Water-Data Report 2011

08198000 Sabinal River near Sabinal, TX

Nueces Basin
Upper Frio Subbasin

LOCATION.--Lat 29°29′27″, long 99°29′33″ referenced to North American Datum of 1927, Uvalde County, TX, Hydrologic Unit 12110106, on right bank 108 ft upstream from concrete dam, 2.3 mi downstream from mouth of Onion Creek, 12.5 mi north of Sabinal, and 41.9 mi upstream from mouth.

DRAINAGE AREA.--206 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1942 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Nov. 1964 to July 1965, Feb. 1970 to Sept. 1993, Apr. 1996 to Apr. 1998, June 2009.
BIOCHEMICAL DATA: Nov. 1964 to Oct. 1967, Feb. 1970 to Sept. 1993, Apr. 1996 to Apr. 1998, June 2009.
BIOLOGICAL DATA: Feb. 1970, Apr. 1973 to Sept. 1993, Aug. 1996. June 2009.
PESTICIDE DATA: Aug. 1971 to Aug. 1995.
RADIOCHEMICAL DATA: Apr. 1981, Aug. 1995, Nov. 1997, May 2003.
STABLE ISOTOPE DATA: Feb. 1998 to May 2003.
SEDIMENT DATA: Nov. 1965, Apr. 1996 to Apr. 1998.

REVISED RECORDS.--WSP 1312: 1943(M), 1944(M), 1947(M).

GAGE.--Water-stage recorder. Datum of gage is 1,131.20 ft above NGVD of 1929. Prior to Apr. 9, 1971, at site 0.3 mi downstream at same datum. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. There are several small diversions above station for irrigation. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--The maximum stage since at least 1892, about 33 ft July 2, 1932, from information by local residents. A flood in the middle 1800's reached a stage of nearly 63 ft. Information indicates that a flood in 1858 covered the townsite of Sabinal. The stage would have been 70 to 80 ft, which seems unlikely. However, it is possible that a flood occurred in 1858 that covered part of the townsite and was higher than any flood since that date.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	1130	*9.6	*4.75

