

Water-Data Report 2011

08136500 Concho River at Paint Rock, TX

Middle Colorado-Concho Basin
Concho Subbasin

LOCATION.--Lat 31°30'57", long 99°55'09" referenced to North American Datum of 1927, Concho County, TX, Hydrologic Unit 12090105, near left bank at downstream end of pier of bridge on U.S. Highway 83, 0.5 mi north of Concho County Courthouse in Paint Rock, 2.7 mi downstream from Kickapoo Creek, and 20.0 mi upstream from mouth.

DRAINAGE AREA.--6,574 mi² of which 1,131 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1915 to current year. Prior to Oct. 1970, published as "near Paint Rock".

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Mar. 1964 to June 2003.

BIOCHEMICAL DATA: Mar. 1964 to June 2003.

PESTICIDE DATA: Apr. 1968 to Oct. 1981.

RADIOCHEMICAL DATA: Jan. 1981 to June 2003.

SEDIMENT DATA: May 1978 to Sept. 1980.

PERIOD OF DAILY RECORD, Water-Quality.--

SPECIFIC CONDUCTANCE: Feb. 2001 to Oct. 26, 2011. (discontinued)

WATER TEMPERATURE: Feb. 2001 to Oct. 26, 2011. (discontinued)

REVISED RECORDS.--WSP 458: 1915-16. WSP 568: 1919-20. WSP 1712: 1922(M). WSP 1732: 1918(M), 1923(M). WDR TX-81-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,574.36 ft above NGVD of 1929. See WSP 1922 for history of changes prior to Jan. 15, 1940. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. Since water year 1931, at least 10% of contributing drainage area has been regulated. Flow affected at times by discharge from the flood-detention pools of two floodwater-retarding structures. These structures control runoff from 16.5 mi² in the Willow Creek drainage basin. No flow at times. Some records listed in the period of record may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--15 years (water years 1916-30) prior to construction of Lake Nasworthy, 186 ft³/s (134,700 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Aug. 1882 reached a stage of about 39.9 ft, and flood in Aug. 1906 reached a stage of 39.5 ft, from information by local resident. Maximum stage since at least 1853, 43.4 ft Sept. 17, 1936.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1916-1930: Maximum discharge, 76,500 ft³/s, Apr. 27, 1922, gage height, 27.50 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft³/s, Aug. 14, gage height, 15.22 ft; minimum daily discharge, 0.00 ft³/s, on many days.

08136500 Concho River at Paint Rock, TX—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	21	22	26	22	20	12	0.43	3.2	0.19	0.00	0.00
2	17	22	22	27	28	18	11	2.5	1.6	0.30	0.00	0.00
3	15	23	22	26	38	16	8.8	4.9	0.89	0.25	0.00	0.00
4	15	23	21	25	44	14	9.5	5.8	0.76	0.12	0.00	0.00
5	14	23	20	24	32	14	11	20	0.50	0.03	0.00	0.00
6	13	21	17	24	27	17	9.6	15	0.24	0.00	0.00	0.00
7	13	21	16	23	25	19	9.4	9.5	0.06	0.00	0.00	0.00
8	17	21	17	21	24	16	9.9	4.3	0.01	0.00	0.00	0.00
9	17	20	19	25	23	14	8.1	1.8	0.00	0.00	0.00	0.00
10	18	20	23	25	24	15	7.1	1.1	0.00	0.00	0.00	0.00
11	19	19	24	25	24	16	5.9	2.0	0.00	0.00	0.00	0.00
12	20	19	25	27	25	16	5.1	8.1	0.00	0.00	0.00	0.00
13	19	19	26	28	23	16	4.3	7.9	0.00	0.00	0.00	0.00
14	19	21	25	26	21	16	4.0	5.6	0.00	0.00	1,030	0.00
15	19	23	25	25	21	15	5.8	3.8	0.00	0.00	695	0.00
16	17	23	25	23	23	14	6.2	4.7	0.00	0.00	148	0.00
17	15	23	25	23	22	13	5.8	4.7	0.00	0.00	59	0.00
18	14	22	24	22	21	14	6.2	6.4	0.00	0.00	31	0.00
19	13	24	23	22	20	13	6.2	21	0.00	0.00	19	0.00
20	13	22	21	21	17	13	6.9	16	0.00	0.00	14	0.00
21	11	22	20	22	20	14	8.3	10	0.00	0.00	11	0.00
22	11	23	19	21	21	13	6.0	7.0	7.6	0.00	8.2	0.00
23	22	25	18	21	20	13	1.7	19	15	0.00	6.6	0.00
24	149	27	24	21	19	11	1.4	15	8.5	0.00	5.9	0.00
25	205	26	27	21	18	11	1.7	10	4.9	0.00	4.8	0.00
26	79	25	87	21	20	11	1.7	8.4	3.2	0.00	5.2	0.00
27	42	24	60	21	20	11	0.48	8.1	0.82	0.00	3.4	0.00
28	30	25	39	25	17	10	0.79	7.1	0.32	0.00	1.2	0.00
29	25	25	31	23	---	12	0.50	5.2	0.09	0.00	0.66	0.00
30	22	23	27	21	---	12	0.53	4.7	0.09	0.00	0.16	0.00
31	21	---	25	19	---	12	---	4.8	---	0.00	0.03	---
Total	944	675	819	724	659	439	175.90	244.83	47.78	0.89	2,043.15	0.00
Mean	30.5	22.5	26.4	23.4	23.5	14.2	5.86	7.90	1.59	0.03	65.9	0.00
Max	205	27	87	28	44	20	12	21	15	0.30	1,030	0.00
Min	11	19	16	19	17	10	0.48	0.43	0.00	0.00	0.00	0.00
Ac-ft	1,870	1,340	1,620	1,440	1,310	871	349	486	95	1.8	4,050	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2011, BY WATER YEAR (WY) ²

