



## Water-Data Report 2008

### 08146000 San Saba River at San Saba, TX

Middle Colorado-Concho Basin  
San Saba Subbasin

LOCATION.--Lat 31°12'47", long 98°43'09" referenced to North American Datum of 1927, San Saba County, TX, Hydrologic Unit 12090109, on left bank near left downstream end of bridge on State Highway 16, 1.2 mi north of San Saba, 2.7 mi upstream from Mill Creek, 4.8 mi downstream from China Creek, and 16.8 mi upstream from mouth.

DRAINAGE AREA.--3,046 mi<sup>2</sup> of which 7 mi<sup>2</sup> probably is noncontributing.

#### SURFACE-WATER RECORDS

PERIOD OF RECORD.--Dec. 1904 to Dec. 1906 (gage heights only), Sept. 1915 to Sept. 1993, and Oct. 1997 to current year. Published as "near San Saba" Dec. 1904 to Dec. 1906 and Sept. 1915 to Aug. 1930.

PERIOD OF RECORD.--Water-Quality--

CHEMICAL DATA: Sept. 1947 to Feb. 1949, Nov. 1958 to Sept. 1969.

BIOCHEMICAL DATA: Sept. 1962 to Sept. 1969.

SEDIMENT DATA: Sept. 1964.

WATER TEMPERATURE: Sept. 1962 to Sept. 1969.

REVISED RECORDS.--WSP 458: 1915-16. WSP 1512: 1918-19(M), 1922, 1931(M), 1935. WSP 1922: 1917. WDR TX-81-3: Drainage area. WDR TX-00-4: 1992.

GAGE.--Water-stage recorder. Datum of gage is 1,162.16 ft above NGVD of 1929. See WSP 1922 for brief history of changes prior to July 8, 1953. From Oct. 1956 to Sept. 1993, at site 250 ft to right and supplementary water-stage recorder 2,780 ft to right of main channel gage used for floodflows at same 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, computes and publishes streamflow record.

REMARKS.--Records good. Since water year 1963, at least 10% of contributing drainage area has been regulated. Many diversions above station for irrigation and municipal use affect low flows. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--47 years (water years 1916-1962) prior to completion of Brady Creek Reservoir, 248 ft<sup>3</sup>/s (179,900 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1899, reached a stage of 36.7 ft, present site and datum, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1916-1962: Maximum discharge, 203,000 ft<sup>3</sup>/s, July 23, 1938, gage height, 39.30 ft, from floodmarks, at site then in use, adjusted to present datum, from rating curve extended above 40,600 ft<sup>3</sup>/s on basis of slope-area measurement of 203,000 ft<sup>3</sup>/s; no flow at times in 1918, 1930, 1954-56.

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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	162	135	149	120	119	106	112	142	76	43	32	51
2	158	132	147	120	117	107	104	125	72	42	32	44
3	155	132	143	120	115	115	106	110	68	40	32	42
4	155	134	139	120	121	122	114	99	64	40	33	42
5	151	136	141	122	122	117	120	92	59	40	33	39
6	151	131	134	123	119	115	121	90	53	40	37	37
7	149	127	132	124	115	111	112	91	50	39	42	37
8	150	126	134	125	113	112	108	89	51	46	37	39
9	154	130	136	121	114	112	109	85	48	52	32	42
10	155	130	135	122	114	126	123	84	48	54	33	45
11	150	131	135	119	115	153	125	80	45	51	33	48
12	153	131	137	119	119	137	113	75	43	48	33	47
13	147	130	141	120	115	133	105	74	40	48	32	47
14	146	130	139	119	113	127	100	212	41	43	28	44
15	142	128	134	120	113	117	100	1,270	42	40	31	41
16	143	124	132	122	116	111	98	845	39	36	30	37
17	145	123	129	123	117	111	97	369	35	36	40	38
18	144	126	128	124	114	121	111	253	35	36	44	41
19	141	130	127	123	114	131	103	199	32	34	50	40
20	140	130	127	124	114	129	96	169	39	34	62	39
21	141	128	126	124	115	146	95	151	45	34	51	39
22	142	126	124	127	113	155	94	138	42	28	48	38
23	145	124	123	127	109	142	92	126	40	27	58	38
24	140	133	120	128	107	134	91	118	40	28	61	40
25	138	164	121	131	108	128	89	111	37	30	54	39
26	137	182	122	132	108	121	86	100	35	34	50	41
27	139	171	121	129	103	118	190	94	38	34	48	41
28	134	162	120	128	103	114	417	88	39	33	44	41
29	133	160	120	130	104	111	296	83	39	32	40	39
30	134	153	122	128	---	111	184	79	41	30	40	35
31	137	---	121	124	---	117	---	77	---	30	46	---
<b>Total</b>	4,511	4,099	4,059	3,838	3,289	3,810	3,811	5,718	1,376	1,182	1,266	1,231
<b>Mean</b>	146	137	131	124	113	123	127	184	45.9	38.1	40.8	41.0
<b>Max</b>	162	182	149	132	122	155	417	1,270	76	54	62	51
<b>Min</b>	133	123	120	119	103	106	86	74	32	27	28	35
<b>Ac-ft</b>	8,950	8,130	8,050	7,610	6,520	7,560	7,560	11,340	2,730	2,340	2,510	2,440

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2008<sup>bz</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	197	188	147	150	168	159	150	198	187	157	158	272
<b>Max</b>	1,716	2,290	935	896	1,542	635	777	1,195	978	1,201	1,768	2,144
(WY)	(1974)	(2001)	(1992)	(1968)	(1992)	(1992)	(1977)	(1965)	(2007)	(1971)	(1971)	(1974)
<b>Min</b>	17.6	32.7	47.8	46.1	44.9	34.7	23.4	10.3	5.31	0.32	9.43	11.1
(WY)	(1964)	(2000)	(1964)	(1964)	(1984)	(1986)	(1986)	(1984)	(1984)	(1964)	(1980)	(1984)

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**SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>		<b>Water Years 1963 - 2008<sup>h</sup></b>	
<b>Annual total</b>	116,308	38,190			
<b>Annual mean</b>	319	104		177	
<b>Highest annual mean</b>				493	1974
<b>Lowest annual mean</b>				29.2	1984
<b>Highest daily mean</b>	5,530	Jun 29	1,270	May 15	32,700 Nov 4, 2000
<b>Lowest daily mean</b>	41	Mar 2	27	Jul 23	0.00 Jul 17, 1963
<b>Annual seven-day minimum</b>	44	Feb 28	31	Jul 22	0.00 Jul 25, 1963
<b>Maximum peak flow</b>			1,400	May 15	46,200 Nov 4, 2000
<b>Maximum peak stage</b>			7.25	May 15	29.94 Sep 18, 1990
<b>Annual runoff (ac-ft)</b>	230,700		75,750		128,500
<b>10 percent exceeds</b>	587		146		266
<b>50 percent exceeds</b>	146		114		88
<b>90 percent exceeds</b>	59		37		28

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

<sup>z</sup> Period of regulated streamflow.