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 08198000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/08198000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.3	4.8	4.4	4.7	5.8	4.7	4.0	1.7	0.01	0.00	0.00	0.00
2	8.1	5.0	4.3	4.7	5.5	4.7	4.0	1.4	0.00	0.00	0.00	0.00
3	7.8	5.2	4.4	4.0	5.4	4.7	3.8	1.5	0.00	0.00	0.00	0.00
4	7.8	4.8	4.5	4.1	5.5	4.7	3.6	1.4	0.00	0.00	0.00	0.00
5	7.8	4.8	4.6	4.2	5.8	4.7	3.5	1.3	0.00	0.00	0.00	0.00
6	8.0	5.0	4.6	4.3	5.8	4.6	3.4	1.1	0.00	0.00	0.00	0.00
7	8.0	5.4	4.6	4.2	5.7	4.9	3.2	1.0	0.00	0.00	0.00	0.00
8	8.0	5.2	4.5	4.2	5.5	5.1	3.1	0.86	0.00	0.00	0.00	0.00
9	8.1	5.0	4.6	6.5	5.4	5.1	3.0	0.81	0.00	0.00	0.00	0.00
10	7.9	5.0	4.6	6.3	5.2	5.0	3.0	0.77	0.00	0.00	0.00	0.00
11	8.0	5.0	4.3	4.8	5.2	4.8	2.9	0.80	0.00	0.00	0.00	0.00
12	8.2	4.9	4.3	4.6	5.3	4.8	2.8	1.3	0.00	0.00	0.00	0.00
13	8.2	4.7	4.2	4.5	5.4	5.0	2.6	0.93	0.00	0.00	0.00	0.00
14	7.6	4.3	4.1	4.5	5.4	4.8	2.5	1.1	0.00	0.00	0.00	0.00
15	7.3	4.3	4.3	5.2	5.6	5.4	2.4	1.6	0.00	0.00	0.00	0.00
16	7.3	4.4	4.4	6.1	5.6	4.7	2.5	1.8	0.00	0.00	0.00	0.00
17	7.2	4.3	4.4	5.8	5.7	4.6	2.4	1.8	0.00	0.00	0.00	0.00
18	7.2	3.9	4.4	5.2	5.6	4.5	2.2	1.7	0.00	0.00	0.00	0.00
19	7.3	4.0	4.4	5.0	5.5	4.5	2.2	1.6	0.00	0.00	0.00	0.00
20	7.6	3.9	4.4	4.9	5.5	4.4	2.1	1.4	0.00	0.00	0.00	0.00
21	6.9	4.1	4.5	4.8	5.4	4.4	2.1	1.3	0.00	0.00	0.00	0.00
22	6.8	4.0	4.5	4.8	5.3	4.5	2.1	1.2	0.00	0.00	0.00	0.00
23	6.8	3.9	4.5	4.8	5.3	4.5	2.0	1.1	0.00	0.00	0.00	0.00
24	7.0	3.6	4.8	4.9	5.4	4.4	1.7	0.95	0.00	0.00	0.00	0.00
25	6.8	3.5	5.4	5.0	5.2	4.3	1.6	0.80	0.00	0.00	0.00	0.00
26	6.0	4.8	5.0	4.9	5.0	4.2	1.8	0.71	0.00	0.00	0.00	0.00
27	5.7	4.3	4.6	5.0	5.1	4.4	1.9	0.58	0.00	0.00	0.00	0.00
28	5.5	4.0	4.5	5.0	4.9	4.3	2.2	0.49	0.00	0.00	0.00	0.00
29	5.3	4.0	4.8	5.1	---	4.2	2.1	0.32	0.00	0.00	0.00	0.00
30	5.0	4.3	5.2	5.3	---	4.2	1.9	0.22	0.00	0.00	0.00	0.00
31	4.8	---	5.0	5.5	---	4.2	---	0.09	---	0.00	0.00	---
Total	222.3	134.4	141.1	152.9	152.0	143.3	78.6	33.63	0.01	0.00	0.00	0.00
Mean	7.17	4.48	4.55	4.93	5.43	4.62	2.62	1.08	0.00	0.00	0.00	0.00
Max	8.3	5.4	5.4	6.5	5.8	5.4	4.0	1.8	0.01	0.00	0.00	0.00
Min	4.8	3.5	4.1	4.0	4.9	4.2	1.6	0.09	0.00	0.00	0.00	0.00
Ac-ft	441	267	280	303	301	284	156	67	0.02	0.00	0.00	0.00
Cfsm	0.03	0.02	0.02	0.02	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00
In.	0.04	0.02	0.03	0.03	0.03	0.03	0.01	0.01	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	63.8	56.2	49.5	44.6	50.0	57.3	59.1	67.3	114	103	55.6	50.8
Max	318	388	612	408	584	624	392	389	1,527	1,619	669	306
(WY)	(1972)	(2001)	(1992)	(1992)	(1992)	(1992)	(1992)	(1987)	(1987)	(2002)	(1971)	(1980)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1952)	(1952)	(1952)	(1952)	(1952)	(1952)	(1954)	(1953)	(1953)	(1953)	(1948)	(1951)

