height, 9.83 ft; minimum daily discharge, 1,030 ft³/s, Dec 1.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,870	1,890	1,030	1,540	1,940	1,940	2,370	7,850	16,700	7,540	2,080	1,730
2	1,920	1,830	1,160	1,520	1,810	1,930	2,310	7,140	16,100	6,960	2,070	e1,720
3	1,860	1,790	1,090	1,490	1,840	1,850	2,130	6,190	14,700	6,350	2,060	e1,710
4	2,200	1,770	1,180	1,520	1,800	1,870	2,040	5,610	16,600	6,000	2,000	e1,690
5	2,130	1,690	1,140	1,520	1,730	1,830	1,980	5,310	16,700	5,740	1,940	e1,680
6	2,070	1,590	1,180	1,340	1,700	1,840	2,120	5,280	16,400	5,680	1,960	e1,660
7	1,950	1,610	1,310	1,380	1,700	1,870	2,840	5,650	17,300	5,290	1,990	e1,650
8	1,840	1,640	1,550	1,480	1,740	1,950	2,980	6,460	15,500	4,970	1,940	1,640
9	1,760	1,690	1,590	1,560	1,570	2,060	2,790	7,570	14,400	4,760	1,930	1,670
10	1,720	1,650	1,580	1,790	1,530	2,160	3,280	7,920	13,500	4,570	1,890	1,820
11	1,660	1,630	1,600	2,350	1,450	2,250	4,070	8,190	13,000	4,370	1,880	1,830
12	1,610	1,690	1,620	3,400	1,530	2,250	3,850	8,270	12,800	4,030	1,870	1,750
13	1,590	1,730	1,630	2,820	1,610	2,380	3,440	8,700	11,900	3,580	1,820	1,710
14	1,550	1,720	1,590	2,670	1,700	2,330	3,200	7,840	11,600	3,380	1,830	1,890
15	1,480	1,710	1,620	2,450	1,850	2,460	3,200	7,230	11,200	3,220	1,870	1,790
16	1,430	1,670	1,670	2,090	1,990	2,480	3,720	6,950	10,000	3,090	1,930	1,780
17	1,440	1,650	1,600	1,910	1,690	2,180	4,440	7,830	9,590	2,890	1,900	1,760
18	1,430	1,630	1,450	1,760	1,600	1,960	4,910	11,200	9,540	2,640	1,890	1,710
19	1,470	1,580	1,480	1,690	1,480	1,920	5,870	13,900	9,630	2,680	1,830	1,730
20	1,460	1,590	1,460	1,780	1,640	1,940	6,930	13,800	9,820	2,530	1,790	1,750
21	1,590	1,580	1,470	1,790	1,860	1,860	7,720	14,500	10,200	2,430	1,810	1,740
22	1,640	1,560	1,390	1,830	1,960	1,810	7,840	16,000	9,980	2,310	1,860	1,760
23	1,700	1,540	1,270	1,790	2,170	1,880	6,880	17,900	9,690	2,270	1,840	1,720
24	1,670	1,550	1,150	1,780	2,370	2,030	5,860	19,000	9,570	2,260	1,820	1,760
25	1,790	1,550	1,220	1,650	2,480	2,010	5,870	19,400	9,880	2,350	1,820	1,770
26	1,850	1,560	1,340	1,790	2,270	2,000	7,180	19,500	9,750	2,270	1,780	1,740
27	1,740	1,520	1,390	1,880	2,090	2,080	7,700	19,000	9,050	2,250	1,760	1,770
28	1,920	1,500	1,400	1,970	2,020	2,070	7,240	17,500	8,700	2,250	1,770	1,830
29	1,880	1,370	1,490	2,020	---	2,020	6,730	16,500	8,380	2,270	1,750	1,860
30	1,860	1,090	1,560	1,930	---	1,800	7,540	16,600	7,550	2,240	1,740	1,790
31	1,930	---	1,600	1,940	---	1,860	---	17,100	---	2,180	1,750	---
Total	54,010	48,570	43,810	58,430	51,120	62,870	139,030	351,890	359,730	115,350	58,170	52,410
Mean	1,742	1,619	1,413	1,885	1,826	2,028	4,634	11,350	11,990	3,721	1,876	1,747
Max	2,200	1,890	1,670	3,400	2,480	2,480	7,840	19,500	17,300	7,540	2,080	1,890
Min	1,430	1,090	1,030	1,340	1,450	1,800	1,980	5,280	7,550	2,180	1,740	1,640
Ac-ft	107,100	96,340	86,900	115,900	101,400	124,700	275,800	698,000	713,500	228,800	115,400	104,000

