Water-Data Report 2013

08377900 RIO MORA NEAR TERRERO, NM

Upper Pecos Basin
Pecos Headwaters Subbasin

LOCATION.--Lat 35°46'37.61", long 105°39'28.90" referenced to North American Datum of 1983, San Miguel County, NM, Hydrologic Unit 13060001, in Santa Fe National Forest, on left bank 450 ft upstream from bridge on State Highway 63, 600 ft upstream from mouth, and 2.6 mi north of Terrero.

DRAINAGE AREA.--53.2 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 7,890 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. About 90 percent of the drainage is in the Pecos Wilderness Area and not subject to development, watershed management, or the building of highways; there is limited cattle grazing by permit.

EXTREMES OUTSIDE PERIOD OF RECORD.--Greatest flood since 1886 probably occurred Sept. 29, 1904 (based on statement for Pecos River near Pecos and history of that flood period).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 713 ft^3/s, Sept. 13, gage height, 3.75 ft; minimum daily, 1.3 ft^3/s, Nov. 28.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 08377900, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/08377900.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.7	5.0	4.9	e3.5	e3.9	e3.4	e7.9	27	12	7.7	22	9.4
2	6.5	5.0	4.2	e3.0	e4.0	e3.5	e9.1	25	11	7.0	22	10
3	6.1	5.1	5.3	e3.0	e4.0	e4.0	e8.9	23	11	7.7	20	9.3
4	5.9	4.9	4.2	e3.2	e3.8	e4.0	7.4	22	10	6.1	19	15
5	5.6	4.8	4.5	e3.3	e3.8	e3.6	9.5	21	11	7.3	19	8.9
6	5.6	4.7	4.6	e3.8	e3.9	e4.6	11	20	14	7.5	19	7.5
7	5.6	4.6	4.1	e4.5	e3.9	e4.9	12	19	11	18	18	6.5
8	5.5	4.6	4.1	e4.6	e3.7	e4.8	14	19	10	25	18	5.0
9	5.6	4.9	4.4	e4.4	e3.6	e4.2	16	18	9.3	17	17	5.9
10	5.5	6.1	e4.3	e4.4	e3.6	e3.6	13	19	8.5	14	17	8.1
11	5.4	3.3	e5.0	e4.0	e3.8	e3.6	12	18	7.9	13	20	23
12	6.6	e5.0	e5.2	e3.4	e3.8	e4.1	12	17	7.4	14	16	41
13	10	e11	e5.1	e3.2	e4.3	e4.6	12	17	10	13	15	435
14	8.1	e13	e5.0	e3.2	e5.2	e6.0	12	17	9.2	13	13	347
15	7.2	e13	e5.2	e3.5	e5.6	e6.8	15	19	10	16	12	411
16	6.7	e11	e4.9	e3.6	e5.6	e7.6	19	19	7.9	18	11	319
17	6.4	5.7	e4.7	e3.9	e6.0	e6.4	21	19	7.1	21	11	235
18	6.1	5.3	e4.3	e3.9	e6.1	e6.0	18	19	7.5	19	11	183
19	5.7	5.6	e4.2	e3.7	e6.2	e5.6	17	19	6.5	19	13	150
20	5.6	6.5	e3.8	e3.4	e5.9	e4.8	17	19	5.8	41	14	122
21	5.5	7.2	e4.0	e3.5	e6.4	e5.4	15	19	5.3	55	11	105
22	5.5	6.7	e4.0	e3.6	e6.1	e5.3	17	17	5.0	50	10	93
23	5.3	8.0	e4.2	e3.8	e5.8	e4.9	21	17	4.7	41	9.3	94
24	5.2	5.0	e4.1	e4.0	e5.5	e4.2	18	17	4.5	37	8.6	77
25	5.1	5.1	e4.2	e4.3	e4.9	e5.5	19	16	4.2	33	9.3	67
26	5.0	7.5	e4.0	e4.6	e4.6	e5.7	18	16	4.1	37	8.5	59
27	4.8	3.8	e4.1	e5.1	e3.8	e6.1	19	15	4.1	45	8.3	53
28	5.2	3.9	e4.0	e4.7	e3.5	e6.5	20	15	4.1	37	7.6	47
29	5.6	5.2	e4.1	e4.3	---	e7.0	23	14	5.4	32	7.5	42
30	5.3	5.2	e4.0	e3.9	---	e7.0	26	13	7.8	26	6.8	39
31	5.1	---	e4.1	e4.0	---	e7.3	---	12	---	23	6.6	---
Total	184.0	186.7	136.8	119.3	131.3	161.0	459.8	567	236.3	720.3	420.5	3,027.6
Mean	5.94	6.22	4.41	3.85	4.69	5.19	15.3	18.3	7.88	23.2	13.6	101
Max	10	13	5.3	5.1	6.4	7.6	26	27	14	55	22	435
Min	4.8	3.3	3.8	3.0	3.5	3.4	7.4	12	4.1	6.1	6.6	5.0
Ac-ft	365	370	271	237	260	319	912	1,120	469	1,430	834	6,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.4	10.5	7.19	6.40	6.71	13.0	39.9	124	74.1	27.3	40.9	26.4
Max	35.2	36.8	13.4	21.3	16.0	41.3	105	319	263	73.1	159	101
(WY)	(2006)	(1999)	(2008)	(2006)	(2006)	(1989)	(2005)	(1973)	(1997)	(1988)	(1991)	(2013)
Min	5.73	3.72	2.55	1.72	1.77	3.40	10.0	10.0	4.73	6.88	7.71	6.93
(WY)	(1965)	(1990)	(2002)	(1964)	(2002)	(1964)	(2006)	(2002)	(2002)	(2011)	(2009)	(1978)

