

Water-Data Report 2008

07227500 Canadian River near Amarillo, TX

Middle Canadian Basin
Lake Meredith Subbasin

LOCATION.--Lat 35°28'13", long 101°52'45" referenced to North American Datum of 1927, Potter County, TX, Hydrologic Unit 11090105, on left bank at downstream side of northbound lane of bridge on U.S. Highways 87 and 287, 1,800 ft downstream from Pitcher Creek, 1.4 mi downstream from East Amarillo Creek, 1.7 mi downstream from Panhandle and Santa Fe Railway Co. bridge, 19 mi north of Amarillo, and 537.7 mi upstream from mouth.

DRAINAGE AREA.--19,445 mi² of which 4,069 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1924 to Dec. 1925 (period no longer used in computation of average annual discharge), Apr. 1938 to current year. Monthly discharge only for some periods, published in WSP 1311.

Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

REVISED RECORDS.--WSP 1341: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,989.16 ft above NGVD of 1929. Jan. 16, 1924, to Dec. 31, 1925, and Apr. 3 to June 1, 1938, nonrecording gage at site of old bridge 20 ft upstream at same datum. June 2 to Dec. 5, 1938, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since Dec. 1938, when storage began in the Conchas Reservoir, at least 10% of contributing drainage area has been regulated. Conchas and Bell Ranch Canals divert water from Conchas Reservoir upstream for irrigation. No flow attimes.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1914 reached a stage of about 24 ft; a higher stage probably occurred during a flood in Oct. 1904, but stage is unknown; information from local resident.

07227500 Canadian River near Amarillo, TX—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.2	1.2	2.1	e3.2	e9.4	13	5.3	0.89	6.1	4.4	26	63
2	3.7	1.1	2.2	e2.9	9.6	13	5.1	2.1	3.0	4.1	19	57
3	3.5	0.93	3.3	e2.3	9.1	16	5.1	2.1	1.2	5.3	17	67
4	4.3	0.71	2.7	4.2	8.5	16	5.2	2.1	0.77	10	13	63
5	5.2	0.75	2.1	4.6	8.9	12	5.0	2.3	0.35	6.2	11	55
6	5.7	0.58	2.0	6.4	e8.8	11	4.3	2.2	0.44	7.4	19	51
7	6.5	0.51	2.1	6.5	8.7	10	4.3	6.7	0.34	4.2	36	49
8	7.3	0.72	2.4	7.3	9.2	11	4.1	35	0.15	217	19	45
9	8.1	0.68	2.9	7.2	9.3	10	6.4	15	5.0	380	23	41
10	7.0	1.0	5.1	7.5	9.0	10	12	12	17	1,150	e15	39
11	21	0.72	15	7.6	8.9	9.4	12	9.2	16	1,510	e10	37
12	10	0.80	14	7.5	9.3	9.9	12	5.9	12	939	9.6	46
13	8.4	0.57	6.9	7.3	9.1	11	10	4.6	12	451	96	e61
14	5.5	0.41	5.6	e5.4	8.8	10	7.5	10	12	326	e95	e38
15	6.1	0.34	4.7	e5.7	9.0	9.1	5.6	19	13	188	e500	35
16	9.3	0.40	e3.6	e5.6	13	9.0	4.3	18	13	123	933	31
17	11	0.48	e3.3	e5.0	20	9.6	4.1	22	12	688	1,610	32
18	8.5	0.50	3.9	e5.0	16	9.8	4.3	14	14	396	4,640	30
19	6.6	0.59	3.7	e4.9	15	9.3	3.9	12	16	316	2,470	29
20	6.2	0.48	3.3	e5.2	16	8.3	3.3	11	10	238	655	27
21	5.8	0.42	3.1	5.9	17	7.5	3.4	11	400	172	407	24
22	5.8	0.58	e2.6	e5.5	19	7.3	3.3	9.6	59	152	336	e21
23	5.8	1.2	e3.3	e5.9	15	7.4	3.4	7.7	12	120	308	e23
24	6.0	1.6	4.2	e5.5	13	7.3	3.2	5.3	5.4	84	268	e24
25	7.8	e1.2	4.3	6.8	11	6.6	3.6	3.7	4.7	62	230	18
26	6.1	1.9	4.6	8.0	10	6.7	4.0	2.8	7.5	48	176	19
27	5.7	1.6	e3.9	9.1	12	6.5	3.0	10	9.6	38	132	18
28	4.4	1.7	e3.9	9.0	14	6.2	2.6	4.8	5.6	33	110	17
29	3.0	e1.1	e4.9	10	14	6.2	2.2	12	4.8	50	99	16
30	1.9	2.0	e4.2	10	---	5.7	1.1	13	4.7	56	88	15
31	1.4	---	e3.3	9.2	---	5.8	---	9.0	---	52	78	---
Total	201.8	26.77	133.2	196.2	340.6	290.6	153.6	294.99	677.65	7,830.6	13,448.6	1,091
Mean	6.51	0.89	4.30	6.33	11.7	9.37	5.12	9.52	22.6	253	434	36.4
Max	21	2.0	15	10	20	16	12	35	400	1,510	4,640	67
Min	1.4	0.34	2.0	2.3	8.5	5.7	1.1	0.89	0.15	4.1	9.6	15
Ac-ft	400	53	264	389	676	576	305	585	1,340	15,530	26,680	2,160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2008¹², BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	280	74.5	47.1	53.4	48.7	53.4	163	397	493	524	479	496
Max	5,663	812	458	519	287	608	5,988	6,804	5,288	4,880	3,007	8,016
(WY)	(1942)	(1942)	(1942)	(1943)	(2000)	(2000)	(1942)	(1941)	(1941)	(1941)	(1981)	(1941)
Min	0.57	0.89	1.25	4.75	3.00	1.86	1.52	1.56	0.95	0.24	0.11	0.00
(WY)	(1981)	(2008)	(1984)	(1978)	(1939)	(1940)	(1978)	(2006)	(1990)	(1998)	(1983)	(2000)

