Water-Data Report 2011

08019000 Lake Fork Creek near Quitman, TX

Sabine Basin
Lake Fork Subbasin

LOCATION.--Lat 32°45′47″, long 95°27′46″ referenced to North American Datum of 1927, Wood County, TX, Hydrologic Unit 12010003, at downstream side of highway embankment near left end of bridge on State Highway 37, 6.0 mi downstream from Lake Fork Reservoir, 0.3 mi downstream from Dry Creek, 2.4 mi south of Quitman, and 23.4 mi upstream from mouth.

DRAINAGE AREA.--585 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1924 to Apr. 1926, Feb. 1939 to current year. Discharge from some high-water periods in 1925-26 published in WSP 1342. Monthly discharge only for some periods, published in WSP 1312. Prior to Oct. 1961, published as "Lake Fork Sabine River near Quitman".

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Dec. 1961 to Aug. 1989.
BIOCHEMICAL DATA: Dec. 1961 to Sept. 1973.
RADIOCHEMICAL DATA: Feb. to June 1981.

PERIOD OF DAILY RECORD, Water-Quality.--
SPECIFIC CONDUCTANCE: Oct. 1986 to Sept. 1989.
WATER TEMPERATURE: Oct. 1986 to Sept. 1989.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 317.42 ft above NGVD of 1929. From June 27, 1924, to Apr. 30, 1926, a nonrecording gage was located at site 1,000 ft downstream at same datum. Prior to Sept. 5, 1978, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records poor except for daily mean discharges from May to Sept., which are good. Some records listed in the Period of Record for surface water and water quality may not be available electronically. Since water year 1980, flow has been regulated by Lake Fork Reservoir, which controls runoff from 490 mi^2 above this station. The City of Quitman discharges wastewater effluent into a tributary above this station. No flow at times.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--41 years (water years 1925, 1940-1979), prior to regulation by Lake Fork Reservoir, 432 ft^3/s (313,000 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1895 reached a stage of about 25.9 ft, from information by local resident.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS, 1925, 1940-1979: Maximum discharge, 75,600 ft^3/s, Mar. 30, 1945, gage height, 29.85 ft, from floodmark, from rating curve extended above 49,000 ft^3/s; no flow at times.

