

Water-Data Report 2010

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 mi².

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 discharges above 3,800 ft³/s, which are fair, and estimated daily discharges, which are poor. Records show flow that enters Colorado River from Gunnison River Basin except for about 60 ft³/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 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,800	1,630	1,250	e1,340	1,310	1,160	1,340	3,400	4,280	1,350	1,630	1,490
2	1,850	1,590	1,420	e1,320	1,320	1,180	1,420	2,760	4,340	1,360	1,740	1,460
3	1,780	1,580	1,550	e1,330	1,300	1,180	1,330	2,550	3,370	1,410	1,830	1,480
4	1,710	1,490	e1,450	e1,300	1,320	1,210	1,310	2,320	3,340	1,390	1,860	1,510
5	1,720	1,430	e1,410	e1,340	1,330	1,240	1,370	2,570	3,990	1,370	3,130	1,550
6	1,760	1,410	e1,430	e1,360	1,320	1,220	1,340	2,910	4,810	1,330	2,300	1,560
7	1,790	1,400	e1,470	e1,320	1,340	1,190	1,290	3,160	5,230	1,250	2,130	1,520
8	1,770	1,390	e1,540	e1,270	1,330	1,280	1,410	3,080	5,420	1,210	2,260	1,590
9	1,700	1,380	e1,480	e1,200	1,270	1,280	1,580	3,040	5,270	1,250	2,220	1,820
10	1,690	1,370	e1,500	e1,240	1,280	1,210	1,940	3,570	5,000	1,290	2,100	1,740
11	1,690	1,360	e1,510	e1,270	1,320	1,230	2,120	3,470	4,390	1,290	1,960	1,750
12	1,690	1,360	e1,520	e1,270	1,320	1,200	2,440	3,240	3,820	1,330	1,930	1,780
13	1,690	1,350	e1,490	e1,310	1,300	1,180	2,980	3,550	3,870	1,310	1,890	1,800
14	1,740	1,390	e1,470	e1,350	1,310	1,230	2,830	4,190	3,510	1,280	1,760	1,750
15	1,780	1,470	e1,430	e1,350	1,290	1,240	2,660	4,730	3,110	1,220	1,650	1,670
16	1,810	1,400	1,340	e1,340	1,280	1,200	3,300	5,410	2,750	1,180	1,740	1,660
17	1,790	1,340	1,390	1,310	1,300	1,200	3,850	5,810	2,550	1,160	1,770	1,660
18	1,770	1,330	1,370	1,300	1,290	1,200	4,670	7,410	2,420	1,160	1,820	1,630
19	1,780	1,330	1,360	1,310	1,310	1,220	4,760	7,320	2,260	1,200	1,750	1,640
20	1,760	1,340	1,370	1,320	1,390	1,250	4,990	6,610	2,160	1,200	2,420	1,660
21	1,750	1,320	1,360	1,320	1,370	1,200	5,470	6,320	2,160	1,180	2,190	1,680
22	1,780	1,320	1,370	1,390	1,240	1,170	6,400	6,570	1,950	1,510	1,980	1,680
23	1,790	1,320	1,380	1,360	1,090	1,130	5,520	6,070	1,760	1,450	1,950	1,940
24	1,790	1,300	1,370	1,330	1,050	1,160	3,770	5,710	1,680	1,380	1,820	1,920
25	1,810	1,260	1,320	1,300	1,140	1,190	3,110	4,680	1,600	1,340	1,710	1,870
26	1,830	1,260	e1,270	1,240	1,150	1,170	2,810	3,590	1,580	1,310	1,620	1,850
27	1,890	1,280	e1,260	1,270	1,130	1,170	2,820	3,470	1,570	1,280	1,560	1,840
28	1,990	1,280	e1,260	1,330	1,120	1,160	3,270	4,070	1,550	1,350	1,530	1,810
29	2,060	1,280	e1,280	1,330	---	1,140	4,150	4,910	1,450	1,470	1,650	1,780
30	2,030	1,270	e1,320	1,330	---	1,130	4,240	4,890	1,410	1,400	1,640	1,780
31	1,810	---	e1,310	1,320	---	1,220	---	4,600	---	1,440	1,560	---
Total	55,600	41,230	43,250	40,670	35,520	37,140	90,490	135,980	92,600	40,650	59,100	50,870
Mean	1,794	1,374	1,395	1,312	1,269	1,198	3,016	4,386	3,087	1,311	1,906	1,696
Max	2,060	1,630	1,550	1,390	1,390	1,280	6,400	7,410	5,420	1,510	3,130	1,940
Min	1,690	1,260	1,250	1,200	1,050	1,130	1,290	2,320	1,410	1,160	1,530	1,460
Ac-ft	110,300	81,780	85,790	80,670	70,450	73,670	179,500	269,700	183,700	80,630	117,200	100,900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,509	1,450	1,350	1,272	1,272	1,457	3,087	7,201	6,675	2,463	1,417	1,420
Max	3,479	3,303	3,225	3,515	3,844	4,114	9,184	18,870	19,630	11,950	3,639	4,959
(WY)	(1987)	(1987)	(1987)	(1974)	(1974)	(1997)	(1942)	(1920)	(1957)	(1995)	(1957)	(1929)
Min	268	497	500	500	500	500	580	698	577	165	153	267
(WY)	(1935)	(1899)	(1899)	(1899)	(1899)	(1903)	(1977)	(1977)	(1934)	(1934)	(1934)	(1934)

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1897 - 2010	
Annual total	947,870		723,100			
Annual mean	2,597		1,981		2,551	
Highest annual mean					5,187	1984
Lowest annual mean					838	1934
Highest daily mean	11,500	May 13	7,410	May 18	35,200	May 23, 1920
Lowest daily mean	1,200	Mar 5	1,050	Feb 24	106	Jul 20, 1934
Annual seven-day minimum	1,270	Nov 25	1,120	Feb 23	116	Jul 14, 1934
Maximum peak flow			8,020	May 18	^a 35,700	May 23, 1920
Maximum peak stage			7.42	May 18	14.95	May 23, 1920
Annual runoff (ac-ft)	1,880,000		1,434,000		1,848,000	
10 percent exceeds	5,900		3,790		5,880	
50 percent exceeds	1,750		1,480		1,400	
90 percent exceeds	1,320		1,220		718	

^a Site and datum then in use, from rating curve extended above 22,000 ft³/s.

