Water-Data Report 2007

08026000 Sabine River near Burkeville, TX

Sabine Basin
Lower Sabine Subbasin

LOCATION.--Lat 31°03′50″, long 93°31′10″ referenced to North American Datum of 1927, Newton County, TX, Hydrologic Unit 12010005, near left edge of low-water channel on downstream side of bridge on State Highway 63, about 200 ft downstream from Pearl Creek, 10 mi northeast of Burkeville, 16 mi downstream from Bayou Toro and at mile 139.7.

DRAINAGE AREA.--7,482 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Sept. 1955 to current year. Published as "below Toledo Bend near Burkeville" for period 1955-75. Water-quality records: Chemical data: May 1968 to Sept. 1986. Biochemical data: May 1968 to Sept. 1986. Pesticide data: Oct. 1972 to Sept. 1981.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 60.59 ft above NGVD of 1929. Prior to Aug. 23, 1958, nonrecording gage at current site. Prior to Jan. 1, 1989, at present site at datum 10.00 ft higher. Satellite telemeter at station.

REMARKS.--Records good, except those for estimated daily discharge which are poor. Since water year 1961, at least 10% of contributing drainage area has been regulated.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1956-1960) 5,180 ft^3/s (3,749,000 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1860: Flood in May 1884 reached a stage of 45.9 ft, current datum, from information by local resident. Flood of Apr. 15, 1945, reached a stage of 45.8 ft, current datum. Flood of May 23, 1953, reached a stage of 45.3 ft, current datum, from floodmarks.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1956-1960: Maximum discharge, 52,900 ft^3/s, May 15, 1957, gage height, 32.43 ft; minimum, 60 ft^3/s, Sept. 26-30, 1956.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	213	663	1,680	8,710	15,500	3,750	1,050	621	3,740	1,660	19,100	3,850
2	580	579	441	2,920	15,600	2,410	1,160	1,560	4,180	2,470	19,100	1,880
3	701	540	301	1,210	15,200	828	796	3,110	2,240	4,330	18,300	379
4	525	513	1,040	1,350	15,000	587	578	3,770	2,050	2,200	14,200	2,290
5	758	505	442	2,930	15,100	565	501	3,150	4,050	2,540	13,500	3,780
6	644	580	1,120	2,320	14,300	549	502	3,420	3,980	4,530	13,200	4,250
7	630	1,190	442	1,540	14,200	539	464	4,810	3,880	3,740	5,790	9,080
8	e200	e1,220	1,060	1,000	14,200	531	458	2,700	3,860	3,960	5,090	9,550
9	e550	e650	435	2,440	14,200	522	447	2,500	3,330	4,780	5,020	4,570
10	724	545	315	6,630	14,300	516	452	3,280	1,680	12,600	4,960	5,530
11	654	473	1,100	6,170	14,300	504	431	3,320	1,820	13,300	4,080	9,500
12	1,060	439	805	1,360	14,400	506	416	2,790	3,810	13,300	1,900	9,650
13	e1,200	417	648	668	16,500	519	394	1,470	3,910	13,300	2,960	9,840
14	622	406	488	1,070	16,200	645	604	1,580	3,910	13,300	4,840	9,860
15	215	378	419	8,550	13,700	822	1,240	3,180	3,850	13,800	4,870	9,840
16	946	356	378	14,800	8,000	727	861	3,220	3,090	14,400	4,980	4,670
17	e6,000	355	361	15,000	7,330	629	595	3,170	1,550	18,100	4,970	5,740
18	e18,000	351	346	14,400	7,310	554	547	3,190	1,650	18,800	4,130	9,370
19	11,500	345	835	14,200	7,280	513	490	2,700	2,950	18,900	1,870	9,790
20	7,090	335	529	14,200	7,290	499	447	1,430	3,000	18,900	2,960	9,860
21	3,590	332	371	14,800	6,190	486	416	1,560	2,330	18,900	4,860	9,880
22	1,940	668	491	15,100	2,850	481	398	3,030	2,450	18,800	4,460	6,970
23	941	1,410	503	14,600	3,910	472	387	3,130	2,390	18,900	4,240	2,410
24	734	355	502	14,100	3,910	467	371	3,240	1,300	18,800	3,880	4,400
25	632	328	890	14,300	3,750	464	543	3,200	1,680	18,800	3,490	9,570
26	1,980	323	1,100	14,800	3,920	457	785	2,660	3,260	18,900	1,770	9,900
27	5,390	569	851	14,900	3,990	493	525	1,410	3,310	18,900	2,350	8,740
28	3,470	954	599	15,200	3,910	652	454	420	3,160	19,100	3,800	9,850
29	2,080	590	572	15,500	---	548	405	1,540	3,190	19,400	3,840	9,330
30	987	965	15,300	15,500	---	491	369	3,230	2,880	19,600	3,810	4,640
31	775	---	16,200	15,400	---	506	---	3,300	---	19,300	3,860	---
Total	75,331	17,334	50,564	285,668	292,340	22,232	17,086	81,691	88,480	408,310	196,180	208,969
Mean	2,430	578	1,631	9,215	10,440	717	570	2,635	2,949	13,170	6,328	6,966
Max	18,000	1,410	16,200	15,500	16,500	3,750	1,240	4,810	4,180	19,600	19,100	9,900
Min	200	323	301	668	2,850	457	369	420	1,300	1,660	1,770	379
Ac-ft	149,400	34,380	100,300	566,600	579,900	44,100	33,890	162,000	175,500	809,900	389,100	414,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2007 [Z], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,238	2,115	5,595	8,266	9,339	10,250	7,723	7,430	5,157	4,280	3,236	2,960
Max	6,846	12,880	17,990	28,510	27,320	45,040	26,530	32,070	25,310	23,750	6,662	11,660
(WY)	(1992)	(1995)	(1962)	(1974)	(1999)	(2001)	(1969)	(1966)	(1989)	(1989)	(1976)	(2001)
Min	82.5	86.2	247	484	266	485	231	471	400	166	91.7	77.6
(WY)	(1968)	(1968)	(1968)	(1968)	(1968)	(1968)	(1971)	(1967)	(1970)	(1964)	(1967)	(1967)

