Water-Data Report 2011

07308500 Red River near Burkburnett, TX

Red-Pease Basin
Blue-China Subbasin

LOCATION.--Lat 34°06′36″, long 98°31′53″ referenced to North American Datum of 1927, Wichita County, TX, Hydrologic Unit 11130102, on downstream guardrail of downstream bridge on U.S. Highways 277 and 281, 2.5 mi northeast of Burkburnett, and at mile 933.

DRAINAGE AREA.--20,570 mi^2 of which 5,936 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1924 to Sept. 1924 (daily mean discharge), Oct. 1924 to Aug. 1925 (monthly discharge only), Dec. 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 952.57 ft above NGVD of 1929. July 11, 1924, to Aug. 31, 1925, nonrecording gage at site 1,000 ft downstream at same datum. Dec. 16, 1959, to Jan. 11, 1960, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. No known regulation. There are many small diversions upstream from station for irrigation. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 3, 1957, reached a stage of 13.54 ft, from floodmarks. According to local residents, higher stages occurred in 1891 and June 1941.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 24	1915	*5,750	*6.20

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 07308500, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/07308500.2011.pdf

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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	147	254	191	194	e219	182	132	71	36	e14	0.00	0.00
2	147	219	186	188	e216	164	121	78	27	e13	0.00	0.00
3	138	191	185	186	e213	151	108	86	22	e12	0.00	0.00
4	127	171	183	184	e210	157	107	79	19	e11	0.00	0.00
5	121	161	176	180	e207	151	101	66	17	e11	0.00	0.00
6	122	155	182	187	e204	141	101	57	49	e11	0.00	0.00
7	121	144	180	198	e201	126	94	52	45	9.9	0.00	0.00
8	118	140	178	200	e198	129	91	49	35	8.8	0.00	0.00
9	113	131	175	188	e195	133	89	45	23	3.5	0.00	0.00
10	107	133	176	202	193	136	90	42	19	1.9	0.00	0.00
11	118	127	176	202	216	122	88	43	17	0.88	e0.00	0.00
12	113	134	176	205	271	122	84	49	14	0.41	0.00	0.00
13	120	151	176	191	305	124	79	49	12	0.19	0.00	0.00
14	268	167	183	190	335	123	76	54	11	0.00	0.00	0.00
15	171	249	187	196	308	123	68	52	38	0.00	0.00	0.00
16	135	965	186	202	297	122	70	46	30	0.00	0.00	0.00
17	122	695	183	214	297	123	60	38	19	0.00	0.00	0.47
18	115	514	185	220	296	130	60	33	15	0.00	0.00	242
19	111	431	181	218	272	127	55	30	11	0.00	0.00	12
20	109	365	192	231	248	118	57	1,110	16	0.00	0.00	2.8
21	101	362	194	233	239	121	56	2,260	53	0.00	0.00	0.75
22	198	335	190	230	223	120	57	666	35	0.00	0.00	0.00
23	362	299	191	229	209	126	58	2,070	23	0.00	0.00	0.00
24	2,890	281	200	229	200	112	72	667	14	0.00	0.00	0.00
25	3,520	256	206	226	196	117	71	283	11	0.00	0.00	0.00
26	1,680	246	208	227	201	113	70	142	9.1	0.00	0.00	0.00
27	977	230	196	e227	200	113	64	92	9.5	0.00	0.00	0.00
28	617	212	201	e224	197	116	67	82	9.9	0.00	0.00	0.00
29	458	205	194	222	---	124	58	60	10	0.00	0.00	0.00
30	358	193	192	222	---	132	61	48	11	0.00	0.00	0.00
31	301	---	192	222	---	135	---	43	---	0.00	0.00	---
Total	14,105	8,116	5,801	6,467	6,566	4,033	2,365	8,542	660.5	97.58	0.00	258.02
Mean	455	271	187	209	234	130	78.8	276	22.0	3.15	0.00	8.60
Max	3,520	965	208	233	335	182	132	2,260	53	14	0.00	242
Min	101	127	175	180	193	112	55	30	9.1	0.00	0.00	0.00
Ac-ft	27,980	16,100	11,510	12,830	13,020	8,000	4,690	16,940	1,310	194	0.00	512

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,346	671	530	493	671	914	1,080	2,166	3,053	976	802	1,180
Max	14,900	4,960	4,435	2,293	4,986	10,050	13,040	12,470	24,780	6,349	10,540	6,381
(WY)	(1987)	(1987)	(1992)	(1998)	(1998)	(1998)	(1997)	(1977)	(1995)	(2010)	(1995)	(1996)
Min	21.9	0.96	2.98	5.53	8.37	7.97	0.15	11.4	22.0	0.06	0.00	8.60
(WY)	(1971)	(1971)	(1971)	(1971)	(1971)	(1971)	(1971)	(1971)	(2011)	(1970)	(2011)	(2011)

