07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX

Red-Lake Texoma Basin
South Wichita Subbasin

LOCATION.--Lat 33°37′19″, long 100°12′31″ referenced to North American Datum of 1927, King County, TX, Hydrologic Unit 11130205, on right bank 1.0 mi downstream from ranch road crossing, 2.9 mi upstream from Willow Creek, 6.6 mi east of Guthrie, and 91.5 mi upstream from mouth.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1984 to Sept. 1985, May 1987 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,590.0 ft above NGVD of 1929. Satellite telemeter at station.

COOPERATION.--Pipeline flowmeter data furnished by the U.S. Army Corps of Engineers, Tulsa District.

REMARKS.--Discharge represents flow diverted by pumping from South Wichita River at Low Flow Dam near Guthrie (station 07311782) via pipeline to Truscott Brine Lake near Truscott (station 07311669). Flow is determined from flowmeter in pipeline. No flow at times.

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.8	6.6	4.8	6.1	7.6	7.8	7.7	5.8	6.0	6.4	7.5	7.6
2	7.1	7.2	5.9	4.3	2.9	7.8	6.8	7.6	3.5	7.7	7.4	7.5
3	7.1	7.2	7.6	7.6	7.7	7.7	4.2	7.6	7.8	7.5	7.4	7.4
4	7.2	3.2	6.0	4.6	7.6	7.7	7.6	7.6	7.6	7.6	2.8	7.4
5	7.1	6.8	0.00	0.00	4.3	7.7	3.6	7.6	0.00	7.6	6.1	0.10
6	7.1	7.4	5.2	0.00	0.00	7.7	7.2	7.4	5.0	7.6	7.6	0.00
7	7.0	2.7	7.6	5.1	5.1	5.0	7.6	4.4	7.7	1.5	5.4	0.00
8	4.0	0.00	7.6	7.6	7.7	0.00	3.2	3.8	7.7	2.7	2.8	3.7
9	0.00	6.3	7.5	7.6	7.6	0.00	7.2	7.7	1.6	7.6	7.7	7.6
10	7.2	7.2	7.5	5.5	7.6	5.0	7.3	7.7	2.9	7.6	7.7	7.6
11	7.1	7.1	2.9	7.6	7.5	7.7	7.5	7.7	7.7	7.6	0.83	7.6
12	7.2	7.2	5.1	7.5	4.6	7.7	7.4	7.7	7.7	7.6	3.5	7.6
13	7.2	7.2	7.6	7.5	0.00	7.7	7.4	7.7	3.3	0.39	7.5	7.6
14	5.3	7.0	7.6	7.5	3.1	7.3	5.5	7.7	0.04	3.6	7.3	7.6
15	0.00	0.65	7.6	7.5	7.7	7.4	7.4	5.6	0.04	7.6	7.5	7.6
16	7.2	7.5	7.6	7.5	7.7	7.7	7.5	7.8	0.03	7.2	7.5	7.6
17	7.3	7.5	7.6	0.71	7.7	7.7	2.7	7.8	2.9	7.6	7.5	7.6
18	7.3	7.5	7.5	3.1	2.5	7.7	3.3	6.0	7.7	7.3	7.5	7.6
19	4.1	7.5	3.1	7.6	3.4	5.6	7.5	5.3	6.1	7.8	7.4	7.6
20	7.3	2.6	7.6	7.6	7.7	5.5	7.5	7.8	0.00	7.7	7.6	7.5
21	7.3	3.3	7.6	7.6	7.7	7.7	7.5	2.1	0.03	3.6	7.6	7.5
22	0.80	7.6	5.1	7.6	7.7	4.7	2.9	2.8	0.01	2.9	7.5	7.5
23	0.00	7.6	5.4	7.6	7.6	6.1	0.00	7.8	0.08	7.6	7.5	7.5
24	2.4	7.5	7.5	3.7	7.6	7.7	5.1	7.8	0.29	7.6	7.5	5.4
25	7.2	7.4	7.5	3.1	7.6	3.8	7.5	7.2	2.6	7.5	7.5	4.0
26	7.2	2.6	3.0	7.7	5.2	2.7	7.5	3.4	7.7	3.3	7.5	7.6
27	7.3	5.1	7.6	7.6	1.1	7.6	1.5	3.5	7.7	5.8	7.5	7.5
28	7.3	7.6	7.6	7.6	0.00	6.6	0.00	0.00	7.5	7.6	4.8	7.5
29	7.0	7.6	4.3	7.6	2.8	7.7	3.6	5.2	7.6	4.8	7.4	0.88
30	0.00	7.6	6.3	2.9	---	7.6	7.6	7.8	7.6	2.6	7.5	0.00
31	7.0	---	7.6	7.7	---	3.1	---	7.8	---	7.5	7.6	---
Total	174.10	180.25	193.40	183.21	157.30	193.70	169.30	193.70	126.42	188.99	206.43	180.18
Mean	5.62	6.01	6.24	5.91	5.42	6.25	5.64	6.25	4.21	6.10	6.66	6.01
Max	7.3	7.6	7.6	7.7	7.7	7.8	7.7	7.8	7.8	7.8	7.7	7.6
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.83	0.00
Ac-ft	345	358	384	363	312	384	336	384	251	375	409	357