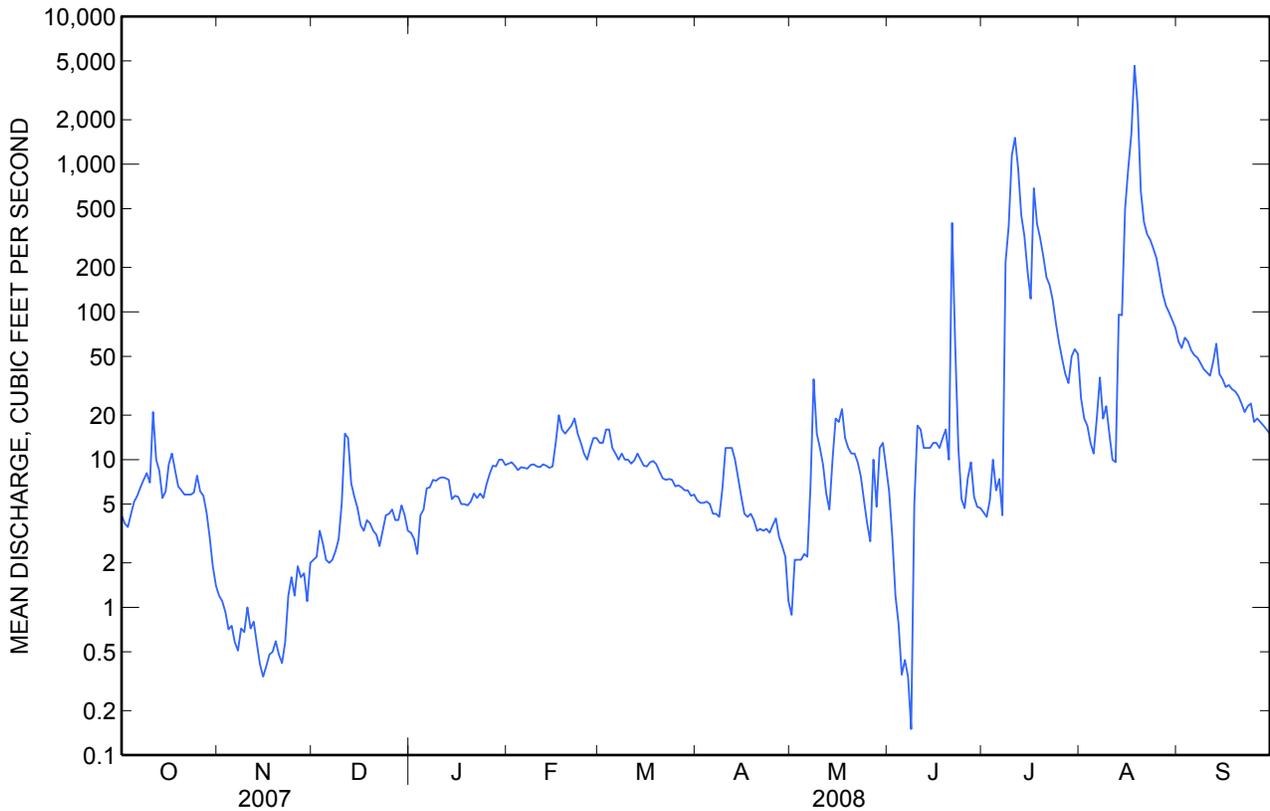
07227500 Canadian River near Amarillo, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1938 - 2008 ^{h,z}	
Annual total	17,693.87		24,685.61			
Annual mean	48.5		67.4		254	
Highest annual mean					2,351	1941
Lowest annual mean					31.8	2002
Highest daily mean	2,320	Mar 24	4,640	Aug 18	79,600	Sep 23, 1941
Lowest daily mean	0.34	Nov 15	0.15	Jun 8	0.00	Aug 7, 1940
Annual seven-day minimum	0.46	Nov 14	0.46	Nov 14	0.00	Sep 3, 1983
Maximum peak flow			5,340	Aug 18	135,000	Jul 25, 1941
Maximum peak stage			5.48	Aug 18	15.70	Jul 25, 1941
Annual runoff (ac-ft)	35,100		48,960		183,800	
10 percent exceeds	87		80		433	
50 percent exceeds	20		8.4		25	
90 percent exceeds	2.1		1.7		3.5	

^h See Period of Record paragraph.

