



Water-Data Report 2008

07301300 North Fork Red River near Shamrock, TX

North Fork Red Basin
Middle North Fork Red Subbasin

LOCATION.--Lat 35°15'51", long 100°14'29" referenced to North American Datum of 1927, Wheeler County, TX, Hydrologic Unit 11120302, on left bank at downstream side of bridge on U.S. Highway 83, 2.5 mi north of Shamrock.

DRAINAGE AREA.--1,082 mi² of which 379 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1951 to Sept. 1963 (miscellaneous measurements), Feb. 1964 to Sept. 1991 (daily mean discharge), Oct. 1991 to Sept. 1993 (annual maximum), Oct. 1993 to Sept. 1997, Oct. 1998 to Sept. 2000 (peak discharge greater than base discharge), Oct. 2000 to current year (daily mean discharge). Water-quality data: Chemical data: Oct. 1999 to Oct. 2006. Biological data: Oct. 1999 to Oct. 2006.

GAGE.--Water-stage recorder. Datum of gage is 2,165.55 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for the periods Dec. 11, 14-19, and Mar 14, which are fair, and those for estimated daily discharges, which are poor. Since installation of gage in Oct. 1951, at least 10% of contributing drainage area has been regulated. Flow is affected at times by discharge from flood-detention pools of eleven floodwater retarding structures with combined detention capacity of 18,290 acre-feet. These structures control runoff from 165 mi². No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

07301300 North Fork Red River near Shamrock, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.2	9.7	23	e42	e33	43	17	15	5.5	2.3	0.06	12
2	5.2	11	23	e39	31	44	16	12	4.0	1.6	0.05	9.9
3	4.4	11	20	e38	31	42	18	11	2.3	1.3	0.04	11
4	3.8	11	20	41	34	40	17	11	1.4	1.5	0.04	9.3
5	3.1	11	20	40	40	43	16	11	0.54	1.1	0.04	11
6	2.5	11	19	37	e40	47	16	12	0.17	0.61	0.04	16
7	2.4	11	20	36	42	46	16	46	0.08	0.35	0.06	9.1
8	2.3	13	22	35	44	46	15	112	0.05	0.25	0.06	8.8
9	2.3	14	23	34	41	48	25	82	160	3.2	0.04	10
10	2.2	15	24	35	43	47	86	60	319	3.9	0.07	8.6
11	2.4	14	68	35	42	45	55	36	62	1.8	0.06	24
12	10	13	67	38	41	42	36	27	24	0.89	0.05	111
13	27	12	58	41	38	43	27	23	18	0.55	0.04	42
14	8.6	12	56	42	37	43	22	23	12	0.63	0.10	24
15	4.5	11	47	42	36	43	20	42	7.6	0.53	0.28	20
16	2.8	12	39	43	e101	41	19	37	5.4	0.51	9.8	18
17	3.1	13	44	e43	e109	66	19	28	4.3	0.30	6.9	16
18	59	14	43	e44	77	43	19	23	3.6	0.19	30	13
19	35	15	42	e44	62	27	18	19	396	0.18	194	13
20	18	15	41	e45	55	21	16	15	45	0.12	143	13
21	13	15	37	e45	53	20	15	15	23	0.11	72	11
22	12	14	35	e46	53	19	14	15	20	0.10	41	11
23	11	16	e38	e46	49	19	33	26	10	0.09	28	10
24	10	18	e40	e46	47	19	84	19	6.5	0.08	21	9.9
25	10	19	41	e46	47	19	59	12	5.3	0.08	16	9.4
26	10	19	38	48	44	18	39	93	3.7	0.07	13	8.7
27	10	20	e39	45	44	18	34	227	2.5	0.07	10	8.3
28	10	22	42	42	44	17	26	47	5.7	0.08	8.6	7.9
29	10	20	e43	38	44	17	22	20	3.7	0.08	8.7	7.5
30	10	21	45	33	---	18	18	12	2.9	0.06	72	7.1
31	10	---	47	e34	---	17	---	7.8	---	0.06	14	---
Total	318.8	432.7	1,164	1,263	1,402	1,061	837	1,138.8	1,154.24	22.69	689.03	490.5
Mean	10.3	14.4	37.5	40.7	48.3	34.2	27.9	36.7	38.5	0.73	22.2	16.4
Max	59	22	68	48	109	66	86	227	396	3.9	194	111
Min	2.2	9.7	19	33	31	17	14	7.8	0.05	0.06	0.04	7.1
Ac-ft	632	858	2,310	2,510	2,780	2,100	1,660	2,260	2,290	45	1,370	973

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2008^b, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.5	15.9	22.6	29.3	33.3	41.1	44.7	79.5	71.8	11.0	7.83	14.9
Max	155	75.2	124	158	97.1	131	252	609	369	73.6	55.5	60.9
(WY)	(1986)	(1976)	(2001)	(1988)	(1988)	(2007)	(1973)	(1977)	(1965)	(1967)	(1969)	(1966)
Min	0.00	0.00	0.00	0.00	0.48	0.06	0.00	0.36	0.00	0.00	0.00	0.00
(WY)	(1967)	(1967)	(1971)	(1971)	(1981)	(1972)	(1971)	(1984)	(1966)	(1969)	(1965)	(1970)

07301300 North Fork Red River near Shamrock, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1965 - 2008^h	
Annual total	16,698.64	9,973.76		
Annual mean	45.7	27.3	32.4	
Highest annual mean			91.7	1977
Lowest annual mean			3.68	1971
Highest daily mean	1,470	Mar 29	14,200	Feb 2, 1996
Lowest daily mean	0.03	Aug 5	0.00	Oct 1, 1964
Annual seven-day minimum	0.06	Aug 4	0.00	Oct 1, 1964
Maximum peak flow		3,060	25,600	Jun 3, 1995
Maximum peak stage		4.24	8.49	Jun 3, 1995
Annual runoff (ac-ft)	33,120	19,780	23,460	
10 percent exceeds	85	47	63	
50 percent exceeds	28	18	3.1	
90 percent exceeds	1.3	0.52	0.00	

^h See Period of Record paragraph.