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	174	55.0	51.9	48.2	60.3	50.1	121	259	123	132	54.8	324
Max	3,805	615	367	274	740	318	2,131	4,756	1,227	3,519	980	17,220
(WY)	(1931)	(1975)	(1975)	(1975)	(1992)	(1992)	(1949)	(1957)	(1941)	(1938)	(1942)	(1936)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1935)	(1952)	(1952)	(1955)	(1955)	(1955)	(1955)	(2000)	(1967)	(1934)	(1952)	(1954)

08136500 Concho River at Paint Rock, TX—Continued

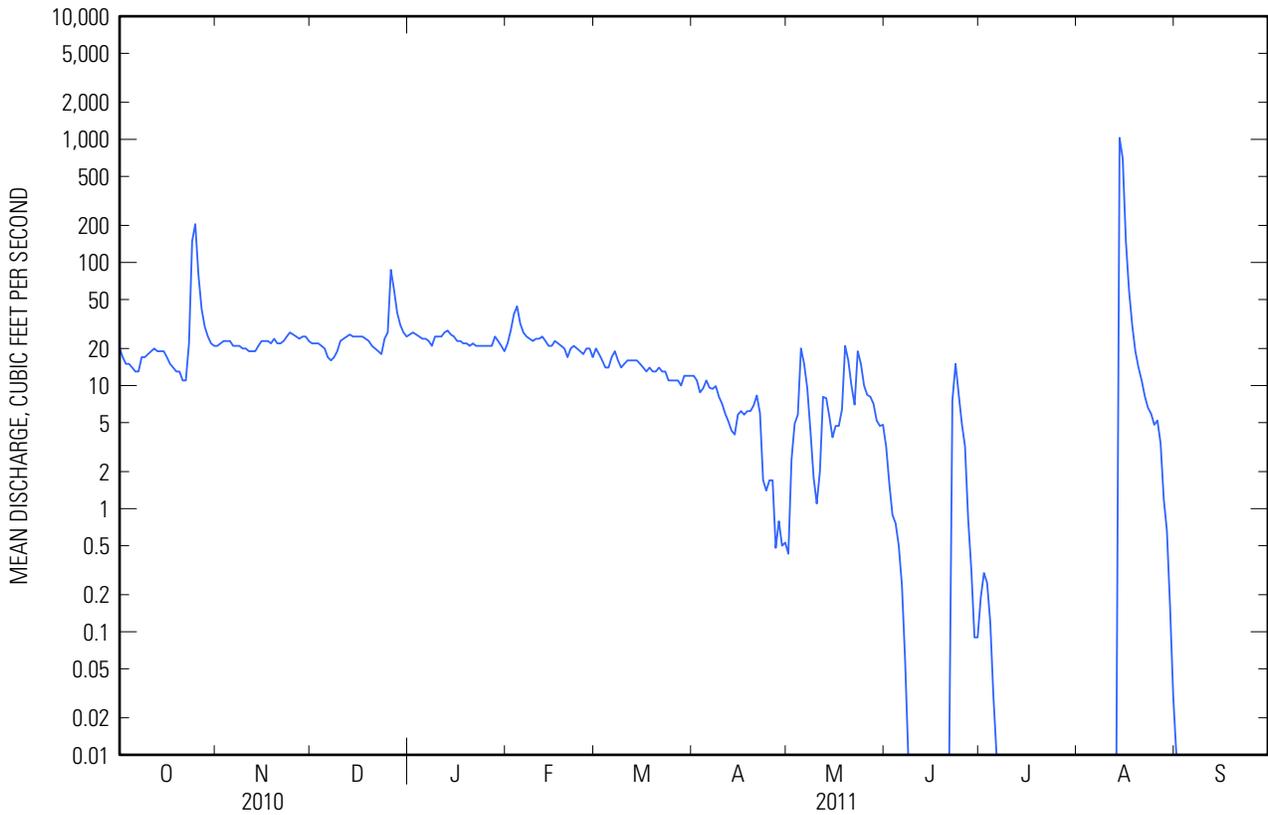
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1931 - 2011 ^z	
Annual total	9,678.91		6,772.55			
Annual mean	26.5		18.6		121	
Highest annual mean					1,470	1936
Lowest annual mean					7.56	2000
Highest daily mean	377	Apr 17	1,030	Aug 14	134,000	Sep 17, 1936
Lowest daily mean	0.00	Aug 13	0.00	Jun 9	0.00	Sep 28, 1931
Annual seven-day minimum	0.32	Aug 8	0.00	Jun 9	0.00	Sep 28, 1931
Maximum peak flow			2,830	Aug 14	ⁱ 301,000	Sep 17, 1936
Maximum peak stage			15.22	Aug 14	^a 43.40	Sep 17, 1936
Annual runoff (ac-ft)	19,200		13,430		87,850	
10 percent exceeds	45		25		116	
50 percent exceeds	20		13		22	
90 percent exceeds	5.4		0.00		0.10	

