

**08031000 Cow Bayou near Mauriceville, TX**

Sabine Basin  
Lower Sabine Subbasin

LOCATION.--Lat 30°11'10", long 93°54'30" referenced to North American Datum of 1927, Orange County, TX, Hydrologic Unit 12010005, on left bank at downstream end of bridge on State Highway 12, 0.4 mi downstream from Kansas City Southern Railway Co. bridge, and 2.7 mi southwest of Mauriceville.

DRAINAGE AREA.--83.3 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Mar. 1952 to Sept. 1955 (daily mean discharge), Oct. 1956 to Sept. 1957 (daily mean discharge estimated from monthly discharge), Oct. 1957 to Sept. 1986 (daily mean discharge), Aug. 2002 to current year (daily mean discharge).

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Mar. 1952 to Dec. 1955.

BIOCHEMICAL DATA: July 1975.

SEDIMENT DATA: Dec. 1976 to Jan. 1979.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.27 ft below NGVD of 1929. March 10, 1952 to Oct. 23, 1957, nonrecording gage at present site and at datum 4.73 ft above NGVD of 1929 (from State Highway Department bridge plans). Oct. 23, 1957 to Sept. 7, 1984, recording gage at present site and at datum 4.73 ft above NGVD of 1929. Sept. 7, 1984 to Sept. 1986, datum of gage is 0.27 ft below NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. No significant diversions. Base flow is partly sustained by springs. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 16.51 ft on Feb. 2, 1952, from floodmarks (datum 4.73 ft above NGVD 1929). Flood in 1940 reached a stage of 14.8 ft (datum 4.73 ft above NGVD 1929), from Texas Highway Department bridge plans.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 5	1515	*307	*9.78

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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	0.09	0.17	0.20	4.1	23	0.51	0.58	0.24	0.15	0.05	0.00	0.06
2	0.10	9.8	0.21	3.2	18	0.42	0.45	0.49	0.15	0.05	0.00	0.08
3	0.10	1.8	0.19	2.9	11	0.37	0.40	0.87	0.15	0.05	0.00	0.14
4	0.11	0.45	0.19	2.6	11	0.39	0.39	0.35	0.20	0.05	0.00	0.34
5	0.12	0.22	0.19	112	9.1	154	0.36	0.25	0.25	0.06	0.00	0.15
6	0.12	0.20	0.21	23	7.3	127	0.31	0.22	0.09	0.06	0.00	0.08
7	0.13	0.28	0.21	9.9	7.4	66	0.30	0.21	0.01	0.06	0.00	0.06
8	0.13	0.35	0.21	5.8	6.0	46	0.27	0.20	0.00	0.05	0.00	0.06
9	0.14	0.37	0.21	11	6.3	56	0.26	0.19	0.00	0.05	0.00	0.06
10	0.14	0.46	0.21	13	11	54	0.22	0.19	0.00	0.05	0.00	0.06
11	0.15	0.57	0.22	6.9	8.0	39	0.21	0.19	0.00	0.05	0.00	0.05
12	0.49	0.57	0.24	4.7	6.2	26	0.22	0.20	0.00	0.05	0.00	0.06
13	1.3	0.52	0.25	3.7	4.8	18	0.19	9.4	0.00	0.05	0.00	0.06
14	0.38	0.43	0.24	3.1	3.9	17	0.29	1.9	0.00	0.04	0.00	0.06
15	0.21	0.86	0.24	2.7	3.0	27	0.21	0.63	0.00	0.04	0.00	0.07
16	0.20	0.65	0.24	4.8	2.7	20	0.18	0.28	0.00	0.03	0.00	0.06
17	0.22	0.37	0.21	12	2.3	14	0.15	0.20	0.00	0.02	0.00	0.07
18	0.22	0.22	0.18	8.3	2.1	11	0.18	0.18	0.01	0.02	0.00	0.06
19	0.20	0.17	0.19	5.1	1.7	8.5	0.17	0.17	0.01	46	0.00	0.06
20	0.20	0.13	0.20	4.2	1.5	6.2	0.18	0.17	0.02	9.2	0.01	0.05
21	0.21	0.15	0.19	3.7	2.6	4.5	0.17	0.17	0.17	0.42	0.01	0.06
22	0.21	0.18	0.19	3.1	2.4	3.7	0.18	0.16	1.1	0.04	0.01	0.06
23	0.27	0.18	0.20	2.5	1.5	3.5	0.17	0.15	31	0.03	0.01	0.05
24	0.28	0.18	0.21	6.6	1.2	1.8	0.17	0.15	3.5	0.02	0.01	0.05
25	0.29	0.17	0.26	38	1.1	2.0	0.17	0.16	0.06	0.03	0.01	0.06
26	0.25	0.21	0.32	17	0.80	1.2	11	0.16	0.02	0.05	0.02	0.06
27	0.22	0.20	0.28	11	0.65	1.0	3.9	0.15	0.02	0.07	0.02	0.06
28	0.21	0.19	0.25	7.6	0.65	0.89	0.60	0.15	0.03	0.01	0.02	0.07
29	0.20	0.20	37	5.5	---	0.74	0.27	0.16	0.03	0.00	0.03	0.10
30	0.18	0.19	66	7.2	---	0.87	0.21	0.16	0.05	0.00	0.04	0.17
31	0.17	---	7.2	11	---	0.82	---	0.15	---	0.00	0.05	---
<b>Total</b>	7.24	20.44	116.34	356.2	157.20	712.41	22.36	18.25	37.02	56.70	0.24	2.43
<b>Mean</b>	0.23	0.68	3.75	11.5	5.61	23.0	0.75	0.59	1.23	1.83	0.01	0.08
<b>Max</b>	1.3	9.8	66	112	23	154	11	9.4	31	46	0.05	0.34
<b>Min</b>	0.09	0.13	0.18	2.5	0.65	0.37	0.15	0.15	0.00	0.00	0.00	0.05
<b>Ac-ft</b>	14	41	231	707	312	1,410	44	36	73	112	0.5	4.8

