



Water-Data Report 2007

08324000 JEMEZ RIVER NEAR JEMEZ, NM

Rio Grande-Elephant Butte Basin
Jemez Subbasin

LOCATION.--Lat 35°39'43.14", long 106°44'36.38" referenced to North American Datum of 1983, Sandoval County, NM, Hydrologic Unit 13020202, in Canon de San Diego Grant, on left bank 0.7 mi downstream from Rio Guadalupe, 3.5 mi north of Jemez, and at mile 29.5.

DRAINAGE AREA.--470 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1936 to May 1941, August 1949 to October 1950, May 1951 to September 1952 (irrigation seasons only), March 1953 to current year. Monthly discharge only for some periods, published in WSP 1732. Published as "Jemez Creek near Jemez," 1936-41.

REVISED RECORDS.--WSP 1712: drainage area. WSP 1923, 1957-58.

GAGE.--Water-stage recorder with satellite telemetry. Concrete control since Dec. 6, 1965. Datum of gage is 5,622 ft above NGVD of 1929, from plane-table survey by Topographic Division, U.S. Geological Survey, 1952. June 22, 1936, to Mar. 11, 1937, at site 60 ft upstream at datum 0.50 ft higher. Mar. 12, 1937, to July 8, 1938, at present site at datum 0.7 ft higher. July 9, 1938, to May 6, 1941, at site 60 ft upstream at datum 0.70 ft higher.

REMARKS.--Water-discharge records GOOD, except estimated discharges which are poor. Diversion for irrigation of about 300 acres upstream from station. Several observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood since at least 1890 occurred between May 6 and 15, 1941, after gage was destroyed (discharge probably exceeded 6,000 ft³/s), from information by local residents.

Water-Data Report 2007

08324000 JEMEZ RIVER NEAR JEMEZ, NM—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[=e, estimated; &, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e17	32	21	30	28	33	143	228	75	14	31	76
2	e17	31	26	29	&26	30	135	515	67	12	26	41
3	e18	29	23	27	e26	34	136	583	63	12	25	35
4	22	30	23	31	e28	34	144	462	59	13	44	35
5	21	31	26	30	28	37	161	345	56	16	40	38
6	22	32	28	29	27	38	178	268	51	17	71	35
7	23	30	27	24	28	42	185	236	46	15	34	36
8	25	33	28	29	29	45	184	215	43	18	26	32
9	127	33	27	27	30	46	189	241	42	16	23	30
10	77	29	28	26	30	55	186	246	56	15	22	24
11	75	27	30	30	34	58	153	256	49	15	24	23
12	64	30	26	30	37	64	146	256	63	17	25	24
13	47	32	28	35	32	82	160	238	72	19	28	21
14	40	30	31	31	34	110	139	278	50	23	25	19
15	44	41	30	e18	30	169	181	276	40	22	23	18
16	51	41	29	e28	30	377	188	260	37	19	25	16
17	45	30	30	e28	35	519	157	292	38	12	23	17
18	40	27	30	27	32	577	142	258	38	13	24	21
19	39	26	35	27	37	495	137	224	33	17	19	23
20	39	26	27	30	35	332	134	215	35	20	15	33
21	36	27	23	32	31	326	137	274	34	41	14	31
22	34	28	26	29	33	344	135	220	28	35	14	28
23	32	29	33	27	34	357	134	184	25	32	14	42
24	32	29	29	28	33	365	137	171	22	29	15	45
25	33	30	26	26	30	322	148	154	17	27	17	40
26	39	28	29	26	37	251	149	151	15	29	16	31
27	41	29	30	27	35	229	138	131	15	33	17	26
28	38	30	33	26	35	227	156	117	15	32	18	39
29	38	32	32	28	---	191	177	104	16	30	32	32
30	36	20	32	26	---	172	193	93	18	34	20	34
31	34	---	27	30	---	153	---	83	---	35	28	---
Total	1,246	902	873	871	884	6,114	4,682	7,574	1,218	682	778	945
Mean	40.2	30.1	28.2	28.1	31.6	197	156	244	40.6	22.0	25.1	31.5
Max	127	41	35	35	37	577	193	583	75	41	71	76
Min	17	20	21	18	26	30	134	83	15	12	14	16
Ac-ft	2,470	1,790	1,730	1,730	1,750	12,130	9,290	15,020	2,420	1,350	1,540	1,870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2007, BY WATER YEAR (WY)