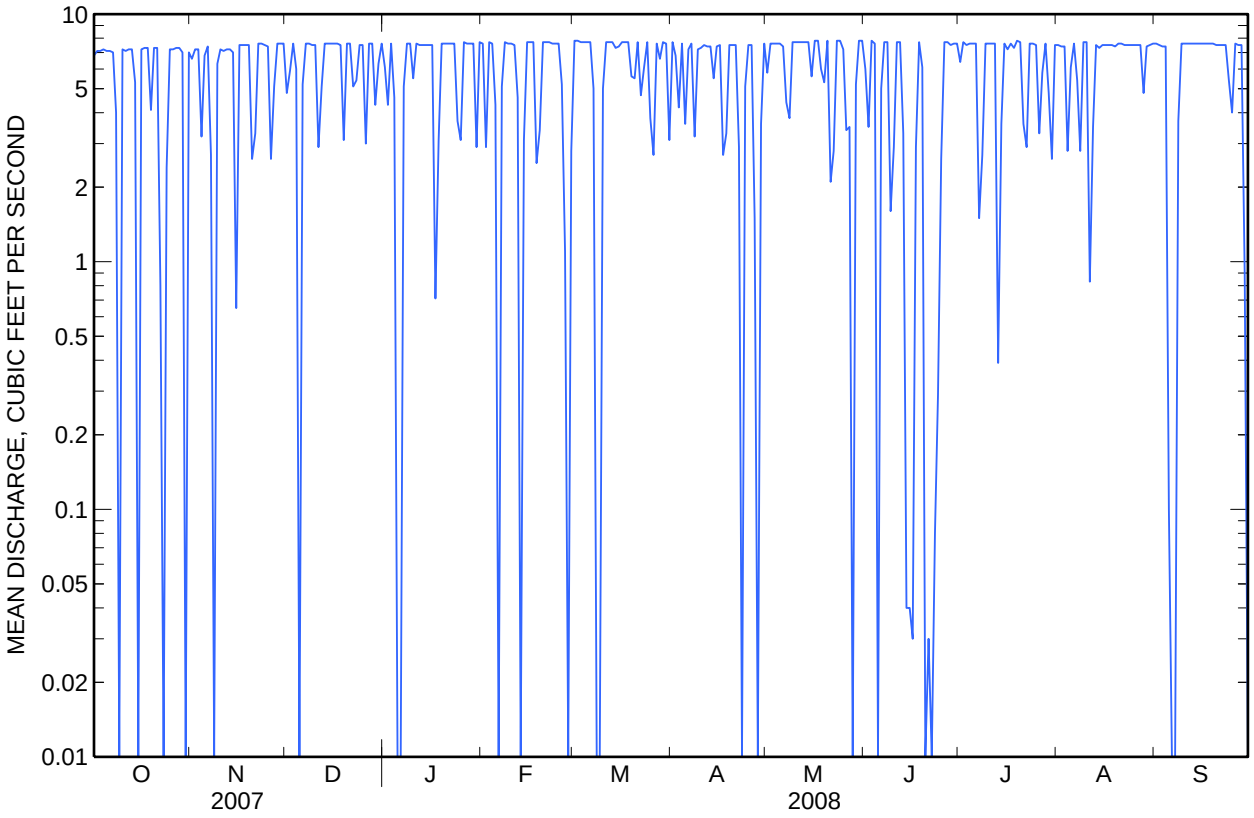
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.37	5.88	5.43	5.11	5.50	5.98	5.82	5.58	5.62	11.8	5.74	6.06
Max	8.51	9.08	8.20	7.68	8.78	11.0	10.7	9.56	11.1	154	7.34	30.5
(WY)	(1996)	(1997)	(1992)	(1994)	(1992)	(1992)	(1992)	(1997)	(1987)	(1986)	(1992)	(1986)
Min	0.78	0.00	0.00	0.00	0.00	0.00	3.59	2.78	3.80	1.87	3.79	0.00
(WY)	(1986)	(1986)	(1986)	(1986)	(1986)	(1986)	(1986)	(1986)	(1989)	(2000)	(2002)	(2002)

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

SUMMARY STATISTICS

	Water Years 1985 - 2008	
Annual mean	6.15	
Highest annual mean	17.2	1986
Lowest annual mean	3.57	1985
Highest daily mean	3,520	Jul 3, 1986
Lowest daily mean	0.00	Oct 2, 1984
Annual seven-day minimum	0.00	Oct 7, 1985
Annual runoff (ac-ft)	4,450	
10 percent exceeds	8.1	
50 percent exceeds	6.6	
90 percent exceeds	0.00	



07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1984 to May 2007.
PESTICIDE DATA: Sept. 1996 to May 2007.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct. 1984 to current year. Oct. 1986 to Apr. 1987, published as "South Wichita River below low-flow dam near Guthrie" (station 07311783).
WATER TEMPERATURE: Oct. 1984 to current year. Oct. 1986 to Apr. 1987, published as "South Wichita River below low-flow dam near Guthrie" (station 07311783).

INSTRUMENTATION.--Water-quality monitor since Oct. 1984.