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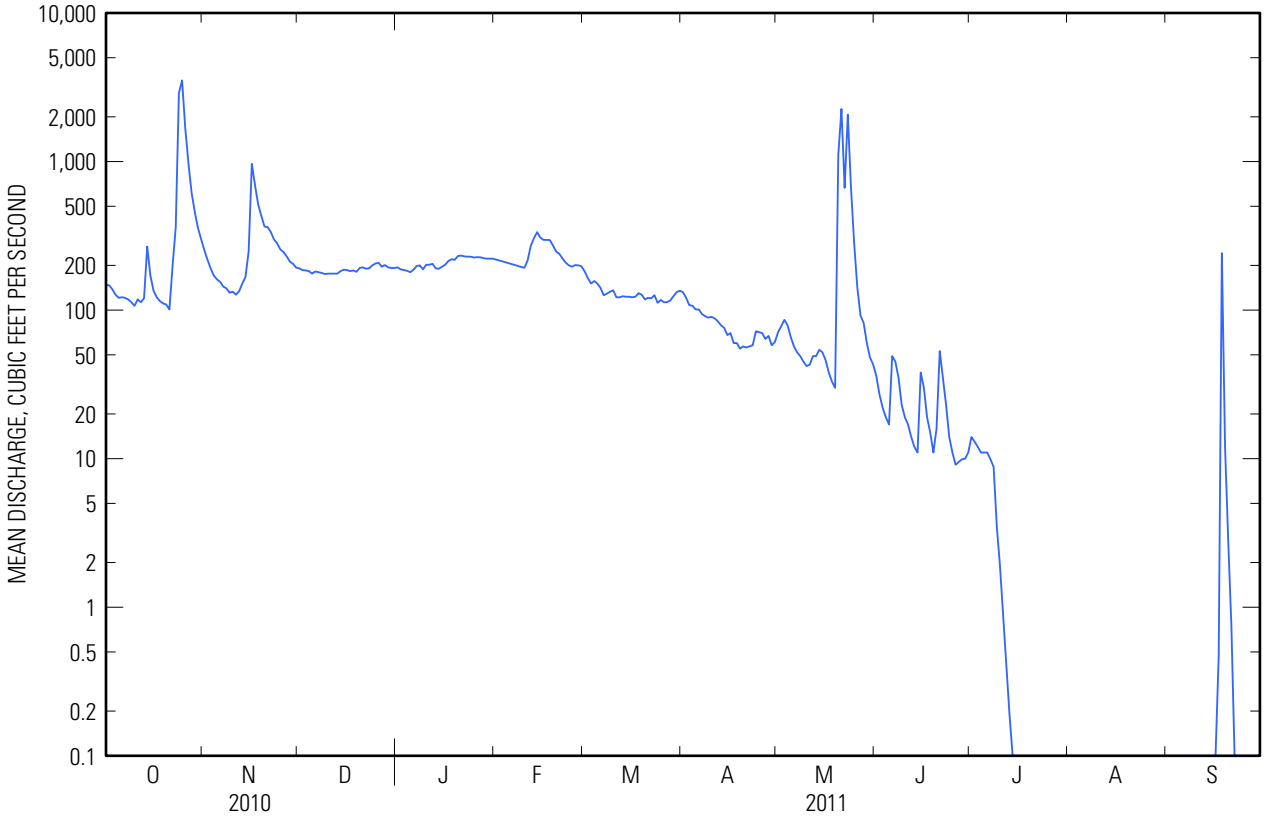
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1960 - 2011	
Annual total	484,817		57,011.10			
Annual mean	1,328		156		1,159	
Highest annual mean					4,424	1987
Lowest annual mean					156	2011
Highest daily mean	32,800	Jul 11	3,520	Oct 25	144,000	Jun 6, 1995
Lowest daily mean	101	Oct 21	0.00	Jul 14	0.00	Jul 19, 1964
Annual seven-day minimum	116	Oct 7	0.00	Jul 14	0.00	Jul 19, 1964
Maximum peak flow			5,750	Oct 24	174,000	Jun 6, 1995
Maximum peak stage			6.43	May 21	16.90	Oct 21, 1983
Instantaneous low flow					0.00	Jul 31, 2006
Annual runoff (ac-ft)	961,600		113,100		839,500	
10 percent exceeds	2,370		248		2,300	
50 percent exceeds	404		115		292	
90 percent exceeds	173		0.00		51	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1959 to May 2007, July 2009 to Sept 2011 (discontinued).
BIOCHEMICAL DATA: Oct. 1959 to May 2007, July 2009 to Sept 2011 (discontinued).
BIOLOGICAL DATA: Oct. 1974 to Aug. 1981.
PESTICIDE DATA: Oct. 1973 to Sept. 1982, Oct. 1996 to May 2007, July 2009 to Sept 2011 (discontinued).
RADIOCHEMICAL DATA: Dec. 1980 to July 1981.
SEDIMENT DATA: Oct. 1974 to Aug. 1994.
TAXONOMIC DATA: Oct. 1974 to Aug. 1981.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1968 to Sept. 1981, Oct. 1994 to Jan. 2003, Dec. 2003 to Sept 2011.
WATER TEMPERATURE: July 1968 to Sept. 1981, Oct. 1994 to May 2003, Nov. 2003 to Sept 2011.

INSTRUMENTATION.--Water-quality monitor Dec. 1968 to Sept. 1981 and Oct. 1994 to May 2003, Nov. 2003 to Sept 2011.

REMARKS.--Temperature record good. 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 site went to no-flow conditions on July 14 to Sept. 16 and Sept. 22 to Sept. 30. The computation of the selected constituent loads might include estimated discharge or specific conductance data. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 17,600 microsiemens/cm, June 24, 2008; minimum, 440 microsiemens/cm, Apr. 13, 2002, Sept. 18, 2011.
WATER TEMPERATURE: Maximum, 38.4°C, July 8, 2001; minimum -0.9°, Dec. 7-11, 2005 .

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 16,700 microsiemens/cm, June 7; minimum, 440 microsiemens/cm, Sept. 18.

WATER TEMPERATURE: Maximum, 38.4°C, July 8; minimum, -0.6°C, Feb. 1-5.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 11

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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)	Tempera-ture, air, °C (00020)	Discharge, instanta-neous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
10-20-2010	**1350**	Surface water	Regular	749	19.4	110	10.6	129
12-08-2010	***1504***	*QC sample - Artificial*	*Blank*	--	--	--	--	--
12-08-2010	**1505**	Surface water	Regular	744	13.4	184	9.2	85
01-27-2011	**1330**	Surface water	Regular	741	18.0	230	13.5	122
02-17-2011	**1320**	Surface water	Regular	733	26.0	300	10.5	119
04-20-2011	**1300**	Surface water	Regular	738	17.0	58	8.8	99
05-11-2011	**1120**	Surface water	Regular	729	25.0	42	7.5	91
06-13-2011	**1100**	Surface water	Regular	735	33.0	13	8.6	114
06-13-2011	***1101***	*QC sample - Surface water*	*Replicate*	--	--	--	--	--
07-05-2011	**1130**	Surface water	Regular	735	37.0	9.5	4.8	66
09-19-2011	**0920**	Surface water	Regular	740	21.0	13	8.1	93