^z Period of regulated streamflow.



07227500 Canadian River near Amarillo, TX—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--

CHEMICAL DATA: July 1948 to Oct. 1949, Feb. 1950 to Sept. 1997, Oct. 1998 to current year.

BIOCHEMICAL DATA: Mar. 1968 to Sept. 1997.

PESTICIDE DATA: Mar. 1968 to June 1981.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Oct. 1950 to current year.

WATER TEMPERATURE: Aug. 1949 to current year.

SUSPENDED SEDIMENT DISCHARGE: Aug. 1949 to Sept. 1952.

INSTRUMENTATION.--Water-quality monitor since Oct. 1995.

REMARKS.--Temperature records good. Specific conductance records poor. 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 9,800 microsiemens/cm, April 25, 2008; minimum daily, 103 microsiemens/cm, Oct. 22, 2001.

WATER TEMPERATURE: Maximum daily, 39.0°C, July 7, 1973; minimum, -0.9°C, Nov. 19, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 9800 microsiemens/cm, April 25; minimum, 143 microsiemens/cm, Aug. 15.

WATER TEMPERATURE: Maximum, 35.3°C, Aug. 12; minimum, -0.2°C, Feb. 7, Feb. 9.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC μS/cm (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
Nov									
06...	1450	Surface water, composite	.41	693	12.8	8.1	3,650	11.0	15.0
Jan									
15...	0955	Surface water, regular	8.4	686	13.1	8.4	6,480	3.0	.0
Mar									
12...	1440	Surface water, regular	11	681	12.9	8.3	5,590	21.0	16.9
May									
01...	1320	Surface water, regular	.42	672	9.4	8.2	5,160	26.0	18.8
Jul									
08...	1600	Surface water, replicate	4.2	685	9.4	8.5	1,100	26.0	24.9
08...	1601	QC - Surface water, replicate	--	--	--	--	--	--	--
Sep									
03...	1150	Surface water, regular	69	690	8.6	8.4	3,900	12.0	16.2

07227500 Canadian River near Amarillo, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water, fltrd, mg/L as CaCO ₃ (39086)	Bicarbonate, water, fltrd, mg/L (00453)	Carbonate, water, fltrd, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
Nov 06...	216	58.5	5.85	492	157	186	3	738	.51	11.9	739	.27	.25
Jan 15...	249	88.2	6.29	1,100	198	E2	E3	1,700	.54	13.8	851	.22	.23
Mar 12...	197	76.4	6.63	873	147	174	2	1,360	.53	9.1	698	.19	.37
May 01...	258	75.4	6.13	698	162	191	3	1,090	.56	16.1	930	.21	.34
Jul 08...	74.4	19.8	4.94	112	109	2	128	157	.48	8.1	184	.36	.65
08...	74.7	19.9	5.00	112	--	--	--	157	.49	8.1	183	.34	.64
Sep 03...	95.9	45.0	6.48	642	171	202	3	943	.49	12.9	373	.19	.57

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Data base number	Medium code
Nov 06...	E.010	E.02	<.002	.008	.013	.038	01	WS
Jan 15...	.045	.24	.005	.009	E.005	.045	01	WS
Mar 12...	.049	.32	.010	E.005	.009	.032	01	WS
May 01...	E.016	E.02	E.001	.010	.007	.029	01	WS
Jul 08...	<.020	.11	.008	.009	.014	.100	01	WS
08...	<.020	.11	.008	.009	.014	.100	02	WSQ
Sep 03...	<.020	.80	.007	E.003	<.006	.131	01	WS