REMARKS.--Temperature record good. Specific conductance record good. Interruptions or periods of missing record may be due to instrument failure, on flow conditions, or data corrections exceeding allowable criteria, which were deleted. Other than no flow conditions, minimum and maximum extremes may have occurred during period of missing record. Mean monthly and annual concentrations and loads for selected chemical constituents have been computed for previous years using the daily records of specific conductance and a regression relation between each chemical constituent and specific conductance. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Regression equations developed for this station may be obtained from the U.S. Geological Survey Texas Water Science Center; Austin, Texas upon request.Temperature and specific-conductance values for days of zero flow through the pipeline are published if water is present behind the low-flow dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 64,200 microsiemens/cm, June 12, 2008; minimum, 200 microsiemens/cm, July 3, 1986.
WATER TEMPERATURE: Maximum, 36.0°C, July 5, 11-13, 21, 1996; minimum, 0.0°C, Dec. 23, 1989, Dec. 22, 1990.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 64,200 microsiemens/cm, June 12; minimum, 2280 microsiemens/cm, June 20.
WATER TEMPERATURE: Maximum, 34.2°C, Aug. 1; minimum, 4.2°C, Dec. 23.

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	56,100	53,100	54,800	56,700	55,000	55,800	54,200	52,800	53,300	---	---	---
2	54,000	51,800	52,900	55,900	54,000	55,100	54,200	53,000	53,500	55,500	54,300	54,900
3	53,100	50,900	52,000	54,000	53,500	53,700	55,000	54,000	54,500	55,400	54,400	54,900
4	54,500	52,000	53,000	54,000	53,300	53,700	54,700	54,100	54,400	56,100	54,400	55,000
5	54,500	54,100	54,300	55,200	53,600	54,500	54,800	54,500	54,600	55,100	54,200	54,700
6	54,100	52,500	53,200	55,500	54,200	54,800	55,300	54,600	54,800	54,800	53,900	54,400
7	53,500	52,800	53,200	54,700	54,400	54,500	56,300	55,300	55,800	54,800	54,100	54,500
8	54,100	53,500	53,900	55,000	54,700	54,800	56,300	55,300	55,700	56,300	54,400	55,300
9	55,800	54,100	54,800	57,000	54,900	55,600	56,400	54,900	55,800	57,100	56,200	56,600
10	58,400	55,800	56,700	57,000	55,700	56,300	55,900	55,000	55,500	57,300	56,500	56,700
11	57,900	56,300	56,900	55,900	54,800	55,200	55,300	51,200	53,400	57,000	55,200	56,000
12	57,000	55,200	55,800	54,900	53,200	53,900	52,700	52,000	52,300	56,500	55,600	56,200
13	55,900	54,000	54,900	53,900	53,400	53,700	52,800	52,000	52,300	56,200	54,500	55,000
14	54,400	54,000	54,300	54,400	53,600	53,900	52,400	51,600	52,000	55,300	54,200	54,800
15	54,800	54,000	54,400	54,900	54,400	54,600	53,900	51,600	52,500	55,000	53,600	54,200
16	57,300	54,400	56,000	56,200	54,900	55,200	54,300	52,800	53,600	---	---	---
17	57,300	56,500	56,800	56,600	55,500	56,100	53,800	53,000	53,400	55,100	54,600	54,900
18	56,600	55,000	55,800	55,900	54,900	55,400	---	---	---	55,300	54,600	54,900
19	55,400	55,100	55,300	55,400	54,700	55,000	53,600	52,800	53,400	55,300	54,400	54,800
20	57,400	55,200	56,100	54,800	53,900	54,200	54,100	53,100	53,500	57,200	55,100	56,400
21	57,400	55,700	56,500	55,200	54,200	54,800	54,500	53,800	54,200	57,700	55,400	56,400
22	57,700	56,400	57,100	56,200	55,200	55,500	---	---	---	55,700	54,800	55,200
23	58,100	57,500	57,800	57,400	56,200	56,700	55,500	53,300	54,400	56,000	54,900	55,300
24	59,400	57,000	57,700	57,500	55,300	56,100	55,200	54,100	54,700	---	---	---
25	59,600	57,700	58,500	55,300	54,800	55,100	---	---	---	55,600	54,700	55,200
26	58,400	56,900	57,500	55,400	54,800	55,100	55,600	55,000	55,300	55,200	54,000	54,600
27	57,100	56,200	56,600	55,300	54,900	55,100	55,400	54,300	54,900	55,500	54,300	54,800
28	56,600	54,600	55,500	55,600	55,100	55,400	55,400	54,300	54,900	55,200	54,500	54,800
29	55,200	54,900	55,100	55,600	53,700	54,700	---	---	---	54,700	54,100	54,300
30	55,400	55,000	55,200	54,500	53,400	53,800	55,000	53,500	54,300	54,700	53,900	54,300
31	56,200	55,100	55,400	---	---	---	55,000	53,900	54,600	56,100	54,300	55,400
Month	59,600	50,900	55,400	57,500	53,200	54,900	---	---	---	---	---	---

