



Water-Data Report 2008

08144600 San Saba River near Brady, TX

Middle Colorado-Concho Basin
San Saba Subbasin

LOCATION.--Lat 31°00'14", long 99°16'07" referenced to North American Datum of 1927, McCulloch County, TX, Hydrologic Unit 12090109, on right bank at downstream side of bridge on U.S. Highways 87 and 377, 0.4 mi upstream from Hudson Branch, 8.4 mi southeast of Brady, and 72.9 mi upstream from mouth.

DRAINAGE AREA.--1,633 mi² of which 7 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1979 to Sept. 1993, Oct. 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,530.98 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 fair, except those for estimated daily discharges, which are poor. No known regulation. Since about 1890, water diverted to Noyes Canal at Menard (discontinued station 08144000) during irrigation season.

EXTREMES OUTSIDE PERIOD OF RECORD.--Highest stage since June 1899, 33.8 ft, July 23, 1938, from floodmark on left bank 150 ft upstream from present site.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 525 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 27	1300	866	4.27
May 14	1215	*1,140	*4.67

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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	37	39	49	e47	48	43	51	50	19	11	5.9	18
2	39	38	e48	e48	50	45	51	41	17	12	4.7	16
3	39	41	e46	48	50	52	51	34	15	12	4.0	15
4	39	38	43	47	49	48	59	34	14	21	3.5	15
5	37	38	40	48	50	47	53	36	14	19	2.9	14
6	37	38	40	49	49	48	53	37	13	16	2.9	13
7	36	39	40	49	48	47	52	37	12	13	3.8	11
8	34	39	41	49	48	47	50	34	11	17	5.7	11
9	35	38	41	46	50	48	52	31	10	18	5.4	12
10	35	39	41	48	49	54	56	29	11	15	4.8	14
11	36	40	43	49	49	53	53	26	11	13	4.1	15
12	36	40	45	48	49	50	52	29	9.7	12	7.3	15
13	34	40	46	48	48	49	50	29	8.4	13	5.4	18
14	33	41	48	48	48	48	47	448	7.7	11	6.8	18
15	34	39	49	48	48	47	45	348	7.7	11	13	16
16	36	40	47	48	50	45	43	102	6.5	9.6	17	14
17	39	39	47	48	51	45	43	68	5.7	9.2	21	14
18	39	39	46	49	50	57	42	53	4.8	8.2	16	13
19	38	39	45	48	51	87	43	45	4.8	6.8	24	12
20	37	40	45	49	50	92	42	40	10	5.8	32	12
21	36	41	45	50	49	74	41	38	9.1	6.0	29	11
22	38	41	46	50	48	63	41	36	9.7	6.2	21	13
23	39	40	45	51	49	61	42	32	15	6.0	19	13
24	38	45	44	52	48	58	40	30	13	6.8	20	13
25	38	67	44	53	47	60	40	27	12	7.0	18	13
26	37	59	45	53	45	56	37	25	10	7.5	16	12
27	38	60	46	55	45	55	357	22	9.7	7.7	15	11
28	39	55	46	55	43	54	108	21	9.3	7.1	15	12
29	40	e52	46	54	41	53	58	23	9.1	7.4	16	13
30	40	e51	47	50	---	52	57	22	12	7.4	19	12
31	38	---	e46	49	---	52	---	21	---	6.9	21	---
Total	1,151	1,295	1,390	1,534	1,400	1,690	1,809	1,848	321.2	329.6	399.2	409
Mean	37.1	43.2	44.8	49.5	48.3	54.5	60.3	59.6	10.7	10.6	12.9	13.6
Max	40	67	49	55	51	92	357	448	19	21	32	18
Min	33	38	40	46	41	43	37	21	4.8	5.8	2.9	11
Ac-ft	2,280	2,570	2,760	3,040	2,780	3,350	3,590	3,670	637	654	792	811

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2008^b, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	53.9	117	72.0	58.7	64.1	57.8	48.0	65.1	84.8	61.3	45.1	139
Max	204	1,397	516	282	400	160	144	199	511	901	543	1,631
(WY)	(2003)	(2001)	(1985)	(1985)	(1992)	(1992)	(1992)	(2007)	(1987)	(1990)	(1990)	(1980)
Min	3.35	16.5	22.6	24.0	23.3	18.3	16.3	6.35	0.75	0.49	0.13	0.07
(WY)	(2000)	(2000)	(1986)	(2000)	(2000)	(2000)	(1986)	(1984)	(1984)	(1998)	(2000)	(1984)

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SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008		Water Years 1979 - 2008^h	
Annual total	31,201		13,576.0		
Annual mean	85.5		37.1		72.3
Highest annual mean				256	1990
Lowest annual mean				15.4	2000
Highest daily mean	2,070	Jun 29	448	May 14	23,900 Sep 8, 1980
Lowest daily mean	24	Feb 26	2.9	Aug 5	0.00 Sep 26, 1999
Annual seven-day minimum	27	Feb 25	3.9	Aug 2	0.00 Sep 26, 1999
Maximum peak flow			1,140	May 14	66,000 Sep 8, 1980
Maximum peak stage			4.67	May 14	25.50 Sep 8, 1980
Annual runoff (ac-ft)	61,890		26,930		52,350
10 percent exceeds	144		53		86
50 percent exceeds	45		39		36
90 percent exceeds	30		9.1		4.8

^h See Period of Record paragraph.

