

Water-Data Report 2013

07083200 HALFMOON CREEK BELOW HALFMOON DIVERSION NEAR LEADVILLE, CO

Upper Arkansas Basin
Arkansas Headwaters Subbasin

LOCATION.--Lat 39°11'08.6", long 106°23'00.1" referenced to North American Datum of 1983, in NW ¼ NW ¼ sec.18, T.10 S., R.80 W., Lake County, CO, Hydrologic Unit 11020001, near San Isabel National Forest boundary, on left bank at Halfmoon Creek Diversion, 2.7 mi upstream from mouth, and 6.7 mi southwest of Leadville City Hall.

DRAINAGE AREA.--24.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2009 to current year (seasonal records only).

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and v-notch weir. Elevation of gage is 9,720 ft above WGS 84, from Global Positioning System technology.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions from the Halfmoon diversion structure at the station. Records represent undiverted flow and diverted return flow measured about 500 ft downstream from the Halfmoon diversion structure.

EXTREMES FOR PERIOD OF RECORD.--(seasonal only) Maximum discharge, 275 ft³/s, July 8, 2011, from rating curve extended above 107 ft³/s on basis of runoff comparison with upstream station, gage height, 4.08 ft; minimum daily, 5.1 ft³/s (estimated), May 1, 2011.

EXTREMES FOR CURRENT YEAR.--(seasonal only) Maximum discharge, 153 ft³/s, June 9, gage height, 3.37 ft; minimum daily, 6.2 ft³/s, May 20 (estimated) and Aug. 17.

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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	---	---	---	---	---	---	---	13	10	8.7	12	8.2
2	---	---	---	---	---	---	---	12	12	8.6	10	8.4
3	---	---	---	---	---	---	---	11	14	8.4	12	13
4	---	---	---	---	---	---	---	11	13	8.2	14	24
5	---	---	---	---	---	---	---	11	30	8.2	12	28
6	---	---	---	---	---	---	---	11	32	8.2	12	22
7	---	---	---	---	---	---	---	12	18	8.1	29	21
8	---	---	---	---	---	---	---	12	35	8.0	22	19
9	---	---	---	---	---	---	---	11	52	7.8	6.6	19
10	---	---	---	---	---	---	---	9.6	57	7.6	6.7	19
11	---	---	---	---	---	---	---	9.0	48	7.5	6.6	21
12	---	---	---	---	---	---	---	12	26	7.7	6.5	19
13	---	---	---	---	---	---	---	25	12	7.9	6.5	43
14	---	---	---	---	---	---	---	e23	13	7.5	6.4	40
15	---	---	---	---	---	---	---	e12	11	7.6	6.4	38
16	---	---	---	---	---	---	---	e17	9.9	7.7	6.3	34
17	---	---	---	---	---	---	---	e17	9.6	7.5	6.2	30
18	---	---	---	---	---	---	---	e8.4	9.4	7.5	6.3	40
19	---	---	---	---	---	---	---	e6.6	9.5	7.5	6.4	51
20	---	---	---	---	---	---	---	e6.2	9.8	7.4	6.7	40
21	---	---	---	---	---	---	---	e6.3	10	7.2	6.5	36
22	---	---	---	---	---	---	---	8.2	9.9	7.1	6.5	40
23	---	---	---	---	---	---	---	10	9.6	7.4	6.4	50
24	---	---	---	---	---	---	---	23	9.3	7.9	6.3	44
25	---	---	---	---	---	---	---	26	9.2	7.9	6.3	40
26	---	---	---	---	---	---	---	16	9.2	7.8	6.4	42
27	---	---	---	---	---	---	---	14	9.3	7.8	7.3	40
28	---	---	---	---	---	---	---	13	9.3	37	7.6	39
29	---	---	---	---	---	---	---	12	9.2	30	7.6	37
30	---	---	---	---	---	---	---	10	9.0	17	7.8	35
31	---	---	---	---	---	---	---	10	---	12	8.1	---
Total	---	---	---	---	---	---	---	398.3	525.2	306.7	277.4	940.6
Mean	---	---	---	---	---	---	---	12.8	17.5	9.89	8.95	31.4
Max	---	---	---	---	---	---	---	26	57	37	29	51
Min	---	---	---	---	---	---	---	6.2	9.0	7.1	6.2	8.2
Ac-ft	---	---	---	---	---	---	---	790	1,040	608	550	1,870

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