



Water-Data Report 2011

**07312100 Wichita River near Mabelle, TX**

Red-Lake Texoma Basin  
Wichita Subbasin

LOCATION.--Lat 33°45'36", long 99°08'33" referenced to North American Datum of 1927, Baylor County, TX, Hydrologic Unit 11130206, near left bank at downstream side of bridge on U.S. Highways 183 and 283, 0.3 mi downstream from Lake Kemp Dam, 6.2 mi north of Mabelle, and 13 mi northeast of Seymour.

DRAINAGE AREA.--2,086 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--1952-58 (miscellaneous discharge measurements), Oct. 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,062.72 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since installation of gage in Oct. 1959, at least 10% of contributing drainage area has been regulated. Water is released from Lake Kemp (station 07312000) to supply Lake Diversion, 12.5 mi downstream. Water from Lake Diversion is released for mining, recreation, and for irrigation in the vicinity of Wichita Falls. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

## Water-Data Report 2011

**07312100 Wichita River near Mabelle, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

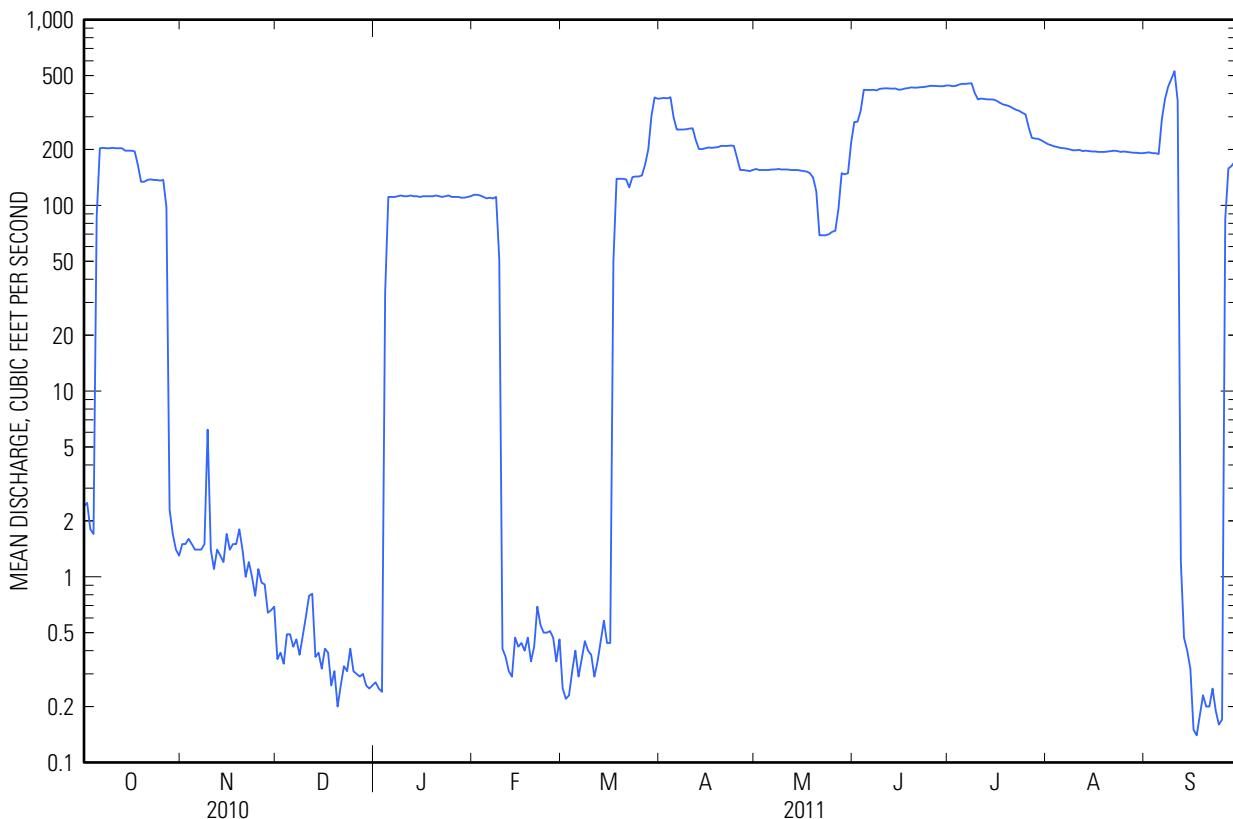
<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	2.4	1.5	0.36	0.27	114	0.25	377	157	281	442	214	192
<b>2</b>	2.5	1.5	0.39	0.25	114	0.22	379	155	282	438	211	193
<b>3</b>	1.8	1.6	0.34	0.24	113	0.23	377	155	323	440	208	191
<b>4</b>	1.7	1.5	0.49	34	111	0.31	382	155	419	447	206	191
<b>5</b>	87	1.4	0.49	111	109	0.40	297	155	418	451	204	189
<b>6</b>	203	1.4	0.42	111	110	0.29	256	156	418	451	203	290
<b>7</b>	204	1.4	0.46	111	109	0.36	256	156	419	453	202	374
<b>8</b>	203	1.5	0.38	112	111	0.45	256	157	416	454	200	436
<b>9</b>	203	6.2	0.48	113	51	0.40	257	156	424	402	198	479
<b>10</b>	204	1.4	0.61	112	0.41	0.38	259	156	426	372	198	528
<b>11</b>	203	1.1	0.79	112	0.37	0.29	260	156	427	376	199	365
<b>12</b>	203	1.4	0.81	113	0.31	0.35	224	155	426	374	196	1.2
<b>13</b>	203	1.3	0.37	112	0.29	0.45	201	155	425	372	197	0.47
<b>14</b>	197	1.2	0.39	112	0.47	0.58	201	155	426	372	196	0.40
<b>15</b>	197	1.7	0.32	111	0.42	0.44	203	154	419	371	195	0.32
<b>16</b>	197	1.4	0.41	112	0.44	0.44	205	153	421	365	195	0.15
<b>17</b>	195	1.5	0.39	112	0.40	50	204	152	426	356	194	0.14
<b>18</b>	165	1.5	0.26	112	0.47	139	205	149	428	349	194	0.18
<b>19</b>	134	1.8	0.31	112	0.35	139	206	141	432	346	194	0.23
<b>20</b>	134	1.4	0.20	113	0.42	139	209	119	430	341	195	0.20
<b>21</b>	137	1.0	0.26	112	0.69	138	209	69	431	334	196	0.20
<b>22</b>	138	1.2	0.33	111	0.55	125	209	69	433	327	197	0.25
<b>23</b>	137	1.0	0.31	112	0.50	142	210	69	434	323	196	0.19
<b>24</b>	137	0.79	0.41	113	0.50	143	209	70	437	315	194	0.16
<b>25</b>	136	1.1	0.31	111	0.51	143	180	72	440	309	195	0.17
<b>26</b>	137	0.93	0.30	111	0.47	145	155	73	440	263	194	84
<b>27</b>	98	0.91	0.29	111	0.35	166	155	96	439	231	193	158
<b>28</b>	2.3	0.64	0.30	110	0.46	200	154	149	438	229	192	163
<b>29</b>	1.7	0.66	0.26	110	---	303	153	147	438	228	192	172
<b>30</b>	1.4	0.69	0.25	111	---	381	155	149	442	224	191	172
<b>31</b>	1.3	---	0.26	112	---	375	---	218	---	219	191	---
<b>Total</b>	3,867.1	42.62	11.95	3,049.76	950.38	2,733.84	7,003	4,228	12,458	10,974	6,130	4,181.26
<b>Mean</b>	125	1.42	0.39	98.4	33.9	88.2	233	136	415	354	198	139
<b>Max</b>	204	6.2	0.81	113	114	381	382	218	442	454	214	528
<b>Min</b>	1.3	0.64	0.20	0.24	0.29	0.22	153	69	281	219	191	0.14
<b>Ac-ft</b>	7,670	85	24	6,050	1,890	5,420	13,890	8,390	24,710	21,770	12,160	8,290