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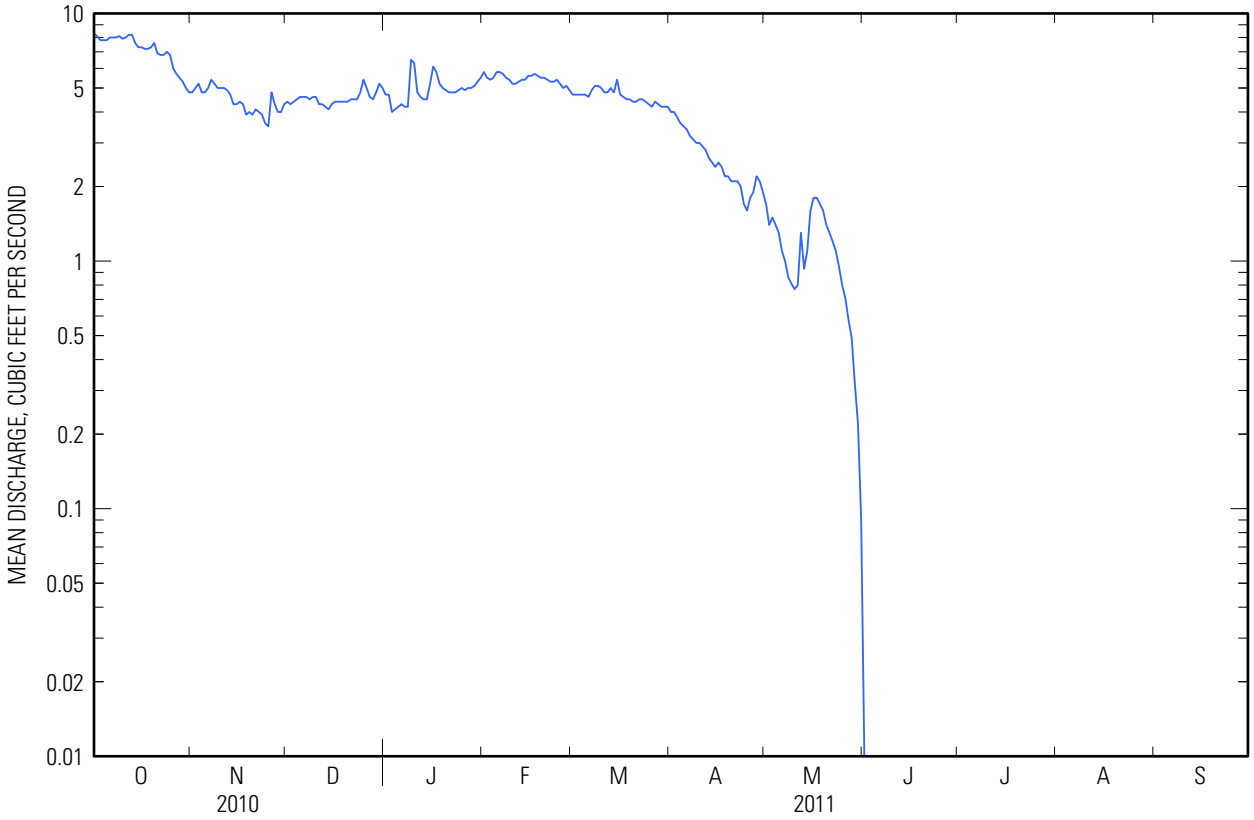
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1943 - 2011	
Annual total	14,856.3		1,058.24			
Annual mean	40.7		2.90		63.9	
Highest annual mean					340	1992
Lowest annual mean					0.82	1955
Highest daily mean	1,530	Apr 16	8.3	Oct 1	17,100	Jul 5, 2002
Lowest daily mean	1.4	Jan 24	0.00	Jun 2	0.00	Aug 10, 1946
Annual seven-day minimum	1.8	Jan 21	0.00	Jun 2	0.00	Aug 10, 1946
Maximum peak flow			9.6	Oct 1	[i]108,000	Jul 5, 2002
Maximum peak stage			4.77	Nov 26	[a]33.74	Jul 5, 2002
Annual runoff (ac-ft)	29,470		2,100		46,320	
Annual runoff (cfsm)	0.198		0.014		0.310	
Annual runoff (inches)	2.68		0.19		4.22	
10 percent exceeds	85		5.6		124	
50 percent exceeds	19		3.8		25	
90 percent exceeds	4.1		0.00		0.00	

[i] From indirect measurement of peak flow.
[a] From floodmark.