Water-Data Report 2012

08022500 Sabine River at Logansport, LA

Sabine Basin
Toledo Bend Reservoir Subbasin

LOCATION.--Lat 31°58′20″, long 94°00′22″ referenced to North American Datum of 1927, Shelby County, TX, Hydrologic Unit 12010004, on left bank just upstream from bridge on U.S. Highway 84, 3.0 mi upstream from Bayou Castor, 111 mi upstream from Toledo Bend Dam and at mile 267.1.

DRAINAGE AREA.--4,842 mi^2 of which 3 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1903 to Apr. 1968 (daily mean discharge), Mar. 1968 to current year (daily gage height).

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Apr. 1971 to July 1985.
BIOCHEMICAL DATA: Mar. 1973 to July 1985.
RADIOCHEMICAL DATA: Apr. 1979 to July 1981.
PESTICIDE DATA: Apr. 1971 to Oct. 1984.
SEDIMENT DATA: Oct. 1980 to July 1983.

PERIOD OF DAILY RECORD, Water-Quality.--
SPECIFIC CONDUCTANCE: 1939 to 1945.
WATER TEMPERATURE: 1939 to 1945.

REVISED RECORDS.--WSP 1312: 1903-06 (monthly and annual means). WSP 1732: 1929(M), 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 147.72 ft above NGVD of 1929. July 1, 1903, to Sept. 30, 1956, nonrecording gages located in the vicinity of present gage. Oct. 1, 1956, to Jan. 16, 1964, water-stage recorder 4,600 ft upstream. Jan. 16, 1964, to Dec. 10, 1968, water-stage recorder 4,700 ft upstream. All gages to present datum except prior to Dec. 31, 1906 when datum was 2.00 ft lower. Satellite telemeter at station.

REMARKS.--Records good. Station discontinued as a daily streamflow station on Mar. 1, 1968, due to backwater from storage in Toledo Bend Reservoir. Since water year 1961, at least 10% of contributing drainage area has been regulated. Flow may also be slightly affected at times by discharge from one floodwater-retarding structure. This structure controls runoff from 9.70 mi^2 in the Mill Creek drainage basin. Numerous diversions above station for oil field operations, municipal and industrial uses. 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.--57 years (water years 1904-1960), 3,325 ft^3/s (2,407,000 acre-ft/yr).

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--7 years (water years 1961-1967), 2,252 ft^3/s (1,632,000 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--
WATER YEARS, 1961-1967 (daily mean discharge): Maximum discharge, 46,800 ft^3/s May 6, 1966, gage height, 38.46 ft; minimum, 25 ft^3/s, Aug. 13, 1964. WATER YEARS, 1968 to current year (daily gage height): Maximum gage height, 34.78 ft, Apr. 16, 1991; minimum since initial filling of Toledo Bend Reservoir in June 1968, 16.85 ft, Nov. 9, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1884 reached a stage of 39.4 ft at present site and datum. Stage determined from high-water mark.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS, 1904-1960: Maximum discharge, 92,000 ft^3/s Apr. 8, 1945, gage height, 44.07 ft, from floodmark; minimum, 16 ft^3/s, Sept. 26-28, Oct. 3, 4, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.36 ft, Mar. 22; minimum gage height 11.60 ft, Oct. 19.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08022500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08022500.2012.pdf

