

Water-Data Report 2007

**08380500 GALLINAS CREEK NEAR MONTEZUMA, NM**

Upper Pecos Basin  
Pecos Headwaters Subbasin

LOCATION.--Lat 35°39'07.18", long 105°19'07.79" referenced to North American Datum of 1983, San Miguel County, NM, Hydrologic Unit 13060001, in Las Vegas Grant, on left bank 2.4 mi west of Montezuma, 6.9 mi northwest of Las Vegas, and at mile 74.4.

DRAINAGE AREA.--84 mi<sup>2</sup>, approximately.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March to September 1915, June 1916 to current year. Monthly discharge only for some periods, published in WSP 1312. Prior to October 1964, published as "Gallinas River near Montezuma."

REVISED RECORDS.--WSP 898: drainage area. WSP 1562: 1951(P), 1952(M), 1955(P), 1957. WSP 1632: 1931-32, 1933(M), 1934, 1935(M), 1938, 1939-40(M), 1941-42, 1945, 1949-50(M).

GAGE.--Water-stage recorder with satellite telemetry. Elevation of gage is 6,880 ft above NGVD of 1929, from topographic map. Prior to Sept. 21, 1934, at different datum.

REMARKS.--Records fair except for those estimated, which are poor. Diversions for irrigation of about 80 acres, 1959 determination, upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The greatest flood since about 1900 occurred the night of Sept. 29, 1904 (discharge not determined), from information by local residents and G. B. Monk's report on floods.

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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	9.8	8.4	7.7	e6.5	e6.0	14	29	50	26	7.9	20	8.3
2	e9.2	8.1	e7.0	e7.0	e6.0	11	27	73	25	7.5	14	12
3	e9.5	8.1	e6.5	e8.0	e6.5	14	26	73	23	9.3	21	9.3
4	e10	8.0	e6.5	e10	e8.0	13	28	68	22	7.4	19	7.8
5	e10	7.8	e7.0	e9.0	e10	13	31	64	20	9.4	20	7.6
6	e11	7.7	e7.5	e6.5	e12	13	34	56	18	7.7	17	7.6
7	e12	7.6	e7.0	e6.0	14	14	33	48	17	6.8	16	6.7
8	e14	7.7	e7.0	e7.0	17	17	32	44	16	9.2	13	6.1
9	e16	7.7	e8.5	e6.0	19	19	32	40	14	9.0	12	6.5
10	e17	7.5	e9.0	e8.0	20	20	31	37	14	9.1	11	7.3
11	e16	7.2	e7.5	e10	21	20	29	36	13	10	10	8.2
12	e15	7.3	e6.5	e8.0	22	18	28	36	17	12	10	9.3
13	e14	7.3	e7.0	e15	20	18	28	38	14	18	12	7.1
14	13	7.3	7.4	e10	18	23	26	41	12	15	8.8	6.3
15	13	6.7	6.2	e9.0	17	32	28	44	11	13	7.7	6.0
16	13	6.3	6.2	e12	16	39	30	44	11	12	8.6	5.6
17	12	7.8	6.0	e11	15	42	29	48	11	10	7.5	5.2
18	11	7.2	5.6	e6.0	13	44	27	51	9.2	9.0	7.7	5.3
19	11	7.0	5.9	e6.5	14	47	28	56	8.3	8.8	7.0	5.2
20	11	6.7	6.0	e6.5	15	47	28	57	8.0	8.4	6.3	5.7
21	10	6.9	5.4	e6.5	15	46	29	53	8.7	8.7	5.6	11
22	10	6.7	e6.0	e6.0	16	47	29	50	10	8.2	5.1	8.1
23	10	6.7	e5.0	e6.5	17	49	28	48	9.4	7.7	4.8	7.2
24	9.8	6.7	e4.5	e7.0	16	51	28	45	8.4	7.3	4.4	7.2
25	9.6	6.8	e5.0	e7.0	15	44	27	43	7.8	7.4	5.1	6.7
26	9.3	6.5	e6.0	e7.0	16	40	26	43	7.1	6.7	6.1	6.1
27	9.1	6.5	e6.5	e6.5	16	39	27	38	7.6	6.7	6.1	5.7
28	9.1	6.3	6.4	e6.5	16	42	30	35	10	7.0	5.2	5.4
29	8.7	6.7	e6.0	e6.5	---	38	38	32	9.0	8.4	8.8	5.5
30	8.5	6.7	e6.5	e6.0	---	34	44	30	9.1	13	9.5	6.1
31	8.5	---	e6.5	e6.0	---	32	---	28	---	17	9.9	---
<b>Total</b>	350.1	215.9	201.8	239.5	416.5	940	890	1,449	396.6	297.6	319.2	212.1
<b>Mean</b>	11.3	7.20	6.51	7.73	14.9	30.3	29.7	46.7	13.2	9.60	10.3	7.07
<b>Max</b>	17	8.4	9.0	15	22	51	44	73	26	18	21	12
<b>Min</b>	8.5	6.3	4.5	6.0	6.0	11	26	28	7.1	6.7	4.4	5.2
<b>Ac-ft</b>	694	428	400	475	826	1,860	1,770	2,870	787	590	633	421

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	12.5	9.88	6.71	5.75	6.30	13.5	36.9	54.2	21.9	15.9	32.3	20.1
<b>Max</b>	108	57.5	21.3	17.8	35.1	64.7	184	380	118	105	225	185
<b>(WY)</b>	(1942)	(1942)	(1958)	(2005)	(2005)	(1987)	(1958)	(1941)	(1979)	(1991)	(1991)	(1991)
<b>Min</b>	0.38	0.49	0.80	1.83	1.49	2.36	3.11	1.96	0.74	1.24	1.08	0.40
<b>(WY)</b>	(1957)	(1957)	(1957)	(1957)	(1957)	(1955)	(1967)	(1967)	(1956)	(1956)	(1934)	(1956)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1926 - 2007	
<b>Annual total</b>	6,134.4		5,928.3			
<b>Annual mean</b>	16.8		16.2		19.7	
<b>Highest annual mean</b>					80.7	1941
<b>Lowest annual mean</b>					2.53	1956
<b>Highest daily mean</b>	324	Aug 21	73	May 2	1,580	Sep 10, 1991
<b>Lowest daily mean</b>	1.3	Jun 20	4.4	Aug 24	0.20	Sep 21, 1956
<b>Annual seven-day minimum</b>	1.5	Jun 16	5.3	Aug 22	0.21	Oct 8, 1956
<b>Maximum peak flow</b>			82	May 2	<sup>a</sup> 7,120	Aug 2, 1966
<b>Maximum peak stage</b>			2.17	May 2	<sup>b</sup> 9.70	Aug 2, 1966
<b>Instantaneous low flow</b>			2.1	Dec 12	<sup>c</sup> 0.04	Jun 21, 2006
<b>Annual runoff (ac-ft)</b>	12,170		11,760		14,310	
<b>10 percent exceeds</b>	35		38		45	
<b>50 percent exceeds</b>	6.0		10		7.8	
<b>90 percent exceeds</b>	2.5		6.1		2.8	

<sup>a</sup> From rating curve extended above 500 ft<sup>3</sup>/s, on basis of slope-area measurements at gage heights 5.25, 8.25, and 9.7 ft.

<sup>b</sup> From floodmarks.

<sup>c</sup> Also occurred Oct. 6-9, 1922, Sept. 21 and Oct. 9-14, 1956, and Dec. 13, 1964.