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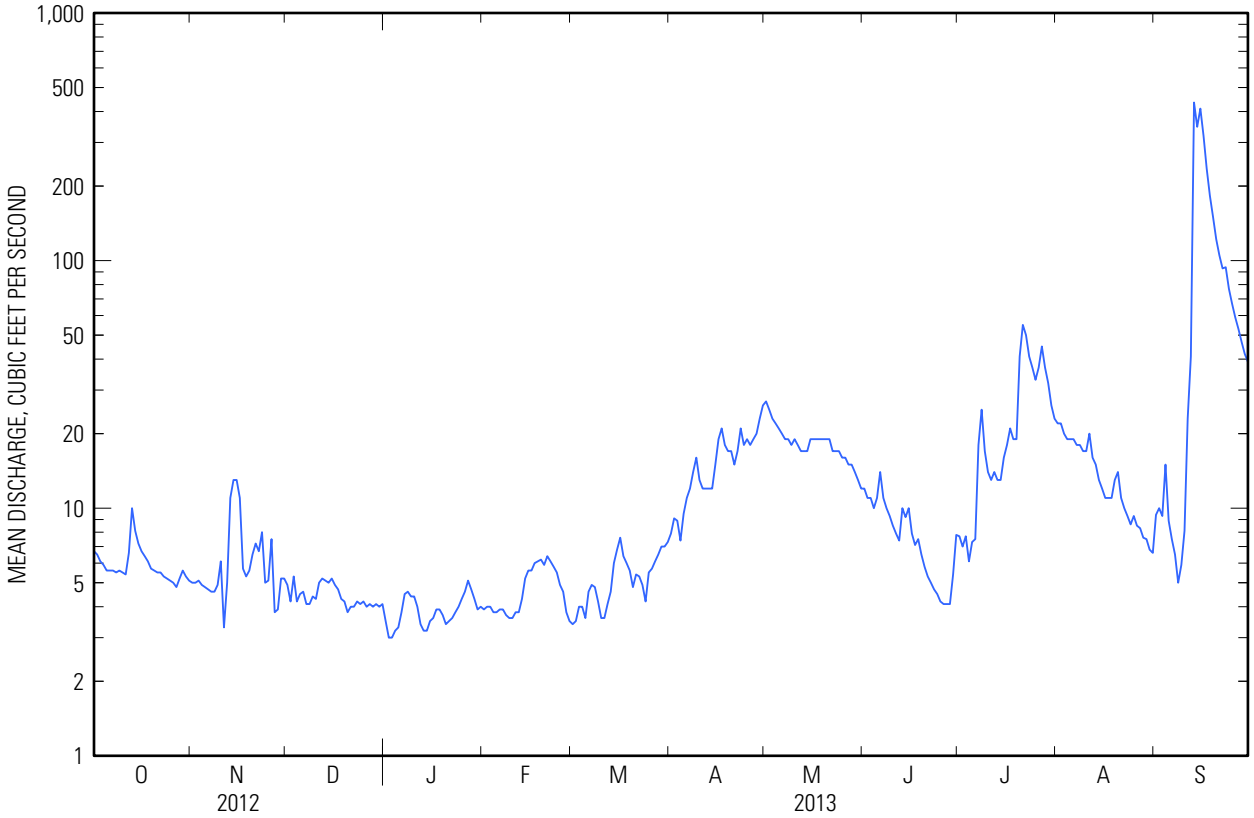
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1964 - 2013	
Annual total	8,847.1		6,350.6			
Annual mean	24.2		17.4		32.7	
Highest annual mean					65.3	1973
Lowest annual mean					7.37	2002
Highest daily mean	169	Apr 27	435	Sep 13	755	Jun 8, 1997
Lowest daily mean	3.3	Nov 11	3.0	Jan 2	0.90	Jan 12, 1964
Annual seven-day minimum	4.0	Dec 20	3.4	Dec 31	0.97	Jan 10, 1964
Maximum peak flow			713	Sep 13	937	May 22, 1991
Maximum peak stage			3.75	Sep 13	4.15	Jun 8, 1979
Instantaneous low flow			1.3	Nov 28	0.90	Jan 12, 1964
Annual runoff (ac-ft)	17,550		12,600		23,690	
10 percent exceeds	76		23		81	
50 percent exceeds	8.4		6.7		13	
90 percent exceeds	5.0		3.9		5.0	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2011 to current year.