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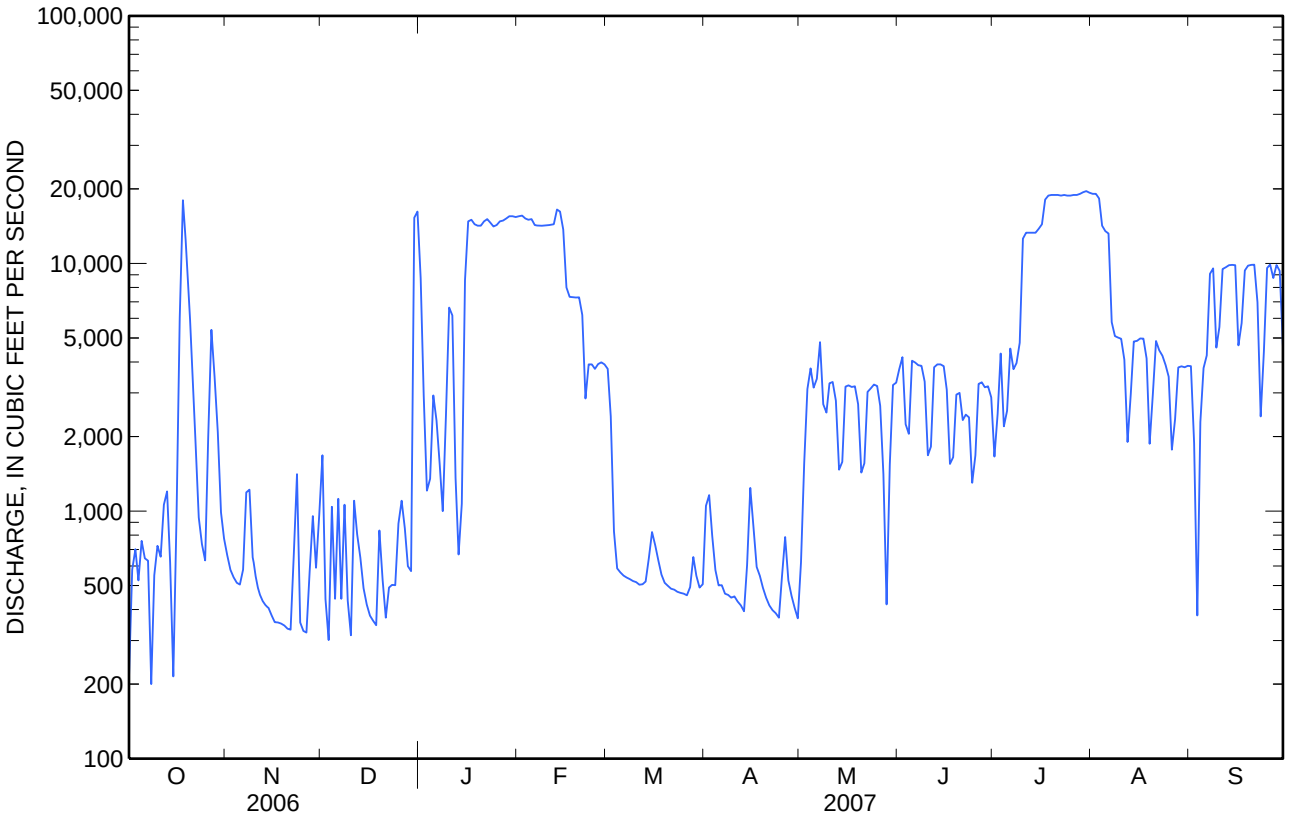
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1961 - 2007 [Z]	
Annual total	700,794		1,744,185			
Annual mean	1,920		4,779		5,617	
Highest annual mean					11,190	1995
Lowest annual mean					548	1967
Highest daily mean	18,000	Oct 18	19,600	Jul 30	117,000	Feb 1, 1999
Lowest daily mean	200	Oct 8	200	Oct 8	38	Sep 14, 1967
Annual seven-day minimum	350	Nov 15	350	Nov 15	41	Sep 9, 1967
Maximum peak flow			19,700	Jul 30	124,000	Feb 1, 1999
Maximum peak stage			28.33	Jul 30	48.05	Feb 1, 1999
Annual runoff (ac-ft)	1,390,000		3,460,000		4,069,000	
10 percent exceeds	4,790		14,800		15,300	
50 percent exceeds	922		2,470		2,750	
90 percent exceeds	354		442		287	

[Z] Period of regulated streamflow.