

Water-Data Report 2007

**08252500 COSTILLA CREEK ABOVE COSTILLA DAM, NM**

Upper Rio Grande Basin  
Upper Rio Grande Subbasin

LOCATION.--Lat 36°53'54", long 105°15'16" referenced to North American Datum of 1983, Taos County, NM, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on left bank 1,900 ft upstream from normal high-water line of Costilla Reservoir, 2.1 mi northeast of Costilla Dam, 16 mi southeast of Costilla, and at mile 36.9.

DRAINAGE AREA.--25.1 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1937 to current year (seasonal records). Monthly discharge only for some periods, published in WSP 1312 and 1732. Prior to October 1951, published as "above reservoir, near Costilla."

REVISED RECORDS.--WSP 878: 1937. WSP 1923: 1937-50, drainage area.

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Sept. 17, 1965. Elevation of gage is 9,454 ft above NGVD of 1929, from topographic map. See WSP 1923 for history of changes prior to Sept. 17, 1965.

REMARKS.--Records fair except for those estimated, which are poor. Natural flow may be augmented by transbasin diversions or irrigation returns from about 1,300 acres irrigated from Casias Creek (station 08253000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft<sup>3</sup>/s, July 22, 1954, gage height, about 4.8 ft, from floodmarks, site and datum then in use, on basis of slope-area measurement of peak flow; minimum not determined. The flood in 1954 destroyed the gaging station and is highest since about 1909, from information by local range rider. A portion of this flow may have originated in Casias Creek Basin (see REMARKS).

EXTREMES FOR CURRENT YEAR.--Maximum discharge during periods of seasonal operation, 76 ft<sup>3</sup>/s, May 17, gage height, 3.06 ft; minimum daily discharge, 3.4 ft<sup>3</sup>/s, Sept. 27.

## 08252500 COSTILLA CREEK ABOVE COSTILLA DAM, NM—Continued

**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	4.3	---	---	---	---	---	---	e32	35	9.8	7.9	7.4
2	4.1	---	---	---	---	---	---	41	35	9.4	8.0	6.8
3	4.1	---	---	---	---	---	---	38	37	8.9	13	6.7
4	e4.1	---	---	---	---	---	---	37	34	8.8	15	6.1
5	---	---	---	---	---	---	---	37	32	9.8	13	5.8
6	---	---	---	---	---	---	---	32	30	7.9	9.7	6.0
7	---	---	---	---	---	---	---	32	27	7.6	27	5.2
8	---	---	---	---	---	---	---	29	24	7.4	25	4.8
9	---	---	---	---	---	---	---	34	22	7.4	17	4.7
10	---	---	---	---	---	---	---	31	22	7.5	15	6.9
11	---	---	---	---	---	---	---	32	23	7.2	14	5.0
12	---	---	---	---	---	---	---	35	28	7.4	13	5.0
13	---	---	---	---	---	---	---	41	35	12	11	4.4
14	---	---	---	---	---	---	---	48	27	8.8	11	4.0
15	---	---	---	---	---	---	---	49	23	7.5	11	3.8
16	---	---	---	---	---	---	---	48	22	6.9	13	3.6
17	---	---	---	---	---	---	---	52	21	6.6	14	4.3
18	---	---	---	---	---	---	---	60	20	5.9	11	5.2
19	---	---	---	---	---	---	---	57	18	8.2	9.7	3.8
20	---	---	---	---	---	---	---	57	17	13	8.6	4.9
21	---	---	---	---	---	---	---	58	17	10	8.0	5.4
22	---	---	---	---	---	---	---	53	16	7.9	7.9	3.9
23	---	---	---	---	---	---	---	49	15	6.5	6.9	4.1
24	---	---	---	---	---	---	---	49	14	9.0	7.0	5.2
25	---	---	---	---	---	---	---	43	13	6.5	6.3	3.8
26	---	---	---	---	---	---	---	39	12	10	6.3	3.5
27	---	---	---	---	---	---	---	40	12	8.6	6.5	3.4
28	---	---	---	---	---	---	---	41	12	7.0	5.9	3.8
29	---	---	---	---	---	---	---	42	12	8.7	8.1	5.3
30	---	---	---	---	---	---	---	40	10	9.0	8.5	4.3
31	---	---	---	---	---	---	---	36	---	9.7	7.6	---
<b>Total</b>	---	---	---	---	---	---	---	1,312	665	260.9	345.9	147.1
<b>Mean</b>	---	---	---	---	---	---	---	42.3	22.2	8.42	11.2	4.90
<b>Max</b>	---	---	---	---	---	---	---	60	37	13	27	7.4
<b>Min</b>	---	---	---	---	---	---	---	29	10	5.9	5.9	3.4
<b>Ac-ft</b>	---	---	---	---	---	---	---	2,600	1,320	517	686	292

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