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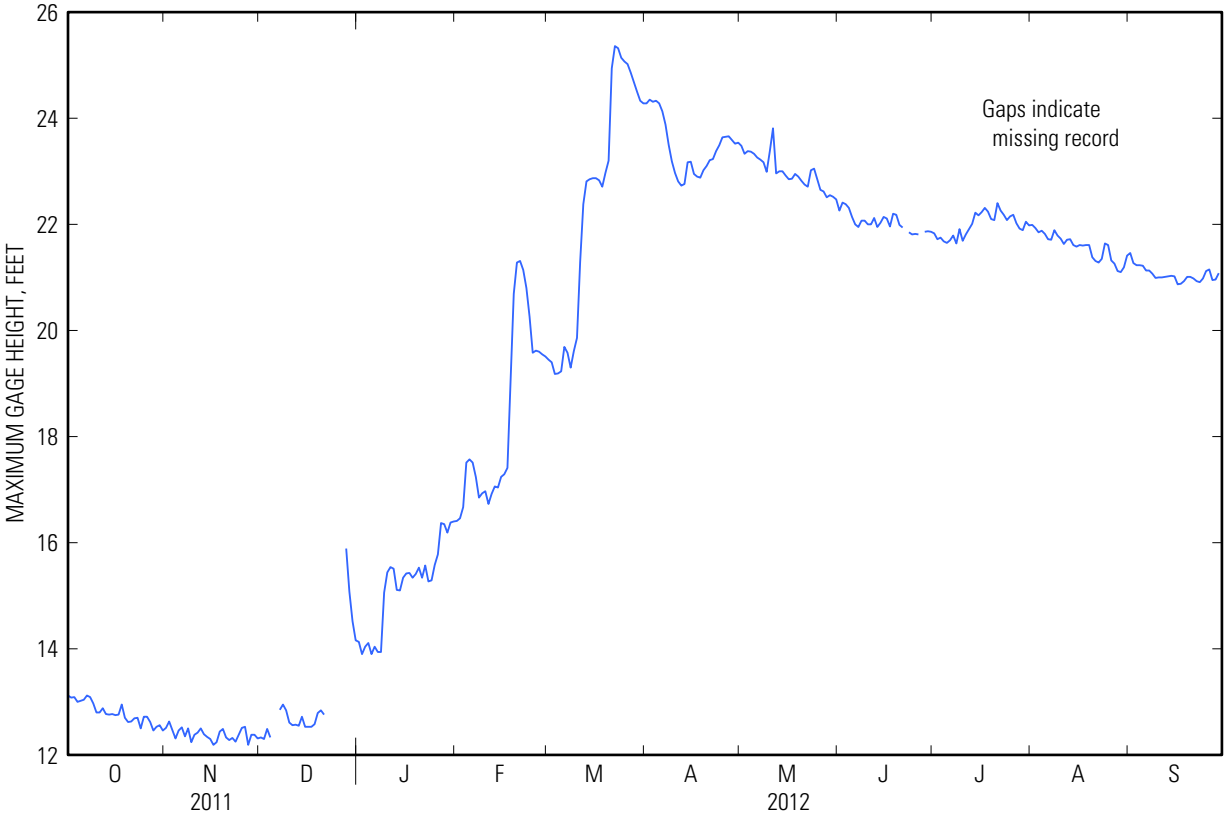
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MAXIMUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13.12	12.51	12.33	14.13	16.41	19.45	24.28	23.48	22.26	21.83	21.99	21.46
2	13.08	12.63	12.30	13.90	16.46	19.40	24.35	23.33	22.41	21.72	21.93	21.27
3	13.09	12.47	12.49	14.04	16.67	19.18	24.31	23.38	22.38	21.75	21.85	21.23
4	13.00	12.31	12.33	14.11	17.51	19.19	24.33	23.37	22.31	21.68	21.88	21.23
5	13.02	12.46	---	13.90	17.57	19.23	24.28	23.33	22.14	21.65	21.82	21.22
6	13.04	12.52	---	14.04	17.51	19.69	24.13	23.26	22.00	21.70	21.72	21.13
7	13.12	12.35	12.85	13.94	17.24	19.58	23.88	23.22	21.95	21.79	21.71	21.13
8	13.09	12.50	12.95	13.94	16.85	19.30	23.50	23.17	22.07	21.64	21.89	21.07
9	12.97	12.24	12.84	15.06	16.93	19.61	23.19	22.99	22.07	21.91	21.79	20.99
10	12.80	12.38	12.61	15.44	16.97	19.86	22.97	23.38	22.00	21.69	21.73	21.00
11	12.80	12.42	12.56	15.54	16.73	21.29	22.81	23.81	22.00	21.81	21.63	21.00
12	12.88	12.50	12.57	15.51	16.92	22.38	22.73	22.96	22.12	21.91	21.71	21.01
13	12.77	12.39	12.55	15.11	17.06	22.81	22.76	23.00	21.95	22.01	21.72	21.02
14	12.76	12.34	12.72	15.10	17.04	22.85	23.17	23.00	22.03	22.22	21.61	21.03
15	12.77	12.30	12.53	15.34	17.24	22.87	23.18	22.92	22.14	22.17	21.58	21.02
16	12.75	12.19	12.53	15.42	17.29	22.87	22.95	22.85	22.11	22.23	21.61	20.87
17	12.76	12.24	12.53	15.43	17.41	22.83	22.90	22.86	21.96	22.31	21.60	20.88
18	12.95	12.44	12.58	15.34	19.06	22.71	22.88	22.95	22.20	22.24	21.61	20.93
19	12.70	12.49	12.79	15.41	20.69	22.97	23.02	22.90	22.18	22.10	21.61	21.01
20	12.62	12.33	12.84	15.53	21.28	23.20	23.10	22.82	21.99	22.08	21.38	21.01
21	12.63	12.28	12.76	15.34	21.31	24.94	23.21	22.75	21.94	22.40	21.31	20.98
22	12.69	12.32	---	15.57	21.14	25.36	23.23	22.71	---	22.26	21.28	20.93
23	12.70	12.25	---	15.27	20.80	25.32	23.38	23.02	21.85	22.18	21.35	20.91
24	12.50	12.38	---	15.29	20.26	25.14	23.49	23.05	21.81	22.08	21.64	20.98
25	12.72	12.51	---	15.58	19.58	25.07	23.64	22.85	21.82	22.15	21.61	21.12
26	12.72	12.53	---	15.78	19.62	25.02	23.65	22.65	21.81	22.18	21.32	21.15
27	12.62	12.19	---	16.37	19.60	24.86	23.66	22.62	---	22.02	21.26	20.95
28	12.46	12.38	15.89	16.35	19.55	24.68	23.59	22.51	21.86	21.92	21.12	20.96
29	12.53	12.38	15.08	16.19	19.51	24.50	23.52	22.55	21.87	21.89	21.10	21.08
30	12.56	12.31	14.52	16.38	---	24.33	23.54	22.52	21.86	22.05	21.19	---
31	12.46	---	14.16	16.40	---	24.28	---	22.47	---	21.98	21.41	---
Max	13.12	12.63	---	16.40	21.31	25.36	24.35	23.81	---	22.40	21.99	---

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