

Water-Data Report 2008

**08152900 Pedernales River near Fredericksburg, TX**

Middle Colorado-Llano Basin  
Pedernales Subbasin

LOCATION.--Lat 30°13'13", long 98°52'10" referenced to North American Datum of 1927, Gillespie County, TX, Hydrologic Unit 12090206, on left bank at downstream side of bridge on U.S. Highway 87, 2.0 mi upstream from Mueseback Creek, 3.8 mi south of the Post Office in Fredericksburg, and 88.7 mi upstream from mouth.

DRAINAGE AREA.--369 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1979 to May 1993, Mar. 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,564.96 ft above NGVD of 1929. Radio telemeter at station. Satellite telemeter at station.

COOPERATION.--Lower Colorado River Authority provides operation and maintenance of the gage and verification of stage-discharge relation at low stages. U.S. Geological Survey maintains stage-discharge relation at medium to high stages, computes and publishes streamflow record.

REMARKS.--Records good except those for daily discharges less than 5 ft<sup>3</sup>/s, which are fair. No known regulation or diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 2, 1978, which is the highest since 1907, reached a stage of 41.6 ft (discharge not determined). The highest known discharge was 64,000 ft<sup>3</sup>/s, June 1, 1979, gage height, 34.4 ft, from floodmark, from rating curve extended above a discharge measurement of 42,300 ft<sup>3</sup>/s.

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DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008  
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	127	74	65	49	44	36	38	29	15	5.9	3.8	6.0
2	122	72	64	48	44	36	35	29	14	5.8	3.6	5.7
3	117	71	61	47	44	37	34	28	13	5.9	3.5	5.5
4	113	72	59	48	45	36	36	26	12	5.9	3.3	5.2
5	109	71	59	49	45	36	35	29	11	5.8	3.2	5.0
6	106	68	58	50	43	37	33	31	11	5.6	3.5	4.8
7	103	68	57	51	41	39	33	29	11	5.9	3.9	4.5
8	101	70	57	52	41	37	33	27	11	6.9	3.4	4.6
9	100	70	56	50	41	35	34	26	11	7.2	3.1	4.8
10	100	75	56	48	41	39	36	26	10	6.7	2.9	4.9
11	98	71	61	46	42	44	34	24	9.3	6.3	2.9	4.8
12	94	71	61	46	42	41	32	24	8.8	5.9	18	4.8
13	90	70	60	46	40	38	31	26	8.5	5.5	8.3	4.7
14	88	70	58	45	39	37	30	33	8.3	5.3	5.7	4.4
15	90	65	58	46	39	35	30	123	7.8	4.8	5.0	4.0
16	93	62	56	49	42	34	30	74	7.7	4.3	4.7	4.1
17	90	63	55	48	43	35	30	44	7.2	4.1	10	4.0
18	86	65	56	48	41	52	36	36	7.0	4.0	22	4.0
19	82	66	56	48	40	58	35	34	6.9	3.8	23	4.0
20	81	65	56	47	39	47	33	30	8.9	3.8	17	3.9
21	84	61	56	47	40	40	33	28	8.8	3.7	11	3.9
22	93	57	54	49	39	37	33	26	8.5	3.5	8.7	4.0
23	97	55	52	49	38	36	33	25	7.7	3.4	7.6	4.4
24	83	66	52	48	37	35	32	24	7.5	6.3	7.0	4.3
25	78	81	52	48	37	35	31	22	7.0	6.9	7.3	4.2
26	77	77	52	48	36	35	36	22	6.3	4.9	8.0	4.1
27	77	66	52	47	34	34	44	21	5.8	4.6	8.0	4.1
28	80	62	52	48	34	34	39	19	5.2	4.5	7.2	4.1
29	75	59	51	48	35	34	35	18	5.1	4.2	6.7	4.0
30	75	60	51	45	---	35	31	17	5.1	4.0	6.4	3.9
31	74	---	50	44	---	37	---	16	---	3.9	6.2	---
<b>Total</b>	2,883	2,023	1,743	1,482	1,166	1,181	1,015	966	266.4	159.3	234.9	134.7
<b>Mean</b>	93.0	67.4	56.2	47.8	40.2	38.1	33.8	31.2	8.88	5.14	7.58	4.49
<b>Max</b>	127	81	65	52	45	58	44	123	15	7.2	23	6.0
<b>Min</b>	74	55	50	44	34	34	30	16	5.1	3.4	2.9	3.9
<b>Ac-ft</b>	5,720	4,010	3,460	2,940	2,310	2,340	2,010	1,920	528	316	466	267

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2008<sup>h</sup>, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	61.3	59.0	80.9	40.7	65.5	74.8	63.5	109	113	96.2	51.6	26.6
<b>Max</b>	408	333	993	173	631	370	378	819	635	1,214	833	229
<b>(WY)</b>	(1986)	(2002)	(1992)	(1992)	(1992)	(1992)	(2004)	(2007)	(1987)	(2002)	(2007)	(2007)
<b>Min</b>	3.25	5.70	7.18	8.78	8.32	9.77	5.96	2.95	2.33	0.78	0.23	0.31
<b>(WY)</b>	(2000)	(2000)	(1990)	(1990)	(1984)	(1984)	(1984)	(1984)	(1984)	(2000)	(1985)	(1984)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1980 - 2008 <sup>h</sup>	
<b>Annual total</b>	97,232.9		13,254.3			
<b>Annual mean</b>	266		36.2		72.1	
<b>Highest annual mean</b>					254	2007
<b>Lowest annual mean</b>					5.31	1984
<b>Highest daily mean</b>	16,300	May 25	127	Oct 1	16,300	May 25, 2007
<b>Lowest daily mean</b>	5.2	Mar 7	2.9	Aug 10	0.00	Jul 13, 1984
<b>Annual seven-day minimum</b>	6.7	Mar 3	3.3	Aug 5	0.00	Sep 2, 2000
<b>Maximum peak flow</b>			212	May 15	58,500	Aug 17, 2007
<b>Maximum peak stage</b>			6.26	May 15	<sup>a</sup> 32.09	Dec 20, 1991
<b>Annual runoff (ac-ft)</b>	192,900		26,290		52,220	
<b>10 percent exceeds</b>	375		74		105	
<b>50 percent exceeds</b>	77		35		24	
<b>90 percent exceeds</b>	12		4.3		3.9	

<sup>h</sup> See Period of Record paragraph.

<sup>a</sup> From floodmark.