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

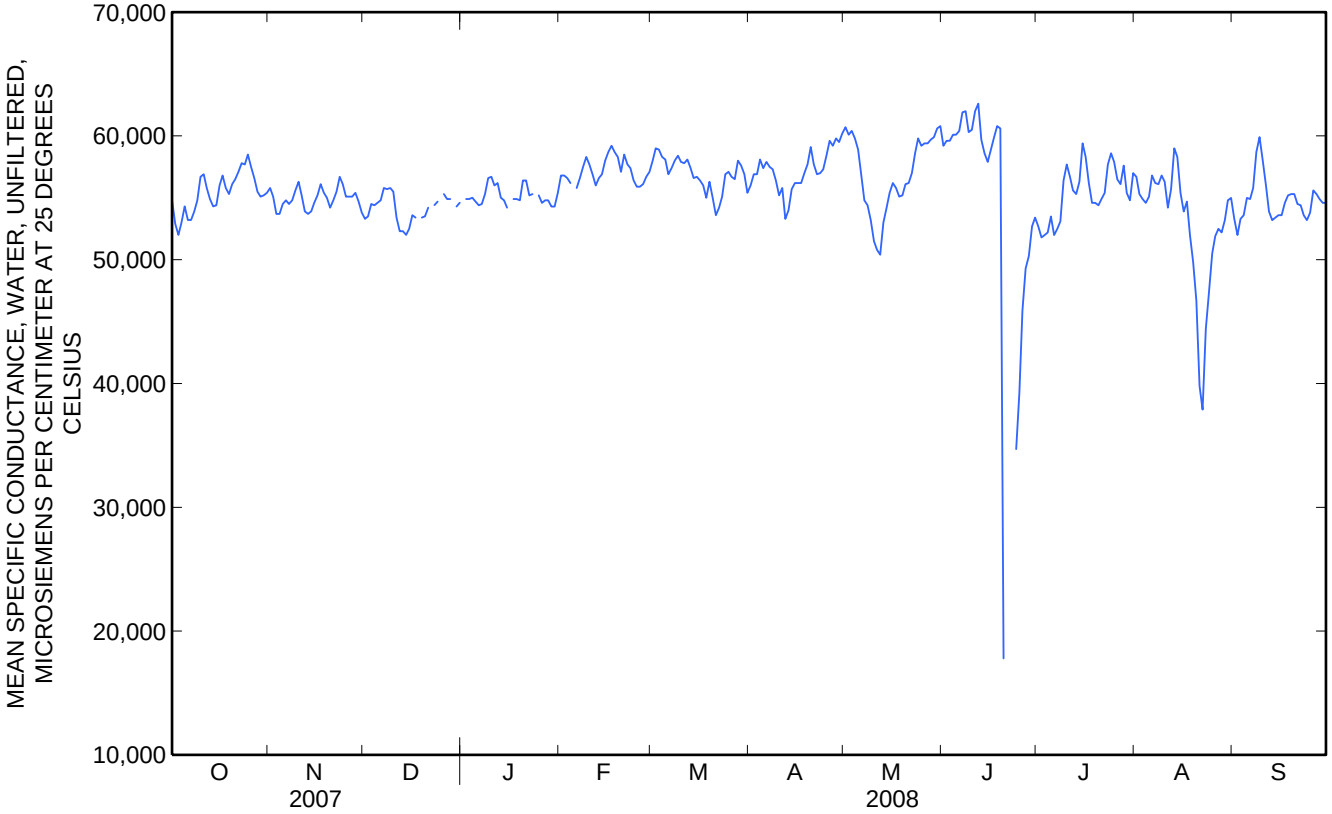
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	57,300	56,100	56,800	58,600	57,400	58,000	56,900	55,500	56,000	61,100	59,600	60,700
2	57,600	56,500	56,800	59,400	58,600	59,000	57,200	56,800	56,900	60,500	58,900	60,100
3	57,100	56,000	56,600	59,600	58,300	58,900	57,600	56,600	56,900	60,900	59,700	60,400
4	56,900	55,700	56,200	59,700	57,300	58,300	58,500	57,600	58,100	60,400	58,600	59,800
5	---	---	---	59,100	57,000	58,100	58,000	57,000	57,400	59,400	58,400	58,900
6	56,500	55,400	55,800	57,500	56,500	56,900	58,300	57,400	57,900	58,800	54,600	56,800
7	57,300	55,700	56,600	57,600	57,100	57,400	58,400	56,800	57,500	55,800	54,100	54,800
8	58,400	56,900	57,500	58,300	57,500	58,000	57,600	56,300	57,300	54,800	54,000	54,400
9	58,900	57,700	58,300	58,700	58,200	58,400	58,100	53,700	56,400	54,100	51,300	53,200
10	58,400	57,200	57,700	58,400	57,200	57,900	56,600	53,500	55,200	52,000	51,000	51,500
11	57,400	56,200	56,900	58,100	57,400	57,800	56,300	55,000	55,800	52,600	46,500	50,800
12	56,300	55,900	56,000	58,400	57,900	58,100	56,000	50,400	53,300	52,300	48,900	50,400
13	56,900	56,200	56,600	58,600	56,200	57,400	55,900	53,200	54,000	53,700	52,300	53,000
14	57,100	56,700	56,900	57,600	55,900	56,600	56,100	55,100	55,700	54,700	53,600	54,200
15	59,200	57,100	58,000	57,300	55,800	56,700	56,900	55,400	56,200	55,800	54,600	55,400
16	59,400	58,000	58,700	56,900	56,000	56,400	56,900	55,300	56,200	56,800	55,600	56,200
17	59,700	58,000	59,200	56,500	55,800	56,000	56,800	55,900	56,200	56,500	55,100	55,800
18	59,300	58,300	58,700	55,900	53,700	55,000	57,400	56,500	57,000	55,600	54,600	55,100
19	58,700	57,900	58,300	56,700	55,500	56,300	59,200	57,000	57,700	56,100	54,400	55,200
20	58,100	55,300	57,100	56,700	53,500	55,000	59,800	57,800	59,100	56,600	55,200	56,100
21	59,200	57,600	58,500	54,200	53,100	53,600	58,500	56,800	57,700	56,600	55,800	56,200
22	58,200	57,100	57,700	54,300	54,000	54,200	57,300	56,400	56,900	57,400	56,500	57,000
23	58,200	56,500	57,400	56,000	54,300	55,100	57,300	56,300	57,000	59,800	57,400	58,600
24	57,000	55,500	56,400	57,700	56,000	56,900	57,600	56,400	57,300	60,200	58,900	59,800
25	56,500	55,400	55,900	57,700	56,300	57,100	59,500	57,000	58,400	59,700	58,700	59,200
26	56,400	55,300	55,900	57,100	55,900	56,700	60,200	58,600	59,600	59,900	58,800	59,400
27	56,500	55,600	56,100	57,000	56,000	56,500	59,600	58,700	59,200	59,700	59,200	59,400
28	56,900	56,400	56,700	58,400	57,000	58,000	60,000	59,600	59,800	59,800	59,300	59,700
29	57,500	56,800	57,100	58,300	57,200	57,600	59,900	58,900	59,500	60,200	59,100	59,900
30	---	---	---	57,600	55,800	56,900	61,100	59,600	60,200	61,300	59,700	60,600
31	---	---	---	55,800	55,000	55,400	---	---	---	61,600	59,500	60,800
Month	---	---	---	59,700	53,100	56,900	61,100	50,400	57,200	61,600	46,500	56,900