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Hardness, water, mg/L as $CaCO_3$ (00900)	Noncarbonate hardness, water, filtered, field, mg/L as $CaCO_3$ (00904)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
10-20-2010	**1350**	8.4	7,980	23.2	4,990	1,360	1,270	43	334	128
12-08-2010	***1504***	--	--	--	--	*< .09*	--	*< 15*	*< .02*	*< .008*
12-08-2010	**1505**	8.2	9,180	9.4	5,880	1,620	1,430	34	422	137
01-27-2011	**1330**	8.1	10,400	8.1	6,790	1,930	1,770	25	496	167
02-17-2011	**1320**	8.2	11,200	17.6	7,320	1,750	1,610	29	459	147
04-20-2011	**1300**	8.1	11,900	17.4	8,080	2,130	2,020	25	522	201
05-11-2011	**1120**	8.0	11,400	21.1	7,530	2,000	1,870	29	493	186
06-13-2011	**1100**	8.1	12,200	25.8	7,950	1,810	1,700	< 15	465	158
06-13-2011	***1101***	--	--	--	--	*1,850*	--	*< 15*	*476*	*159*
07-05-2011	**1130**	8.2	8,600	29.1	5,720	1,800	1,710	16	396	197
09-19-2011	**0920**	7.8	1,250	20.2	726	306	255	74	94.5	17.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equivalents of major cations (00932)	Sodium, water, filtered, mg/L (00930)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Carbon dioxide, water, unfiltered, mg/L (00405)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)
10-20-2010	**1350**	10.1	14.3	66	1,210	89	106	.7	1
12-08-2010	***1504***	*< .02*	--	--	*< .06*	--	--	--	--
12-08-2010	**1505**	9.46	15.0	65	1,380	190	226	2.2	2
01-27-2011	**1330**	10.3	17.5	66	1,760	162	193	2.3	2
02-17-2011	**1320**	10.1	19.8	70	1,900	147	173	1.6	3
04-20-2011	**1300**	14.0	19.5	68	2,060	110	131	1.6	1
05-11-2011	**1120**	14.3	17.8	66	1,830	129	155	2.5	1
06-13-2011	**1100**	17.6	21.5	71	2,100	110	130	1.8	2
06-13-2011	***1101***	*17.4*	*21.7*	*71*	*2,150*	--	--	--	--
07-05-2011	**1130**	15.2	13.3	61	1,290	88	105	1.0	1
09-19-2011	**0920**	6.25	3.17	47	127	50	62	1.5	< 1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as NH4 (71846)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L (71851)
10-20-2010	**1350**	2,090	.41	2.6	1,160	.97	< .013	< .010	< .02	< .083
12-08-2010	***1504***	*< .06*	*< .04*	*< .1*	*< .09*	*< .05*	*< .013*	*< .010*	*< .02*	*< .089*
12-08-2010	**1505**	2,470	.46	6.6	1,330	.52	.066	.051	1.24	5.41
01-27-2011	**1330**	2,850	.46	2.9	1,410	.52	.014	.011	.77	3.33
02-17-2011	**1320**	3,260	.45	2.5	1,440	.70	.013	.010	.49	2.11
04-20-2011	**1300**	3,450	.52	4.9	1,750	1.2	.016	.012	.02	.089
05-11-2011	**1120**	3,330	.55	4.3	1,590	.97	.019	.014	< .02	< .089
06-13-2011	**1100**	3,570	.64	8.5	1,570	.87	.016	.012	< .02	< .089
06-13-2011	***1101***	*3,570*	*.63*	*8.4*	*1,570*	*.91*	*.015*	*.012*	*< .02*	*< .089*
07-05-2011	**1130**	2,140	.73	2.7	1,620	1.5	.053	.041	< .02	< .089
09-19-2011	**0920**	234	.27	6.4	204	1.5	.425	.330	.92	3.66

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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	Nitrate, water, filtered, mg/L as N (00618)	Nitrite, water, filtered, mg/L (71856)	Nitrite, water, filtered, mg/L as N (00613)	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)
10-20-2010	**1350**	< .019	.004	.001	< .97	< .012	< .004	< .02	.09
12-08-2010	***1504***	*< .020*	*< .003*	*< .001*	*< .05*	*< .012*	*< .004*	*< .02*	*< .02*
12-08-2010	**1505**	1.22	.055	.017	.46	.110	.036	.04	.09
01-27-2011	**1330**	.753	.067	.020	.51	.013	.004	< .02	.04
02-17-2011	**1320**	.476	.053	.016	.69	.014	.005	< .02	.06
04-20-2011	**1300**	.020	< .003	< .001	1.2	.024	.008	< .02	.15
05-11-2011	**1120**	< .020	< .003	< .001	.95	.022	.007	.03	.10
06-13-2011	**1100**	< .020	< .003	< .001	.86	.029	.009	< .02	.09
06-13-2011	***1101***	*< .020*	*< .003*	*< .001*	*.89*	*.029*	*.009*	*< .02*	*.08*
07-05-2011	**1130**	< .020	< .003	< .001	1.5	.015	.005	< .02	.09
09-19-2011	**0920**	.827	.300	.091	1.2	.631	.206	.24	.32

07308500 Red River near Burkburnett, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/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	Total nitrogen, water, unfiltered, mg/L (00600)	Barium, water, filtered, µg/L (01005)	Barium, water, unfiltered, recover-able, µg/L (01007)	Cadmium, water, filtered, µg/L (01025)	Cadmium, water, unfiltered, µg/L (01027)	Chromium, water, filtered, µg/L (01030)	Chromium, water, unfiltered, recover-able, µg/L (01034)	Copper, water, filtered, µg/L (01040)	Copper, water, unfiltered, recover-able, µg/L (01042)
10-20-2010	**1350**	< .99	108	108	< .06	< .20	< .24	.92	< 2.0	< 2.8
12-08-2010	***1504***	*< .07*	*< 0.07*	*< .3*	*< .02*	*< .05*	*< .06*	*< .21*	*< .50*	*< .70*
12-08-2010	**1505**	1.8	76	89.0	< .16	< .20	< .60	< .84	< 5.0	< 2.8
01-27-2011	**1330**	1.3	55	65.0	< .08	< .25	.31	< 3.1	< 2.5	< 10.5
02-17-2011	**1320**	1.2	55	65.9	< .08	< .25	.34	< 1.1	< 2.5	< 3.5
04-20-2011	**1300**	1.2	69	90.6	< .08	.57	.41	< 1.1	< 2.5	< 3.5
05-11-2011	**1120**	< .99	94	99.8	< .08	< .25	< .30	< 1.7	< 2.5	< 5.6
06-13-2011	**1100**	< .89	147	149	< .08	< .25	.20	< 1.1	1.1	< 3.5
06-13-2011	***1101***	*< .93*	*147*	*151*	*.05*	*< .25*	*.20*	*< 1.1*	*1.2*	*< 3.5*
07-05-2011	**1130**	< 1.6	172	148	< .06	< .20	< .24	1.2	< 2.0	< 2.8
09-19-2011	**0920**	2.4	132	165	< .02	< .05	.13	2.4	2.5	4.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/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, filtered, µg/L (01046)	Iron, water, unfiltered, recover-able, µg/L (01045)	Lead, water, filtered, µg/L (01049)	Lead, water, unfiltered, recover-able, µg/L (01051)	Manga-nese, water, filtered, µg/L (01056)	Manga-nese, water, unfiltered, recover-able, µg/L (01055)	Mercury, water, filtered, µg/L (71890)	Mercury, water, unfiltered, recover-able, µg/L (71900)	Nickel, water, filtered, µg/L (01065)
10-20-2010	**1350**	< 13	418	< .06	.41	11.5	56.9	< .005	< .005	1.8
12-08-2010	***1504***	*< 3*	*< 5*	*< .01*	*< .04*	*.2*	*< .4*	*< .005*	*< .005*	*< .09*
12-08-2010	**1505**	< 16	319	< .15	.22	6.7	18.2	< .005	< .005	1.2
01-27-2011	**1330**	< 22	180	< .07	< .18	16.8	25.5	< .005	< .005	1.4
02-17-2011	**1320**	< 19	356	< .07	.32	13.3	32.6	< .005	< .005	1.9
04-20-2011	**1300**	< 19	254	< .07	.36	42.8	68.4	< .005	< .005	2.4
05-11-2011	**1120**	< 19	192	< .07	.25	50.2	81.1	< .005	< .005	1.6
06-13-2011	**1100**	< 22	226	.07	.22	33.4	64.8	< .005	< .005	2.3
06-13-2011	***1101***	*27*	*227*	*.08*	*.23*	*31.0*	*65.3*	*< .005*	*< .005*	*2.2*
07-05-2011	**1130**	< 16	240	< .06	.26	41.6	101	< .005	< .005	2.2
09-19-2011	**0920**	43	1,370	.09	1.60	18.0	57.6	< .005	.007	2.6