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2011, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	124	81.1	31.9	53.0	56.9	116	146	148	269	293	261	165
<b>Max</b>	952	1,271	247	648	769	659	659	1,246	1,810	923	1,742	915
(WY)	(1987)	(1987)	(1987)	(1992)	(1992)	(1968)	(1968)	(1990)	(1992)	(1967)	(1995)	(1986)
<b>Min</b>	0.66	0.39	0.24	0.34	0.44	0.50	0.23	0.63	1.71	51.8	30.9	1.66
(WY)	(1985)	(1974)	(1997)	(2001)	(2004)	(1989)	(2001)	(2009)	(2003)	(2002)	(1978)	(1974)

**07312100 Wichita River near Mabelle, TX—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>		<b>Water Years 1960 - 2011</b>	
<b>Annual total</b>	29,071.57		55,629.91		
<b>Annual mean</b>	79.6		152		146
<b>Highest annual mean</b>				522	1987
<b>Lowest annual mean</b>				47.0	2005
<b>Highest daily mean</b>	649	Jul 21	528	Sep 10	3,530 Jun 24, 1992
<b>Lowest daily mean</b>	0.02	Feb 17	0.14	Sep 17	0.01 May 19, 2008
<b>Annual seven-day minimum</b>	0.12	Feb 22	0.19	Sep 16	0.06 May 13, 2008
<b>Maximum peak flow</b>			561	Sep 10	4,290 Mar 24, 1976
<b>Maximum peak stage</b>			4.18	Sep 10	
<b>Annual runoff (ac-ft)</b>	57,660		110,300		105,700
<b>10 percent exceeds</b>	323		418		363
<b>50 percent exceeds</b>	1.5		139		9.8
<b>90 percent exceeds</b>	0.32		0.34		0.55



**07312100 Wichita River near Mabelle, TX—Continued****WATER-QUALITY RECORDS****PERIOD OF RECORD--**

CHEMICAL DATA: Dec. 1965 to May 1993, Oct. 1994 to May 2007, July 2009 to Aug. 2011 (discontinued).

BIOCHEMICAL DATA: Dec. 1965 to May 2007, July 2009 to Aug. 2011 (discontinued).

PESTICIDE DATA: June 1997 to May 2007, July 2009 to Aug. 2011 (discontinued).

RADIOCHEMICAL DATA: Dec. 1980 to Apr. 1981.

**PERIOD OF DAILY RECORD--**

SPECIFIC CONDUCTANCE: July 1968 to May 1993 (local observer), Oct. 1994 to Sept. 2011.

WATER TEMPERATURE: July 1968 to May 1993 (local observer), Oct. 1994 to Sept. 2011.

INSTRUMENTATION.--Water-quality monitor Oct. 1994 to Sept. 2011.

REMARKS.--Temperature record excellent. Specific conductance record good. Interruptions or periods of missing record may be due to instrument failure, no 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.

**EXTREMES FOR PERIOD OF DAILY RECORD--**

SPECIFIC CONDUCTANCE: Maximum daily, 7,110 microsiemens/cm, May 13, 14, 1980; minimum daily, 409 microsiemens/cm, June 26, 2007.

WATER TEMPERATURE: Maximum, 36.2°C, June 27, 2001; minimum daily, 0.0°C, Dec. 20, 1973, Feb. 9, 17, 1980.

**EXTREMES FOR CURRENT YEAR--**

SPECIFIC CONDUCTANCE: Maximum, 6,380 microsiemens/cm, Sept. 8; minimum, 4,710 microsiemens/cm, Oct. 22.

WATER TEMPERATURE: Maximum, 31.0°C, Aug. 4; minimum, 3.2°C, Feb. 10.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 1 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temper-ature, air, °C (00020)	Discharge, instantane-ous, ft <sup>3</sup> /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
10-27-2010	1410	Surface water	Regular	736	23.0	138	10.8	124	8.3
11-23-2010	1230	Surface water	Regular	735	15.0	1.2	10.4	114	7.6
01-19-2011	1500	Surface water	Regular	738	14.0	110	9.2	79	8.3
02-14-2011	1400	Surface water	Regular	742	19.0	.57	9.8	103	7.7
04-19-2011	1300	Surface water	Regular	725	26.0	206	8.8	100	8.3
05-31-2011	1235	Surface water	Regular	735	30.0	266	10.4	131	8.1
06-22-2011	1115	Surface water	Regular	736	31.0	433	10.4	136	8.3
07-26-2011	1025	Surface water	Regular	733	28.5	246	9.8	133	8.2
08-22-2011	1114	QC sample - Artificial	Blank	--	--	--	--	--	--
08-22-2011	1115	Surface water	Regular	738	37.0	195	10.8	146	7.5

## 07312100 Wichita River near Mabelle, TX—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 2 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Dissolved									
		Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Non-carbonate hardness, water, mg/L as CaCO <sub>3</sub> (00904)	Suspended solids, water, filtered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	
10-27-2010	1410	4,830	19.8	3,010	899	808	< 15	245	69.7	9.18	
11-23-2010	1230	5,110	17.1	3,210	939	745	< 15	255	73.3	6.38	
01-19-2011	1500	5,180	6.7	3,210	932	825	< 15	254	72.5	9.96	
02-14-2011	1400	5,080	15.6	3,200	942	769	< 15	251	76.5	7.04	
04-19-2011	1300	5,380	18.0	3,470	1,020	924	< 15	276	81.3	9.67	
05-31-2011	1235	5,680	24.0	3,610	1,050	953	< 15	280	85.7	10.1	
06-22-2011	1115	5,820	26.6	3,760	1,050	943	< 15	279	84.9	10.5	
07-26-2011	1025	6,190	28.7	4,100	1,110	1,010	< 15	292	91.5	11.1	
08-22-2011	1114	--	--	--	< .09	--	< 15	< .02	< .008	< .02	
08-22-2011	1115	6,350	28.3	4,070	1,120	1,020	< 15	293	93.1	11.6	