PERIOD OF DAILY RECORD.--November 2011 to current year.

INSTRUMENTATION.--Water-temperature probe connected to electronic data logger recording in 15 minute intervals with satellite telemetry, Nov. 2011 to current year.

REMARKS.--Water temperature records excellent except days with partial data, which are poor.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 20.5°C, June 19; minimum recorded, 0.0°C, many days November through March.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[e, estimated]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	10.5	5.5	7.9	4.3	0.1	2.0	0.1	0.0	0.0	0.0	0.0	0.0
2	11.3	5.4	7.9	4.2	0.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
3	11.5	5.7	8.1	5.1	0.9	2.7	0.2	-0.1	0.0	0.0	0.0	0.0
4	11.1	5.7	8.1	4.2	0.1	2.0	0.1	-0.1	0.0	0.0	0.0	0.0
5	11.3	6.4	8.3	4.1	0.2	2.0	0.3	0.0	0.0	0.0	0.0	0.0
6	11.3	6.8	8.4	4.3	0.4	2.1	0.2	0.0	0.0	0.0	0.0	0.0
7	9.6	5.4	6.9	3.8	0.0	1.7	0.5	-0.1	0.1	0.0	0.0	0.0
8	8.2	2.2	5.0	3.7	0.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
9	9.3	3.8	6.0	4.2	0.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
10	9.5	3.6	6.1	3.4	0.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
11	8.9	4.1	6.4	0.5	-0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
12	9.1	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	7.1	4.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	8.0	2.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	8.0	2.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
16	8.3	3.5	5.5	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1
17	8.4	5.0	6.1	0.2	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
18	7.8	3.0	5.0	0.4	0.0	0.1	0.0	0.0	0.0	-0.1	-0.2	-0.1
19	7.6	2.3	4.6	0.5	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
20	7.3	2.5	4.6	0.2	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
21	7.7	3.0	5.0	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
22	7.6	3.1	5.0	0.2	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
23	8.1	4.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.2	-0.1
24	7.9	4.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1
25	5.8	2.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3.6	0.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.0	-0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	4.5	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	5.2	1.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	5.2	0.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	4.8	0.5	2.4	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
Month	11.5	-0.1	5.4	5.1	-0.1	0.7	0.5	-0.1	0.0	0.0	-0.2	0.0

