

Water-Data Report 2012

08254000 COSTILLA CREEK BELOW COSTILLA DAM, NM

Upper Rio Grande Basin
Upper Rio Grande Subbasin

LOCATION.--Lat 36°52'22.1", long 105°17'01.2" referenced to North American Datum of 1983, Taos County, NM, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on right bank approximately 1,000 ft downstream from Costilla Dam, 16 mi southeast of Costilla, and at mile 34.5.

DRAINAGE AREA.--54.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1937 to current year (seasonal records 1937-44, 1947-49, 1988-02). Monthly discharge only for some periods, published in WSP 1312. Prior to October 1951, published as "below reservoir near Costilla."

REVISED RECORDS.--WSP 1923: drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 7, 1989, at site 500 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Costilla Reservoir (station 08253900). Diversions for irrigation of about 1,300 acres upstream from reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 301 ft³/s, June 19, 1979, gage height, 3.04 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during periods of seasonal operation, 68 ft³/s, May 27, gage height, 2.20 ft; minimum daily discharge, 0.19 ft³/s, Apr. 18 to May 4.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.7	---	---	---	---	---	---	0.19	52	39	24	2.2
2	1.8	---	---	---	---	---	---	0.19	45	43	22	3.2
3	1.8	---	---	---	---	---	---	0.19	49	42	17	3.5
4	---	---	---	---	---	---	---	0.19	54	39	17	3.6
5	---	---	---	---	---	---	---	0.22	54	36	16	3.7
6	---	---	---	---	---	---	---	0.22	52	31	15	3.9
7	---	---	---	---	---	---	---	0.23	48	27	17	3.6
8	---	---	---	---	---	---	---	0.22	38	26	18	3.4
9	---	---	---	---	---	---	---	0.22	33	25	18	3.2
10	---	---	---	---	---	---	---	0.22	34	25	16	3.1
11	---	---	---	---	---	---	---	0.97	42	25	13	3.1
12	---	---	---	---	---	---	---	1.6	49	23	15	3.2
13	---	---	---	---	---	---	---	1.6	49	23	16	5.1
14	---	---	---	---	---	---	---	1.7	43	25	16	5.1
15	---	---	---	---	---	---	---	21	39	28	16	3.6
16	---	---	---	---	---	---	---	42	39	32	15	3.5
17	---	---	---	---	---	---	---	42	37	33	12	3.5
18	---	---	---	---	---	---	0.19	42	33	31	9.4	3.0
19	---	---	---	---	---	---	0.19	42	30	26	14	2.7
20	---	---	---	---	---	---	0.19	50	28	20	22	2.9
21	---	---	---	---	---	---	0.19	60	27	16	23	2.7
22	---	---	---	---	---	---	0.19	58	21	18	22	2.5
23	---	---	---	---	---	---	0.19	56	16	21	20	2.5
24	---	---	---	---	---	---	0.19	54	26	22	19	2.5
25	---	---	---	---	---	---	0.19	51	40	22	19	3.1
26	---	---	---	---	---	---	0.19	49	41	21	19	3.5
27	---	---	---	---	---	---	0.19	58	39	19	20	3.1
28	---	---	---	---	---	---	0.19	66	36	18	21	2.8
29	---	---	---	---	---	---	0.19	66	36	18	20	2.7
30	---	---	---	---	---	---	0.19	66	36	20	11	1.4
31	---	---	---	---	---	---	---	63	---	22	1.2	---
Total	---	---	---	---	---	---	---	893.96	1,166	816	523.6	95.9
Mean	---	---	---	---	---	---	---	28.8	38.9	26.3	16.9	3.20
Max	---	---	---	---	---	---	---	66	54	43	24	5.1
Min	---	---	---	---	---	---	---	0.19	16	16	1.2	1.4
Ac-ft	---	---	---	---	---	---	---	1,770	2,310	1,620	1,040	190

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