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 3 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Alkalinity, water, filtered, inflection-point, incremental titration method, mg/L as CaCO <sub>3</sub> (39086)										Carbonate, water, filtered, inflection-point titration method, mg/L (00452)		
		Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in major cations (00932)	Sodium, water, filtered, mg/L (00930)	Bicarbonate, water, filtered, incremental titration method, mg/L (00453)	Carbon dioxide, water, unfiltered, mg/L (00405)	Chloride, water, filtered, mg/L (00940)							
10-27-2010	1410	9.78	62	674	92	.9	1	1,150						
11-23-2010	1230	10.6	63	750	195	9.1	1	1,270						
01-19-2011	1500	10.9	64	762	108	1.1	1	1,230						
02-14-2011	1400	11.0	64	775	172	7.2	1	1,250						
04-19-2011	1300	10.9	63	799	100	.9	1	1,340						
05-31-2011	1235	11.7	64	873	100	1.4	1	1,390						
06-22-2011	1115	11.6	64	860	105	1.1	1	1,480						
07-26-2011	1025	12.4	65	948	92	1.1	1	1,630						
08-22-2011	1114	--	--	< .06	--	--	--	< .06						
08-22-2011	1115	12.4	65	949	100	6.1	1	1,610						

## 07312100 Wichita River near Mabelle, TX—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 4 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Ammonia				Nitrate				
		Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO <sub>2</sub> (00955)	Sulfate, water, filtered, mg/L (00945)	nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, NH4 (71846)	water, filtered, mg/L as N (00608)	Ammonia, water, filtered, mg/L as N (00631)	plus nitrite, water, filtered, mg/L as N (71851)	Nitrate, water, filtered, mg/L (00618)
10-27-2010	1410	.37	7.8	796	.44	<.013	<.010	<.02	<.089	<.020
11-23-2010	1230	.42	11.1	718	.36	.289	.225	.08	.300	.068
01-19-2011	1500	.36	7.8	811	.47	<.013	<.010	<.02	<.084	<.019
02-14-2011	1400	.39	8.7	736	.41	.212	.165	.04	.187	.042
04-19-2011	1300	.36	7.3	901	.47	<.013	<.010	.02	.102	.023
05-31-2011	1235	.39	5.9	912	.56	.050	.038	.03	.120	.027
06-22-2011	1115	.38	6.3	980	.50	.014	.011	<.02	<.089	<.020
07-26-2011	1025	.39	7.2	1,070	.47	<.013	<.010	<.02	<.089	<.020
08-22-2011	1114	<.04	<.1	<.09	.06	<.013	<.010	<.02	<.089	<.020
08-22-2011	1115	.44	7.3	1,050	.54	.020	.015	<.02	<.089	<.020

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 5 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Nitrite, water, filtered, mg/L (71856)		Organic nitrogen, water, unfiltered, mg/L (00605)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, mg/L (00600)
		Nitrite, water, filtered, mg/L (71856)	Nitrite, water, filtered, mg/L as N (00613)	mg/L (00605)	mg/L (00660)	mg/L as P (00671)	mg/L as P (00666)	mg/L as P (00665)	mg/L (00600)
10-27-2010	1410	<.003	<.001	<.44	.020	.007	<.02	<.02	<.46
11-23-2010	1230	.027	.008	.13	.032	.011	<.02	<.02	.43
01-19-2011	1500	.004	.001	<.47	.020	.007	<.02	<.02	<.49
02-14-2011	1400	.009	.003	.24	.026	.008	<.02	<.02	.45
04-19-2011	1300	<.003	<.001	<.47	.023	.008	<.02	<.02	.50
05-31-2011	1235	<.003	<.001	.52	.014	.005	<.02	<.02	.59
06-22-2011	1115	<.003	<.001	.49	.023	.007	<.02	.03	<.52
07-26-2011	1025	<.003	<.001	<.47	<.012	<.004	<.02	<.02	<.49
08-22-2011	1114	<.003	<.001	<.06	<.012	<.004	<.02	<.02	<.08
08-22-2011	1115	<.003	<.001	.52	.013	.004	<.02	.03	<.56

## Water-Data Report 2011

## 07312100 Wichita River near Mabelle, TX—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 6 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Barium, water,				Chromium, water,			Copper, water,	
		Barium, water, filtered, µg/L (01005)	unfiltered, recoverable, µg/L (01007)	Cadmium, water, filtered, µg/L (01025)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, filtered, µg/L (01030)	unfiltered, recoverable, µg/L (01034)	Copper, water, filtered, µg/L (01040)	unfiltered, recoverable, µg/L (01042)	Iron, water, filtered, µg/L (01046)
10-27-2010	1410	152	140	<.03	<.20	<.12	<.84	<1.0	<2.8	<10
11-23-2010	1230	27	26.7	<.05	<.15	.42	.64	<1.5	<2.1	<10
01-19-2011	1500	137	141	<.05	<.15	<.18	<.63	<1.5	<2.1	5
02-14-2011	1400	46	50.6	<.05	<.15	<.18	<.63	<1.5	<2.1	<10
04-19-2011	1300	132	137	<.05	<.15	.23	<.63	<1.5	<2.1	<10
05-31-2011	1235	160	141	<.06	<.15	<.24	<.63	<2.0	<2.1	<10
06-22-2011	1115	146	138	<.05	<.15	<.18	<.63	<1.5	<2.1	<10
07-26-2011	1025	134	130	<.05	<.15	<.18	1.2	<1.5	<2.1	<13
08-22-2011	1114	<.07	<.3	<.02	<.05	<.06	<.21	<.50	<.70	<3
08-22-2011	1115	141	144	<.05	<.15	<.18	<.63	<1.5	<2.1	<13

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 7 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Iron, water,			Lead, water,			Manganese, water,		Mercury, water,		Nickel, water,
		unfiltered, recoverable, µg/L (01045)	Lead, water, filtered, µg/L (01049)	unfiltered, recoverable, µg/L (01051)	Manganese, water, filtered, µg/L (01056)	unfiltered, recoverable, µg/L (01055)	Mercury, water, filtered, µg/L (71890)	unfiltered, recoverable, µg/L (71900)	Nickel, water, filtered, µg/L (01065)	unfiltered, recoverable, µg/L (01067)	Nickel, water, filtered, µg/L (01065)	unfiltered, recoverable, µg/L (01067)
10-27-2010	1410	39	<.03	<.14	2.6	31.1	<.005	<.005	.69	1.1		
11-23-2010	1230	243	<.04	<.11	190	201	<.005	<.005	.53	.95		
01-19-2011	1500	47	.06	<.11	5.4	16.6	<.005	<.005	.97	1.6		
02-14-2011	1400	300	<.04	<.11	185	209	<.005	<.005	.72	.73		
04-19-2011	1300	58	.06	<.11	6.1	7.3	<.005	<.005	1.1	.52		
05-31-2011	1235	90	<.06	.14	4.9	19.4	<.005	<.005	1.0	.72		
06-22-2011	1115	60	.05	<.11	1.3	13.8	<.005	<.005	.59	.56		
07-26-2011	1025	37	.06	<.11	4.0	22.3	<.005	<.005	.67	.56		
08-22-2011	1114	<5	<.01	<.04	.2	<.4	<.005	<.005	<.09	<.12		
08-22-2011	1115	34	<.04	<.11	2.2	42.0	<.005	<.005	.54	.90		

