

Water-Data Report CO-2005

09152500 GUNNISON RIVER NEAR GRAND JUNCTION, CO

GUNNISON RIVER BASIN

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, 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.

WATER-DISCHARGE 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 discharge, 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.

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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	2,680	1,210	e991	1,030	1,180	1,560	2,200	5,220	6,270	2,960	1,370	1,220
2	2,630	1,210	e935	989	1,100	1,470	2,250	5,190	6,030	2,800	1,360	1,280
3	2,370	1,120	e927	957	1,050	1,490	2,300	5,130	6,220	2,640	1,370	1,280
4	2,510	1,100	e968	959	1,110	1,540	2,490	4,990	6,060	2,540	1,330	1,350
5	2,560	1,110	1,020	1,000	1,130	1,550	2,600	5,160	e5,710	2,360	1,350	1,470
6	2,880	1,100	1,030	981	1,140	1,570	2,540	5,670	e4,940	2,200	1,550	1,450
7	2,330	1,090	1,030	942	1,130	1,570	2,620	6,320	4,290	2,050	1,470	1,420
8	1,860	1,080	1,020	943	1,160	1,590	3,220	6,430	4,150	1,930	e1,510	1,360
9	1,560	1,090	999	1,170	e1,210	1,610	3,700	6,260	4,090	1,850	e1,440	1,550
10	1,520	1,130	986	1,230	1,310	1,600	3,650	6,990	4,150	1,790	1,440	2,050
11	1,470	1,140	976	1,530	1,450	1,490	3,760	7,660	5,150	1,740	1,760	1,880
12	1,450	1,130	967	1,790	1,560	1,360	3,700	7,040	5,130	1,630	1,830	1,740
13	1,410	1,110	964	1,480	1,570	1,420	3,750	6,370	5,360	1,490	1,760	1,660
14	1,470	1,140	965	1,290	1,560	1,440	4,190	6,330	4,570	1,450	1,700	1,640
15	1,460	1,130	961	1,260	1,560	1,420	5,070	6,490	4,340	1,460	1,700	1,640
16	1,430	1,080	956	1,250	1,500	1,780	5,840	7,070	4,560	1,450	1,630	1,590
17	1,390	1,080	946	1,240	1,560	2,240	6,570	8,340	4,960	1,420	1,770	1,520
18	1,400	1,050	915	1,250	1,580	2,330	8,040	8,840	5,030	1,390	1,770	1,500
19	1,390	1,040	909	1,160	1,600	2,320	8,120	8,570	5,020	1,270	1,550	1,480
20	1,320	1,040	898	1,160	1,670	2,330	7,790	9,170	4,900	1,260	1,440	1,480
21	1,300	1,110	e900	1,220	1,670	2,310	6,630	10,600	4,490	1,260	1,410	1,450
22	1,300	1,130	e892	1,210	1,620	2,210	5,730	11,300	4,400	1,200	1,430	1,650
23	1,360	1,080	e816	1,210	1,660	2,240	5,280	11,500	4,550	1,190	1,310	1,770
24	1,370	1,050	e743	1,210	1,650	2,270	6,040	11,400	4,690	1,260	1,270	1,730
25	1,380	1,020	e791	1,210	1,600	2,290	6,830	11,000	4,290	1,620	1,340	1,650
26	1,410	1,040	e837	1,220	1,590	2,310	6,380	10,300	4,210	1,810	1,360	1,580
27	1,290	1,090	e826	1,220	1,570	2,260	6,190	9,410	4,050	1,840	1,360	1,570
28	1,280	1,060	e900	1,250	1,550	2,250	5,880	8,640	3,450	1,660	1,400	2,390
29	1,460	1,060	1,150	1,240	---	2,290	5,590	7,860	3,350	1,510	1,400	2,630
30	1,520	e1,050	1,370	1,200	---	2,330	5,420	7,220	3,270	1,390	1,320	2,340
31	1,230	---	1,130	1,180	---	2,370	---	6,830	---	1,330	1,230	---
Total	51,990	32,870	29,718	36,981	40,040	58,810	144,370	239,300	141,680	53,750	45,930	49,320
Mean	1,677	1,096	959	1,193	1,430	1,897	4,812	7,719	4,723	1,734	1,482	1,644
Max	2,880	1,210	1,370	1,790	1,670	2,370	8,120	11,500	6,270	2,960	1,830	2,630
Min	1,230	1,020	743	942	1,050	1,360	2,200	4,990	3,270	1,190	1,230	1,220
Ac-ft	103,100	65,200	58,950	73,350	79,420	116,600	286,400	474,700	281,000	106,600	91,100	97,830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,475	1,442	1,338	1,254	1,256	1,448	3,064	7,274	6,812	2,489	1,390	1,388
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)

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SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1897 - 2005	
Annual total	475,579		924,759			
Annual mean	1,299		2,534		2,556	
Highest annual mean					5,187	1984
Lowest annual mean					838	1934
Highest daily mean	3,480	May 11	11,500	May 23	35,200	May 23, 1920
Lowest daily mean	546	Jan 6	743	Dec 24	106	Jul 20, 1934
Annual seven-day minimum	622	Feb 6	829	Dec 21	116	Jul 14, 1934
Maximum peak flow			12,300	May 23	^a 35,700	May 23, 1920
Maximum peak stage			9.72	May 23	14.95	May 23, 1920
Annual runoff (ac-ft)	943,300		1,834,000		1,851,000	
10 percent exceeds	2,180		6,050		5,980	
50 percent exceeds	1,090		1,550		1,360	
90 percent exceeds	686		1,030		706	

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