07227500 Canadian River near Amarillo, 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	2,710	2,140	2,370	2,810	2,510	2,640	5,410	4,400	4,920	6,130	4,360	5,480
2	2,500	2,290	2,390	3,040	2,810	2,890	5,440	4,660	4,990	6,480	4,290	5,620
3	2,500	2,190	2,350	3,320	3,040	3,170	5,480	2,730	3,780	6,200	4,540	5,430
4	2,420	2,140	2,300	3,570	3,320	3,410	4,370	3,430	3,890	6,280	5,400	5,720
5	2,460	2,000	2,170	3,700	3,440	3,570	5,000	4,370	4,670	6,720	5,360	5,920
6	2,190	1,330	1,730	3,950	3,700	3,810	5,230	4,830	5,050	6,720	5,040	5,500
7	1,430	1,290	1,370	3,950	3,790	3,860	5,400	4,830	5,060	5,600	5,120	5,310
8	1,630	1,310	1,450	4,160	3,880	3,970	5,180	4,560	4,840	5,920	5,600	5,710
9	1,420	1,160	1,260	4,470	4,080	4,250	5,560	4,040	4,840	6,380	5,920	6,140
10	1,500	1,320	1,390	4,550	4,120	4,330	5,530	3,740	4,900	6,380	5,980	6,150
11	5,660	880	2,320	4,750	4,330	4,570	5,080	2,550	3,780	6,100	5,770	5,920
12	1,330	880	1,070	4,760	4,280	4,520	3,160	2,090	2,540	6,050	5,890	5,970
13	1,140	887	973	4,990	4,450	4,740	4,370	2,800	3,390	6,150	5,960	6,070
14	1,080	942	1,030	4,920	4,170	4,470	4,820	4,370	4,610	6,300	5,560	6,120
15	1,600	1,070	1,280	4,510	3,980	4,140	5,590	3,530	4,870	6,650	5,860	6,320
16	1,510	1,040	1,310	4,570	4,230	4,380	5,350	3,850	4,920	6,610	6,120	6,390
17	1,040	892	948	5,150	4,550	4,820	5,680	3,960	5,170	6,720	5,870	6,300
18	1,120	887	999	5,380	4,960	5,100	5,930	4,290	5,120	6,680	5,930	6,370
19	1,180	1,120	1,150	5,450	5,210	5,340	5,260	4,600	5,040	6,860	5,680	6,460
20	1,210	1,140	1,180	5,440	4,930	5,130	5,440	5,060	5,260	6,900	5,650	6,430
21	1,190	1,160	1,170	5,200	4,210	4,520	5,600	5,440	5,520	6,390	5,210	5,770
22	1,200	1,160	1,180	5,000	4,360	4,590	6,480	4,970	5,780	6,610	5,690	6,400
23	1,200	1,170	1,180	4,970	4,710	4,820	6,820	4,500	5,770	6,630	5,200	5,950
24	1,190	1,110	1,170	5,460	4,970	5,220	6,450	4,710	5,640	6,540	5,120	5,970
25	1,170	1,010	1,070	5,510	4,490	5,080	5,350	4,200	4,960	6,690	4,810	5,990
26	1,270	1,140	1,230	4,880	3,830	4,510	6,700	4,760	5,430	6,180	5,190	5,710
27	1,240	1,090	1,170	5,360	4,550	5,040	6,710	4,860	5,760	5,880	5,020	5,450
28	1,380	1,110	1,250	5,270	4,210	4,630	5,860	4,240	5,250	5,870	5,400	5,600
29	1,600	1,360	1,450	4,910	3,870	4,480	6,160	4,520	5,510	6,070	4,840	5,450
30	2,060	1,520	1,770	4,750	4,070	4,370	6,570	4,600	5,660	5,660	4,740	5,030
31	2,510	1,970	2,280	---	---	---	6,540	3,880	5,790	6,390	5,660	6,050
Month	5,660	880	1,480	5,510	2,510	4,350	6,820	2,090	4,930	6,900	4,290	5,890

