Water-Data Report 2012

09025000 VASQUEZ CREEK AT WINTER PARK, CO

Colorado Headwaters Basin
Colorado Headwaters Subbasin

LOCATION.--Lat 39°55′13″, long 105°47′05″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.33, T.1 S., R.75 W., Grand County, CO, Hydrologic Unit 14010001, on right bank 30 ft downstream from bridge on U.S. Highway 40 in Winter Park, 0.2 mi upstream from mouth, 2.5 mi southeast of Fraser, and 4.5 mi downstream from Moffat water tunnel diversion.

DRAINAGE AREA.--27.9 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to August 1907, July to November 1909, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for June to October 1908, published in WSP 269, are unreliable and should not be used. Published as Vasquez River at lower station, near Fraser 1907-09, as "near West Portal" 1934-39, and as "near Winter Park" 1940-87. Records for May 26, 1937 to September 1959, equivalent to earlier records if diversion to Moffat water tunnel is added to flow past station.

REVISED RECORDS.--See PERIOD OF RECORD. WDR-US-2011: Drainage area.

GAGE.--Water-stage recorder with satellite telemetry, crest-stage gage, and concrete control. Datum of gage is 8,768.48 ft above NGVD of 1929. June 1, 1907 to Oct. 31, 1909, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversions upstream from station to Moffat water tunnel not known since 1959.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 09025000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/09025000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.6	e6.3	e7.6	e6.7	e6.4	e6.4	10	10	9.8	6.7	8.5	7.6
2	4.2	e7.4	e7.5	e6.9	e6.4	e6.3	7.6	10	9.9	6.4	8.3	7.4
3	4.5	e10	e7.6	e6.9	e6.3	e6.3	6.7	10	9.6	6.3	8.1	7.6
4	4.4	e8.5	e7.6	e7.0	e6.4	e6.3	6.8	9.1	8.8	6.2	8.0	7.5
5	4.4	e7.5	e7.3	e7.0	e6.5	e6.2	7.1	8.3	10	6.4	7.9	7.4
6	4.8	e7.4	e7.1	e7.1	e6.4	e6.3	8.1	11	10	6.9	8.0	7.3
7	4.2	e9.0	e7.0	e7.1	e6.3	e6.2	10	12	10	8.2	8.1	7.4
8	4.6	e5.0	e7.3	e7.1	e6.3	e6.2	10	12	8.6	8.6	8.0	7.2
9	4.4	e8.0	e7.3	e7.1	e6.3	e6.2	9.8	11	9.9	7.7	7.9	7.2
10	4.6	e10	e7.1	e7.1	e6.3	e6.1	10	10	9.6	8.3	8.2	7.1
11	5.2	e11	e7.0	e7.0	e6.3	e6.1	10	8.2	8.0	8.9	8.4	7.3
12	5.5	e7.7	e6.9	e7.1	e6.2	e6.3	10	5.8	9.0	8.8	8.1	8.5
13	4.8	e6.5	e7.1	e7.0	e6.2	e6.3	10	5.5	7.5	8.6	7.2	7.8
14	4.5	e6.0	e7.0	e7.1	e6.2	e6.5	10	5.3	7.4	8.5	5.9	7.4
15	4.4	e5.7	e6.9	e7.0	e6.2	e6.6	10	5.0	5.2	8.3	5.7	7.4
16	4.5	e5.7	e6.8	e7.0	e6.2	e6.7	9.9	7.0	6.7	8.7	5.7	6.1
17	5.4	e5.6	e6.8	e6.9	e6.3	e6.8	9.1	8.7	6.5	8.3	5.5	3.3
18	4.7	e6.1	e6.7	e7.0	e6.3	e6.7	5.7	10	6.3	8.1	5.5	3.2
19	4.4	e5.9	e6.7	e7.0	e6.3	e6.6	7.0	10	6.4	8.2	5.4	3.2
20	4.3	e6.1	e6.6	e6.8	e6.3	e6.7	8.1	9.9	6.6	8.0	5.4	3.1
21	4.1	e6.2	e6.6	e6.7	e6.3	e6.7	8.8	9.4	6.4	7.8	5.5	3.2
22	4.1	e6.2	e6.5	e6.8	e6.3	e6.9	9.2	9.7	6.3	9.9	5.7	3.1
23	4.2	e6.0	e6.6	e6.6	e6.5	e7.2	9.2	9.7	6.3	9.2	6.4	3.1
24	4.2	e6.5	e6.4	e6.5	e6.4	e7.4	8.4	12	6.3	9.4	6.5	3.6
25	4.5	e6.2	e6.4	e6.4	e6.3	e7.6	7.8	11	6.3	10	6.9	4.6
26	5.0	e6.8	e6.5	e6.4	e6.3	e8.1	9.4	11	6.4	8.3	6.8	5.5
27	4.8	e8.4	e6.5	e6.4	e6.4	e7.9	11	10	6.2	8.5	6.9	4.6
28	e11	e8.2	e6.4	e6.5	e6.5	e8.0	11	10	6.1	8.6	7.2	4.5
29	e9.2	e7.9	e6.4	e6.3	e6.5	e8.2	9.8	8.3	6.5	11	7.4	4.3
30	e7.9	e7.7	e6.4	e6.4	---	9.6	10	8.2	6.7	10	7.8	4.2
31	e7.0	---	e6.6	e6.4	---	9.9	---	9.4	---	8.7	7.7	---
Total	158.4	215.5	213.2	211.3	183.6	215.3	270.5	287.5	229.3	257.5	218.6	171.7
Mean	5.11	7.18	6.88	6.82	6.33	6.95	9.02	9.27	7.64	8.31	7.05	5.72
Max	11	11	7.6	7.1	6.5	9.9	11	12	10	11	8.5	8.5
Min	4.1	5.0	6.4	6.3	6.2	6.1	5.7	5.0	5.2	6.2	5.4	3.1
Ac-ft	314	427	423	419	364	427	537	570	455	511	434	341