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	60,000	58,400	59,200	53,100	52,000	52,700	57,200	55,700	56,700	53,900	51,500	53,300
2	60,000	59,000	59,600	52,400	50,700	51,800	56,000	53,800	55,300	52,800	50,300	52,000
3	60,400	59,100	59,600	52,400	51,000	52,000	55,400	54,700	54,900	54,000	52,600	53,300
4	60,800	59,100	60,100	52,800	51,400	52,200	55,000	54,400	54,600	54,600	53,000	53,600
5	60,300	59,900	60,100	54,100	52,800	53,500	56,600	54,600	55,100	55,200	54,600	55,000
6	60,800	59,800	60,400	53,100	51,500	52,000	57,900	55,500	56,800	55,300	54,400	54,900
7	63,000	60,400	61,900	52,600	52,100	52,500	57,800	55,500	56,200	57,700	54,900	55,800
8	63,200	60,700	62,000	53,900	52,600	53,100	56,400	55,900	56,100	60,300	57,200	58,700
9	60,700	59,800	60,300	57,700	53,900	56,400	58,000	55,800	56,800	60,600	58,600	59,900
10	60,700	59,600	60,500	58,200	56,800	57,700	58,100	55,200	56,300	58,800	57,200	58,000
11	63,800	60,700	62,000	57,800	55,900	56,700	56,000	52,600	54,200	57,200	54,400	56,000
12	64,200	60,700	62,600	57,000	54,500	55,600	57,800	54,400	55,700	55,000	53,400	53,900
13	60,800	58,900	59,700	56,000	54,700	55,300	59,500	57,800	59,000	53,900	52,700	53,200
14	58,900	57,900	58,600	58,800	55,000	56,300	59,200	55,700	58,300	53,900	52,800	53,400
15	58,300	57,300	57,900	59,800	58,800	59,400	56,000	54,800	55,400	54,400	53,000	53,600
16	59,400	58,200	58,900	59,400	56,900	58,300	55,600	52,900	53,900	54,100	52,900	53,600
17	60,400	59,200	59,900	57,500	54,600	56,200	55,200	54,200	54,700	54,900	54,100	54,600
18	61,100	60,400	60,800	55,500	53,500	54,600	54,800	50,200	52,000	55,500	54,300	55,200
19	60,900	60,400	60,600	55,300	53,400	54,600	50,800	48,500	49,800	55,600	54,700	55,300
20	60,700	2,280	17,800	55,400	53,800	54,400	48,700	43,600	46,700	55,600	54,400	55,300
21	---	---	---	55,400	54,600	54,900	44,100	34,600	39,800	55,100	53,800	54,500
22	---	---	---	55,800	54,900	55,400	42,000	33,400	37,900	55,000	54,000	54,400
23	32,600	---	---	59,400	55,800	57,700	46,200	42,000	44,400	54,200	53,000	53,600
24	37,200	32,600	34,700	59,200	57,400	58,600	49,400	46,200	47,400	53,800	52,600	53,200
25	42,600	36,200	39,300	59,300	57,300	57,900	51,400	49,400	50,500	54,200	53,400	53,800
26	47,600	42,600	45,900	57,400	55,900	56,500	52,300	51,400	51,900	57,200	53,800	55,600
27	50,100	47,600	49,300	56,700	55,600	56,100	52,800	52,200	52,500	55,900	54,800	55,300
28	51,700	45,700	50,300	58,400	56,700	57,600	52,700	51,800	52,200	55,600	54,300	54,900
29	53,100	51,700	52,700	58,000	53,800	55,400	53,900	52,600	53,200	55,000	54,000	54,600
30	53,700	53,000	53,400	56,100	54,300	54,800	55,200	53,900	54,800	54,800	54,300	54,600
31	---	---	---	57,500	56,100	57,000	55,500	52,400	55,000	---	---	---
Month	---	---	---	59,800	50,700	55,400	59,500	33,400	52,800	60,600	50,300	54,800

