08020000 Sabine River near Gladewater, TX

Sabine River Basin

LOCATION.--Lat 32°31′37″, long 94°57′36″ referenced to North American Datum of 1927, Gregg County, Hydrologic Unit 12010002, on right bank 46 ft downstream from bridge on U.S. Highway 271, 0.4 mi downstream from Glade Creek, 1.2 mi southwest of Gladewater, and at mile 397.5.

DRAINAGE AREA.--2,791 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1932 to current year.

REVISED RECORDS.--WSP 1732: Drainage area. WRD TX-73-1: 1972.

GAGE.--Water-stage recorder. Datum of gage is 243.85 ft above NGVD of 1929. Prior to Oct. 13, 1933, nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for Jan. 21 to Feb. 21 and May 27 to Aug. 10, which are fair, and Apr. 20 to May 11 and estimated daily discharges, which are poor. Since water year 1961, at least 10% of contributing drainage area has been regulated. There are many diversions above station for oil field operations and municipal supply.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--28 years (water years 1933-1960) prior to regulation by Lake Tawakoni, 2,012 ft^3/s (1,458,000 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1914 reached a stage of about 41.7 ft (discharge, 85,900 ft^3/s), from information by local resident.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS, 1933-1960: Maximum discharge, 138,000 ft^3/s, Apr. 2, 1945, gage height, 44.16 ft, from floodmark, from rating curve extended above 91,000 ft^3/s; minimum, 5.6 ft^3/s, Aug. 16, 1939.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	53	412	2,770	454	988	3,110	1,660	e131	234	102	39	73
2	56	563	2,300	442	1,200	3,010	1,440	e131	189	116	37	52
3	55	618	1,710	471	1,440	2,190	1,110	e112	166	120	37	42
4	117	640	1,400	496	1,520	1,400	892	106	146	121	37	36
5	143	649	1,180	571	1,520	1,030	867	e140	147	129	47	33
6	290	598	1,000	1,030	1,480	860	728	e137	163	122	45	30
7	521	488	1,090	1,630	2,780	765	578	e120	166	116	40	29
8	456	368	1,220	2,180	3,390	706	484	e111	163	116	39	28
9	410	273	1,350	2,430	3,000	658	410	e109	161	117	43	27
10	404	206	1,390	2,550	2,270	623	395	e149	148	116	43	27
11	371	161	1,330	2,650	1,740	629	490	e190	135	114	48	27
12	413	131	1,210	2,740	1,500	626	466	e181	129	116	45	28
13	534	116	1,090	3,040	1,390	618	388	e162	123	120	42	27
14	483	103	996	3,270	1,260	571	600	148	132	136	42	28
15	364	95	889	3,330	1,110	514	1,030	131	146	144	45	27
16	267	88	770	3,360	1,010	475	1,160	117	161	232	43	33
17	202	133	786	3,420	920	480	884	105	155	227	41	31
18	160	282	780	3,500	833	525	558	96	139	204	38	30
19	132	512	645	3,500	763	473	366	88	126	147	38	30
20	120	891	522	3,330	764	460	e278	82	120	129	37	31
21	121	1,240	455	2,940	740	467	e225	78	115	119	36	31
22	118	1,390	466	2,410	704	506	e206	89	113	104	34	30
23	116	1,310	622	2,040	820	525	e187	87	110	96	35	29
24	141	1,150	742	1,740	1,420	491	e161	78	111	77	34	59
25	179	1,380	806	1,520	1,890	451	e142	e81	115	66	38	62
26	177	1,760	952	1,430	2,270	453	e133	e113	108	58	37	92
27	173	2,040	986	1,330	2,580	569	163	137	104	50	35	162
28	176	2,260	866	1,160	2,880	721	e222	142	104	46	35	175
29	190	2,390	675	1,020	---	1,090	193	133	102	42	59	142
30	226	2,630	550	957	---	1,450	148	130	101	41	106	120
31	281	---	484	953	---	1,640	---	180	---	41	103	---
Total	7,449	24,877	32,032	61,894	44,182	28,086	16,564	3,794	4,132	3,484	1,378	1,571
Mean	240	829	1,033	1,997	1,578	906	552	122	138	112	44.5	52.4
Max	534	2,630	2,770	3,500	3,390	3,110	1,660	190	234	232	106	175
Min	53	88	455	442	704	451	133	78	101	41	34	27
Ac-ft	14,780	49,340	63,540	122,800	87,640	55,710	32,850	7,530	8,200	6,910	2,730	3,120

