

Water-Data Report 2009

08249000 CONEJOS RIVER NEAR LASAUSES, CO

Rio Grande Headwaters Basin
Conejos Subbasin

LOCATION.--Lat 37°18'01", long 105°44'47" referenced to North American Datum of 1927, two channels, in SW ¼ SW ¼ sec.2, and in SW ¼ NE ¼ sec. 10, T.35 N., R.11 E., Conejos County, CO, Hydrologic Unit 13010005, on left bank of main channel 125 ft downstream from bridge on State Highway 158, 2.1 mi north of Lasauses, and on left bank of secondary channel 1,550 ft upstream from bridge on State Highway 158, 1.5 mi north of Lasauses, and both sites are about 1.0 mi upstream from mouth and 13 mi southeast of Alamosa.

DRAINAGE AREA.--887 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1921 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1, 1966, published as "at mouth, near La Sauses" or "near La Sauses."

REVISED RECORDS.--WSP 1312: 1932 (monthly discharge and runoff), 1934 (M).

GAGE.--Two water-stage recorders with satellite telemetry. Datum of gage on main (north) channel is 7,495.02 ft above NGVD of 1929, and on secondary (south) channel is 7,499.86 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Main channel: Apr. 11 to Sept. 30, 1937, at datum 1.00 ft higher. See WSP 1312 and 1732 for history of changes prior to Apr. 11, 1937. South channel: May 4, 1936, to Oct. 13, 1965, at site 1,600 ft downstream at datum 3.96 ft lower. Oct. 14, 1965 to Dec. 12, 2007, at site 1,320 ft downstream at datum 2.97 ft lower. See WSP 1312 and 1732 for history of changes prior to May 4, 1936.

COOPERATION.--Records collected and computed by Colorado Division of Water Resources and reviewed by Geological Survey.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, ground-water withdrawals, and return flows from irrigated areas. Flows regulated to some extent by Platoro Reservoir (station 08244500) about 83 mi upstream since Nov. 7, 1951.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 5, 1911, is the greatest since at least 1854, from information obtained from local residents in 1959.

08249000 CONEJOS RIVER NEAR LASAUSES, CO—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.8	17	54	e63	73	110	172	984	272	416	17	0.11
2	0.99	17	59	e70	73	116	175	1,020	268	316	14	0.01
3	2.6	16	63	e72	73	120	151	1,070	252	235	12	0.00
4	0.34	15	63	e72	73	129	160	912	312	162	19	0.00
5	0.93	15	53	e74	74	135	157	857	494	141	19	0.00
6	0.61	15	52	e72	76	136	145	1,000	593	126	15	0.00
7	0.07	15	54	e72	81	139	143	1,110	609	102	6.6	0.00
8	0.51	16	66	e74	87	126	157	1,270	494	66	4.8	0.00
9	1.0	16	e61	76	84	109	199	1,470	351	39	3.6	0.00
10	0.68	17	e56	78	89	118	243	1,560	251	13	4.0	0.00
11	0.30	17	e51	75	79	115	267	1,550	279	8.5	4.6	0.00
12	0.35	18	e46	77	75	104	344	1,410	225	6.6	2.2	0.00
13	14	18	60	75	79	114	306	1,300	179	18	1.6	0.00
14	31	20	e61	74	77	122	276	1,260	169	20	3.5	0.00
15	31	30	e56	72	78	115	258	1,160	201	23	4.1	0.00
16	21	37	e51	73	77	120	257	1,090	214	19	2.7	0.00
17	14	40	53	71	81	124	233	988	212	20	2.7	0.00
18	12	41	56	70	78	139	231	867	200	26	6.9	0.00
19	12	41	e54	72	75	168	185	838	203	31	7.4	0.00
20	12	43	e54	71	74	208	170	900	191	24	7.9	0.00
21	14	46	e51	69	74	257	196	816	204	18	7.6	0.00
22	17	49	e51	72	77	294	350	974	202	18	7.4	0.00
23	15	50	e47	74	89	327	541	1,010	200	48	7.2	0.00
24	11	45	e47	77	99	336	670	874	224	41	7.5	0.00
25	12	41	e49	83	103	270	812	852	269	31	9.0	0.00
26	12	41	e49	85	114	256	965	778	500	27	9.4	0.00
27	14	51	e46	e86	113	240	882	697	849	25	7.9	0.00
28	16	60	e48	e85	110	230	790	560	922	27	7.8	0.00
29	18	59	e51	e80	---	214	798	414	832	25	5.9	0.00
30	18	55	e53	e74	---	199	863	312	660	21	0.93	0.00
31	17	---	e54	73	---	179	---	285	---	25	0.34	---
Total	325.18	961	1,669	2,311	2,335	5,369	11,096	30,188	10,831	2,118.1	229.57	0.12
Mean	10.5	32.0	53.8	74.5	83.4	173	370	974	361	68.3	7.41	0.00
Max	31	60	66	86	114	336	965	1,560	922	416	19	0.11
Min	0.07	15	46	63	73	104	143	285	169	6.6	0.34	0.00
Ac-ft	645	1,910	3,310	4,580	4,630	10,650	22,010	59,880	21,480	4,200	455	0.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	47.6	79.8	58.2	61.1	77.1	108	244	685	533	138	48.5	37.2
Max	307	424	140	146	186	295	1,177	2,642	1,850	1,132	413	425
(WY)	(1942)	(1976)	(1986)	(1986)	(1983)	(2007)	(1924)	(1924)	(1935)	(1957)	(1952)	(1927)
Min	0.00	0.00	7.73	24.0	21.8	7.66	1.47	0.26	0.00	0.00	0.00	0.00
(WY)	(2003)	(2004)	(2004)	(1964)	(2003)	(2003)	(2002)	(2002)	(2002)	(2002)	(1934)	(1976)

08249000 CONEJOS RIVER NEAR LASAUSES, CO—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1921 - 2009	
Annual total	89,222.81		67,432.97			
Annual mean	244		185		176	
Highest annual mean					451	1941
Lowest annual mean					8.06	2003
Highest daily mean	1,690	May 23	1,560	May 10	3,820	May 15, 1941
Lowest daily mean	0.07	Oct 7	0.00	Sep 3	^a 0.00	Jun 27, 1934
Annual seven-day minimum	0.50	Oct 6	0.00	Sep 3	^b 0.00	Jul 21, 1934
Maximum peak flow			Not determined		^c 3,890	May 15, 1941
Annual runoff (ac-ft)	177,000		133,800		127,700	
10 percent exceeds	733		681		489	
50 percent exceeds	69		71		56	
90 percent exceeds	12		0.57		1.0	

^a Also occurred Jun 28 to Jul 1, Jul 3, and Jul 21 to Sep 8, and many days during many years.

^b Also occurred during many years.

^c Gage height not determined.