07227500 Canadian River near Amarillo, TX—Continued

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

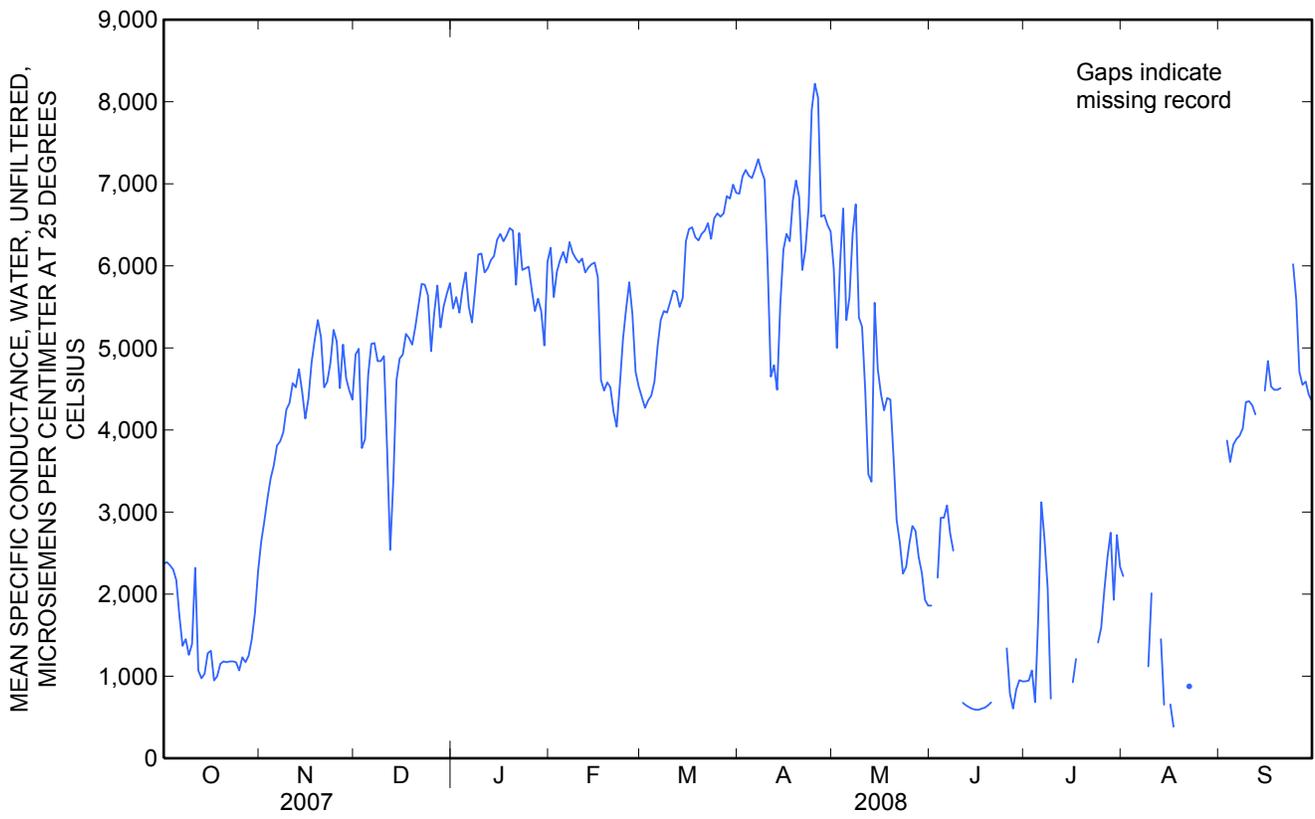
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	6,670	5,180	6,220	4,460	4,310	4,400	7,150	6,650	6,880	6,380	5,490	5,970
2	6,600	4,700	5,620	4,360	4,200	4,270	7,440	6,910	7,090	5,510	4,770	5,000
3	6,170	5,680	5,930	4,540	4,260	4,360	7,450	6,920	7,170	6,750	5,360	6,020
4	6,120	6,020	6,070	4,530	4,340	4,420	7,320	6,940	7,100	7,520	5,180	6,700
5	6,290	6,010	6,170	4,900	4,390	4,590	7,430	6,780	7,070	5,580	5,180	5,340
6	6,430	4,870	6,040	5,240	4,900	5,020	7,720	6,900	7,180	5,930	5,390	5,620
7	6,430	5,940	6,290	5,480	5,240	5,340	7,700	6,990	7,300	9,150	5,720	6,390
8	6,420	5,930	6,160	5,540	5,360	5,450	7,690	6,920	7,160	9,070	5,430	6,750
9	6,350	5,950	6,090	5,540	5,350	5,430	7,510	6,500	7,050	5,670	5,120	5,370
10	6,260	5,920	6,040	5,670	5,460	5,560	7,610	3,750	6,000	5,630	4,960	5,260
11	6,290	5,930	6,090	5,820	5,620	5,700	5,400	3,840	4,650	5,690	3,620	4,490
12	6,020	5,800	5,920	5,880	5,420	5,680	5,730	3,920	4,790	3,620	3,390	3,460
13	6,090	5,890	5,980	5,680	5,270	5,500	5,250	3,850	4,490	3,440	3,230	3,370
14	6,140	5,910	6,020	6,070	5,350	5,610	6,300	5,080	5,530	6,220	3,440	5,550
15	6,120	6,000	6,040	6,580	5,970	6,300	6,850	5,830	6,200	5,540	4,110	4,740
16	6,020	5,630	5,860	6,560	6,390	6,450	7,000	5,970	6,390	4,940	4,130	4,440
17	6,010	4,010	4,610	6,580	6,350	6,470	7,000	5,940	6,300	4,450	4,140	4,240
18	4,720	4,260	4,480	6,480	6,280	6,350	7,240	6,280	6,800	4,600	4,200	4,390
19	4,770	4,420	4,580	6,480	6,140	6,310	7,610	6,710	7,040	4,620	4,020	4,370
20	4,780	4,080	4,520	6,670	6,190	6,390	7,610	6,350	6,840	4,020	3,090	3,670
21	4,310	4,080	4,220	6,540	6,290	6,430	6,450	5,610	5,950	3,090	2,700	2,900
22	4,230	3,960	4,040	6,800	6,310	6,520	6,500	5,830	6,200	2,970	2,340	2,630
23	5,050	4,030	4,550	6,660	6,180	6,330	7,580	6,290	6,710	2,360	2,200	2,250
24	5,210	4,940	5,110	6,820	6,280	6,580	8,350	7,390	7,900	2,430	2,270	2,330
25	5,720	5,210	5,480	6,830	6,370	6,640	9,800	6,790	8,220	2,800	2,430	2,610
26	5,950	5,700	5,800	6,800	6,390	6,600	9,760	7,190	8,050	2,910	2,800	2,830
27	5,970	4,800	5,410	7,010	6,360	6,640	7,200	5,910	6,600	2,910	2,520	2,770
28	4,840	4,620	4,710	7,080	6,480	6,850	7,010	6,260	6,620	2,520	2,420	2,450
29	4,630	4,430	4,530	7,080	6,540	6,820	6,660	6,260	6,500	2,440	2,000	2,260
30	---	---	---	7,280	6,780	6,990	6,510	6,170	6,420	2,000	1,860	1,930
31	---	---	---	7,150	6,620	6,890	---	---	---	1,880	1,840	1,860
Month	6,670	3,960	5,470	7,280	4,200	5,900	9,800	3,750	6,610	9,150	1,840	4,130