07308500 Red River near Burkburnett, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 8 of 11

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/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	Nickel, water, unfiltered, recover-able, µg/L (01067)	Silver, water, filtered, µg/L (01075)	Silver, water, unfiltered, recover-able, µg/L (01077)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recover-able, µg/L (01092)	Arsenic, water, filtered, µg/L (01000)	Arsenic, water, unfiltered, µg/L (01002)	Selenium, water, filtered, µg/L (01145)	Selenium, water, unfiltered, µg/L (01147)
10-20-2010	**1350**	3.1	< .02	< .06	< 5.6	< 9.6	3.3	9.4	4	4
12-08-2010	***1504***	*< .12*	*< .01*	*< .01*	*< 1.4*	*< 2.4*	*< .02*	*< .09*	*< 1*	*< 1*
12-08-2010	**1505**	4.8	< .05	< .06	< 14.0	< 9.6	3.1	12.3	6	6
01-27-2011	**1330**	1.8	< .03	< .07	< 7.0	< 36.0	2.5	6.7	6	7
02-17-2011	**1320**	2.8	< .03	< .07	< 7.0	< 12.0	1.9	7.3	7	7
04-20-2011	**1300**	4.2	< .03	< .07	< 7.0	< 12.0	4.5	7.2	4	4
05-11-2011	**1120**	1.7	< .03	< .07	< 7.0	< 19.2	4.3	8.9	2	2
06-13-2011	**1100**	1.9	.02	< .07	< 1.4	< 12.0	9.1	12.2	3	3
06-13-2011	***1101***	*2.1*	*.03*	*< .07*	*< 1.4*	*< 12.0*	*9.0*	*12.3*	*3*	*3*
07-05-2011	**1130**	2.0	.02	< .06	< 5.6	< 9.6	7.6	7.1	3	3
09-19-2011	**0920**	4.3	.01	.02	< 1.4	4.4	3.9	4.5	< 1	< 1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 9 of 11

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft^3/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	Aldrin, water, unfiltered, recover-able, µg/L (39330)	alpha-Endosulfan, water, unfiltered, recoverable, micrograms per liter (34361)	alpha-HCH, water, unfiltered, recoverable, micrograms per liter (39337)	beta-Endosulfan, water, unfiltered, recoverable, micrograms per liter (34356)	beta-HCH, water, unfiltered, recoverable, micrograms per liter (39338)	Chlordane (techni-cal), water, unfiltered, recover-able, µg/L (39350)	cis-Chlordane, water, unfiltered, recoverable, micrograms per liter (39062)	delta-HCH, water, unfiltered, recoverable, micrograms per liter (34259)	Dieldrin, water, unfiltered, recover-able, µg/L (39380)
10-20-2010	**1350**	--	--	--	--	--	--	--	--	--
12-08-2010	***1504***	--	--	--	--	--	--	--	--	--
12-08-2010	**1505**	--	--	--	--	--	--	--	--	--
01-27-2011	**1330**	--	--	--	--	--	--	--	--	--
02-17-2011	**1320**	--	--	--	--	--	--	--	--	--
04-20-2011	**1300**	< .04	< .1	< .03	< .04	< .03	< .1	< .1	< .09	< .02
05-11-2011	**1120**	--	--	--	--	--	--	--	--	--
06-13-2011	**1100**	< .04	< .1	< .03	< .04	< .03	< .1	< .1	< .09	< .02
06-13-2011	***1101***	--	--	--	--	--	--	--	--	--
07-05-2011	**1130**	--	--	--	--	--	--	--	--	--
09-19-2011	**0920**	--	--	--	--	--	--	--	--	--

07308500 Red River near Burkburnett, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 10 of 11

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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	Endosulfan sulfate, water, unfiltered, recoverable, micrograms per liter (34351)	Endrin aldehyde, water, unfiltered, recoverable, micrograms per liter (34366)	Endrin, water, unfiltered, recoverable, µg/L (39390)	Heptachlor epoxide, water, unfiltered, recoverable, µg/L (39420)	Heptachlor, water, unfiltered, recoverable, µg/L (39410)	Lindane, water, unfiltered, recoverable, µg/L (39340)	p,p'-DDD, water, unfiltered, recoverable, micrograms per liter (39310)	p,p'-DDE, water, unfiltered, recoverable, micrograms per liter (39320)	p,p'-DDT, water, unfiltered, recoverable, micrograms per liter (39300)
10-20-2010	1350	--	--	--	--	--	--	--	--	--
12-08-2010	*1504*	--	--	--	--	--	--	--	--	--
12-08-2010	1505	--	--	--	--	--	--	--	--	--
01-27-2011	1330	--	--	--	--	--	--	--	--	--
02-17-2011	1320	--	--	--	--	--	--	--	--	--
04-20-2011	1300	< .6	< .2	< .06	< .8	< .03	< .03	< .1	< .04	< .1
05-11-2011	1120	--	--	--	--	--	--	--	--	--
06-13-2011	1100	< .6	< .2	< .06	< .8	< .03	< .03	< .1	< .04	< .1
06-13-2011	*1101*	--	--	--	--	--	--	--	--	--
07-05-2011	1130	--	--	--	--	--	--	--	--	--
09-19-2011	0920	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
Part 11 of 11

[%, percent; $CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; SiO_2, silicon dioxide; ft³/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	Toxaphene, water, unfiltered, recoverable, µg/L (39400)	trans-Chlordane, water, unfiltered, recoverable, micrograms per liter (39065)	Aroclor 1016 plus Aroclor 1242, water, unfiltered, recoverable, micrograms per liter (81648)	Aroclor 1221, water, unfiltered, recoverable, micrograms per liter (39488)	Aroclor 1232, water, unfiltered, recoverable, micrograms per liter (39492)	Aroclor 1248, water, unfiltered, recoverable, micrograms per liter (39500)	Aroclor 1254, water, unfiltered, recoverable, micrograms per liter (39504)	Aroclor 1260, water, unfiltered, recoverable, micrograms per liter (39508)
10-20-2010	1350	--	--	--	--	--	--	--	--
12-08-2010	*1504*	--	--	--	--	--	--	--	--
12-08-2010	1505	--	--	--	--	--	--	--	--
01-27-2011	1330	--	--	--	--	--	--	--	--
02-17-2011	1320	--	--	--	--	--	--	--	--
04-20-2011	1300	< 2	< .1	< .1	< 1	< .1	< .1	< .1	< .1
05-11-2011	1120	--	--	--	--	--	--	--	--
06-13-2011	1100	< 2	< .1	< .1	< 1	< .1	< .1	< .1	< .1
06-13-2011	*1101*	--	--	--	--	--	--	--	--
07-05-2011	1130	--	--	--	--	--	--	--	--
09-19-2011	0920	--	--	--	--	--	--	--	--