08019000 Lake Fork Creek near Quitman, TX—Continued

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

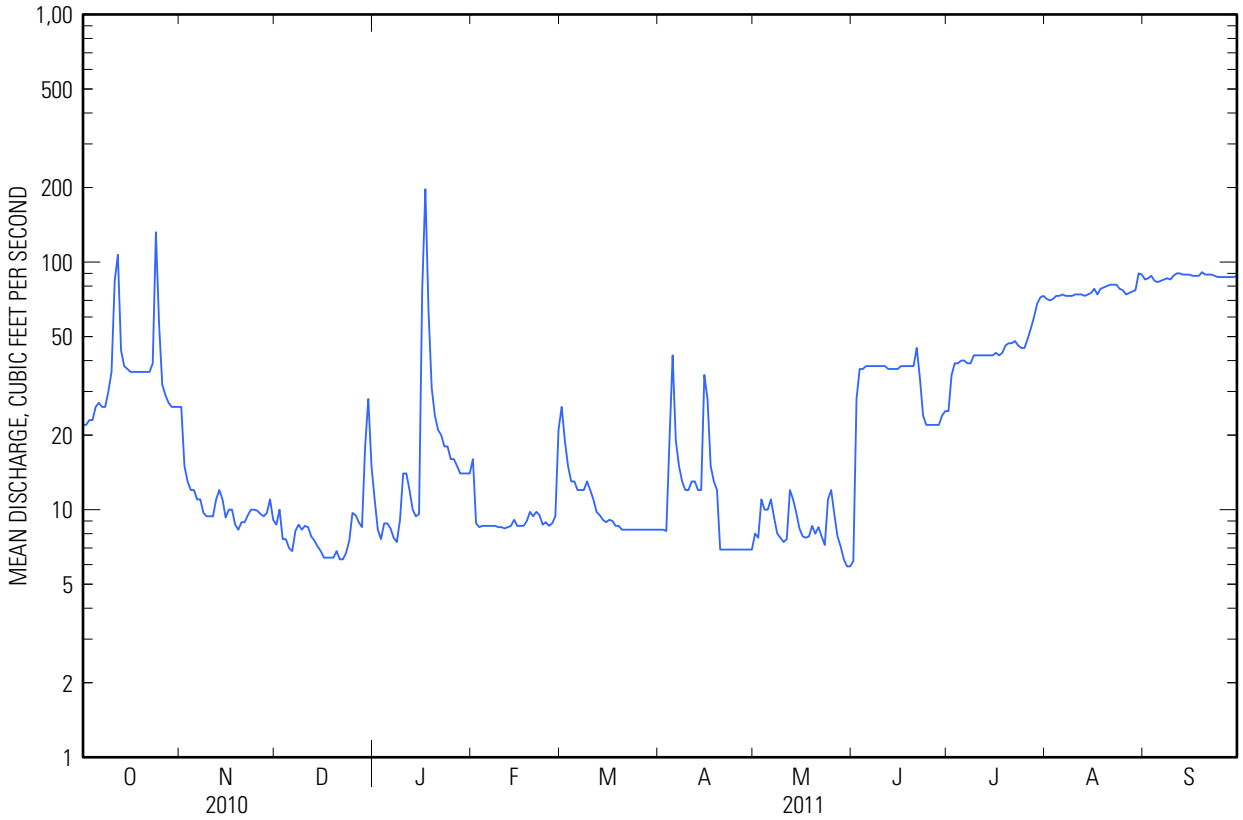
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22	26	e8.7	11	16	26	e8.3	8.0	6.2	25	71	85
2	22	15	10	8.3	8.8	19	e8.3	7.7	28	35	70	86
3	23	13	7.6	7.6	8.5	15	e8.2	11	37	39	71	88
4	23	12	7.6	8.8	8.6	13	19	10	37	39	73	84
5	26	e12	7.0	8.8	8.6	13	42	10	38	40	73	83
6	27	e11	6.8	8.4	8.6	12	19	11	38	40	74	84
7	26	e11	8.2	7.7	8.6	12	15	9.3	38	39	73	85
8	26	e9.7	8.7	7.4	8.6	12	13	8.0	38	39	73	86
9	30	e9.4	8.3	9.1	8.5	13	12	7.7	38	42	73	85
10	36	e9.4	8.6	14	8.5	12	e12	7.4	38	42	74	88
11	84	e9.4	8.5	14	8.4	11	e13	7.6	38	42	74	90
12	107	e11	7.8	12	8.5	9.8	13	12	37	42	74	90
13	44	e12	7.5	10	8.6	9.5	12	11	37	42	73	89
14	38	e11	7.1	9.4	9.1	9.1	e12	9.7	37	42	74	89
15	37	e9.3	6.8	9.6	8.6	8.9	e35	8.4	37	42	75	89
16	36	e10	6.4	77	8.6	9.1	28	7.8	38	43	78	88
17	36	e10	6.4	197	8.6	9.0	15	7.7	38	42	74	88
18	36	e8.7	6.4	63	9.0	8.6	13	7.8	38	43	78	88
19	36	e8.3	6.4	31	9.8	8.6	e12	8.6	38	46	79	91
20	36	e8.9	6.8	24	9.4	e8.3	e6.9	8.0	38	47	80	89
21	36	e8.9	6.3	21	9.8	e8.3	e6.9	8.5	45	47	81	89
22	36	e9.5	6.3	20	9.5	e8.3	e6.9	7.8	34	48	81	89
23	39	e10	e6.7	18	8.7	e8.3	e6.9	7.2	24	46	81	88
24	132	e10	7.5	18	8.9	e8.3	e6.9	11	22	45	78	87
25	56	e9.9	9.7	16	8.6	e8.3	e6.9	12	22	45	77	87
26	32	e9.6	9.5	16	8.8	e8.3	e6.9	9.6	22	49	74	87
27	29	e9.4	8.9	15	9.4	e8.3	e6.9	7.8	22	54	75	87
28	27	e9.7	8.5	14	21	e8.3	e6.9	7.1	22	60	76	87
29	26	e11	18	14	---	e8.3	e6.9	6.3	24	68	77	87
30	26	e9.1	28	14	---	e8.3	6.9	5.9	25	72	90	88
31	26	---	15	14	---	e8.3	---	5.9	---	73	89	---
Total	1,216	324.2	276.0	718.1	266.6	330.2	385.7	267.8	974.2	1,418	2,363	2,621
Mean	39.2	10.8	8.90	23.2	9.52	10.7	12.9	8.64	32.5	45.7	76.2	87.4
Max	132	26	28	197	21	26	42	12	45	73	90	91
Min	22	8.3	6.3	7.4	8.4	8.3	6.9	5.9	6.2	25	70	83
Ac-ft	2,410	643	547	1,420	529	655	765	531	1,930	2,810	4,690	5,200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2011[Z], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	249	255	618	419	812	804	440	547	332	233	87.8	56.0
Max	4,001	1,552	3,668	1,786	3,198	3,811	1,991	2,807	2,771	1,795	940	194
(WY)	(2010)	(1989)	(2002)	(1998)	(2001)	(2001)	(1990)	(1990)	(2000)	(1994)	(1992)	(2007)
Min	1.23	2.92	8.90	4.43	9.52	10.7	4.29	8.64	8.51	1.43	0.13	0.76
(WY)	(1983)	(1981)	(2011)	(1981)	(2011)	(2011)	(1981)	(2011)	(1984)	(1985)	(1980)	(1982)

08019000 Lake Fork Creek near Quitman, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1980 - 2011[z]	
Annual total	120,136.1		11,160.8			
Annual mean	329		30.6		403	
Highest annual mean					1,006	1992
Lowest annual mean					27.7	2006
Highest daily mean	5,580	Feb 5	197	Jan 17	26,300	Dec 17, 2001
Lowest daily mean	6.3	Dec 21	5.9	May 30	0.00	Aug 23, 1980
Annual seven-day minimum	6.4	Dec 16	6.4	Dec 16	0.00	Aug 23, 1980
Maximum peak flow			243	Jan 17	28,900	May 4, 2009
Maximum peak stage			6.88	Jan 17	23.05	May 4, 2009
Annual runoff (ac-ft)	238,300		22,140		291,800	
10 percent exceeds	346		82		1,130	
50 percent exceeds	19		14		44	
90 percent exceeds	9.2		7.6		8.3	

[z] Period of regulated streamflow.