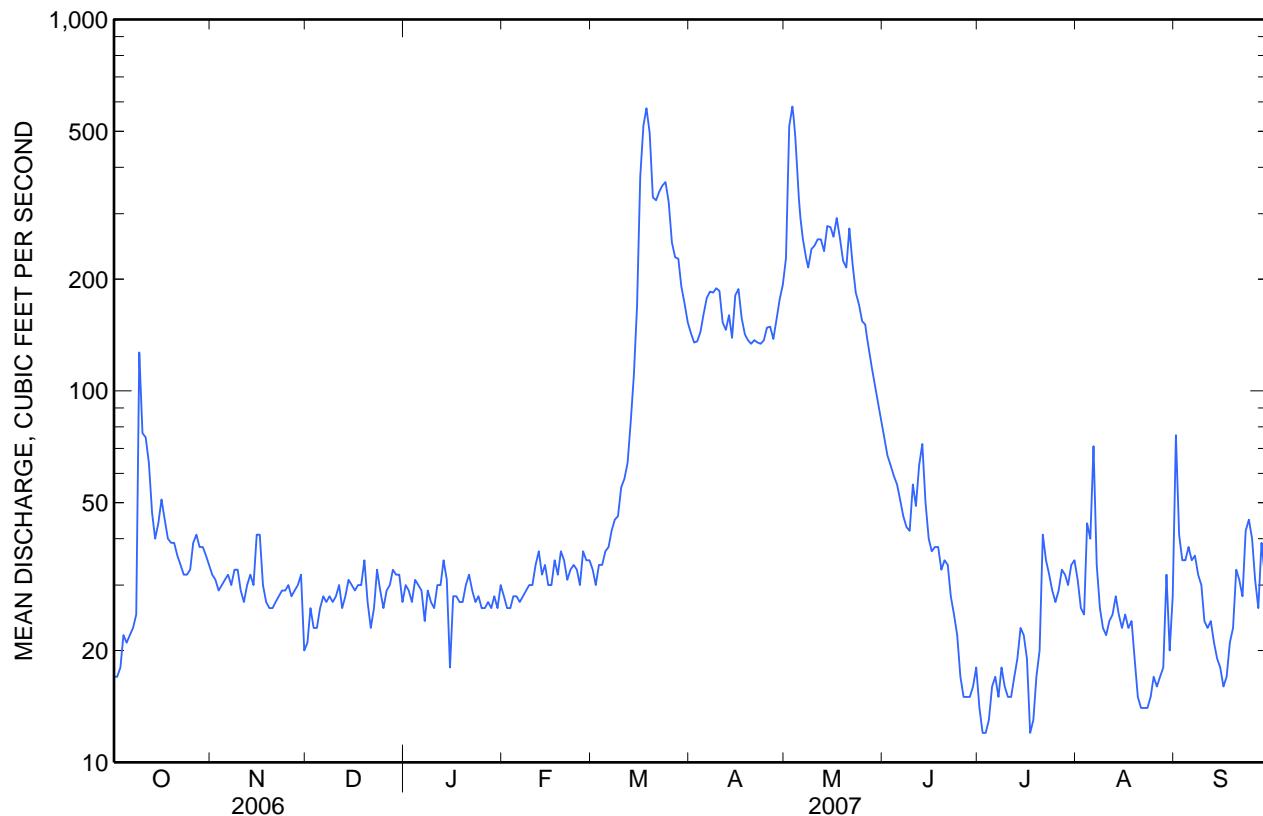
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	34.5	36.7	28.6	28.3	35.3	90.4	254	227	62.7	31.1	44.7	33.0
Max	109	128	58.2	50.6	77.1	301	961	1,118	274	78.5	128	95.8
(WY)	(1987)	(1987)	(1987)	(1995)	(1995)	(1995)	(1958)	(1973)	(1979)	(1986)	(1999)	(1991)
Min	14.5	18.4	17.0	16.6	19.9	23.3	24.8	13.5	10.5	13.3	15.8	11.1
(WY)	(1957)	(1957)	(1957)	(1977)	(1955)	(2006)	(2002)	(1996)	(1996)	(2003)	(1956)	(1956)

08324000 JEMEZ RIVER NEAR JEMEZ, NM—Continued**SUMMARY STATISTICS**

	Calendar Year 2006	Water Year 2007	Water Years 1954 - 2007		
Annual total	10,555.8	26,769			
Annual mean	28.9	73.3	75.6		
Highest annual mean			189		
Lowest annual mean			22.1		
Highest daily mean	204	Aug 5	May 3	3,160	Apr 21, 1958
Lowest daily mean	5.4	Jun 21	Jul 2	2.1	Jul 25, 1981
Annual seven-day minimum	9.5	Jun 17	14	Jul 1	6.0
Maximum peak flow			837	Mar 18	^a 5,900
Maximum peak stage			6.24	Mar 18	^b 10.10
Instantaneous low flow			9.8	Jul 17	1.2
Annual runoff (ac-ft)	20,940	53,100	54,780		
10 percent exceeds	47	192	173		
50 percent exceeds	23	32	32		
90 percent exceeds	13	18	18		

^a From rating curve extended above 2,200 ft³/s, on basis of contracted opening measurement of peak flow.

