



Water-Data Report 2007

08254000 COSTILLA CREEK BELOW COSTILLA DAM, NM

Upper Rio Grande Basin
Upper Rio Grande Subbasin

LOCATION.--Lat 36°52'23", long 105°17'02" 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. 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, 108 ft³/s, July 15, 16, 17; minimum daily, 0.64 ft³/s, many days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.5	---	---	---	---	---	0.64	0.66	22	70	71	89
2	1.6	---	---	---	---	---	0.64	0.70	22	100	71	94
3	1.6	---	---	---	---	---	0.64	0.64	32	103	71	103
4	e1.6	---	---	---	---	---	0.64	0.64	47	104	70	98
5	---	---	---	---	---	---	0.64	0.64	49	104	71	94
6	---	---	---	---	---	---	0.64	0.65	50	103	67	94
7	---	---	---	---	---	---	0.65	0.64	50	103	65	95
8	---	---	---	---	---	---	0.67	0.68	55	104	65	95
9	---	---	---	---	---	---	0.70	0.99	58	98	65	88
10	---	---	---	---	---	---	0.66	1.5	58	93	64	75
11	---	---	---	---	---	---	0.64	1.5	60	92	64	69
12	---	---	---	---	---	---	0.65	1.5	62	92	62	67
13	---	---	---	---	---	---	0.65	1.5	58	92	55	67
14	---	---	---	---	---	---	0.67	1.6	53	92	53	67
15	---	---	---	---	---	---	0.67	1.6	52	97	52	68
16	---	---	---	---	---	---	0.64	1.6	52	106	49	72
17	---	---	---	---	---	---	0.64	1.6	48	104	49	74
18	---	---	---	---	---	---	0.64	1.6	38	103	49	72
19	---	---	---	---	---	---	0.64	1.6	38	102	57	66
20	---	---	---	---	---	---	0.64	1.6	39	96	63	62
21	---	---	---	---	---	---	0.64	1.6	41	93	59	62
22	---	---	---	---	---	---	0.64	1.6	46	92	57	61
23	---	---	---	---	---	---	0.64	1.6	51	82	57	50
24	---	---	---	---	---	---	0.64	1.6	53	78	57	30
25	---	---	---	---	---	---	0.64	1.6	50	78	57	23
26	---	---	---	---	---	---	0.64	1.6	56	79	71	23
27	---	---	---	---	---	e0.64	0.64	1.6	58	79	88	24
28	---	---	---	---	---	0.64	0.64	1.7	59	78	87	24
29	---	---	---	---	---	0.64	0.64	1.7	61	75	87	24
30	---	---	---	---	---	0.64	0.64	1.7	60	71	88	9.8
31	---	---	---	---	---	0.64	---	13	---	70	89	---
Total	---	---	---	---	---	---	19.40	52.74	1,478	2,833	2,030	1,939.8
Mean	---	---	---	---	---	---	0.65	1.70	49.3	91.4	65.5	64.7
Max	---	---	---	---	---	---	0.70	13	62	106	89	103
Min	---	---	---	---	---	---	0.64	0.64	22	70	49	9.8
Ac-ft	---	---	---	---	---	---	38	105	2,930	5,620	4,030	3,850

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