08377900 RIO MORA NEAR TERRERO, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[e, estimated]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	0.0	0.0	0.0	0.0	0.0	0.0	e8.0	---	---	12.0	5.2	8.2
2	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---	10.2	3.7	6.5
3	0.0	0.0	0.0	0.0	0.0	0.0	e6.6	---	---	10.5	1.6	5.6
4	0.1	0.0	0.0	0.0	0.0	0.0	9.3	0.6	4.2	11.2	2.8	6.5
5	0.1	0.0	0.0	0.2	0.0	0.0	9.1	2.0	5.0	8.9	3.6	6.1
6	0.0	0.0	0.0	0.2	0.0	0.0	8.6	2.7	5.2	6.7	4.2	5.4
7	0.1	0.0	0.0	0.2	0.0	0.0	9.1	2.8	5.4	12.1	3.6	7.1
8	0.1	0.0	0.0	0.1	0.0	0.0	8.7	2.3	5.2	11.7	4.6	7.3
9	0.0	0.0	0.0	0.1	0.0	0.0	5.6	0.0	2.7	9.8	3.7	6.2
10	0.0	0.0	0.0	0.4	0.0	0.1	2.4	0.0	1.0	6.3	4.0	5.2
11	0.0	0.0	0.0	0.2	0.0	0.0	5.8	-0.1	2.5	9.6	3.2	6.0
12	0.0	0.0	0.0	0.6	0.0	0.1	7.6	1.7	4.1	8.0	3.6	5.9
13	0.0	0.0	0.0	0.6	0.0	0.1	9.3	1.7	4.9	10.0	4.0	6.9
14	0.0	0.0	0.0	1.4	0.0	0.2	10.5	3.3	6.1	11.2	4.7	7.2
15	0.0	0.0	0.0	1.9	0.0	0.3	10.6	3.3	6.4	9.2	5.5	7.5
16	0.0	0.0	0.0	1.4	0.0	0.4	8.5	3.2	5.9	14.5	5.1	9.1
17	0.0	-0.1	0.0	2.1	0.0	0.8	6.8	2.6	4.4	13.4	6.1	9.4
18	0.0	0.0	0.0	2.6	0.0	0.8	4.8	-0.1	1.9	11.7	7.0	9.1
19	0.0	-0.1	0.0	0.9	-0.1	0.2	6.5	-0.1	2.2	12.0	6.9	8.8
20	0.0	0.0	0.0	1.7	-0.1	0.6	5.7	0.9	3.1	12.4	6.0	8.6
21	0.0	0.0	0.0	5.0	0.5	2.0	10.0	1.3	4.8	13.8	4.9	8.7
22	0.0	0.0	0.0	3.0	-0.1	1.1	11.0	2.7	6.2	15.4	6.0	10.1
23	0.0	0.0	0.0	2.6	-0.1	0.6	6.6	2.8	4.7	14.1	7.0	10.4
24	0.0	0.0	0.0	0.6	-0.1	0.0	9.4	0.1	4.2	16.5	8.2	11.7
25	0.0	0.0	0.0	0.5	-0.1	0.0	7.8	3.5	5.2	17.2	8.8	12.3
26	0.0	0.0	0.0	1.8	0.0	0.5	9.9	3.4	6.3	15.5	8.2	11.4
27	0.0	0.0	0.0	5.5	-0.1	1.7	10.0	3.0	6.2	12.6	7.1	9.8
28	0.0	0.0	0.0	6.3	-0.1	2.4	11.8	3.3	6.9	15.2	7.0	10.5
29	---	---	---	5.6	0.1	2.4	12.2	4.0	7.5	12.5	7.3	9.6
30	---	---	---	7.2	0.0	3.0	11.9	4.6	8.0	16.1	6.8	10.7
31	---	---	---	6.3	0.8	3.3	---	---	---	17.2	8.6	11.8
Month	0.1	-0.1	0.0	7.2	-0.1	0.7	---	---	---	17.2	1.6	8.4