## 07312100 Wichita River near Mabelle, TX—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 8 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Silver, water,		Zinc, water,		Arsenic, water,		Selenium, water,		Aldrin, water,
		Silver, water, filtered, µg/L	unfiltered, µg/L (01075)	Zinc, water, filtered, µg/L	unfiltered, µg/L (01077)	Arsenic, water, filtered, µg/L	unfiltered, µg/L (01090)	Arsenic, water, unfiltered, µg/L	water, filtered, µg/L (01092)	Selenium, water, unfiltered, µg/L
10-27-2010	1410	<.01	<.06	<2.8	<9.6	4.1	8.6	<1	<1	--
11-23-2010	1230	<.01	<.04	<4.2	<7.2	3.3	6.2	<1	<1	--
01-19-2011	1500	<.01	<.04	<4.2	<7.2	3.8	7.9	1	1	--
02-14-2011	1400	<.01	<.04	<4.2	<7.2	3.4	7.7	<1	<1	--
04-19-2011	1300	<.01	<.04	<4.2	<7.2	3.8	4.9	<1	<1	<.04
05-31-2011	1235	<.02	<.04	<5.6	<7.2	4.6	5.2	<1	<1	--
06-22-2011	1115	<.01	<.04	--	<7.2	4.3	4.3	3	3	<.04
07-26-2011	1025	<.01	<.04	<4.2	<7.2	4.1	5.0	<1	<1	--
08-22-2011	1114	<.01	<.01	<1.4	<2.4	<.02	<.09	<1	<1	--
08-22-2011	1115	<.01	<.04	<4.2	<7.2	5.2	7.0	<1	<1	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 9 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	alpha-Endosulfan e, microgram s per liter	alpha-HCH, e, microgram s per liter	beta-Endosulfan e, microgram s per liter	beta-HCH, e, microgram s per liter	Chlordane (techni- recoverable, µg/L)	cis-Chlordane e, microgram s per liter	delta-HCH, e, microgram s per liter	Dieldrin, water, unfiltered, recoverable, µg/L	Endosulfan sulfate, water, unfiltered, recoverable, e, microgram s per liter
		(34361)	(39337)	(34356)	(39338)	(39350)	(39062)	(34259)	(39380)	(34351)
10-27-2010	1410	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
01-19-2011	1500	--	--	--	--	--	--	--	--	--
02-14-2011	1400	--	--	--	--	--	--	--	--	--
04-19-2011	1300	<.1	<.03	<.04	<.03	<.1	<.1	<.09	<.02	<.6
05-31-2011	1235	--	--	--	--	--	--	--	--	--
06-22-2011	1115	<.1	<.03	<.04	<.03	<.1	<.1	<.09	<.02	<.6
07-26-2011	1025	--	--	--	--	--	--	--	--	--
08-22-2011	1114	--	--	--	--	--	--	--	--	--
08-22-2011	1115	--	--	--	--	--	--	--	--	--

## 07312100 Wichita River near Mabelle, TX—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 10 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Endrin aldehyde, water, unfiltered, recoverable, e, microgram s per liter (34366)	Endrin, water, unfiltered, recoverable, e, µg/L (39390)	Heptachlor epoxide, water, unfiltered, recoverable, e, µg/L (39420)	Heptachlor, water, unfiltered, recoverable, e, µg/L (39410)	Lindane, water, unfiltered, recoverable, e, µg/L (39340)	p,p'-DDD, water, unfiltered, recoverable, e, microgram s per liter (39310)	p,p'-DDE, water, unfiltered, recoverable, e, µg/L (39320)	p,p'-DDT, water, unfiltered, recoverable, e, µg/L (39300)	Toxaphene, water, unfiltered, recoverable, e, µg/L (39400)
10-27-2010	1410	--	--	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--	--	--
01-19-2011	1500	--	--	--	--	--	--	--	--	--
02-14-2011	1400	--	--	--	--	--	--	--	--	--
04-19-2011	1300	<.2	<.06	<.8	<.03	<.03	<.1	<.04	<.1	<2
05-31-2011	1235	--	--	--	--	--	--	--	--	--
06-22-2011	1115	<.2	<.06	<.8	<.03	<.03	<.1	<.04	<.1	<2
07-26-2011	1025	--	--	--	--	--	--	--	--	--
08-22-2011	1114	--	--	--	--	--	--	--	--	--
08-22-2011	1115	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Part 11 of 11

[%, percent; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Aroclor 1016 plus trans-Chlordane, water, unfiltered, recoverable, e, microgram s per liter (39065)	Aroclor 1242, water, unfiltered, recoverable, e, µg/L (81648)	Aroclor 1221, water, unfiltered, recoverable, e, microgram s per liter (39488)	Aroclor 1232, water, unfiltered, recoverable, e, µg/L (39492)	Aroclor 1248, water, unfiltered, recoverable, e, microgram s per liter (39500)	Aroclor 1254, water, unfiltered, recoverable, e, µg/L (39504)	Aroclor 1260, water, unfiltered, recoverable, e, microgram s per liter (39508)
10-27-2010	1410	--	--	--	--	--	--	--
11-23-2010	1230	--	--	--	--	--	--	--
01-19-2011	1500	--	--	--	--	--	--	--
02-14-2011	1400	--	--	--	--	--	--	--
04-19-2011	1300	<.1	<.1	<1	<.1	<.1	<.1	<.1
05-31-2011	1235	--	--	--	--	--	--	--
06-22-2011	1115	<.1	<.1	<1	<.1	<.1	<.1	<.1
07-26-2011	1025	--	--	--	--	--	--	--
08-22-2011	1114	--	--	--	--	--	--	--
08-22-2011	1115	--	--	--	--	--	--	--