07227500 Canadian River near Amarillo, 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	1,900	1,830	1,860	997	881	938	2,370	2,140	2,220	---	---	---
2	---	---	---	995	891	947	---	---	---	---	---	---
3	3,110	1,980	2,200	1,260	951	1,070	---	---	---	3,960	3,650	3,870
4	3,110	2,860	2,930	972	560	684	---	---	---	3,770	3,360	3,610
5	3,010	2,880	2,930	6,110	822	1,710	---	---	---	3,890	3,770	3,820
6	3,130	3,010	3,080	3,370	2,830	3,120	---	---	---	3,920	3,870	3,890
7	3,060	2,500	2,740	2,830	2,500	2,670	---	---	---	3,980	3,900	3,930
8	2,550	2,500	2,530	3,110	518	2,070	---	---	---	4,300	3,920	4,020
9	2,590	---	---	822	458	727	2,980	837	1,120	4,390	4,300	4,340
10	---	---	---	---	---	---	2,310	1,600	2,010	4,380	4,300	4,350
11	790	612	675	---	---	---	---	---	---	4,370	4,160	4,300
12	678	602	645	---	---	---	---	---	---	4,450	4,040	4,190
13	654	597	622	---	---	---	1,910	765	1,450	---	---	---
14	612	592	602	---	---	---	765	610	653	4,200	---	---
15	605	564	593	---	---	---	---	---	---	4,760	4,200	4,480
16	603	567	590	999	877	926	948	443	656	4,960	4,760	4,840
17	624	599	605	1,760	987	1,210	502	188	385	5,000	4,400	4,530
18	648	607	617	---	---	---	---	---	---	4,590	4,410	4,490
19	750	607	644	---	---	---	---	---	---	4,590	4,340	4,490
20	699	673	680	---	---	---	---	---	---	4,600	4,400	4,510
21	---	319	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	989	814	877	---	---	---
23	---	---	---	1,480	---	---	1,260	---	---	---	---	---
24	---	---	---	1,480	1,350	1,410	---	---	---	6,100	5,920	6,020
25	1,790	1,020	1,340	1,850	1,390	1,590	---	---	---	6,130	4,830	5,590
26	1,120	545	788	2,290	1,850	2,050	---	---	---	4,830	4,510	4,710
27	716	545	606	2,690	2,290	2,450	---	---	---	4,640	4,460	4,550
28	974	668	837	2,920	2,350	2,750	---	---	---	4,740	4,480	4,590
29	1,040	890	952	2,440	1,280	1,930	---	---	---	4,520	4,260	4,430
30	991	881	937	3,390	1,910	2,720	---	---	---	4,430	4,260	4,350
31	---	---	---	2,540	2,110	2,330	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07227500 Canadian River near Amarillo, TX—Continued



