



Water-Data Report 2011

08446500 Pecos River near Girvin, TX

Lower Pecos Basin
Lower Pecos-Red Bluff Reservoir Subbasin

LOCATION.--Lat 31°06'47", long 102°25'02" referenced to North American Datum of 1927, Pecos County, TX, Hydrologic Unit 13070001, on right bank 2.1 mi upstream from Comanche Creek, 3.8 mi northwest of Girvin, and 7.2 mi upstream from bridge on U.S. Highway 67.

DRAINAGE AREA.--37,300 mi² of which 7,740 mi² probably is noncontributing, which is contributing area of supplementary gage 7.2 mi downstream.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Aug. 1939 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Oct. 1939 to June 1941, Oct. 1946 to Sept. 1947, Oct. 1953 to Aug. 1982.

PESTICIDE DATA: May 1968 to July 1974.

PERIOD OF DAILY RECORD, Water-Quality.--

SPECIFIC CONDUCTANCE: Oct. 1939 to June 1941, Oct. 1946 to Sept. 1947, Oct. 1953 to Sept. 1982.

WATER TEMPERATURE: Oct. 1953 to Jan. 1959, Mar. 1964 to Sept. 1982.

GAGE.--Water-stage recorder with concrete control and measuring flume. Elevation of gage is 2,290 ft above NGVD of 1929, from topographic map. Supplementary water-stage recorder, 7.2 mi downstream at datum 2,269.65 ft above NGVD of 1929, used as regular gage prior to July 17, 1951, is now used only for peaks exceeding about 750 ft³/s. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage at least 10% of contributing drainage area has been regulated. There are numerous diversions upstream of station for irrigation. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 1932 reached a stage of 17 feet, discharge not determined; information supplied by local residents.

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08446500 Pecos River near Girvin, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	39	36	37	26	25	41	14	e9.0	14	13	15	3.5
2	34	33	34	26	24	33	13	e7.5	13	21	14	3.4
3	31	30	33	26	25	28	12	e5.9	13	24	13	3.3
4	29	29	31	26	24	26	23	6.0	13	26	13	3.3
5	27	28	30	26	26	25	27	6.3	14	26	12	3.1
6	26	28	29	26	27	23	23	5.8	13	24	12	3.2
7	28	27	29	26	26	22	19	5.7	13	21	11	3.2
8	29	27	28	26	25	22	17	5.5	13	19	13	3.3
9	28	27	28	26	24	21	14	5.6	13	16	11	3.4
10	38	27	28	26	23	21	12	5.6	12	13	12	3.3
11	52	27	28	25	23	20	11	5.4	12	9.9	9.3	3.3
12	57	27	27	25	23	21	10	5.3	12	20	4.4	3.7
13	51	27	27	25	24	22	10	5.6	12	36	4.2	3.9
14	42	27	27	25	24	21	9.2	5.8	13	36	5.7	4.2
15	36	27	27	26	24	21	9.0	5.6	14	34	13	5.7
16	32	27	27	26	24	20	e10	5.9	13	33	7.7	9.1
17	30	27	27	26	24	20	20	6.9	14	31	5.8	8.8
18	28	26	27	26	24	18	24	6.9	14	30	5.7	11
19	27	26	27	26	24	18	25	9.2	13	29	5.5	10
20	26	26	27	26	24	17	25	11	13	28	5.0	9.5
21	25	27	27	26	24	17	25	11	13	29	7.0	9.1
22	32	31	27	25	25	17	23	12	15	33	13	8.6
23	28	50	27	25	35	16	22	13	14	31	9.7	7.7
24	30	51	27	25	32	15	21	13	13	22	7.2	7.8
25	29	50	26	25	28	16	21	13	13	22	6.2	8.4
26	41	56	26	25	35	15	21	13	13	20	6.5	8.8
27	44	59	26	25	45	14	19	14	14	19	4.9	8.3
28	45	53	26	25	47	14	15	13	14	18	4.2	8.1
29	48	47	26	25	---	14	10	13	13	17	4.0	12
30	45	41	26	25	---	15	e10	15	13	16	3.6	16
31	40	---	26	26	---	16	---	15	---	15	3.5	---
Total	1,097	1,024	868	793	758	629	514.2	275.5	396	731.9	262.1	197.0
Mean	35.4	34.1	28.0	25.6	27.1	20.3	17.1	8.89	13.2	23.6	8.45	6.57
Max	57	59	37	26	47	41	27	15	15	36	15	16
Min	25	26	26	25	23	14	9.0	5.3	12	9.9	3.5	3.1
Ac-ft	2,180	2,030	1,720	1,570	1,500	1,250	1,020	546	785	1,450	520	391

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	171	93.3	61.7	58.1	50.3	42.3	33.4	41.0	86.7	42.4	33.2	58.5
Max	8,506	3,007	1,192	935	769	314	142	538	3,556	813	376	1,168
(WY)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(1957)	(1942)	(1941)	(1941)	(1941)	(1941)
Min	9.52	13.0	11.9	14.4	14.5	15.1	11.3	6.38	2.84	3.86	4.13	6.05
(WY)	(1980)	(1974)	(2004)	(2004)	(1982)	(2004)	(1985)	(2003)	(1983)	(1964)	(1969)	(1983)

08446500 Pecos River near Girvin, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1939 - 2011	
Annual total	9,807.9	7,545.7		
Annual mean	26.9	20.7	64.4	
Highest annual mean			1,386	1942
Lowest annual mean			15.1	2002
Highest daily mean	139	Jul 10	59	Nov 27
Lowest daily mean	8.0	May 22	3.1	Sep 5
Annual seven-day minimum	9.6	May 20	3.3	Sep 2
Maximum peak flow			62	Jul 22
Maximum peak stage			1.59	Nov 27
Annual runoff (ac-ft)	19,450	14,970	k20,000	Oct 5, 1941
10 percent exceeds	41	33	P20.49	Oct 5, 1941
50 percent exceeds	25	22		77
90 percent exceeds	13	5.8		27
				10

k From supplementary gage.

P Observed.