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 – 2005[2], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	489	1,233	2,563	2,249	2,748	3,519	2,709	3,590	1,785	658	195	278
Max	3,361	7,839	10,580	8,791	9,664	15,080	9,644	17,100	6,745	4,261	1,291	2,566
(WY)	(1974)	(1975)	(1972)	(2001)	(1975)	(2001)	(1990)	(1966)	(1973)	(1994)	(1992)	(1974)
Min	29.4	86.9	101	199	174	204	241	122	49.0	17.9	18.1	27.0
(WY)	(1964)	(1964)	(1966)	(1964)	(1996)	(1996)	(1971)	(2005)	(1971)	(1964)	(1964)	(1985)

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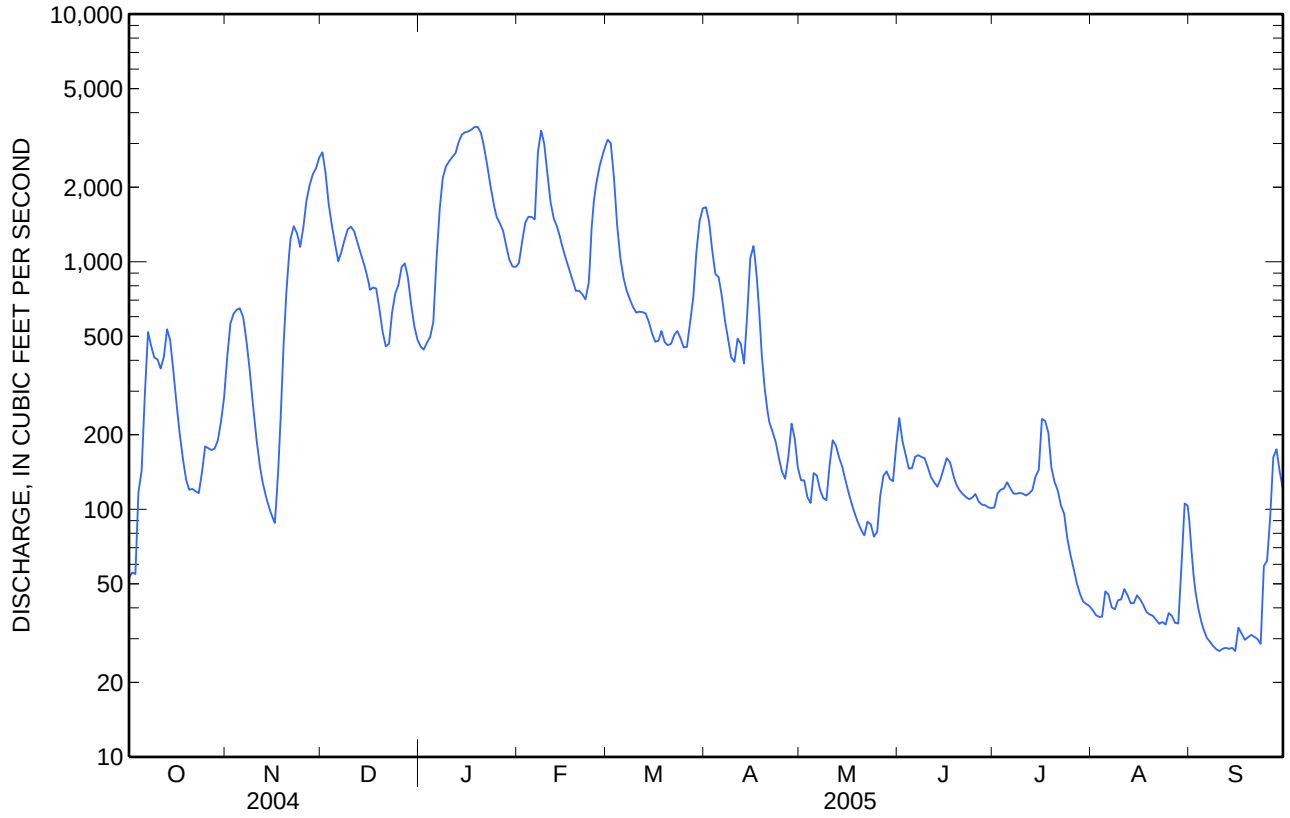
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1961 – 2005[z]	
Annual total	261,204		229,443			
Annual mean	714		629		1,831	
Highest annual mean					3,831	1992
Lowest annual mean					209	1996
Highest daily mean	4,110	May 9	3,500	Jan 18	51,000	May 22, 1989
Lowest daily mean	53	Oct 1	27	Sep 9	7.4	Jul 20, 1971
Annual seven-day minimum	65	Sep 27	27	Sep 9	9.5	Jul 16, 1971
Maximum peak flow			3,540	Jan 18	52,300	May 22, 1989
Maximum peak stage			18.47	Jan 18	38.98	Apr 30, 1966
Annual runoff (ac-ft)	518,100		455,100		1,327,000	
10 percent exceeds	1,760		1,720		5,370	
50 percent exceeds	394		206		528	
90 percent exceeds	91		40		65	

[z] Period of regulated streamflow.