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued



07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	28.8	26.8	27.8	17.6	13.9	16.0	16.9	12.6	14.9	---	---	---
2	29.1	27.6	28.3	18.8	13.8	16.0	16.7	14.3	15.9	8.0	5.7	6.6
3	29.5	25.8	27.4	18.4	15.8	16.9	15.2	11.8	13.3	7.9	4.8	6.1
4	29.0	25.4	27.0	19.5	15.8	17.3	14.5	10.6	12.4	9.0	6.2	7.6
5	27.8	23.9	25.7	19.9	16.6	17.8	13.2	11.6	12.5	11.0	7.7	9.2
6	27.5	23.6	25.3	16.7	14.7	15.8	12.4	10.6	11.6	11.2	9.6	10.2
7	26.6	23.3	24.7	15.5	14.1	14.8	15.0	11.1	12.7	13.0	10.6	11.5
8	25.9	23.2	24.5	15.1	13.0	14.1	14.0	11.2	12.0	13.0	11.0	12.1
9	24.5	21.7	23.3	17.3	13.4	15.1	11.2	8.4	9.3	12.7	9.8	11.3
10	26.1	20.8	23.2	19.2	15.9	17.3	8.8	7.9	8.3	12.5	9.6	11.0
11	24.5	22.0	23.2	20.1	17.0	18.2	8.4	7.6	8.0	12.4	8.9	10.7
12	25.5	21.1	23.0	21.5	17.5	19.0	8.6	7.5	8.2	12.0	9.7	10.9
13	25.8	21.9	23.4	20.5	17.0	18.7	10.6	7.5	8.8	12.2	7.2	9.7
14	25.0	21.9	22.9	18.5	15.8	17.0	10.0	8.2	8.7	12.9	8.4	10.5
15	23.3	20.5	21.9	15.8	13.6	14.5	8.4	6.8	7.6	12.3	7.9	10.1
16	23.4	18.8	21.0	15.0	12.1	13.5	9.9	5.7	7.6	10.0	8.1	8.7
17	23.2	20.6	21.8	17.0	12.8	14.5	9.9	6.7	8.2	7.0	5.2	6.1
18	20.6	17.2	19.0	18.2	13.8	15.7	---	---	---	6.6	4.4	5.5
19	19.7	15.6	17.3	19.1	14.8	16.6	11.5	---	---	8.5	4.9	6.4
20	20.8	15.6	17.9	19.1	16.4	17.7	12.5	8.6	10.5	9.3	5.6	7.6
21	22.3	17.9	19.5	18.3	12.8	15.1	12.4	9.3	10.5	11.4	7.0	9.0
22	19.1	14.9	16.3	12.8	11.0	11.8	---	---	---	10.0	7.1	8.3
23	15.6	12.9	14.4	11.0	9.0	9.9	9.4	4.2	7.2	10.4	5.9	7.3
24	17.8	13.6	15.6	10.0	8.8	9.3	9.7	5.6	7.6	---	---	---
25	18.7	14.0	16.4	9.8	9.4	9.7	---	---	---	9.0	7.4	8.1
26	17.9	13.5	15.5	10.9	8.3	9.6	8.4	---	---	11.4	6.9	9.0
27	19.0	14.2	16.2	11.9	9.0	10.3	8.5	5.5	7.1	13.0	8.0	10.5
28	19.1	14.0	16.3	12.5	10.0	11.1	8.9	5.4	6.8	15.7	11.8	13.5
29	17.4	15.2	16.3	12.4	8.6	10.5	---	---	---	14.5	11.2	12.8
30	18.0	15.4	16.6	12.7	11.2	11.9	10.1	5.5	8.3	11.3	---	---
31	17.9	15.3	16.6	---	---	---	9.6	6.7	8.1	11.2	7.9	9.3
Month	29.5	12.9	20.9	21.5	8.3	14.5	---	---	---	---	---	---