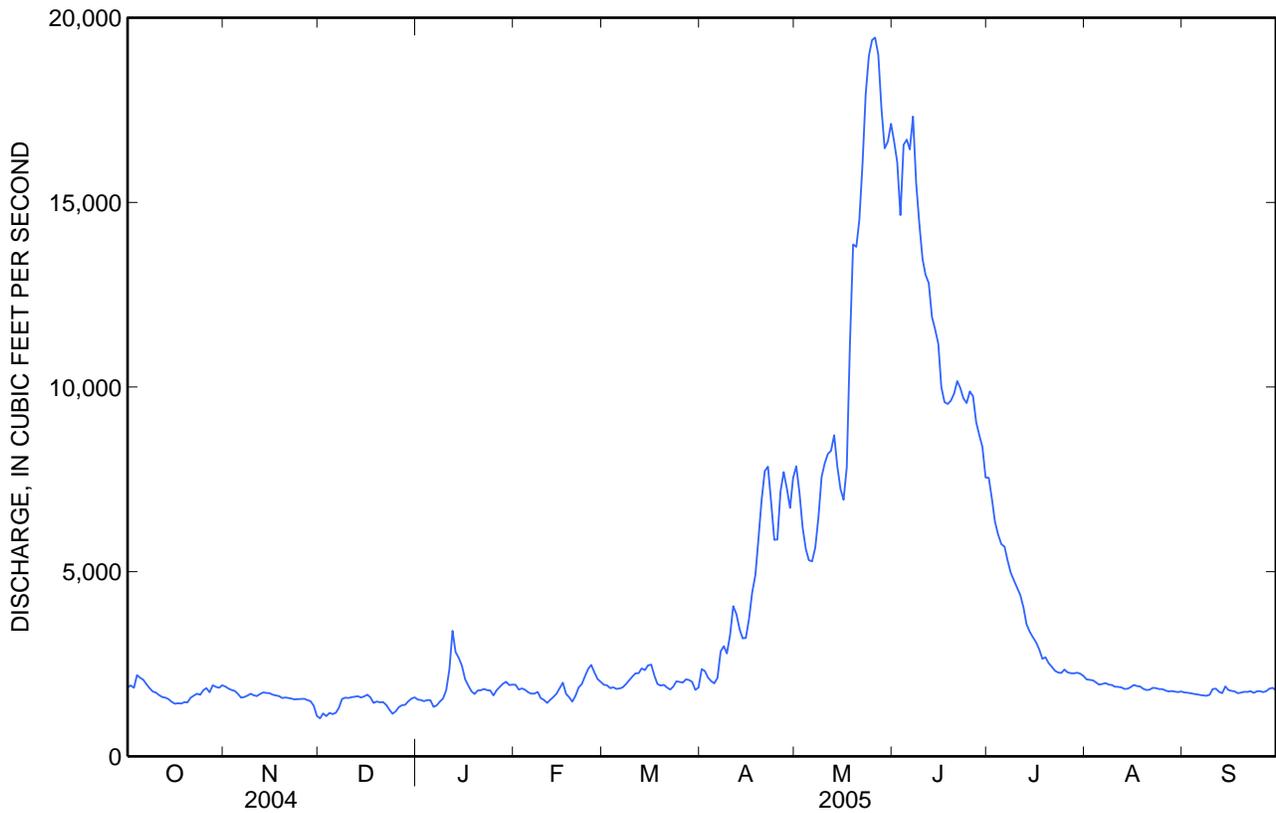
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,108	2,191	2,149	2,102	2,321	3,023	5,537	11,200	11,220	4,533	2,376	1,892
Max	5,020	4,833	4,414	4,844	4,839	5,765	15,350	24,110	26,460	16,110	6,460	4,159
(WY)	(1983)	(1987)	(1987)	(1985)	(1986)	(1986)	(1962)	(1984)	(1957)	(1983)	(1983)	(1983)
Min	344	590	527	598	721	946	2,036	4,220	2,505	504	453	503
(WY)	(1964)	(1963)	(1963)	(1955)	(1955)	(1963)	(1963)	(1990)	(2002)	(1963)	(1963)	(1963)

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SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1947 - 2005	
Annual total	868,710		1,395,390			
Annual mean	2,374		3,823		4,225	
Highest annual mean					7,783	1984
Lowest annual mean					1,457	1963
Highest daily mean	11,400	May 13	19,500	May 26	38,500	May 18, 1984
Lowest daily mean	1,000	Jan 9	1,030	Dec 1	260	Aug 2, 1963
Annual seven-day minimum	1,020	Jan 7	1,120	Nov 30	296	Oct 9, 1963
Annual runoff (ac-ft)	1,723,000		2,768,000		3,061,000	
10 percent exceeds	4,610		9,650		10,400	
50 percent exceeds	1,640		1,890		2,660	
90 percent exceeds	1,100		1,520		1,090	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1947 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1947 to September 1952, October 1961 to September 1996.