^b Present datum.



08324000 JEMEZ RIVER NEAR JEMEZ, NM—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
 Part 1 of 5
 [Remark codes: <, less than; E, estimated.]

Date	Time	Instan- taneous dis- charge, degrees	Turbdty white light, det ang 90+/-30 degrees	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L	Dis- solved oxygen, percent of sat- uration	pH	Specif. conduct- ance, unfltrd field, std units	Temper- ature, wat unf μS/cm 25 degC	Temper- ature, air, deg C	Temper- ature, water, deg C	Hard- ness, water, mg/L as CaCO ₃	Brom- ide, water, unfltrd μg/L	Calcium water, mg/L
		(00061)	(63675)	(00025)	(00300)	(00301)	(00400)	(00095)	(00020)	(00010)	(00900)	(63689)	(00915)	
Nov 08...	1000	36	11	625	10.2	103	8.4	583	16.5	7.0	110	.250	36.0	
Apr 03...	1030	140	15	627	8.8	91	8.2	253	22.0	8.0	76	<.200	26.2	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
 Part 2 of 5
 [Remark codes: <, less than; E, estimated.]

Date	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, adsorp- tion ratio	Sodium, filtrd, mg/L (00931)	Alka- linity, wat flt fxd end	Alka- linity, wat flt inc tit	Bicar- bonate, wat flt incr.	Carbon- ate, wat flt incr.	Chlor- ide, titr., field,	Fluor- ide, water, field,	Silica, water, filtrd, mg/L (00950)	Sulfate, water, filtrd, mg/L (00945)	Residue water, filtrd, sum of consti- tuents mg/L (70301)
		(00925)	(00935)	(00931)	(00930)	(29801)	(39086)	(00453)	(00452)	(00940)	(00950)	(00955)	(00945)
Nov 08...	3.89	7.86	2.1	49.8	172	167	199	2	76.9	1.01	32.8	10.1	319
Apr 03...	2.46	2.67	.8	15.2	97	95	114	--	18.4	.37	18.6	8.53	149

08324000 JEMEZ RIVER NEAR JEMEZ, NM—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

[Remark codes: <, less than; E, estimated.]

Date	Ammonia		Ammonia		Nitrite		Ortho-phosphate		E coli		Alum-inum, water, fltrd,	Anti-mony, water, fltrd,	Arsenic (01000)
	+ org-N, water, fltrd, mg/L as N (00623)	+ org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	nitrate water fltrd, mg/L as N (00631)	Nitrite water fltrd, mg/L as N (00613)	nitrate water fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L as P (00666)	Phos-phorus, water, unfltrd mg/L (00665)	m-TEC MF, water, col/ 100 mL (31633)	µg/L (01106)	µg/L (01095)	
Nov 08...	.13	.12	<.020	E.053	<.06	<.002	.018	.008	.027	E1	4.2	.12	46.6
Apr 03...	.37	.42	<.020	<.100	<.06	<.002	.014	.015	.055	E1	39.0	.06	11.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

[Remark codes: <, less than; E, estimated.]

Date	Beryll-ium		Chrom-ium		Cobalt		Copper	Iron	Lead	Mangan-ese	Mercury	Molyb-denum	Nickel
	Barium, water, fltrd, µg/L (01005)	ium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	ium, water, fltrd, µg/L (01030)	Cobalt water, fltrd, µg/L (01035)	water, fltrd, µg/L (01040)	water, fltrd, µg/L (01046)	water, fltrd, µg/L (01049)	water, fltrd, µg/L (01056)	water, unfltrd (71900)	water, recover-able, µg/L (01056)	water, fltrd, µg/L (01060)
Nov 08...	20	E.03	486	E.02	1.1	.05	.73	22	E.09	13.5	<.010	3.2	.29
Apr 03...	45	E.04	112	.05	E.09	.06	16.1	37	.60	10.3	.016	1.0	.78

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 5

[Remark codes: <, less than; E, estimated.]

Date	Selen-ium, water, fltrd, µg/L (01145)	Selen-ium, water, unfltrd µg/L (01147)	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)	Uranium natural water, fltrd, µg/L (22703)	ment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, percent mg/L (80154)
	Selen-ium, water, fltrd, µg/L (01145)	Selen-ium, water, unfltrd µg/L (01147)	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)	Uranium natural water, fltrd, µg/L (22703)	ment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, percent mg/L (80154)
Nov 08...	.12	.14	<.1	3.4	1.04	70	17
Apr 03...	.15	.22	<.1	16.4	.80	59	53