

## 09025000 VASQUEZ CREEK AT WINTER PARK, CO

LOCATION.--Lat 39°55'13", long 105°47'05", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec.33. T.1 S., R.75 W., Grand County, Hydrologic Unit 14010001, on right bank 30 ft downstream from bridge on U.S. Highway 40, 0.2 mi upstream from mouth, 2.5 mi southeast of Fraser, and 4.5 mi downstream from Moffat water tunnel diversion.

DRAINAGE AREA.--27.8 mi<sup>2</sup>.

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. For a complete listing of historical data available for this site, see [http://waterdata.usgs.gov/co/nwis/inventory/?site\\_no=09025000](http://waterdata.usgs.gov/co/nwis/inventory/?site_no=09025000)

REVISED RECORDS.--See PERIOD OF RECORD.

GAGE.--Water-stage recorder 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.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	6.5	e6.4	e6.3	e6.1	6.9	7.0	6.5	4.8	7.2	9.3	8.8
2	7.6	6.8	e6.4	e6.3	e6.1	e6.5	7.2	5.8	4.4	5.1	9.3	8.6
3	6.9	6.9	e6.4	e6.3	e6.2	6.3	7.2	6.2	4.7	4.8	9.3	8.8
4	6.9	6.8	e6.5	e6.3	e6.3	6.0	7.3	7.0	4.8	4.8	9.3	9.3
5	6.9	9.2	e6.4	e6.3	e6.4	6.1	7.4	7.2	4.8	5.0	9.4	9.6
6	6.5	8.7	e6.4	e6.3	e6.4	6.1	7.6	7.2	4.8	5.2	9.3	9.3
7	6.4	8.3	e6.4	e6.3	e6.4	6.1	7.6	7.1	4.6	5.1	9.3	9.2
8	6.1	8.0	e6.4	e6.3	e6.5	5.8	7.5	7.2	3.7	5.4	9.3	9.3
9	6.1	7.1	e6.3	e6.3	e6.5	6.1	7.6	7.2	4.1	5.4	9.3	9.1
10	6.1	6.7	e6.3	e6.3	e6.5	6.0	7.3	7.2	4.1	5.5	9.0	8.8
11	6.5	7.0	e6.3	e6.3	e6.5	7.3	7.3	7.2	3.8	5.4	8.8	8.8
12	6.2	6.8	e6.3	e6.3	e6.5	7.6	7.3	7.6	3.6	5.4	8.8	8.8
13	6.1	7.2	e6.3	e6.3	e6.5	7.1	7.2	7.6	3.8	5.4	9.1	8.8
14	5.9	6.6	e6.3	e6.3	e6.5	7.8	7.2	6.6	3.7	5.5	9.3	8.8
15	5.8	6.5	e6.3	e6.3	e6.5	6.3	7.2	7.0	3.5	6.1	9.0	8.7
16	5.9	e6.5	e6.3	e6.3	e6.5	7.2	7.4	6.7	3.2	6.1	8.8	4.4
17	6.5	e6.5	e6.3	e6.3	e6.6	5.9	7.6	6.3	3.7	6.2	8.9	3.5
18	6.0	e6.6	e6.3	e6.3	e6.6	6.4	7.6	5.0	4.1	5.8	9.0	3.5
19	6.1	e6.6	e6.3	e6.3	e6.6	7.0	7.6	5.2	4.5	5.6	9.3	3.6
20	6.2	e6.6	e6.3	e6.3	e6.6	7.1	7.5	5.3	4.5	6.1	9.0	4.3
21	6.0	e6.6	e6.3	e6.3	e6.7	7.1	7.5	5.1	5.1	5.9	8.8	4.2
22	6.1	e6.6	e6.3	e6.3	e6.7	7.3	7.3	5.1	5.3	5.4	8.8	4.3
23	6.1	e6.6	e6.3	e6.3	e6.7	7.3	7.2	5.0	4.9	6.0	8.8	4.4
24	6.5	e6.6	e6.3	e6.3	e6.7	7.3	7.2	4.8	4.4	9.9	8.8	3.8
25	6.8	e6.6	e6.3	e6.3	7.1	7.3	7.6	4.5	4.0	9.5	8.8	3.6
26	8.4	e6.5	e6.3	e6.3	6.6	7.4	7.7	4.5	4.3	9.4	8.8	3.8
27	7.5	e6.5	e6.3	e6.2	6.5	7.3	7.8	4.2	5.1	9.3	8.8	3.9
28	6.9	e6.5	e6.3	e6.2	6.9	7.3	8.1	4.1	5.3	9.3	8.8	4.1
29	6.8	e6.5	e6.3	e6.2	7.3	8.2	8.4	4.2	5.1	9.3	8.8	4.3
30	6.6	e6.4	e6.3	e6.2	---	7.7	8.3	4.7	6.4	9.3	8.6	4.9
31	6.5	---	e6.3	e6.0	---	7.1	---	4.8	---	9.3	8.6	---
TOTAL	212.9	207.3	196.2	194.6	190.0	212.9	224.7	184.1	133.1	203.7	279.2	195.3
MEAN	6.87	6.91	6.33	6.28	6.55	6.87	7.49	5.94	4.44	6.57	9.01	6.51
MAX	18	9.2	6.5	6.3	7.3	8.2	8.4	7.6	6.4	9.9	9.4	9.6
MIN	5.8	6.4	6.3	6.0	6.1	5.8	7.0	4.1	3.2	4.8	8.6	3.5
AC-FT	422	411	389	386	377	422	446	365	264	404	554	387

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

	6.10	6.65	5.62	5.01	4.69	4.82	7.63	26.4	65.4	22.2	8.24	6.88
MEAN	6.10	6.65	5.62	5.01	4.69	4.82	7.63	26.4	65.4	22.2	8.24	6.88
MAX	35.1	21.9	13.4	10.0	9.99	9.14	19.8	119	234	177	41.2	27.0
(WY)	(1962)	(1962)	(1962)	(1958)	(1958)	(1995)	(1943)	(1958)	(1942)	(1983)	(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)

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	5,078.7		2,434.0			
ANNUAL MEAN	a13.9		a6.65		a14.1	
HIGHEST ANNUAL MEAN					39.6	
LOWEST ANNUAL MEAN					2.30	
HIGHEST DAILY MEAN	122	Jun 21	18	Oct 1	417	Jun 25, 1983
LOWEST DAILY MEAN	3.2	Apr 8	3.2	Jun 16	b0.00	Sep 9, 1944
ANNUAL SEVEN-DAY MINIMUM	3.6	Mar 9	3.6	Jun 11	0.00	Sep 9, 1944
MAXIMUM PEAK FLOW			21		c526	
MAXIMUM PEAK STAGE			1.80		4.14	
ANNUAL RUNOFF (AC-FT)	a10,070		a4,830		a10,220	
10 PERCENT EXCEEDS	27		8.8		21	
50 PERCENT EXCEEDS	6.6		6.5		6.0	
90 PERCENT EXCEEDS	3.8		4.6		1.6	

e Estimated.

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 ft<sup>3</sup>/s.