WATER TEMPERATURE: March 1949 to September 1959, October 1961 to September 1996, October 1998 to current year.

SUSPENDED-SEDIMENT DISCHARGE: May 1948 to September 1979.

INSTRUMENTATION.--Temperature data logger October 1, 1998 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. Sediment data for water years 1998 to 2002 was collected by Colorado District of U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,330 microsiemens/cm, Sep 10, 1963; minimum daily, 176 microsiemens/cm, May 24, 1963.

WATER TEMPERATURE: Maximum, 30.0°C, Jul 11, 1958; minimum, 0.0°C, on many days during winter period most years.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 40,600 mg/L, Aug 23, 1960; minimum daily mean, 9 mg/L, Oct 7-11, 1953, Nov 22, 1962, and Sep 1, 1972.

SEDIMENT LOADS: Maximum daily, 2,500,000 tons, Mar 29, 1962; minimum daily, 10 tons, on many days in 1962 and 1963.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.6°C, Jul 15; minimum, 0.0°C, Feb 17 (may have occurred on more days in Dec, Jan, and early Feb when data was unavailable).

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	5.3	4.1	4.6	7.9	5.0	6.5	10.1	8.1	8.9
2	---	---	---	6.1	3.6	4.8	9.3	5.4	7.3	10.6	7.6	9.0
3	---	---	---	5.6	3.9	4.7	10.9	7.3	9.0	12.2	8.5	10.3
4	---	---	---	6.4	3.7	5.0	10.5	9.0	9.6	13.8	10.6	12.1
5	---	---	---	7.0	4.3	5.7	11.0	7.6	9.4	13.9	11.9	12.9
6	---	---	---	7.5	5.1	6.2	11.3	8.1	9.7	14.1	12.4	13.2
7	---	---	---	7.9	5.3	6.5	12.2	8.7	10.3	13.2	11.9	12.6
8	---	---	---	7.6	5.9	6.8	11.4	10.0	10.7	13.5	10.7	12.1
9	---	---	---	8.4	5.8	7.0	10.0	8.6	9.4	14.1	11.5	12.6
10	---	---	---	8.7	6.2	7.3	9.6	7.3	8.3	12.8	11.9	12.4
11	---	---	---	8.8	6.4	7.5	10.1	7.5	8.7	11.9	11.0	11.4
12	---	---	---	8.7	6.2	7.4	10.7	7.5	9.1	12.2	10.4	11.3
13	---	---	---	7.8	5.9	6.9	11.5	8.7	10.1	12.9	10.7	11.8
14	---	---	---	6.4	4.7	5.6	12.7	9.9	11.1	14.4	11.0	12.6
15	3.1	1.6	2.2	5.6	3.2	4.4	12.6	10.1	11.2	15.5	12.2	13.9
16	1.9	0.8	1.2	5.8	3.4	4.5	13.0	9.9	11.4	16.3	14.1	15.2
17	1.0	0.0	0.4	6.2	4.3	5.2	13.6	10.9	12.3	15.6	13.9	14.8
18	---	---	---	7.3	4.7	5.9	13.5	11.5	12.5	14.4	13.0	13.6
19	2.4	0.2	1.3	7.6	4.7	6.2	13.0	11.5	12.3	14.7	12.9	13.8
20	4.0	1.4	2.7	7.1	6.3	6.7	12.2	10.4	11.3	15.2	13.0	14.1
21	4.6	2.3	3.3	7.9	5.4	6.8	11.2	9.0	10.1	16.3	13.8	15.0
22	4.1	2.7	3.2	7.6	5.4	6.7	10.4	8.5	9.5	16.6	14.9	15.8
23	4.8	3.1	4.0	7.3	6.4	6.8	11.8	8.5	10.1	16.5	15.0	15.7
24	4.8	2.6	3.6	8.4	6.4	7.3	11.2	10.2	10.7	16.3	15.2	15.7
25	4.3	2.2	3.2	7.7	6.0	6.7	12.2	10.4	11.2	15.7	14.6	15.2
26	4.7	2.2	3.3	7.9	5.3	6.7	13.0	9.9	11.4	15.5	14.3	14.9
27	5.2	2.6	3.8	8.5	5.6	7.0	12.2	10.6	11.5	15.4	14.1	14.7
28	5.5	3.0	4.1	7.7	6.7	7.1	11.8	10.4	11.1	15.6	13.9	14.7
29	---	---	---	9.5	6.4	7.9	11.2	9.5	10.3	15.6	14.4	14.9
30	---	---	---	8.5	7.0	7.9	10.1	8.4	8.9	14.7	12.9	14.1
31	---	---	---	8.4	5.6	7.0	---	---	---	13.1	11.9	12.5
Month	5.5	0.0	2.8	9.5	3.2	6.3	13.6	5.0	10.2	16.6	7.6	13.3

