

Water-Data Report 2008

08144500 San Saba River at Menard, TX

Middle Colorado-Concho Basin
San Saba Subbasin

LOCATION.--Lat 30°55'08", long 99°47'07" referenced to North American Datum of 1927, Menard County, TX, Hydrologic Unit 12090109, at downstream side of bridge on U.S. Highway 83 in Menard, 1.1 mi downstream from Las Moras Creek, 1.9 mi upstream from Volkmann Draw, and 116.3 mi upstream from mouth.

DRAINAGE AREA.--1,135 mi² of which 7 mi² probably is noncontributing,

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1915 to Sept. 1993, Oct. 1997 to current year.

PERIOD OF RECORD.--Water-Quality.--

CHEMICAL DATA: Nov. 1964 to July 1967.

REVISED RECORDS.--WDR TX-81-3: Drainage area. WSP 1512: 1918-20, 1922-25, 1926(M), 1927-32, 1934(M), 1936, 1938(M).

GAGE.--Water-stage recorder. Datum of gage is 1,863.05 ft above NGVD of 1929. Sept. 14, 1915, to Mar. 12, 1924, nonrecording gage at site 635 ft downstream at datum 2.20 ft lower. Mar. 13, 1924, to Feb. 21, 1939, nonrecording gage at site 1,000 ft upstream at datum 2.00 ft higher. Feb. 22, 1939, to Jan. 25, 1940, nonrecording gage at present site and datum. Jan. 26, 1940, to Sept. 19, 1957, water-stage recorder at site 240 ft to right at present datum. Feb. 8, 1962, to Jan. 22, 1963, nonrecording gage at site 600 ft downstream at present datum. 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 and computes and publishes streamflow record.

REMARKS.--Records good except those for estimated discharges, which are poor. Since about 1890, low flow regulated during irrigation season by diversions to Noyes Canal at Menard (discontinued station 08144000) 4.6 mi upstream and diversions by pumping at several locations upstream. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1880, 23.3 ft, June 6, 1899, present site and datum, from information by local resident.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36	33	37	37	37	38	35	29	24	28	15	21
2	36	35	38	36	37	37	34	29	24	26	17	21
3	35	35	36	37	37	39	34	28	24	25	19	20
4	34	34	36	38	38	39	35	28	23	25	18	20
5	33	35	36	38	37	38	35	29	23	25	16	21
6	33	34	35	38	37	38	35	29	23	25	14	21
7	33	33	36	39	37	39	34	29	23	24	16	20
8	32	33	36	39	37	38	35	28	23	24	15	19
9	33	34	36	37	37	38	36	28	23	26	14	22
10	33	35	36	36	37	38	37	28	23	25	12	e24
11	33	35	36	37	39	39	36	28	22	24	17	e27
12	33	35	38	37	39	38	34	27	21	24	25	e26
13	32	36	39	36	38	38	34	28	20	23	22	e25
14	30	35	38	37	38	36	34	36	20	22	19	25
15	34	35	38	37	38	36	34	34	20	23	19	23
16	36	35	37	37	39	35	34	30	20	23	21	23
17	35	35	36	36	41	36	35	29	20	23	20	22
18	33	35	37	38	40	57	35	29	22	23	19	23
19	32	35	37	38	39	48	35	29	24	23	18	24
20	32	36	37	38	39	41	34	28	25	22	18	25
21	32	36	37	39	39	38	35	28	25	22	18	25
22	34	34	36	39	39	36	35	27	24	22	18	24
23	33	34	37	38	39	38	34	26	24	22	19	23
24	33	39	37	39	38	36	34	25	23	22	19	25
25	33	48	37	40	38	35	31	25	23	24	20	25
26	33	45	37	40	38	34	30	25	23	24	20	24
27	34	40	37	39	36	34	35	25	22	23	21	24
28	34	39	37	39	36	35	36	25	20	21	20	24
29	34	38	37	39	37	34	33	25	21	19	20	23
30	34	37	37	38	---	35	30	24	25	15	20	21
31	35	---	37	37	---	36	---	24	---	14	20	---
Total	1,037	1,083	1,141	1,173	1,101	1,177	1,028	862	677	711	569	690
Mean	33.5	36.1	36.8	37.8	38.0	38.0	34.3	27.8	22.6	22.9	18.4	23.0
Max	36	48	39	40	41	57	37	36	25	28	25	27
Min	30	33	35	36	36	34	30	24	20	14	12	19
Ac-ft	2,060	2,150	2,260	2,330	2,180	2,330	2,040	1,710	1,340	1,410	1,130	1,370

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2008^h, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	85.3	49.6	32.1	32.2	37.8	33.0	64.7	73.2	56.3	95.2	41.4	125
Max	914	778	152	80.4	261	251	1,206	1,631	667	5,140	869	2,870
(WY)	(1942)	(2001)	(1985)	(1985)	(1958)	(1922)	(1922)	(1957)	(1958)	(1938)	(1974)	(1936)
Min	0.00	0.00	0.00	0.04	0.82	0.99	0.89	1.22	0.00	0.00	0.00	0.00
(WY)	(1957)	(1957)	(1955)	(1957)	(1955)	(1956)	(1955)	(1964)	(1953)	(1952)	(1952)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1916 - 2008 ^h	
Annual total	19,396		11,249			
Annual mean	53.1		30.7		60.5	
Highest annual mean					485	1938
Lowest annual mean					6.12	1952
Highest daily mean	1,970	Jun 28	57	Mar 18	53,300	Jul 23, 1938
Lowest daily mean	26	Feb 22	12	Aug 10	0.00	Jul 12, 1918
Annual seven-day minimum	27	Mar 16	15	Aug 5	0.00	Jul 19, 1918
Maximum peak flow			81	Mar 18	ⁱ 130,000	Jul 23, 1938
Maximum peak stage			3.82	Mar 18	^a 22.20	Jul 23, 1938
Annual runoff (ac-ft)	38,470		22,310		43,830	
10 percent exceeds	53		38		58	
50 percent exceeds	36		34		23	
90 percent exceeds	29		20		2.5	

^h See Period of Record paragraph.

ⁱ From slope-area measurement of peak flow.

^a From floodmark.