07308500 Red River near Burkburnett, 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
		October			November			December			January	
1	8,640	8,430	8,540	---	---	---	---	---	---	9,280	9,190	9,250
2	8,470	8,220	8,360	7,500	---	---	---	---	---	9,320	9,180	9,240
3	8,390	8,120	8,260	7,610	7,500	7,550	---	---	---	9,370	9,280	9,320
4	8,450	8,230	8,310	7,820	7,610	7,740	---	---	---	9,340	9,230	9,290
5	8,770	8,450	8,600	7,930	7,810	7,870	---	---	---	9,330	9,230	9,280
6	8,860	8,770	8,810	7,990	7,890	7,940	---	---	---	9,350	9,270	9,310
7	8,830	8,680	8,770	8,020	7,890	7,970	---	---	---	9,350	9,070	9,170
8	8,850	8,660	8,770	8,100	8,000	8,040	---	---	---	9,170	8,770	9,060
9	8,920	8,820	8,870	8,200	8,040	8,130	8,780	8,600	8,690	9,200	9,090	9,150
10	8,940	8,450	8,850	8,260	8,030	8,160	8,630	8,470	8,550	9,180	9,120	9,160
11	8,730	8,440	8,600	8,230	8,080	8,170	8,500	8,400	8,450	9,350	9,040	9,150
12	8,680	8,540	8,610	8,190	7,920	8,110	8,520	8,450	8,480	9,360	9,030	9,180
13	8,610	8,440	8,520	8,130	7,800	7,960	8,570	8,450	8,490	9,200	9,010	9,120
14	10,700	7,230	9,170	7,940	7,790	7,850	8,580	8,510	8,550	9,200	8,940	9,070
15	7,230	5,860	6,240	7,800	7,570	7,740	8,590	8,420	8,510	9,290	9,060	9,140
16	6,430	5,920	6,140	7,570	6,420	6,980	8,430	8,250	8,340	9,460	9,150	9,280
17	7,090	6,430	6,790	6,500	5,560	6,020	---	---	---	9,720	9,300	9,480
18	7,440	7,090	7,260	5,610	5,390	5,460	---	---	---	9,470	9,350	9,400
19	7,850	7,440	7,650	6,620	5,610	6,080	---	---	---	9,540	9,460	9,500
20	8,080	7,850	7,970	8,090	6,620	7,500	---	---	---	9,640	9,480	9,550
21	8,530	8,080	8,200	8,160	8,080	8,120	---	---	---	9,710	9,600	9,650
22	8,590	4,750	7,220	---	---	---	---	---	---	9,700	9,580	9,640
23	5,880	5,290	5,510	---	---	---	---	---	---	9,640	9,560	9,600
24	6,000	2,210	4,030	---	---	---	---	---	---	9,770	9,620	9,680
25	---	2,030	---	---	---	---	---	---	---	9,940	9,760	9,830
26	---	---	---	---	---	---	---	---	---	10,200	9,940	10,000
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	10,100	10,000	10,000
29	---	---	---	---	---	---	9,320	9,050	9,150	10,100	10,000	10,100
30	---	---	---	---	---	---	9,060	8,930	9,000	10,100	10,000	10,000
31	---	---	---	---	---	---	9,190	8,960	9,030	10,200	10,100	10,100
Month	---	---	---	---	---	---	---	---	---	---	---	---

