

Water-Data Report 2009

**09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO**

Gunnison Basin  
Lower Gunnison Subbasin

LOCATION.--Lat 38°59'00", long 108°27'00" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.14, T.2 S., R.1 E., Mesa County, CO, Hydrologic Unit 14020005, on right bank 180 ft upstream from bridge on State Highway 141, 0.4 mi downstream from Whitewater Creek, 0.5 mi south of Whitewater, and 8 mi southeast of Grand Junction.

DRAINAGE AREA.--7,928 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1894 to December 1895 (gage heights only), October 1896 to September 1899, October 1901 to October 1906 (published as "at Whitewater"), October 1916 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 509: Drainage area at former site. WSP 2124: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Datum of gage is 4,628.12 ft above NGVD of 1929. See WSP 1733 or 1924 for history of changes prior to October 1959.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records show flow that enters Colorado River from Gunnison River Basin except for about 60 ft<sup>3</sup>/s diverted downstream from gage during irrigation season. Natural flow of river affected by diversions for irrigation of about 233,000 acres upstream from station, storage reservoirs, and return flow from irrigated lands.

## 09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,940	1,650	1,310	e1,260	1,400	1,400	1,650	5,310	5,840	5,080	2,000	1,790
2	1,960	1,530	1,290	e1,280	1,400	1,410	1,670	5,780	5,710	4,780	1,930	1,670
3	1,820	1,490	1,280	1,300	1,400	1,360	1,600	7,260	6,050	4,550	1,900	1,600
4	1,790	1,510	1,280	1,290	1,360	1,390	1,620	6,360	6,360	4,580	1,840	1,520
5	1,930	1,480	1,270	e1,280	1,370	1,200	1,660	5,940	6,410	4,500	1,810	1,430
6	2,080	1,490	1,250	e1,300	1,420	1,220	1,580	5,720	6,650	4,390	1,800	1,470
7	2,030	1,460	1,260	e1,240	1,430	1,440	1,580	6,320	6,560	4,030	1,880	1,510
8	1,990	1,520	1,260	1,270	1,430	1,440	1,720	7,560	6,200	3,520	1,870	1,510
9	2,000	1,530	1,280	1,330	1,440	1,440	2,080	8,310	5,690	3,080	1,860	1,510
10	1,980	1,520	1,210	1,320	1,430	1,460	2,130	8,510	5,570	2,830	1,930	1,480
11	1,990	1,500	1,190	1,290	1,420	1,460	2,020	9,110	5,220	2,570	1,860	1,500
12	2,030	1,440	1,250	1,320	1,350	1,430	2,130	9,110	4,880	2,500	1,780	1,550
13	1,940	1,450	1,260	1,380	1,340	1,440	1,950	11,500	4,540	2,340	1,760	1,580
14	1,900	1,490	1,310	1,390	1,340	1,420	1,970	11,400	4,520	2,110	1,830	1,610
15	1,870	1,380	1,250	1,380	1,310	1,410	2,300	10,100	4,560	1,900	1,930	1,650
16	1,890	1,360	1,250	1,390	1,300	1,410	2,990	9,320	4,380	1,840	1,940	1,690
17	1,870	1,360	1,270	1,380	1,310	1,410	3,010	9,010	4,280	1,820	1,900	1,740
18	1,830	1,360	1,280	1,370	1,280	1,440	3,030	8,640	4,280	1,790	1,800	1,790
19	1,820	1,360	1,280	1,370	1,270	1,540	3,170	8,290	4,270	1,780	1,750	1,890
20	1,820	1,370	1,250	1,370	1,310	1,610	3,690	7,620	4,310	1,800	1,770	1,870
21	1,820	1,470	1,220	1,330	1,350	1,720	4,390	6,840	4,530	1,800	1,750	1,990
22	1,820	1,400	1,230	1,360	1,360	1,860	5,390	6,030	4,690	1,770	1,760	1,980
23	1,850	1,310	1,210	1,400	1,380	1,960	5,680	5,890	4,450	1,750	1,770	2,000
24	1,880	1,300	1,170	1,460	1,480	1,940	6,080	6,540	4,440	1,750	1,840	2,030
25	1,890	1,290	1,230	1,540	1,530	1,740	6,100	8,620	4,780	1,780	1,830	2,000
26	1,880	1,230	1,290	1,560	1,500	1,640	5,920	8,140	5,260	1,840	1,830	1,960
27	1,860	1,260	1,250	1,490	1,470	1,710	5,110	7,310	6,310	2,030	1,800	1,940
28	1,850	1,370	e1,180	1,420	1,440	1,660	4,530	6,400	6,330	1,980	1,800	1,900
29	1,830	1,360	e1,200	1,410	---	1,640	3,910	5,890	5,960	1,910	1,790	1,850
30	1,840	1,320	e1,210	1,420	---	1,690	4,490	5,840	5,420	1,900	1,810	1,800
31	1,780	---	e1,230	1,410	---	1,680	---	5,810	---	1,940	1,840	---
<b>Total</b>	58,780	42,560	38,700	42,310	38,820	47,570	95,150	234,480	158,450	82,240	56,960	51,810
<b>Mean</b>	1,896	1,419	1,248	1,365	1,386	1,535	3,172	7,564	5,282	2,653	1,837	1,727
<b>Max</b>	2,080	1,650	1,310	1,560	1,530	1,960	6,100	11,500	6,650	5,080	2,000	2,030
<b>Min</b>	1,780	1,230	1,170	1,240	1,270	1,200	1,580	5,310	4,270	1,750	1,750	1,430
<b>Ac-ft</b>	116,600	84,420	76,760	83,920	77,000	94,360	188,700	465,100	314,300	163,100	113,000	102,800

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,506	1,451	1,350	1,271	1,272	1,460	3,087	7,229	6,711	2,474	1,412	1,418
<b>Max</b>	3,479	3,303	3,225	3,515	3,844	4,114	9,184	18,870	19,630	11,950	3,639	4,959
<b>(WY)</b>	(1987)	(1987)	(1987)	(1974)	(1974)	(1997)	(1942)	(1920)	(1957)	(1995)	(1957)	(1929)
<b>Min</b>	268	497	500	500	500	500	580	698	577	165	153	267
<b>(WY)</b>	(1935)	(1899)	(1899)	(1899)	(1899)	(1903)	(1977)	(1977)	(1934)	(1934)	(1934)	(1934)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1897 - 2009	
<b>Annual total</b>	1,240,420		947,830			
<b>Annual mean</b>	3,389		2,597		2,556	
<b>Highest annual mean</b>					5,187	1984
<b>Lowest annual mean</b>					838	1934
<b>Highest daily mean</b>	14,500	May 22	11,500	May 13	35,200	May 23, 1920
<b>Lowest daily mean</b>	1,170	Dec 24	1,170	Dec 24	106	Jul 20, 1934
<b>Annual seven-day minimum</b>	1,220	Mar 19	1,220	Dec 23	116	Jul 14, 1934
<b>Maximum peak flow</b>			12,900	May 13	<sup>a</sup> 35,700	May 23, 1920
<b>Maximum peak stage</b>			10.21	May 13	14.95	May 23, 1920
<b>Annual runoff (ac-ft)</b>	2,460,000		1,880,000		1,852,000	
<b>10 percent exceeds</b>	8,120		5,900		5,910	
<b>50 percent exceeds</b>	2,080		1,780		1,400	
<b>90 percent exceeds</b>	1,280		1,280		714	

<sup>a</sup> Site and datum then in use, from rating curve extended above 22,000 ft<sup>3</sup>/s.