## 07312100 Wichita River near Mabelle, TX—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>October</b>				<b>November</b>				<b>December</b>			
<b>1</b>	5,200	5,090	5,160	5,130	5,080	5,110	5,190	5,060	5,140	5,110	5,050	5,090
<b>2</b>	5,210	5,100	5,160	5,140	5,090	5,120	5,140	5,040	5,110	5,130	5,050	5,100
<b>3</b>	5,210	5,140	5,190	5,150	5,110	5,130	5,150	5,060	5,110	5,130	5,070	5,100
<b>4</b>	5,220	5,120	5,180	5,160	5,110	5,140	5,150	5,100	5,120	5,120	4,910	5,080
<b>5</b>	5,210	4,840	5,040	5,150	4,950	5,090	5,150	5,070	5,110	4,920	4,900	4,910
<b>6</b>	4,840	4,820	4,830	5,160	5,060	5,120	5,120	5,040	5,090	5,110	4,900	4,940
<b>7</b>	4,830	4,820	4,830	5,130	5,060	5,100	5,120	5,040	5,090	5,110	4,940	5,030
<b>8</b>	4,830	4,800	4,820	5,120	5,040	5,080	5,100	5,010	5,070	5,130	4,910	4,970
<b>9</b>	4,810	4,790	4,800	5,090	4,900	4,990	5,120	5,040	5,080	4,980	4,950	4,960
<b>10</b>	4,800	4,740	4,790	5,050	4,990	5,020	5,070	5,020	5,050	5,030	4,970	5,010
<b>11</b>	4,790	4,750	4,780	5,070	5,000	5,040	5,070	5,030	5,060	5,040	5,020	5,030
<b>12</b>	4,790	4,750	4,780	5,060	4,920	5,010	5,110	5,020	5,080	5,040	5,030	5,040
<b>13</b>	4,780	4,750	4,770	5,090	5,030	5,070	5,100	5,020	5,060	5,050	5,040	5,040
<b>14</b>	4,780	4,760	4,770	5,110	5,040	5,080	5,080	5,000	5,050	5,050	5,040	5,040
<b>15</b>	4,780	4,760	4,760	5,090	5,020	5,060	5,100	5,040	5,060	5,050	5,040	5,040
<b>16</b>	4,770	4,730	4,760	5,100	5,040	5,070	5,070	5,010	5,050	5,060	5,050	5,050
<b>17</b>	4,770	4,720	4,760	5,120	5,060	5,100	5,070	5,020	5,040	5,070	5,050	5,060
<b>18</b>	4,780	4,730	4,770	5,100	5,030	5,080	5,060	4,980	5,030	5,080	5,060	5,070
<b>19</b>	4,790	4,770	4,780	5,150	5,040	5,100	5,070	4,950	5,020	5,090	5,070	5,080
<b>20</b>	4,800	4,780	4,800	5,160	5,080	5,130	5,060	5,000	5,030	5,140	5,080	5,130
<b>21</b>	4,810	4,750	4,800	5,130	5,070	5,100	5,020	4,940	4,990	5,130	5,120	5,120
<b>22</b>	4,810	4,710	4,800	5,110	5,020	5,060	5,050	4,980	5,010	5,140	5,120	5,130
<b>23</b>	4,820	4,750	4,800	5,150	5,030	5,070	5,040	5,000	5,020	5,140	5,130	5,140
<b>24</b>	4,820	4,790	4,810	5,150	5,060	5,110	5,020	4,810	4,990	5,150	5,140	5,140
<b>25</b>	4,830	4,780	4,820	5,180	5,100	5,130	5,050	5,010	5,030	5,160	5,140	5,150
<b>26</b>	4,840	4,780	4,830	5,170	5,080	5,140	5,060	4,960	5,040	5,170	5,150	5,150
<b>27</b>	5,020	4,830	4,880	5,160	5,060	5,130	5,070	5,000	5,040	5,170	5,160	5,160
<b>28</b>	5,100	5,020	5,080	5,160	5,100	5,130	5,060	4,990	5,030	5,170	5,160	5,170
<b>29</b>	5,130	5,060	5,100	5,140	5,080	5,110	5,080	5,010	5,040	5,180	5,170	5,180
<b>30</b>	5,130	5,060	5,100	5,180	5,110	5,140	5,080	5,030	5,050	5,190	5,180	5,190
<b>31</b>	5,130	5,040	5,090	---	---	---	5,130	5,040	5,090	5,210	5,190	5,200
<b>Month</b>	5,220	4,710	4,890	5,180	4,900	5,090	5,190	4,810	5,060	5,210	4,900	5,080

**07312100 Wichita River near Mabelle, TX—Continued**
**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

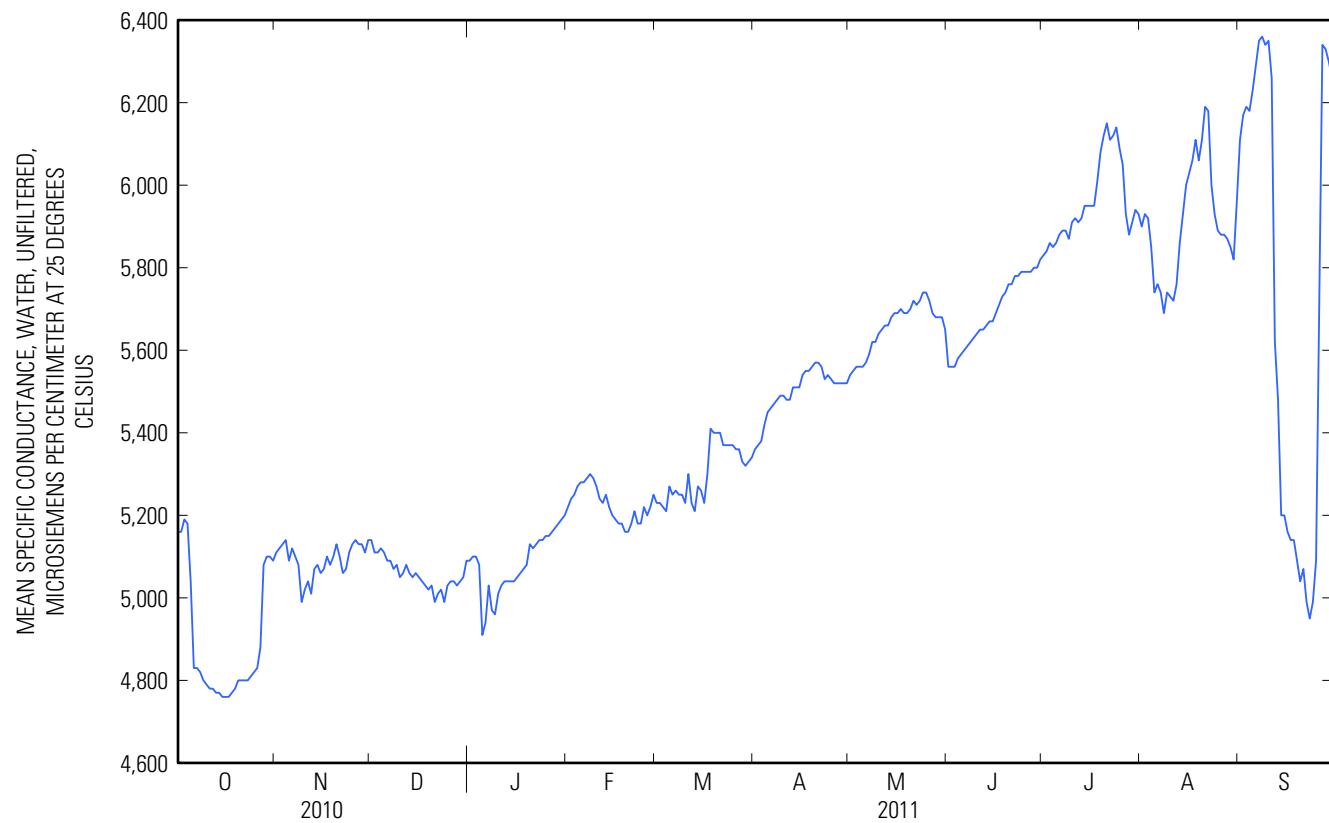
<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>
<b>February</b>				<b>March</b>				<b>April</b>				<b>May</b>
<b>1</b>	5,230	5,200	5,220	5,250	5,180	5,230	5,380	5,350	5,360	5,550	5,500	5,540
<b>2</b>	5,250	5,230	5,240	5,270	5,160	5,230	5,380	5,360	5,370	5,560	5,540	5,550
<b>3</b>	5,260	5,250	5,250	5,250	5,170	5,220	5,400	5,360	5,380	5,560	5,550	5,560
<b>4</b>	5,280	5,260	5,270	5,280	5,180	5,210	5,440	5,390	5,420	5,560	5,550	5,560
<b>5</b>	5,280	5,270	5,280	5,310	5,230	5,270	5,460	5,440	5,450	5,570	5,560	5,560
<b>6</b>	5,300	5,280	5,280	5,300	5,190	5,250	5,480	5,460	5,460	5,580	5,560	5,570
<b>7</b>	5,300	5,280	5,290	5,340	5,190	5,260	5,480	5,460	5,470	5,610	5,560	5,590
<b>8</b>	5,310	5,290	5,300	5,320	5,150	5,250	5,490	5,470	5,480	5,630	5,570	5,620
<b>9</b>	5,320	5,230	5,290	5,320	5,170	5,250	5,500	5,480	5,490	5,640	5,610	5,620
<b>10</b>	5,320	5,200	5,270	5,270	5,170	5,230	5,500	5,470	5,490	5,650	5,630	5,640
<b>11</b>	5,300	5,180	5,240	5,370	5,260	5,300	5,480	5,470	5,480	5,660	5,640	5,650
<b>12</b>	5,260	5,180	5,230	5,290	5,170	5,230	5,500	5,460	5,480	5,670	5,650	5,660
<b>13</b>	5,300	5,200	5,250	5,280	5,140	5,210	5,520	5,480	5,510	5,670	5,650	5,660
<b>14</b>	5,250	5,150	5,220	5,320	5,220	5,270	5,540	5,490	5,510	5,700	5,670	5,680
<b>15</b>	5,240	5,170	5,200	5,280	5,240	5,260	5,540	5,480	5,510	5,700	5,690	5,690
<b>16</b>	5,240	5,140	5,190	5,280	5,170	5,230	5,550	5,520	5,540	5,700	5,680	5,690
<b>17</b>	5,230	5,130	5,180	5,410	5,200	5,300	5,560	5,530	5,550	5,710	5,690	5,700
<b>18</b>	5,230	5,130	5,180	5,410	5,400	5,410	5,570	5,540	5,550	5,710	5,670	5,690
<b>19</b>	5,220	5,120	5,160	5,410	5,390	5,400	5,570	5,540	5,560	5,700	5,680	5,690
<b>20</b>	5,200	5,110	5,160	5,400	5,390	5,400	5,580	5,560	5,570	5,720	5,670	5,700
<b>21</b>	5,220	5,150	5,180	5,410	5,380	5,400	5,580	5,560	5,570	5,750	5,700	5,720
<b>22</b>	5,240	5,160	5,210	5,390	5,320	5,370	5,570	5,540	5,560	5,730	5,680	5,710
<b>23</b>	5,220	5,140	5,180	5,380	5,350	5,370	5,550	5,500	5,530	5,740	5,700	5,720
<b>24</b>	5,220	5,120	5,180	5,380	5,360	5,370	5,560	5,530	5,540	5,760	5,720	5,740
<b>25</b>	5,260	5,180	5,220	5,380	5,350	5,370	5,540	5,520	5,530	5,760	5,720	5,740
<b>26</b>	5,250	5,130	5,200	5,360	5,350	5,360	5,540	5,510	5,520	5,740	5,700	5,720
<b>27</b>	5,310	5,130	5,220	5,370	5,360	5,360	5,530	5,510	5,520	5,710	5,660	5,690
<b>28</b>	5,330	5,200	5,250	5,360	5,280	5,330	5,520	5,510	5,520	5,690	5,670	5,680
<b>29</b>	---	---	---	5,360	5,260	5,320	5,530	5,490	5,520	5,690	5,670	5,680
<b>30</b>	---	---	---	5,350	5,320	5,330	5,540	5,490	5,520	5,690	5,670	5,680
<b>31</b>	---	---	---	5,350	5,330	5,340	---	---	---	5,680	5,580	5,650
<b>Month</b>	5,330	5,110	5,230	5,410	5,140	5,300	5,580	5,350	5,500	5,760	5,500	5,660