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.98	6.47	5.59	5.07	4.80	5.02	7.75	25.7	69.1	25.8	9.15	7.00
Max	35.1	21.9	13.4	10.0	9.99	9.14	19.8	119	234	185	41.2	27.0
(WY)	(1962)	(1962)	(1962)	(1958)	(1958)	(1995)	(1943)	(1958)	(1942)	(2011)	(1936)	(1995)
Min	0.66	1.84	1.30	1.28	0.80	1.02	2.41	2.81	0.14	0.34	0.39	0.20
(WY)	(1965)	(1963)	(1965)	(1965)	(1960)	(1965)	(1965)	(1954)	(1940)	(1956)	(1960)	(1944)

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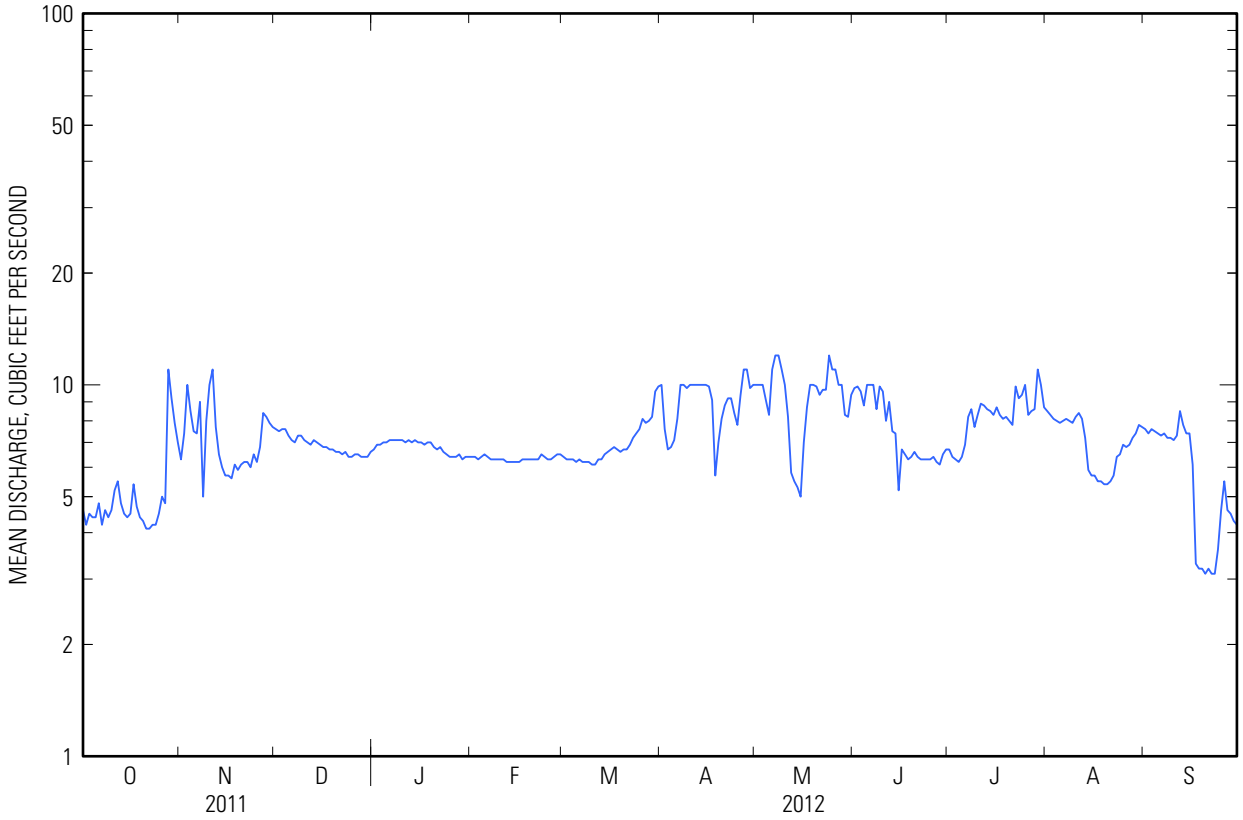
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1934 - 2012	
Annual total	12,648.8		2,632.4			
Annual mean	[a]34.7		[a]7.19		[a]14.8	
Highest annual mean					39.6	1936
Lowest annual mean					2.30	1963
Highest daily mean	311	Jun 30	12	May 7	417	Jun 25, 1983
Lowest daily mean	2.9	May 4	3.1	Sep 20	[b]0.00	Sep 9, 1944
Annual seven-day minimum	3.4	Sep 20	3.2	Sep 17	0.00	Sep 9, 1944
Maximum peak flow			24	Apr 17	[c]526	Jun 27, 1983
Maximum peak stage			[d]1.77	Apr 17	4.14	Jun 27, 1983
Annual runoff (ac-ft)	[a]25,090		[a]5,220		[a]10,700	
10 percent exceeds	140		10		22	
50 percent exceeds	6.6		6.9		6.2	
90 percent exceeds	4.6		4.9		1.7	

[a] Significantly affected by upstream diversions into the Moffat water tunnel.
[b] Also no flow at times in 1946, 1956, 1960, and 1966.
[c] From rating curve extended above 286 ft³/s.
[d] Maximum gage height, 1.98 ft, Oct 29, backwater from ice.