08377900 RIO MORA NEAR TERRERO, NM—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[e, estimated]

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	15.2	7.5	11.1	17.0	11.3	14.0	16.3	12.2	13.9	14.1	11.6	12.8
2	16.0	7.9	11.6	19.0	11.4	14.5	18.0	11.7	14.4	14.7	10.9	12.5
3	18.5	9.5	13.1	19.8	12.1	15.1	18.0	12.3	14.9	16.5	10.4	13.1
4	16.5	9.1	12.5	16.5	11.8	14.0	16.4	12.6	14.3	14.8	10.4	12.7
5	15.9	9.2	11.6	19.7	12.3	15.3	18.4	12.3	14.6	17.3	9.9	13.0
6	16.3	7.1	11.2	15.4	13.0	14.4	18.1	12.4	14.7	16.7	10.0	12.9
7	16.1	9.2	12.3	18.7	12.3	14.6	16.0	11.7	13.7	16.9	10.1	13.0
8	18.0	9.1	12.8	15.7	11.7	13.5	16.1	11.4	13.4	17.0	10.2	13.1
9	18.9	10.4	14.3	16.4	11.9	14.1	14.5	10.1	12.3	15.7	11.0	13.3
10	19.6	11.5	14.9	15.6	12.4	13.9	17.0	11.2	13.2	13.4	11.8	12.6
11	20.4	11.2	15.1	17.4	12.2	14.4	15.6	10.9	12.9	14.6	11.8	13.0
12	17.2	11.0	14.1	15.8	12.3	13.8	14.6	11.3	12.7	13.1	10.9	12.4
13	15.8	11.3	13.6	18.6	12.2	14.7	15.3	10.3	12.7	10.9	9.2	9.9
14	13.4	11.1	12.2	17.4	12.9	14.8	15.6	10.5	12.7	9.9	8.9	9.3
15	16.0	9.2	12.5	16.4	12.9	14.2	17.3	10.2	13.3	9.9	8.6	9.2
16	19.0	10.9	14.2	13.6	11.0	12.3	14.6	11.1	13.0	10.3	8.4	9.2
17	17.3	10.5	13.7	13.7	9.8	11.8	14.7	10.6	12.8	10.7	8.3	9.4
18	---	---	---	16.6	10.2	13.2	14.9	10.8	13.0	11.2	8.9	9.9
19	20.5	11.2	15.0	16.9	11.4	13.8	13.9	11.5	12.8	11.1	8.7	9.7
20	20.4	10.8	14.7	14.7	11.8	13.1	13.6	10.3	12.2	10.7	7.4	9.1
21	20.0	10.3	14.5	12.1	9.8	11.0	16.4	10.6	13.4	10.7	7.7	9.2
22	19.1	10.1	14.1	14.6	9.3	11.9	15.8	11.3	13.3	10.6	7.0	8.9
23	20.1	9.6	14.1	13.3	10.8	12.4	17.3	9.6	12.9	9.1	6.2	7.8
24	19.8	10.0	14.2	16.5	10.5	13.0	15.3	11.0	13.1	9.3	5.2	7.3
25	20.1	9.6	14.4	16.7	11.8	14.0	16.2	12.4	14.1	9.6	5.6	7.6
26	19.7	11.5	15.5	15.3	12.2	13.7	18.6	12.0	14.8	10.0	6.6	8.3
27	17.9	12.1	15.0	16.1	10.3	12.9	17.8	11.9	14.4	9.6	7.4	8.4
28	17.1	13.2	14.6	14.0	11.4	12.8	17.9	10.8	14.0	7.6	4.1	6.1
29	17.0	11.2	14.0	16.4	10.6	13.0	16.7	11.7	14.1	7.8	3.7	5.8
30	16.9	11.4	14.0	17.0	10.8	13.6	16.6	11.4	13.8	9.0	4.9	6.9
31	---	---	---	15.6	11.1	13.4	16.0	11.4	13.6	---	---	---
Month	---	---	---	19.8	9.3	13.6	18.6	9.6	13.5	17.3	3.7	10.2