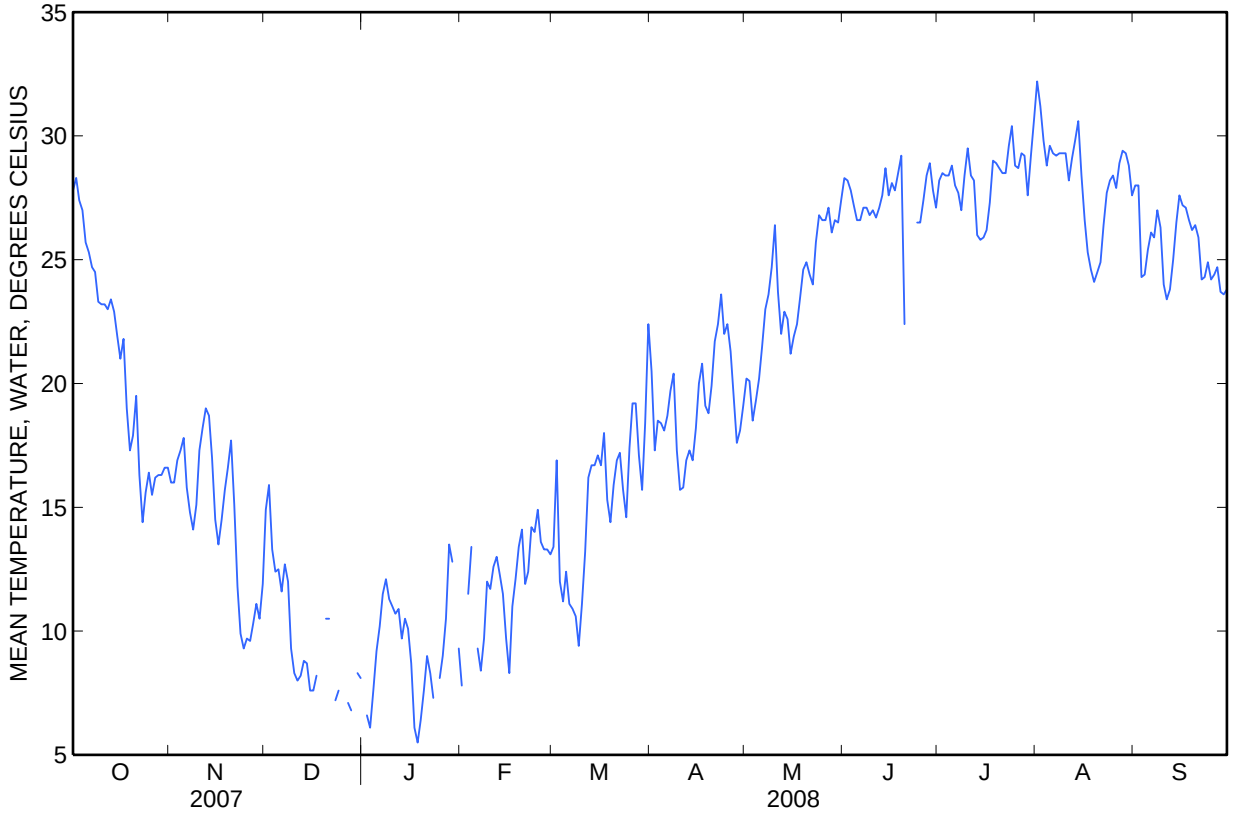
07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	10.3	6.4	7.8	16.2	11.4	13.4	23.1	17.7	20.5	22.5	19.2	20.2
2	11.2	---	---	19.5	15.3	16.9	19.4	16.4	17.3	23.1	18.0	20.1
3	14.6	8.7	11.5	15.4	10.3	12.0	22.5	16.3	18.5	21.2	16.5	18.5
4	16.3	11.2	13.4	15.3	7.4	11.2	21.3	15.9	18.4	22.4	16.9	19.3
5	---	---	---	15.7	9.5	12.4	19.8	16.2	18.1	21.3	19.2	20.2
6	10.4	8.4	9.3	12.3	10.1	11.1	22.0	16.0	18.7	24.8	19.4	21.5
7	9.5	7.2	8.4	13.1	8.7	10.9	22.6	17.2	19.7	23.6	22.1	23.0
8	12.3	7.8	9.7	12.0	9.9	10.6	24.2	18.7	20.4	24.4	23.0	23.6
9	14.6	10.0	12.0	10.1	8.8	9.4	19.3	15.8	17.3	26.7	23.5	24.7
10	15.2	8.7	11.7	13.7	9.7	11.1	17.9	13.5	15.7	26.9	26.0	26.4
11	15.4	10.9	12.6	16.0	11.3	13.2	17.4	14.7	15.8	26.2	20.1	23.7
12	15.2	11.0	13.0	19.1	14.6	16.2	19.6	14.3	16.9	24.3	19.8	22.0
13	13.6	11.1	12.3	19.0	14.9	16.7	20.3	14.9	17.3	26.3	20.9	22.9
14	12.9	10.3	11.5	20.6	13.0	16.7	20.6	15.0	16.9	24.6	21.4	22.6
15	11.9	9.1	9.7	20.7	14.4	17.1	21.9	15.6	18.2	23.9	19.3	21.2
16	9.9	7.2	8.3	19.3	14.9	16.7	24.5	17.7	20.0	25.0	19.6	21.9
17	13.5	9.0	11.0	19.6	16.9	18.0	23.6	19.5	20.8	25.1	20.4	22.4
18	13.1	10.4	12.1	17.3	13.6	15.3	20.9	17.6	19.1	26.1	20.8	23.5
19	14.6	12.7	13.4	17.4	11.7	14.4	22.1	16.3	18.8	27.6	21.8	24.6
20	15.4	13.3	14.1	18.8	12.1	15.9	23.1	17.9	19.9	27.7	22.7	24.9
21	13.3	11.0	11.9	20.6	14.2	16.9	25.2	19.3	21.7	25.7	23.3	24.4
22	15.2	10.2	12.4	19.0	15.1	17.2	24.3	21.0	22.4	26.4	23.0	24.0
23	17.0	12.8	14.2	17.8	13.8	15.7	25.1	22.1	23.6	29.0	23.9	25.7
24	17.7	11.3	14.0	18.2	12.0	14.6	23.9	20.6	22.0	30.7	24.5	26.8
25	17.6	13.3	14.9	21.8	14.4	17.4	24.6	20.3	22.4	29.1	24.4	26.6
26	15.0	11.9	13.6	20.9	17.8	19.2	23.6	19.4	21.3	29.2	25.3	26.6
27	16.2	9.7	13.3	22.8	16.1	19.2	21.8	17.9	19.4	29.1	25.7	27.1
28	14.7	12.4	13.3	19.8	16.0	17.1	19.5	16.6	17.6	27.3	25.6	26.1
29	14.6	12.0	13.1	16.5	14.7	15.7	19.6	16.9	18.1	28.3	25.6	26.6
30	---	---	---	23.0	15.2	18.4	21.4	18.1	19.1	30.0	24.5	26.5
31	---	---	---	25.5	20.5	22.4	---	---	---	30.2	25.6	27.4
Month	---	---	---	25.5	7.4	15.3	25.2	13.5	19.2	30.7	16.5	23.7