07308500 Red River near Burkburnett, TX—Continued

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

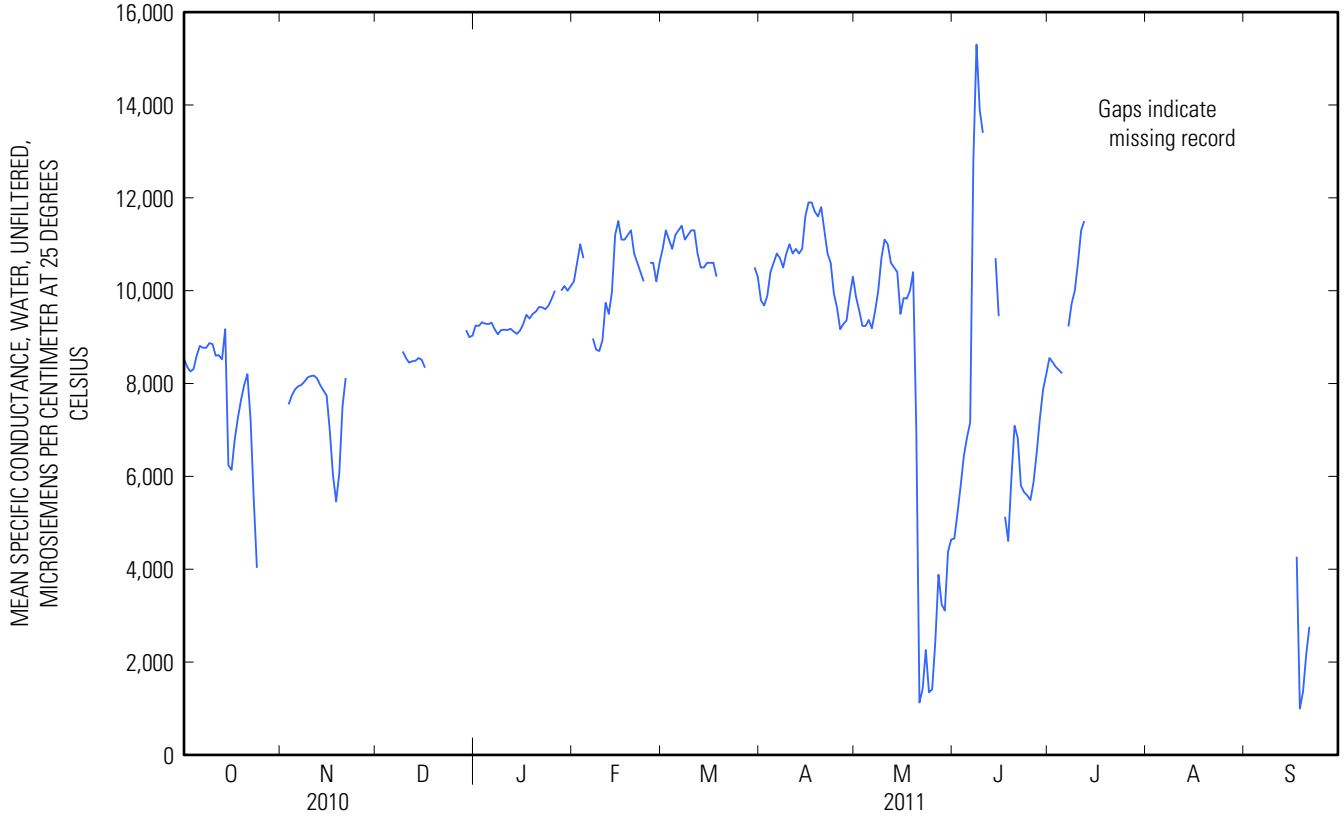
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	10,400	9,940	10,200	11,000	10,700	10,900	10,000	9,650	9,790	10,400	9,560	9,860
2	10,700	10,500	10,600	11,600	11,000	11,300	9,790	9,580	9,680	9,660	9,450	9,570
3	11,300	10,700	11,000	11,300	10,900	11,100	10,200	9,570	9,890	9,450	8,990	9,240
4	11,200	10,100	10,700	11,100	10,800	10,900	10,500	10,100	10,400	9,550	8,980	9,240
5	---	---	---	11,300	11,000	11,200	10,700	10,400	10,600	9,480	9,240	9,370
6	---	---	---	11,500	11,100	11,300	10,900	10,700	10,800	9,480	8,970	9,190
7	9,160	8,740	8,970	11,700	11,300	11,400	10,800	10,400	10,700	9,800	9,420	9,560
8	9,020	8,570	8,730	11,400	10,900	11,100	10,700	10,300	10,500	10,600	9,740	10,000
9	9,150	8,080	8,700	11,300	10,900	11,200	11,300	10,500	10,800	11,000	10,400	10,700
10	9,480	8,160	8,930	11,400	11,100	11,300	11,300	10,700	11,000	11,100	11,000	11,100
11	10,200	9,420	9,740	11,400	11,100	11,300	11,000	10,500	10,800	11,400	10,600	11,000
12	9,790	9,170	9,500	11,100	10,500	10,800	11,000	10,600	10,900	10,900	10,400	10,600
13	10,500	9,330	9,980	10,600	10,300	10,500	11,000	10,700	10,800	10,600	10,500	10,500
14	11,900	10,500	11,200	10,600	10,400	10,500	11,200	10,700	10,900	10,600	9,860	10,400
15	12,000	11,100	11,500	10,700	10,400	10,600	12,200	11,200	11,600	9,860	9,340	9,500
16	11,500	10,700	11,100	10,800	10,400	10,600	12,200	11,600	11,900	9,970	9,720	9,840
17	11,300	11,000	11,100	10,700	10,500	10,600	11,900	11,700	11,900	9,970	9,700	9,830
18	11,400	11,000	11,200	10,600	10,000	10,300	11,900	11,300	11,700	10,300	9,840	10,000
19	11,500	11,000	11,300	---	---	---	11,800	11,500	11,600	10,500	10,300	10,400
20	11,000	10,600	10,800	---	---	---	11,900	11,600	11,800	10,400	1,770	7,010
21	10,700	10,400	10,600	---	---	---	11,600	11,000	11,300	1,770	1,030	1,130
22	10,500	10,300	10,400	---	---	---	11,100	10,600	10,800	1,910	1,030	1,420
23	10,400	9,950	10,200	---	---	---	10,800	9,960	10,600	2,970	1,560	2,260
24	10,600	---	---	---	---	---	10,100	9,670	9,940	1,560	1,260	1,350
25	10,700	10,500	10,600	---	---	---	9,770	9,480	9,630	1,660	1,300	1,410
26	10,800	10,400	10,600	---	---	---	9,760	8,950	9,170	3,540	1,660	2,440
27	10,400	10,200	10,200	---	---	---	9,590	9,080	9,280	4,260	3,500	3,880
28	10,700	10,500	10,600	---	---	---	9,560	9,130	9,360	3,500	3,090	3,240
29	---	---	---	---	---	---	10,800	9,130	9,880	3,880	2,720	3,110
30	---	---	---	10,600	10,300	10,500	10,500	10,200	10,300	4,660	3,880	4,370
31	---	---	---	10,300	10,200	10,300	---	---	---	4,740	4,560	4,640
Month	---	---	---	---	---	---	12,200	8,950	10,600	11,400	1,030	7,300

07308500 Red River near Burkburnett, 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
		June			July			August			September	
1	4,850	4,570	4,660	8,620	8,410	8,550	---	---	---	---	---	---
2	5,530	4,850	5,210	8,570	8,290	8,460	---	---	---	---	---	---
3	6,210	5,470	5,800	8,440	8,310	8,360	---	---	---	---	---	---
4	6,720	6,210	6,440	8,360	8,160	8,290	---	---	---	---	---	---
5	6,980	6,720	6,840	8,530	8,130	8,220	---	---	---	---	---	---
6	7,520	6,970	7,160	---	---	---	---	---	---	---	---	---
7	16,700	7,520	12,800	9,610	8,870	9,230	---	---	---	---	---	---
8	16,600	14,200	15,300	9,880	9,610	9,720	---	---	---	---	---	---
9	14,400	13,500	13,900	10,300	9,880	10,000	---	---	---	---	---	---
10	13,700	12,700	13,400	11,000	10,300	10,600	---	---	---	---	---	---
11	---	---	---	11,900	10,800	11,300	---	---	---	---	---	---
12	---	---	---	11,900	11,100	11,500	---	---	---	---	---	---
13	---	10,900	---	---	---	---	---	---	---	---	---	---
14	10,900	10,500	10,700	---	---	---	---	---	---	---	---	---
15	10,900	7,590	9,450	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	5,890	4,360	5,130	---	---	---	---	---	---	8,100	1,450	4,270
18	5,750	3,970	4,610	---	---	---	---	---	---	4,100	440	999
19	6,920	4,700	5,960	---	---	---	---	---	---	1,760	949	1,370
20	7,970	6,440	7,090	---	---	---	---	---	---	2,520	1,760	2,160
21	7,580	5,930	6,830	---	---	---	---	---	---	2,960	2,520	2,760
22	6,040	5,590	5,800	---	---	---	---	---	---	---	---	---
23	6,270	5,350	5,660	---	---	---	---	---	---	---	---	---
24	6,190	5,200	5,590	---	---	---	---	---	---	---	---	---
25	5,750	5,340	5,490	---	---	---	---	---	---	---	---	---
26	6,120	5,650	5,880	---	---	---	---	---	---	---	---	---
27	6,960	5,900	6,520	---	---	---	---	---	---	---	---	---
28	7,550	6,960	7,260	---	---	---	---	---	---	---	---	---
29	8,080	7,350	7,870	---	---	---	---	---	---	---	---	---
30	8,520	8,020	8,200	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07308500 Red River near Burkburnett, TX—Continued