## 07312100 Wichita River near Mabelle, TX—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
1	5,580	5,550	5,560	5,840	5,820	5,830	5,920	5,880	5,900	6,140	6,030	6,110
2	5,570	5,550	5,560	5,860	5,830	5,840	5,950	5,910	5,930	6,210	6,130	6,170
3	5,570	5,560	5,560	5,860	5,850	5,860	5,960	5,880	5,920	6,210	6,150	6,190
4	5,590	5,570	5,580	5,880	5,810	5,850	5,900	5,790	5,850	6,200	6,160	6,180
5	5,600	5,580	5,590	5,880	5,830	5,860	5,790	5,700	5,740	6,270	6,200	6,230
6	5,610	5,590	5,600	5,900	5,870	5,880	5,800	5,730	5,760	6,340	6,250	6,290
7	5,620	5,600	5,610	5,900	5,880	5,890	5,760	5,710	5,740	6,360	6,330	6,350
8	5,630	5,600	5,620	5,920	5,860	5,890	5,730	5,630	5,690	6,380	6,330	6,360
9	5,640	5,620	5,630	5,900	5,860	5,870	5,750	5,730	5,740	6,350	6,320	6,340
10	5,650	5,620	5,640	5,920	5,900	5,910	5,750	5,710	5,730	6,360	6,320	6,350
11	5,650	5,640	5,650	5,940	5,910	5,920	5,750	5,690	5,720	6,360	5,850	6,260
12	5,660	5,640	5,650	5,930	5,880	5,910	5,840	5,710	5,760	5,850	5,350	5,620
13	5,670	5,640	5,660	5,930	5,900	5,920	5,900	5,810	5,860	5,630	5,350	5,480
14	5,680	5,640	5,670	5,970	5,920	5,950	5,980	5,890	5,930	5,350	5,120	5,200
15	5,680	5,660	5,670	5,960	5,920	5,950	6,020	5,960	6,000	5,280	5,120	5,200
16	5,710	5,680	5,690	5,970	5,940	5,950	6,050	6,020	6,030	5,210	5,110	5,160
17	5,730	5,700	5,710	5,980	5,900	5,950	6,090	6,030	6,060	5,200	4,980	5,140
18	5,740	5,710	5,730	6,050	5,970	6,010	6,140	6,080	6,110	5,250	5,040	5,140
19	5,760	5,730	5,740	6,100	6,050	6,080	6,100	6,040	6,060	5,140	5,050	5,090
20	5,770	5,750	5,760	6,140	6,100	6,120	6,160	6,070	6,110	5,080	4,980	5,040
21	5,770	5,760	5,760	6,160	6,120	6,150	6,240	6,140	6,190	5,180	4,930	5,070
22	5,820	5,750	5,780	6,160	6,090	6,110	6,240	6,060	6,180	5,080	4,820	4,990
23	5,790	5,780	5,780	6,150	6,100	6,120	6,060	5,960	6,000	5,010	4,830	4,950
24	5,800	5,780	5,790	6,160	6,090	6,140	5,960	5,910	5,930	5,070	4,880	4,990
25	5,800	5,780	5,790	6,140	6,050	6,090	5,920	5,870	5,890	5,140	4,990	5,090
26	5,800	5,780	5,790	6,120	5,960	6,050	5,900	5,860	5,880	6,330	4,970	5,710
27	5,800	5,780	5,790	5,970	5,910	5,930	5,900	5,860	5,880	6,370	6,300	6,340
28	5,800	5,790	5,800	5,910	5,850	5,880	5,890	5,840	5,870	6,350	6,310	6,330
29	5,810	5,790	5,800	5,940	5,870	5,910	5,870	5,810	5,850	6,350	6,270	6,300
30	5,820	5,810	5,820	5,950	5,930	5,940	5,890	5,800	5,820	6,290	6,210	6,260
31	---	---	---	5,970	5,900	5,930	6,050	5,890	5,960	---	---	---
<b>Month</b>	<b>5,820</b>	<b>5,550</b>	<b>5,690</b>	<b>6,160</b>	<b>5,810</b>	<b>5,960</b>	<b>6,240</b>	<b>5,630</b>	<b>5,910</b>	<b>6,380</b>	<b>4,820</b>	<b>5,730</b>