07227500 Canadian River near Amarillo, 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	27.5	12.9	19.3	18.6	4.3	10.1	15.1	6.2	9.9	7.1	0.0	1.8
2	29.9	17.7	22.2	17.5	5.1	10.0	13.8	3.8	8.4	3.5	-0.1	1.0
3	28.8	13.2	19.8	17.7	5.8	10.2	11.9	0.3	5.4	7.3	-0.1	2.6
4	27.6	16.0	20.7	20.7	5.6	11.5	16.3	3.0	8.1	9.7	1.1	4.5
5	29.4	17.9	22.0	16.8	4.9	9.7	14.8	3.7	8.3	11.3	1.6	6.0
6	27.5	17.4	21.2	14.6	3.5	7.7	13.6	5.4	8.5	14.5	4.9	8.5
7	26.4	17.6	21.1	18.1	3.0	9.6	14.6	4.1	8.1	13.1	4.3	8.3
8	25.5	13.8	18.4	20.7	4.9	11.5	6.8	2.6	5.1	11.4	2.2	6.1
9	25.8	11.4	17.2	20.1	4.6	11.5	5.9	0.2	2.9	11.4	1.4	5.3
10	25.3	12.1	17.8	17.2	8.9	12.8	5.4	2.7	4.0	10.8	0.8	4.9
11	24.2	15.3	18.7	20.4	8.2	13.7	4.9	2.4	4.0	12.2	1.0	5.7
12	27.2	16.9	20.7	17.7	7.8	12.1	5.3	1.6	2.9	12.2	2.6	6.7
13	26.0	17.6	20.6	17.9	6.3	11.7	9.7	0.1	3.6	10.7	-0.1	4.3
14	25.5	15.1	19.0	14.4	6.6	10.2	4.1	1.8	3.0	9.9	-0.1	3.4
15	23.6	12.3	16.9	12.7	2.0	7.1	6.6	0.0	2.2	9.1	-0.1	3.3
16	22.2	11.5	16.1	16.6	4.3	9.8	7.0	-0.1	2.1	3.1	-0.1	0.9
17	21.4	12.9	16.5	19.7	7.5	12.4	8.8	0.0	3.1	1.6	-0.1	0.3
18	20.4	9.6	13.9	19.5	6.5	12.1	11.9	0.4	4.8	2.8	-0.1	0.6
19	22.2	6.6	13.1	18.0	6.3	11.8	12.0	0.5	5.3	5.8	-0.1	1.2
20	21.2	9.4	14.3	18.1	5.8	11.3	12.3	0.9	5.6	7.7	-0.1	2.2
21	15.5	8.5	11.9	11.6	4.1	6.9	11.2	2.3	6.0	9.5	-0.1	2.7
22	16.4	6.1	10.1	8.0	1.4	3.9	5.6	0.0	2.1	3.4	-0.1	0.7
23	18.9	4.7	10.7	3.8	2.0	2.9	5.2	0.0	1.6	5.8	-0.1	1.4
24	21.8	7.9	13.5	11.1	2.6	5.4	9.0	-0.1	3.2	3.7	-0.1	1.0
25	21.4	7.8	13.3	7.4	0.2	3.0	10.3	0.3	3.9	10.9	-0.1	4.0
26	21.0	7.0	12.9	9.8	0.4	4.6	9.6	0.7	4.0	11.6	0.0	4.2
27	19.6	7.6	12.4	12.4	0.6	6.0	1.5	0.0	0.5	11.2	0.0	4.9
28	19.7	6.4	12.0	9.6	2.8	6.5	4.4	0.0	1.1	15.2	6.1	9.4
29	21.3	7.3	13.1	10.7	0.3	5.0	6.4	0.0	1.7	10.2	1.3	5.1
30	19.6	8.6	13.1	9.2	3.7	6.3	6.9	0.0	2.0	11.1	0.0	4.4
31	16.3	8.1	11.2	---	---	---	6.6	0.0	2.0	8.3	0.0	2.8
Month	29.9	4.7	16.2	20.7	0.2	8.9	16.3	-0.1	4.3	15.2	-0.1	3.8

07227500 Canadian River near Amarillo, 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	10.8	-0.1	3.8	17.8	5.0	10.7	19.1	5.8	12.1	22.0	10.4	15.7
2	11.9	-0.1	4.8	17.4	2.8	11.0	19.4	6.7	12.2	24.3	7.2	14.8
3	11.7	0.6	5.8	9.2	1.8	4.7	23.6	8.4	14.4	25.3	6.0	14.4
4	15.6	4.0	9.1	15.8	0.6	7.2	23.6	8.6	14.7	24.3	8.7	15.7
5	7.8	-0.1	3.3	11.3	3.1	6.6	21.7	8.6	13.9	27.1	15.0	19.4
6	10.1	-0.1	3.2	12.5	3.2	6.8	21.9	7.7	14.1	25.0	15.3	19.9
7	10.9	-0.2	4.1	13.6	1.1	6.6	23.0	8.8	14.8	21.4	14.6	17.3
8	13.6	1.2	6.2	14.0	1.5	7.0	21.7	8.5	14.2	19.5	13.9	16.3
9	14.8	-0.2	6.1	16.1	3.8	9.2	14.0	8.8	10.9	21.1	14.8	17.8
10	13.5	1.0	6.0	18.6	2.8	9.6	20.3	7.7	12.6	22.4	15.9	18.7
11	14.7	-0.1	5.8	19.5	5.0	11.4	15.9	8.3	11.2	20.8	12.4	16.1
12	14.4	1.6	6.8	19.0	4.4	11.2	19.0	5.4	11.5	20.6	13.4	16.7
13	14.1	0.2	6.4	20.6	5.6	12.1	21.9	6.6	13.3	21.8	14.0	17.3
14	13.8	3.7	7.2	19.2	6.9	12.2	23.3	6.4	14.1	19.3	14.6	15.8
15	4.7	0.3	2.8	19.5	6.6	11.2	23.6	8.6	15.3	18.1	13.8	15.6
16	6.4	2.1	4.1	9.8	7.2	8.0	25.4	11.1	17.1	21.6	12.9	17.0
17	10.0	3.0	5.9	11.2	7.8	9.1	13.8	6.7	10.0	21.1	15.8	18.3
18	14.0	2.1	7.0	12.6	5.8	8.5	23.9	3.6	12.7	24.4	15.1	19.3
19	15.4	1.9	7.7	20.2	2.3	10.0	25.4	6.9	15.3	25.0	17.2	20.9
20	7.0	1.6	3.7	19.1	5.2	11.4	24.9	10.5	16.3	25.6	19.0	21.8
21	8.6	0.5	3.8	22.2	6.6	13.3	28.2	8.4	17.4	26.1	18.6	21.9
22	14.5	2.7	7.2	21.4	6.5	12.4	24.3	10.8	16.6	23.3	19.0	21.0
23	15.3	5.2	9.0	18.1	6.8	10.5	21.9	15.6	17.7	23.7	17.6	20.3
24	16.8	3.2	9.5	20.2	4.4	11.1	24.5	13.0	17.8	22.9	16.0	19.3
25	11.5	5.5	8.4	24.0	6.2	13.7	24.8	10.4	16.8	23.2	18.2	20.5
26	14.3	1.9	7.3	22.0	7.0	13.8	26.6	9.4	16.2	24.4	17.9	20.8
27	15.8	1.5	8.0	21.1	6.9	13.6	22.9	7.6	14.3	24.4	18.6	20.9
28	13.6	4.2	8.4	18.3	7.6	12.1	27.2	6.3	16.0	24.3	17.7	20.5
29	18.1	4.2	10.2	21.8	5.8	12.8	29.0	9.7	18.3	25.5	19.6	22.3
30	---	---	---	24.6	10.2	15.7	22.7	10.9	16.6	27.7	19.2	22.9
31	---	---	---	22.2	10.0	14.9	---	---	---	28.1	19.5	23.6
Month	18.1	-0.2	6.3	24.6	0.6	10.6	29.0	3.6	14.6	28.1	6.0	18.8

