

Water-Data Report 2007

08253000 CASIAS CREEK NEAR COSTILLA, NM

Upper Rio Grande Basin
Upper Rio Grande Subbasin

LOCATION.--Lat 36°53'49", long 105°15'37" referenced to North American Datum of 1983, Taos County, NM, Hydrologic Unit 13020101, in Sangre de Cristo Grant, on left bank 200 ft downstream from road crossing, 900 ft upstream from normal high-water line of Costilla Reservoir, 1.8 mi northeast of Costilla Dam, and 16 mi southeast of Costilla.

DRAINAGE AREA.--16.6 mi².

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. Records for November 1-7, 1947, and November 1-16, 1948, published in WSP 1118 and 1148, are unreliable and should not be used.

REVISED RECORDS.--WSP 1282: 1948-51. WSP 1923: drainage area.

GAGE.--Water-stage recorder with satellite telemetry and concrete control. Elevation of gage is 9,437 ft above NGVD of 1929, from topographic map. Prior to July 18, 1940, water-stage recorder and wooden control 100 ft downstream at datum 1.56 ft lower. Prior to March 25, 1999, water-stage recorder and concrete control 140 ft downstream at same gage datum.

REMARKS.--Records good except for those estimated, which are fair. Diversion 3.5 mi upstream for irrigation of about 1,300 acres, part of which is in Costilla Creek Basin. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s, July 20, 1971, gage height, 2.07 ft, from rating curve extended above 85 ft³/s; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during periods of seasonal operation, 67 ft³/s, June 13, gage height, 3.91 ft; minimum daily discharge, 5.6 ft³/s, Sept. 16.

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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	7.0	---	---	---	---	---	---	e18	44	28	14	8.3
2	7.0	---	---	---	---	---	---	22	45	27	14	7.8
3	7.0	---	---	---	---	---	---	20	47	26	14	8.1
4	e7.0	---	---	---	---	---	---	21	48	26	17	7.7
5	---	---	---	---	---	---	---	22	51	26	15	7.3
6	---	---	---	---	---	---	---	20	50	23	13	7.2
7	---	---	---	---	---	---	---	21	48	23	19	6.8
8	---	---	---	---	---	---	---	20	45	23	15	6.6
9	---	---	---	---	---	---	---	22	44	22	13	6.6
10	---	---	---	---	---	---	---	19	43	23	13	9.5
11	---	---	---	---	---	---	---	19	44	21	12	7.0
12	---	---	---	---	---	---	---	21	46	20	12	6.9
13	---	---	---	---	---	---	---	25	56	25	12	6.4
14	---	---	---	---	---	---	---	33	46	20	12	5.9
15	---	---	---	---	---	---	---	38	44	18	12	5.7
16	---	---	---	---	---	---	---	40	43	17	13	5.6
17	---	---	---	---	---	---	---	44	43	17	17	6.2
18	---	---	---	---	---	---	---	43	44	16	13	6.6
19	---	---	---	---	---	---	---	44	43	16	11	5.7
20	---	---	---	---	---	---	---	44	42	22	9.8	7.6
21	---	---	---	---	---	---	---	45	41	19	9.6	7.2
22	---	---	---	---	---	---	---	46	40	17	9.5	6.1
23	---	---	---	---	---	---	---	45	38	16	8.9	7.3
24	---	---	---	---	---	---	---	43	36	17	8.8	7.6
25	---	---	---	---	---	---	---	42	34	15	8.3	6.5
26	---	---	---	---	---	---	---	39	34	18	8.5	6.3
27	---	---	---	---	---	---	---	40	34	16	8.3	6.2
28	---	---	---	---	---	---	---	43	33	15	7.9	6.7
29	---	---	---	---	---	---	---	44	31	17	11	7.5
30	---	---	---	---	---	---	---	44	29	16	9.3	6.7
31	---	---	---	---	---	---	---	43	---	15	9.2	---
Total	---	---	---	---	---	---	---	1,030	1,266	620	370.1	207.6
Mean	---	---	---	---	---	---	---	33.2	42.2	20.0	11.9	6.92
Max	---	---	---	---	---	---	---	46	56	28	19	9.5
Min	---	---	---	---	---	---	---	18	29	15	7.9	5.6
Ac-ft	---	---	---	---	---	---	---	2,040	2,510	1,230	734	412

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