

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 mi² of which 7 mi² 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.

PERIOD OF DAILY RECORD, Water-Quality.--

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, supplements low-flow measurements, and computes and publishes the streamflow record.

REMARKS.--Records fair. 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 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 ft³/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 ft³/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 ft³/s on basis of slope-area measurement of 203,000 ft³/s; no flow at times in 1918, 1930, 1954-56.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	52	32	33	35	38	33	34	21	67	19	13	13
2	41	33	34	35	37	33	32	24	57	21	13	15
3	37	34	34	35	35	35	42	26	51	16	13	16
4	36	36	34	35	35	37	43	27	49	17	14	17
5	38	34	34	32	36	36	40	28	44	21	15	12
6	40	34	35	29	35	36	39	27	40	28	16	11
7	41	35	34	33	35	39	40	24	40	27	13	11
8	39	31	35	38	34	37	41	21	38	24	9.4	13
9	39	31	34	59	34	38	37	22	43	24	8.4	13
10	39	32	34	67	38	43	33	59	47	15	8.7	13
11	40	32	35	66	39	49	34	84	37	8.6	9.4	12
12	40	31	34	65	39	49	32	39	35	7.4	9.5	11
13	40	30	36	58	39	46	33	47	35	9.8	7.3	11
14	40	30	33	51	37	43	31	38	33	12	5.3	10
15	38	31	32	51	37	43	28	31	33	98	6.6	12
16	41	31	31	50	36	39	27	696	34	97	38	13
17	71	32	33	49	38	34	25	97	36	74	29	14
18	66	33	33	47	39	31	25	52	32	65	22	14
19	55	32	31	45	39	31	27	48	30	57	19	13
20	47	30	31	44	37	32	29	49	30	48	14	22
21	42	28	29	43	42	29	29	42	26	49	13	50
22	40	28	28	41	44	32	29	38	21	50	14	1,780
23	39	28	30	41	40	32	28	36	20	49	13	902
24	35	30	29	41	39	33	26	36	24	44	13	410
25	35	29	32	41	38	32	26	540	25	38	13	245
26	35	29	32	41	40	31	26	628	19	39	14	161
27	33	29	31	40	40	32	27	287	19	33	15	114
28	30	29	31	42	36	32	24	171	16	31	16	90
29	31	29	33	44	---	31	22	114	14	29	16	100
30	31	32	34	45	---	32	22	87	16	25	13	87
31	32	---	34	41	---	33	---	75	---	18	12	---
Total	1,263	935	1,013	1,384	1,056	1,113	931	3,514	1,011	1,093.8	435.6	4,205
Mean	40.7	31.2	32.7	44.6	37.7	35.9	31.0	113	33.7	35.3	14.1	140
Max	71	36	36	67	44	49	43	696	67	98	38	1,780
Min	30	28	28	29	34	29	22	21	14	7.4	5.3	10
Ac-ft	2,510	1,850	2,010	2,750	2,090	2,210	1,850	6,970	2,010	2,170	864	8,340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2013^{h2}, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	183	174	138	143	165	153	148	191	172	145	144	251
Max	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)
Min	17.6	31.2	32.7	44.6	37.7	34.7	23.4	10.3	5.31	0.32	7.55	8.74
(WY)	(1964)	(2013)	(2013)	(2013)	(2013)	(1986)	(1986)	(1984)	(1984)	(1964)	(2011)	(2011)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1963 - 2013 ^{h,z}	
Annual total	27,106		17,954.4			
Annual mean	74.1		49.2		167	
Highest annual mean					493	1974
Lowest annual mean					29.2	1984
Highest daily mean	1,150	Feb 19	1,780	Sep 22	32,700	Nov 4, 2000
Lowest daily mean	16	Aug 8	5.3	Aug 14	0.00	Jul 17, 1963
Annual seven-day minimum	18	Aug 7	7.9	Aug 9	0.00	Jul 25, 1963
Maximum peak flow			2,960	Sep 22	46,200	Nov 4, 2000
Maximum peak stage			11.29	Sep 22	29.94	Sep 18, 1990
Annual runoff (ac-ft)	53,760		35,610		121,000	
10 percent exceeds	142		52		256	
50 percent exceeds	44		34		83	
90 percent exceeds	24		14		26	

^h See Period of Record paragraph.

^z Period of regulated streamflow.

