

Water-Data Report 2013

**09010500 COLORADO RIVER BELOW BAKER GULCH NEAR GRAND LAKE, CO**

Colorado Headwaters Basin  
Colorado Headwaters Subbasin

LOCATION.--Lat 40°19'33", long 105°51'22" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.12, T.4 N., R.76 W., Grand County, CO, Hydrologic Unit 14010001, on left bank 500 ft downstream from Baker Gulch, which includes Bowen Gulch drainage basin, and 5.5 mi northwest of town of Grand Lake.

DRAINAGE AREA.--63.8 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WDR-US-2011: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry and crest-stage gage. Elevation of gage is 8,750 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion upstream from station by Grand River Ditch. Prior to water year 2006, the gage location was described as being 1.0 mi upstream from Bowen Gulch. However, field inspection during Aug. 2006 found that Bowen Gulch is now a tributary to Baker Gulch.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	e15	e8.5	e7.1	e7.2	e6.9	e8.9	e34	176	106	33	22
2	15	e15	e8.2	e7.2	e7.2	e6.9	e8.7	e30	191	94	31	19
3	15	e14	e8.0	e7.3	e7.2	e6.9	e8.7	e28	246	84	29	18
4	15	e14	e7.6	e7.4	e7.2	e7.0	e8.7	e28	289	87	28	17
5	15	e14	e7.3	e7.4	e7.2	e7.0	e8.7	e33	313	97	29	17
6	15	e13	e7.2	e7.4	e7.2	e7.0	e8.9	39	325	95	29	19
7	14	e14	e7.2	e7.4	e7.2	e7.0	e8.9	49	316	83	28	19
8	15	e14	e7.2	e7.4	e7.3	e7.2	e9.3	57	341	75	27	19
9	14	e13	e7.2	e7.4	e7.4	e7.3	e9.6	70	366	70	29	27
10	14	e13	e7.2	e7.4	e7.2	e7.4	e9.6	83	454	65	26	28
11	14	e12	e7.2	e7.4	e7.1	e7.6	e9.6	111	459	59	25	25
12	15	e12	e7.2	e7.4	e7.1	e7.7	e9.6	156	484	56	26	95
13	21	e13	e7.3	e7.4	e7.1	e7.7	e9.6	200	416	57	29	87
14	22	e12	e7.4	e7.3	e7.2	e7.7	e9.6	244	354	60	32	58
15	20	e12	e7.4	e7.2	e7.1	e7.8	e9.6	289	310	58	25	52
16	21	e11	e7.3	e7.1	e7.1	e7.9	e9.7	300	266	50	21	49
17	30	e11	e7.2	e7.0	e7.1	e7.9	e9.7	335	238	50	19	41
18	20	e11	e7.0	e7.0	e7.1	e8.0	e9.4	343	211	57	21	46
19	20	e11	e7.0	e7.0	e7.2	e8.3	e9.4	265	199	54	21	62
20	18	e11	e7.0	e7.0	e7.2	e8.3	e9.2	225	192	45	19	45
21	18	e10	e7.0	e7.0	e7.2	e8.4	e9.2	184	181	39	18	38
22	18	e10	e7.0	e7.0	e7.2	e8.5	e9.1	170	170	36	18	40
23	e17	e10	e7.1	e7.0	e7.2	e8.5	e8.7	218	156	34	23	67
24	e16	e9.8	e7.2	e7.0	e7.3	e8.5	e8.9	308	146	33	21	58
25	e16	e9.7	e7.2	e7.0	e7.3	e8.4	e9.2	347	136	35	21	56
26	e16	e9.6	e7.0	e7.1	e7.2	e8.3	e11	348	128	33	20	50
27	e16	e9.3	e6.8	e7.2	e7.1	e8.4	e13	348	121	30	18	49
28	e16	e9.0	e6.8	e7.2	e7.0	e8.7	e20	316	116	34	22	49
29	e16	e8.7	e6.8	e7.2	---	e8.9	e35	295	114	36	22	48
30	e15	e8.6	e6.9	e7.3	---	e8.9	e38	237	111	37	20	44
31	e15	---	e7.0	e7.2	---	e8.9	---	195	---	33	19	---
<b>Total</b>	528	349.7	224.4	223.4	201.1	243.9	347.5	5,885	7,525	1,782	749	1,264
<b>Mean</b>	17.0	11.7	7.24	7.21	7.18	7.87	11.6	190	251	57.5	24.2	42.1
<b>Max</b>	30	15	8.5	7.4	7.4	8.9	38	348	484	106	33	95
<b>Min</b>	14	8.6	6.8	7.0	7.0	6.9	8.7	28	111	30	18	17
<b>Ac-ft</b>	1,050	694	445	443	399	484	689	11,670	14,930	3,530	1,490	2,510

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	23.6	15.5	10.4	8.47	7.47	8.27	28.8	170	313	120	33.7	26.2
<b>Max</b>	83.7	37.2	20.2	15.8	11.8	17.1	76.3	329	815	942	104	78.1
<b>(WY)</b>	(1962)	(1962)	(1998)	(2005)	(2005)	(2004)	(2012)	(1996)	(2011)	(2011)	(1983)	(1997)
<b>Min</b>	9.25	6.14	4.33	3.50	3.67	3.90	9.11	65.7	66.9	24.4	11.1	11.8
<b>(WY)</b>	(1957)	(2003)	(2003)	(2003)	(2003)	(2003)	(1991)	(1995)	(2012)	(2002)	(1954)	(1956)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1953 - 2013	
<b>Annual total</b>	11,514.5		19,323.0			
<b>Annual mean</b>	31.5		52.9		64.0	
<b>Highest annual mean</b>					179	2011
<b>Lowest annual mean</b>					26.3	1954
<b>Highest daily mean</b>	158	Apr 27	484	Jun 12	1,770	Jul 9, 2011
<b>Lowest daily mean</b>	6.1	Mar 8	6.8	Dec 27	<sup>a</sup> 3.0	Jan 13, 1963
<b>Annual seven-day minimum</b>	6.7	Mar 8	6.9	Dec 26	3.2	Jan 18, 2003
<b>Maximum peak flow</b>			684	Jun 12	1,870	Jul 9, 2011
<b>Maximum peak stage</b>			7.16	Jun 12	7.76	Jul 9, 2011
<b>Annual runoff (ac-ft)</b>	22,840		38,330		46,350	
<b>10 percent exceeds</b>	102		187		186	
<b>50 percent exceeds</b>	14		15		18	
<b>90 percent exceeds</b>	7.6		7.1		6.8	

<sup>a</sup> Also occurred Feb 16, 2003.