	<b>Max</b>	<b>Min</b>	<b>Mean</b>
<b>Year</b>	<b>6,380</b>	<b>4,710</b>	<b>5,430</b>

**07312100 Wichita River near Mabelle, TX—Continued**

**07312100 Wichita River near Mabelle, TX—Continued**
**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	
<b>October</b>				<b>November</b>				<b>December</b>				<b>January</b>	
<b>1</b>	25.8	17.8	21.2	19.5	14.4	16.6	15.3	6.6	10.3	12.7	6.4	8.6	
<b>2</b>	25.0	17.6	20.9	18.8	13.8	16.0	15.1	8.7	11.4	12.2	4.7	7.8	
<b>3</b>	21.5	16.0	18.3	18.4	12.2	15.0	16.6	9.3	12.2	13.0	6.2	9.3	
<b>4</b>	24.0	14.9	18.6	18.3	12.2	14.5	13.4	10.3	11.6	14.4	7.6	9.5	
<b>5</b>	23.5	15.7	19.8	19.1	11.0	14.1	12.7	8.3	10.2	8.0	7.5	7.7	
<b>6</b>	23.4	22.9	23.1	19.3	11.0	14.3	14.1	7.6	10.1	7.8	7.4	7.6	
<b>7</b>	23.1	22.7	22.9	20.0	12.1	15.0	15.0	8.1	10.5	7.9	7.3	7.6	
<b>8</b>	22.8	22.5	22.7	21.0	12.5	15.9	16.2	8.8	11.5	7.7	7.2	7.4	
<b>9</b>	22.8	22.2	22.5	20.0	14.2	16.8	16.2	9.3	11.6	7.4	6.9	7.2	
<b>10</b>	22.4	22.0	22.2	19.8	14.1	16.4	15.0	9.6	11.8	6.9	6.5	6.8	
<b>11</b>	22.1	21.8	21.9	21.6	14.4	17.5	12.9	9.6	10.9	6.7	6.2	6.4	
<b>12</b>	22.1	21.8	21.9	17.5	12.7	15.7	12.8	7.1	9.3	6.4	6.2	6.3	
<b>13</b>	22.0	21.5	21.8	18.6	11.1	13.9	15.0	6.8	10.0	6.6	6.0	6.2	
<b>14</b>	21.8	21.3	21.6	18.2	10.5	13.6	15.6	8.0	10.7	6.5	5.9	6.2	
<b>15</b>	21.7	21.3	21.5	17.1	12.7	14.0	14.8	7.7	11.1	6.6	6.2	6.3	
<b>16</b>	21.8	21.1	21.4	17.8	10.5	13.6	13.4	9.0	10.8	6.4	6.0	6.2	
<b>17</b>	21.5	21.0	21.2	16.2	10.2	12.6	10.5	8.8	9.7	6.6	5.9	6.1	
<b>18</b>	21.3	20.9	21.1	17.3	10.5	13.0	14.5	9.1	10.8	6.5	6.0	6.2	
<b>19</b>	21.1	20.7	20.9	17.8	10.3	12.8	16.6	8.4	11.5	6.6	5.9	6.2	
<b>20</b>	21.0	20.6	20.8	19.3	11.6	14.7	16.1	10.2	12.8	6.2	5.7	5.9	
<b>21</b>	21.2	20.6	20.9	21.1	15.1	17.2	18.7	11.2	13.8	6.3	5.5	5.9	
<b>22</b>	20.8	20.4	20.5	20.5	15.1	17.5	13.4	9.9	11.2	6.4	5.6	6.0	
<b>23</b>	20.4	20.0	20.3	18.8	12.4	14.9	10.9	9.0	10	6.3	5.9	6.1	
<b>24</b>	20.4	19.8	20.1	19.9	13.9	16.7	11.1	9.1	10.2	6.5	5.7	6.1	
<b>25</b>	20.2	19.7	19.9	16.4	9.3	11.7	10.9	7.1	8.6	6.3	5.9	6.1	
<b>26</b>	19.9	19.4	19.7	15.3	7.6	10.4	12.1	5.9	8.2	6.5	6.0	6.2	
<b>27</b>	20.0	16.2	19.3	15.9	8.1	11.1	12.6	6.3	8.9	6.4	5.8	6.1	
<b>28</b>	20.3	13.4	16.1	15.9	8.9	11.9	13.8	8.4	10.7	7.1	6.3	6.6	
<b>29</b>	20.5	12.2	15.6	16.8	10.9	13.0	16.6	11.6	13.1	7.6	6.6	7.1	
<b>30</b>	21.9	13.2	16.7	13.9	7.4	10.1	15.6	11.6	13.2	6.9	6.5	6.8	
<b>31</b>	23.4	14.3	17.9	---	---	---	13.2	8.9	10.2	6.8	6.2	6.5	
<b>Month</b>	25.8	12.2	20.4	21.6	7.4	14.3	18.7	5.9	10.9	14.4	4.7	6.8	