07308500 Red River near Burkburnett, 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
		October			November			December			January	
1	27.3	20.1	23.6	17.4	14.4	16.0	9.9	5.0	7.4	6.4	1.8	4.0
2	27.2	20.4	23.4	16.8	12.6	14.6	11.4	5.9	8.5	5.4	-0.2	2.6
3	21.7	17.1	19.5	15.6	10.7	13.3	12.4	6.7	9.5	7.9	0.8	4.3
4	23.2	15.4	19.0	14.7	10.4	12.6	11.5	7.7	9.7	9.1	3.8	6.2
5	23.4	15.9	19.4	14.8	8.7	11.6	9.6	5.0	7.1	8.7	3.0	5.8
6	25.0	16.4	20.5	15.0	9.2	12.0	9.0	3.4	6.2	9.3	3.4	6.2
7	26.6	18.0	22.1	15.7	9.8	12.5	8.7	4.4	6.5	9.2	4.4	6.8
8	25.3	19.0	21.9	17.5	10.7	13.9	9.7	5.3	7.4	9.1	4.2	6.6
9	24.8	17.3	20.9	18.6	12.6	15.4	10.6	5.2	7.8	6.4	3.3	4.9
10	24.1	17.9	21.0	18.7	13.2	15.8	9.7	6.6	8.0	3.3	0.8	2.6
11	25.0	18.6	21.5	19.9	13.9	17.0	10.3	5.8	8.1	2.3	-0.4	0.5
12	24.0	17.3	20.4	18.4	11.9	16.2	6.6	2.2	4.5	0.9	-0.4	0.1
13	22.5	17.2	19.5	15.1	9.5	12.1	7.2	1.7	4.3	3.6	-0.4	1.2
14	22.0	14.4	18.0	14.4	8.9	11.6	8.6	2.4	5.4	6.4	-0.4	3.0
15	23.4	15.4	19.2	12.6	10.2	11.4	10.3	4.1	7.2	8.8	3.5	5.7
16	24.0	16.7	20.1	12.6	9.1	10.8	9.5	5.2	7.4	8.7	5.3	6.9
17	23.2	16.9	19.7	11.8	9.2	10.3	7.5	5.2	6.0	9.2	4.8	7.1
18	23.3	16.8	19.9	11.7	7.4	9.5	8.0	4.4	5.8	10.2	7.6	8.8
19	25.6	18.4	21.6	12.9	7.1	10.0	9.1	3.7	6.4	9.0	6.0	7.6
20	25.8	17.7	21.4	14.8	9.2	12.0	12.7	6.4	9.4	7.7	3.7	5.3
21	24.7	18.0	21.0	18.8	13.5	15.9	13.1	8.2	10.4	5.7	1.7	3.8
22	20.8	17.2	18.5	19.7	16.0	17.6	9.9	6.6	8.2	6.9	3.0	4.9
23	18.4	16.1	17.5	16.7	12.2	14.7	6.7	5.1	6.0	7.5	5.0	6.2
24	19.0	15.1	17.0	20.1	14.0	16.7	7.3	5.3	6.5	7.6	3.7	5.6
25	18.3	16.4	17.5	17.8	7.6	10.7	6.6	2.7	4.5	8.9	5.7	7.1
26	18.1	15.4	16.8	9.6	5.5	7.6	6.1	0.6	3.3	9.0	5.3	7.2
27	18.0	15.1	16.3	10.3	6.3	8.3	6.4	0.9	3.7	---	5.8	---
28	16.6	13.2	14.9	11.3	6.6	9.0	8.0	3.4	5.8	12.4	---	---
29	16.1	11.7	13.9	12.9	10.4	11.4	13.2	7.6	9.9	13.4	6.5	9.9
30	17.3	11.6	14.3	10.4	7.1	8.5	13.7	9.9	11.4	10.6	6.1	7.4
31	19.7	13.8	16.5	---	---	---	11.3	5.2	8.6	9.9	3.5	6.4
Month	27.3	11.6	19.3	20.1	5.5	12.6	13.7	0.6	7.1	---	---	---