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	13.3	12.3	12.8	21.8	18.7	20.1	23.1	21.0	21.8	19.6	16.3	18.0
2	13.2	12.7	13.0	21.2	18.4	19.7	23.3	20.5	22.0	19.6	16.7	18.3
3	12.7	11.5	12.2	20.7	18.8	19.7	23.0	20.5	21.9	19.6	17.5	18.8
4	11.8	10.9	11.4	20.9	17.4	19.0	23.2	20.0	21.8	20.5	17.9	19.3
5	12.9	10.8	11.8	20.5	17.7	19.2	23.6	20.6	22.3	20.7	18.4	19.8
6	14.1	12.4	13.2	21.8	18.4	20.0	23.4	21.2	22.4	20.5	17.9	19.1
7	14.1	13.0	13.5	22.3	19.0	20.6	23.3	20.9	22.2	20.3	17.8	19.1
8	14.4	13.0	13.7	22.5	19.1	20.8	22.7	20.2	21.5	20.3	18.0	19.2
9	15.4	13.6	14.5	22.3	19.3	20.9	23.4	20.6	22.1	20.0	18.1	18.9
10	15.4	13.9	14.6	22.2	19.3	20.8	22.9	21.3	21.7	19.2	17.1	18.1
11	15.1	13.7	14.5	22.5	18.9	20.7	22.3	20.3	21.4	18.4	16.2	17.3
12	15.0	13.8	14.5	23.6	19.6	21.5	22.0	19.7	21.0	18.1	15.0	16.0
13	14.7	12.6	13.7	24.9	20.9	22.8	21.9	19.6	20.6	16.2	14.2	15.2
14	16.6	13.7	15.1	25.2	22.3	23.8	21.8	19.0	20.4	16.6	13.9	15.2
15	17.8	15.6	16.5	25.6	22.7	24.1	22.0	19.1	20.7	16.4	14.0	15.2
16	18.7	16.3	17.4	24.7	22.3	23.4	21.9	19.8	20.8	16.3	14.0	15.2
17	19.4	17.1	18.2	24.0	21.5	22.7	21.6	19.3	20.7	16.2	14.3	15.3
18	19.5	17.6	18.5	24.0	21.0	22.5	21.3	19.0	20.4	16.2	14.1	15.2
19	20.3	17.8	18.9	23.7	20.7	22.3	21.0	18.8	20.1	16.7	14.3	15.5
20	20.8	18.0	19.4	24.2	21.2	22.7	21.4	19.2	20.3	17.4	14.4	15.8
21	21.3	18.5	19.8	24.7	21.5	23.2	21.3	19.0	19.9	17.3	15.3	15.8
22	20.9	19.0	19.9	24.7	22.3	23.7	21.1	18.6	20.0	17.3	14.8	15.9
23	21.3	19.2	20.1	24.3	22.2	23.0	21.3	19.2	20.3	17.0	14.4	15.7
24	21.2	19.1	20.1	23.7	21.5	22.7	21.2	18.6	20.1	16.8	15.3	16.1
25	21.0	18.9	19.9	22.1	20.5	21.3	21.1	18.9	20.3	16.7	15.2	16.0
26	20.6	18.8	19.7	22.2	18.9	20.6	22.0	18.9	20.6	16.2	13.9	15.1
27	20.7	18.3	19.5	22.3	19.0	20.9	21.8	19.2	20.1	15.8	13.4	14.1
28	19.5	18.3	18.9	23.0	19.9	21.5	21.0	18.6	19.9	15.7	13.8	14.7
29	20.3	17.6	18.8	23.5	20.3	22.0	21.1	18.3	20.0	15.9	13.4	14.7
30	21.0	17.8	19.3	23.2	21.3	22.3	21.0	18.8	19.8	15.8	13.4	14.6
31	---	---	---	23.7	21.2	22.5	19.8	17.2	18.7	---	---	---
Month	21.3	10.8	16.4	25.6	17.4	21.6	23.6	17.2	20.8	20.7	13.4	16.6