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2011<sup>h</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	92.7	85.1	136	178	231	111	132	105	79.7	47.9	23.4	85.8
<b>Max</b>	1,226	689	581	879	961	373	841	536	532	320	293	816
<b>(WY)</b>	(2007)	(2003)	(2003)	(1961)	(1959)	(1957)	(1979)	(1953)	(1968)	(1959)	(1983)	(1963)
<b>Min</b>	0.00	0.00	0.14	5.68	5.25	3.00	0.26	0.04	0.09	0.00	0.01	0.00
<b>(WY)</b>	(1957)	(1956)	(1955)	(1970)	(1957)	(1954)	(1963)	(1978)	(1960)	(1956)	(2011)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1952 - 2011 <sup>h</sup>	
<b>Annual total</b>	21,199.61		1,506.83			
<b>Annual mean</b>	58.1		4.13		108	
<b>Highest annual mean</b>					261	2007
<b>Lowest annual mean</b>					4.13	2011
<b>Highest daily mean</b>	1,090	Feb 5	154	Mar 5	4,460	Sep 19, 1963
<b>Lowest daily mean</b>	0.02	Jun 27	0.00	Jun 8	0.00	Aug 15, 1952
<b>Annual seven-day minimum</b>	0.05	May 26	0.00	Jun 8	0.00	Sep 21, 1952
<b>Maximum peak flow</b>			307	Mar 5	4,600	Sep 19, 1963
<b>Maximum peak stage</b>			9.78	Mar 5	22.53	Oct 29, 2006
<b>Annual runoff (ac-ft)</b>	42,050		2,990		78,040	
<b>10 percent exceeds</b>	162		9.3		306	
<b>50 percent exceeds</b>	0.28		0.20		7.3	
<b>90 percent exceeds</b>	0.07		0.01		0.09	

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