**07312100 Wichita River near Mabelle, TX—Continued**
**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	<b>Max</b>	<b>Min</b>	<b>Mean</b>	
<b>February</b>				<b>March</b>				<b>April</b>				<b>May</b>	
<b>1</b>	6.3	5.3	5.8	20.0	8.5	13.4	14.3	13.5	13.9	18.5	17.7	18.0	
<b>2</b>	5.3	4.8	5.1	20.6	11.7	15.3	16.0	13.9	14.9	18.1	17.5	17.7	
<b>3</b>	4.8	4.5	4.6	21.4	11.8	15.8	16.1	14.6	15.6	18.5	17.3	17.8	
<b>4</b>	4.8	4.3	4.5	20.1	13.0	16.0	15.8	14.5	14.8	18.6	17.8	18.3	
<b>5</b>	5.4	4.3	4.8	17.1	9.1	12.4	15.2	14.4	14.8	18.1	17.5	17.8	
<b>6</b>	5.2	4.6	4.8	18.0	8.0	12.5	15.4	14.6	14.9	19.2	17.5	18.3	
<b>7</b>	5.0	4.4	4.7	17.0	10.8	13.3	16.6	15.2	15.6	19.6	18.1	18.8	
<b>8</b>	5.4	4.5	4.9	21.9	12.2	15.7	17.3	16.2	16.9	20.5	18.8	19.6	
<b>9</b>	7.8	3.9	5.3	19.2	9.3	13.4	17.9	16.9	17.4	20.7	19.5	20.0	
<b>10</b>	12.1	3.2	7.0	20.8	9.6	14.2	17.8	16.6	17.3	20.3	19.6	20.0	
<b>11</b>	14.9	4.3	8.6	19.2	10.2	14.3	17.9	16.9	17.5	20.3	19.7	20.0	
<b>12</b>	15.3	6.4	10	21.3	11.0	15.5	18.6	17.5	18.0	20.3	19.7	20.0	
<b>13</b>	16.7	6.2	10.8	22.0	12.2	15.9	18.2	17.7	18.0	20.6	19.8	20.2	
<b>14</b>	16.4	9.3	12.3	19.8	10.3	14.0	18.4	17.5	17.9	20.6	19.9	20.2	
<b>15</b>	19.1	9.3	13.4	15.4	9.9	12.6	18.2	17.2	17.6	20.5	19.9	20.2	
<b>16</b>	21.1	9.8	14.7	23.2	11.1	16.2	17.8	17.0	17.3	20.6	20.0	20.3	
<b>17</b>	20.9	13.7	16.5	23.9	12.6	15.7	17.7	16.8	17.2	20.9	20.1	20.4	
<b>18</b>	20.2	12.0	15.5	13.1	12.4	12.8	18.8	17.2	17.7	21.2	19.9	20.6	
<b>19</b>	20.5	14.1	16.6	14.6	12.4	13.3	18.7	17.8	18.2	21.6	20.5	21.0	
<b>20</b>	23.1	15.2	18.2	14.2	13.4	13.8	17.9	17.3	17.4	21.7	20.8	21.3	
<b>21</b>	18.0	11.9	15.2	14.6	13.6	14.1	18.2	17.2	17.5	22.4	21.3	21.9	
<b>22</b>	16.8	8.9	12.5	14.9	13.8	14.0	19.5	17.9	18.4	22.8	21.6	22.2	
<b>23</b>	19.2	11.4	14.9	14.8	14.4	14.6	19.5	18.4	18.8	23.4	22.3	22.8	
<b>24</b>	20.4	12.3	16.4	14.9	14.2	14.5	18.8	18.4	18.6	24.0	22.5	23.0	
<b>25</b>	16.0	8.7	11.6	15.0	14.5	14.7	19.1	18.6	18.8	23.2	22.2	22.6	
<b>26</b>	19.5	8.8	12.9	15.3	14.6	14.8	19.4	18.8	19.0	23.1	22.0	22.4	
<b>27</b>	19.5	12.6	15.9	14.8	14.6	14.7	19.0	18.3	18.7	23.5	22.1	22.8	
<b>28</b>	17.6	9.1	12.6	14.6	14.4	14.5	19.1	18.2	18.6	24.6	23.0	23.4	
<b>29</b>	---	---	---	14.4	14.0	14.2	19.5	18.4	18.9	24.6	23.6	24.2	
<b>30</b>	---	---	---	14.1	13.8	14.0	19.0	18.3	18.6	24.1	23.2	23.6	
<b>31</b>	---	---	---	14.4	13.7	13.9	---	---	---	24.6	23.4	23.9	
<b>Month</b>	23.1	3.2	10.7	23.9	8.0	14.3	19.5	13.5	17.3	24.6	17.3	20.8	

**07312100 Wichita River near Mabelle, TX—Continued**
**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
<b>1</b>	24.9	23.8	24.3	28.3	26.9	27.5	30.8	29.1	29.8	28.8	27.4	28.0
<b>2</b>	24.4	23.9	24.2	28.5	27.2	27.8	30.6	29.1	29.8	29.0	27.4	28.1
<b>3</b>	24.4	23.6	24.1	28.4	27.3	27.7	30.8	29.4	29.9	28.4	27.3	27.8
<b>4</b>	25.1	23.8	24.4	28.5	27.5	28.0	31.0	29.0	30.0	27.7	26.5	27.0
<b>5</b>	25.7	24.2	24.8	29.0	27.9	28.3	30.4	28.5	29.2	26.6	26.0	26.3
<b>6</b>	26.0	24.8	25.4	29.2	28.0	28.4	30.3	28.9	29.6	26.8	25.6	26.1
<b>7</b>	25.7	24.7	25.2	29.3	27.9	28.5	30.6	29.1	29.6	25.8	24.9	25.5
<b>8</b>	25.4	24.4	24.9	29.6	28.1	28.6	29.9	28.6	29.3	25.4	24.7	25.0
<b>9</b>	25.4	24.4	24.9	30.0	28.3	29.1	30.6	28.8	29.4	25.2	24.7	24.9
<b>10</b>	26.0	24.5	25.2	29.4	28.0	28.7	30.5	29.1	29.6	25.8	24.5	25.0
<b>11</b>	26.5	25.0	25.7	29.6	27.8	28.5	29.6	28.4	28.8	25.9	22.3	24.8
<b>12</b>	25.8	24.9	25.4	29.5	27.8	28.5	30.0	28.1	28.9	29.0	19.7	23.9
<b>13</b>	25.9	24.8	25.3	29.4	27.8	28.4	29.2	28.2	28.7	26.8	20.0	23.3
<b>14</b>	25.8	24.9	25.3	29.4	27.9	28.5	30.8	28.6	29.3	26.3	21.6	23.4
<b>15</b>	26.0	25.1	25.5	29.4	28.2	28.7	30.1	29.3	29.7	22.1	18.6	19.6
<b>16</b>	26.0	25.4	25.6	28.9	28.3	28.6	29.6	28.8	29.2	26.0	17.4	20.6
<b>17</b>	26.1	25.2	25.7	29.4	28.1	28.6	30.2	28.4	29.1	29.7	20.4	24.0
<b>18</b>	26.6	25.6	26.0	28.7	28.1	28.4	29.8	28.6	29.2	30.7	21.3	24.8
<b>19</b>	26.5	25.8	26.2	29.1	28.3	28.6	29.8	28.3	29.0	27.5	19.4	22.9
<b>20</b>	26.4	25.6	26.0	29.5	28.2	28.8	29.6	28.3	28.9	28.8	18.0	22.5
<b>21</b>	26.2	25.9	26.0	29.8	28.3	28.9	29.7	28.3	28.8	29.3	19.7	23.4
<b>22</b>	27.1	26.1	26.6	29.2	28.0	28.6	29.8	28.0	28.7	23.4	17.7	20.4
<b>23</b>	27.7	26.1	26.9	29.3	27.9	28.6	29.7	28.4	29.0	27.9	16.0	21.0
<b>24</b>	27.1	26.0	26.6	30.0	28.3	29.0	29.6	28.4	28.9	29.9	17.6	22.6
<b>25</b>	27.1	25.9	26.5	30.1	29.0	29.4	29.6	28.3	28.8	27.0	19.0	22.2
<b>26</b>	27.4	26.1	26.7	30.1	28.6	29.2	30.0	28.2	28.8	23.2	17.6	21.2
<b>27</b>	27.4	26.3	26.7	29.9	28.2	29.0	30.4	29.5	29.9	22.8	22.0	22.4
<b>28</b>	28.3	26.9	27.3	29.4	28.2	28.7	30.8	29.6	30.2	24.5	22.1	23.1
<b>29</b>	28.5	26.8	27.6	29.4	28.3	28.7	30.6	28.9	29.4	24.3	22.0	23.1
<b>30</b>	28.2	26.8	27.5	29.8	28.2	28.9	29.4	28.0	28.7	22.6	21.7	22.1
<b>31</b>	---	---	---	30.3	28.4	29.2	28.6	27.6	28.0	---	---	---
<b>Month</b>	28.5	23.6	25.8	30.3	26.9	28.6	31.0	27.6	29.2	30.7	16.0	23.8

	<b>Max</b>	<b>Min</b>	<b>Mean</b>
<b>Year</b>	31.0	3.2	18.6

Water-Data Report 2011  
**07312100 Wichita River near Mabelle, TX—Continued**