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	31.5	26.0	28.3	29.3	27.5	28.2	34.2	31.2	32.2	29.1	26.9	28.0
2	29.6	27.1	28.2	30.0	26.7	28.5	33.3	28.7	31.2	30.8	25.6	28.0
3	31.6	25.3	27.8	30.4	26.8	28.4	32.0	27.9	29.8	26.5	22.4	24.3
4	30.0	25.6	27.2	30.2	26.4	28.4	30.8	26.8	28.8	27.6	21.9	24.4
5	28.5	25.0	26.6	31.6	26.7	28.8	31.6	27.6	29.6	27.8	23.6	25.4
6	28.8	24.9	26.6	30.3	26.2	28.0	32.0	25.8	29.3	27.0	25.1	26.1
7	29.4	25.4	27.1	29.3	26.5	27.7	31.7	27.0	29.2	27.5	24.5	25.9
8	29.6	25.2	27.1	28.0	26.0	27.0	30.6	28.1	29.3	27.6	26.3	27.0
9	28.6	25.8	26.8	29.9	27.4	28.4	31.6	27.1	29.3	27.2	25.0	26.3
10	29.2	25.9	27.0	31.2	27.1	29.5	32.4	27.1	29.3	25.0	23.4	24.0
11	29.3	24.8	26.7	30.2	26.6	28.4	29.8	26.8	28.2	23.9	23.0	23.4
12	30.7	24.9	27.1	32.8	25.5	28.2	29.8	28.1	29.1	24.5	23.2	23.8
13	30.5	25.4	27.6	27.3	25.2	26.0	31.0	28.6	29.8	26.2	24.3	25.0
14	29.7	27.6	28.7	26.4	25.4	25.8	32.4	29.5	30.6	28.1	25.0	26.5
15	29.2	26.4	27.6	26.1	25.7	25.9	30.7	26.5	28.4	28.6	26.7	27.6
16	30.3	26.6	28.1	26.8	25.7	26.2	28.5	26.0	26.6	28.1	26.3	27.2
17	29.4	26.6	27.8	28.8	26.2	27.3	26.5	24.3	25.3	27.6	26.5	27.1
18	30.5	27.0	28.5	30.0	28.4	29.0	26.0	23.5	24.6	27.2	26.0	26.6
19	31.3	27.6	29.2	30.7	26.8	28.9	24.7	23.7	24.1	27.3	25.2	26.2
20	28.9	17.2	22.4	31.1	26.7	28.7	25.1	24.0	24.5	27.6	25.5	26.4
21	---	---	---	30.6	26.4	28.5	25.1	24.5	24.9	26.8	24.9	25.9
22	---	---	---	29.7	27.2	28.5	27.2	24.7	26.4	26.2	22.3	24.2
23	29.1	---	---	31.9	27.1	29.6	28.6	26.5	27.7	26.6	22.2	24.3
24	27.8	25.4	26.5	32.6	28.2	30.4	29.3	27.4	28.2	27.1	23.0	24.9
25	27.7	25.2	26.5	30.9	26.9	28.8	28.9	27.8	28.4	25.6	22.7	24.2
26	28.3	26.5	27.4	31.2	26.5	28.7	28.8	27.0	27.9	26.6	22.7	24.4
27	29.0	28.0	28.4	31.2	27.5	29.3	30.4	27.9	28.9	27.2	22.7	24.7
28	29.5	28.6	28.9	32.1	26.4	29.2	30.7	28.6	29.4	26.6	21.2	23.7
29	28.7	27.4	27.8	29.4	26.1	27.6	30.0	28.5	29.3	26.1	21.5	23.6
30	27.8	26.4	27.1	30.0	28.6	29.2	29.5	28.3	28.8	24.8	22.9	23.8
31	---	---	---	32.5	29.3	30.7	28.6	26.9	27.6	---	---	---
Month	---	---	---	32.8	25.2	28.3	34.2	23.5	28.3	30.8	21.2	25.4

07311782 South Wichita River at low-flow dam Diversion Pipe near Guthrie, TX—Continued