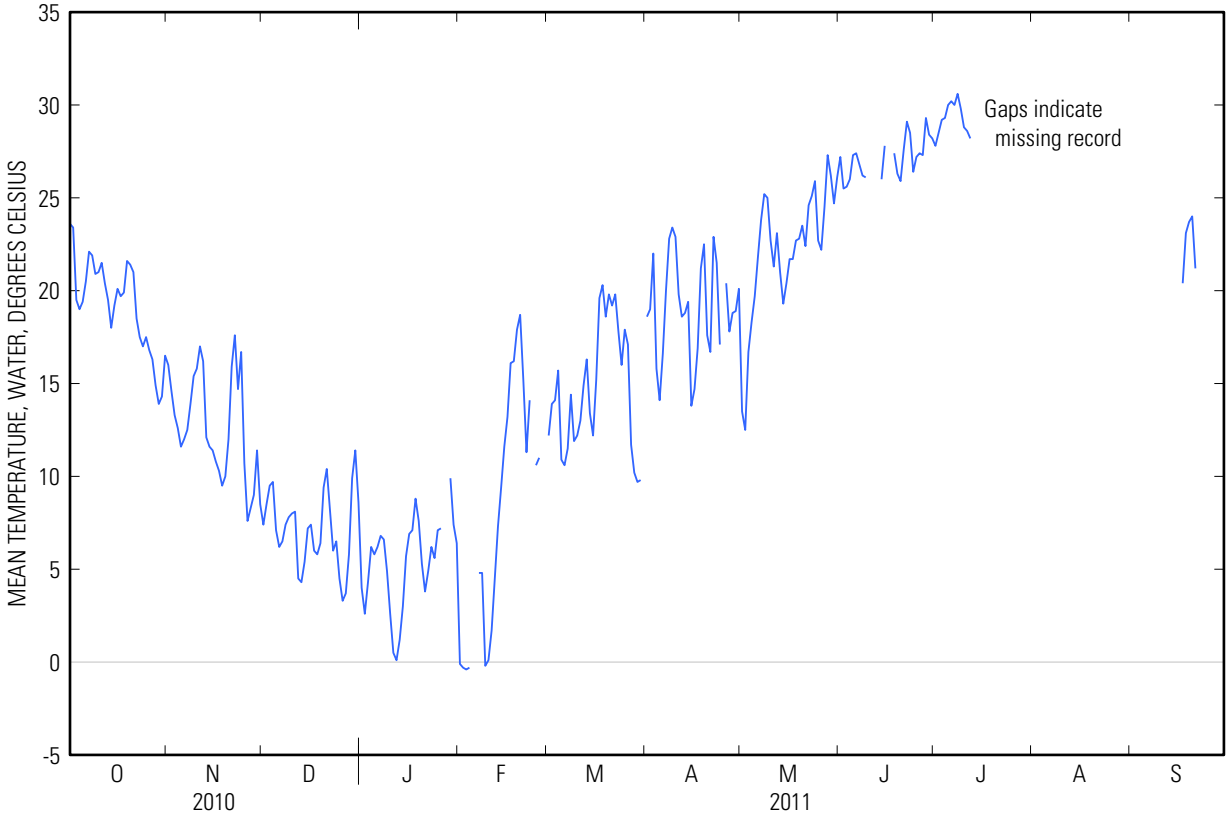
07308500 Red River near Burkburnett, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	3.5	-0.6	-0.1	16.8	8.0	12.2	22.8	12.5	18.6	19.4	10.5	13.5
2	0.6	-0.6	-0.3	18.3	10.3	13.9	24.5	13.9	19.0	18.0	9.5	12.5
3	0.2	-0.6	-0.4	18.3	10.3	14.1	26.5	18.5	22.0	24.2	10.2	16.7
4	0.4	-0.6	-0.3	19.9	12.7	15.7	22.1	12.4	15.8	23.6	13.7	18.3
5	---	-0.6	---	14.4	7.4	10.9	19.6	9.3	14.1	27.3	13.4	19.7
6	---	---	---	14.8	6.8	10.6	23.0	10.9	16.6	27.8	16.4	21.8
7	8.1	1.7	4.8	14.7	8.3	11.5	25.3	15.4	20.0	30.1	18.6	23.8
8	7.6	2.1	4.8	19.3	11.3	14.4	28.4	18.0	22.8	31.6	20.9	25.2
9	2.6	-0.5	-0.2	15.7	9.0	11.9	27.4	20.3	23.4	31.0	21.1	25.0
10	1.5	-0.5	0.1	17.5	7.4	12.2	26.8	20.2	22.9	24.9	20.7	22.7
11	5.1	-0.5	1.7	17.0	9.2	13.0	23.1	16.2	19.8	22.8	19.7	21.3
12	8.5	1.0	4.5	19.5	10.5	14.9	24.7	13.4	18.6	30.6	17.4	23.1
13	11.6	3.5	7.3	20.3	13.2	16.3	23.6	14.6	18.8	25.2	16.4	21.0
14	12.5	6.1	9.4	17.6	9.7	13.4	25.2	15.5	19.4	25.0	14.1	19.3
15	15.5	8.1	11.6	15.2	9.2	12.2	17.0	11.0	13.8	26.5	14.9	20.4
16	17.5	9.2	13.2	21.1	10.3	15.2	21.9	8.6	14.7	28.9	15.5	21.7
17	19.6	13.0	16.1	24.8	15.4	19.6	21.9	12.2	16.9	27.3	17.2	21.7
18	19.4	12.8	16.2	24.8	17.0	20.3	27.0	17.0	21.2	29.5	17.4	22.7
19	21.4	15.3	17.9	23.1	14.8	18.6	27.1	19.5	22.5	27.2	20.2	22.8
20	21.7	16.4	18.7	23.2	16.8	19.8	20.3	15.3	17.6	29.7	19.8	23.5
21	17.9	12.0	15.2	21.4	17.3	19.2	19.6	14.6	16.7	24.8	20.0	22.4
22	14.3	8.0	11.3	24.2	16.9	19.8	29.1	18.2	22.9	28.1	21.7	24.6
23	17.2	11.0	14.1	21.9	13.9	17.8	23.5	18.4	21.5	27.4	23.1	25.1
24	---	11.7	---	20.2	12.2	16.0	18.4	16.2	17.1	28.5	24.0	25.9
25	13.8	7.8	10.6	24.0	13.3	17.9	---	16.0	---	25.0	20.6	22.7
26	15.5	6.6	11.0	20.5	14.0	17.1	26.6	15.8	20.4	27.7	17.8	22.2
27	---	---	---	14.0	10.3	11.7	20.5	15.7	17.8	29.8	19.6	24.5
28	15.3	---	---	11.8	8.9	10.2	26.4	12.2	18.8	32.5	22.7	27.3
29	---	---	---	10.4	9.2	9.7	22.9	15.1	18.9	29.1	23.7	26.2
30	---	---	---	13.2	6.5	9.8	26.1	15.9	20.1	28.2	21.7	24.7
31	---	---	---	---	8.5	---	---	---	---	30.8	22.1	26.1
Month	---	---	---	---	6.5	---	---	8.6	---	32.5	9.5	22.2

07308500 Red River near Burkburnett, 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
		June			July			August			September	
1	31.0	24.5	27.2	31.6	24.5	27.8	---	---	---	---	---	---
2	29.6	21.8	25.5	32.4	25.1	28.5	---	---	---	---	---	---
3	30.4	21.6	25.6	32.2	26.1	29.2	---	---	---	---	---	---
4	31.1	21.6	26.0	32.9	26.4	29.3	---	---	---	---	---	---
5	32.8	22.2	27.3	36.6	26.0	30.0	---	---	---	---	---	---
6	32.2	23.3	27.4	37.1	25.6	30.2	---	---	---	---	---	---
7	31.7	22.9	26.8	36.9	24.8	30.0	---	---	---	---	---	---
8	31.0	22.1	26.2	38.4	25.5	30.6	---	---	---	---	---	---
9	31.2	22.2	26.1	36.8	26.1	29.8	---	---	---	---	---	---
10	---	21.8	---	36.0	23.9	28.8	---	---	---	---	---	---
11	---	---	---	36.6	23.9	28.6	---	---	---	---	---	---
12	---	---	---	35.9	23.9	28.2	---	---	---	---	---	---
13	31.8	---	---	---	24.5	---	---	---	---	---	---	---
14	31.5	21.6	26.0	---	---	---	---	---	---	---	---	---
15	34.0	22.7	27.8	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	32.8	---	---	---	---	---	---	---	---	20.7	19.9	20.4
18	31.9	23.6	27.4	---	---	---	---	---	---	28.4	18.9	23.1
19	31.8	22.6	26.3	---	---	---	---	---	---	28.9	19.5	23.7
20	30.8	22.4	25.9	---	---	---	---	---	---	32.0	18.6	24.0
21	33.2	22.2	27.6	---	---	---	---	---	---	25.0	20.3	21.2
22	34.4	24.4	29.1	---	---	---	---	---	---	---	---	---
23	33.9	24.7	28.5	---	---	---	---	---	---	---	---	---
24	30.8	22.7	26.4	---	---	---	---	---	---	---	---	---
25	31.1	23.8	27.2	---	---	---	---	---	---	---	---	---
26	30.5	24.8	27.4	---	---	---	---	---	---	---	---	---
27	30.4	24.1	27.3	---	---	---	---	---	---	---	---	---
28	32.8	26.4	29.3	---	---	---	---	---	---	---	---	---
29	31.8	25.4	28.4	---	---	---	---	---	---	---	---	---
30	32.0	24.9	28.2	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07308500 Red River near Burkburnett, TX—Continued