07227500 Canadian River near Amarillo, 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	27.9	21.5	24.5	31.6	19.1	24.4	29.3	21.9	25.1	---	---	---
2	25.8	21.8	23.9	32.7	19.6	24.8	28.3	20.7	23.8	---	---	---
3	25.4	19.5	22.1	30.0	19.8	23.7	24.9	21.0	23.2	20.2	---	---
4	22.9	18.6	20.9	33.5	20.9	26.3	24.6	20.4	22.6	27.1	15.7	20.7
5	21.5	18.6	20.1	33.3	20.7	25.9	29.2	18.5	24.0	27.9	19.3	23.0
6	20.9	16.8	18.8	31.3	20.8	24.9	28.9	21.2	25.3	27.9	18.1	21.7
7	23.1	19.3	21.1	30.3	20.3	24.4	26.3	22.1	24.2	27.4	18.4	21.8
8	24.1	20.9	22.4	25.1	21.6	22.8	32.6	20.9	25.3	23.4	17.5	20.6
9	23.2	19.3	21.3	---	---	---	31.5	21.0	25.5	25.0	16.0	19.7
10	30.7	20.1	23.9	---	---	---	29.9	22.4	25.1	27.9	18.5	22.1
11	29.1	18.9	23.2	---	---	---	33.3	22.1	26.4	24.3	21.0	22.2
12	33.0	16.4	23.5	---	---	---	35.3	21.0	26.9	26.9	20.8	23.1
13	31.7	16.4	23.5	---	---	---	32.0	21.7	24.7	---	---	---
14	32.0	19.0	24.6	---	---	---	29.7	20.1	23.4	25.0	17.2	21.2
15	32.0	19.8	25.1	---	---	---	23.8	---	---	26.4	15.1	20.4
16	32.1	20.4	25.5	29.9	22.8	25.7	22.2	15.7	20.3	27.4	16.7	21.8
17	29.6	21.5	24.3	28.0	22.7	25.4	19.5	15.3	17.1	27.5	17.4	21.9
18	32.2	20.2	25.1	---	---	---	---	---	---	26.4	16.7	21.1
19	28.3	20.7	23.6	---	---	---	---	---	---	26.1	16.1	20.4
20	31.4	19.4	24.5	---	---	---	---	---	---	27.2	16.4	21.6
21	---	---	---	---	---	---	27.5	---	---	26.9	17.9	21.9
22	---	---	---	---	---	---	27.4	21.8	24.7	---	---	---
23	---	---	---	30.2	---	---	29.9	22.7	26.0	---	---	---
24	---	---	---	32.0	22.0	26.3	28.4	23.3	25.6	28.9	16.9	24.0
25	32.4	18.9	24.7	32.6	22.1	26.7	28.0	23.7	25.9	28.4	16.3	21.6
26	31.6	21.1	25.2	31.6	22.5	26.6	---	23.9	---	28.0	15.9	21.2
27	34.5	21.4	26.7	30.7	22.6	25.9	---	---	---	28.6	15.0	20.9
28	31.7	20.8	25.2	31.8	22.3	25.4	---	---	---	27.9	14.6	20.5
29	32.7	20.6	25.4	31.7	21.2	25.4	---	---	---	25.5	14.0	19.2
30	31.4	19.4	24.6	33.3	22.1	27.4	---	---	---	26.5	12.6	18.8
31	---	---	---	30.1	21.7	26.2	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

07227500 Canadian River near Amarillo, TX—Continued