^z Period of regulated streamflow.

^a From floodmark.

ⁱ From slope-area measurement of peak flow.



08136500 Concho River at Paint Rock, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Mar. 1964 to June 2003.
BIOCHEMICAL DATA: Mar. 1964 to June 2003.
PESTICIDE DATA: Apr. 1968 to Oct. 1981.
RADIOCHEMICAL DATA: Jan. 1981 to June 2003.
SEDIMENT DATA: May 1978 to Sept. 1980.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Feb. 2001 to Oct. 26, 2011. (discontinued)
WATER TEMPERATURE: Feb. 2001 to Oct. 26, 2011. (discontinued)

INSTRUMENTATION.--A continuous two parameter water-quality instrument from Feb. 6, 2001 to Oct. 26, 2012.

REMARKS.--Specific conductance record is rated good. Temperature record is rated excellent. 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. Some records listed in the period of record may not be available electronically.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 4,180 microsiemens/cm, Aug. 14, 2011; minimum, 257 microsiemens/cm, Nov. 17, 2004.
WATER TEMPERATURE: Maximum daily, 35.6, on Aug. 1, 2, 2004; minimum daily, 0.0°C, on many days during winter months.
SEDIMENT CONCENTRATION: Maximum daily mean, 4,190 mg/L, Sept. 9, 1980; minimum daily mean, 3 mg/L, Feb. 2, 1979.
SEDIMENT LOADS: Maximum daily, 269,000 tons Sept. 9, 1980; minimum daily, 0.0 tons on several days during Sept. 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 4,180 microsiemens/cm, Aug. 14; minimum, 522 microsiemens/cm, Aug. 17
WATER TEMPERATURE: Maximum, 34.3°C, Aug. 26; minimum, 1.2°C, Feb. 4.

08136500 Concho River at Paint Rock, 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	2,650	2,550	2,600	1,640	1,600	1,620	2,610	2,600	2,610	2,610	2,580	2,590
2	2,670	2,610	2,640	1,660	1,610	1,640	2,620	2,610	2,620	2,630	2,610	2,620
3	2,670	2,650	2,670	1,720	1,650	1,680	2,630	2,620	2,630	2,640	2,620	2,630
4	2,740	2,660	2,690	1,780	1,710	1,740	2,640	2,630	2,640	2,620	2,600	2,610
5	2,740	2,640	2,700	1,830	1,780	1,790	2,650	2,640	2,640	2,600	2,580	2,590
6	2,740	2,610	2,660	1,870	1,810	1,840	2,650	2,640	2,640	2,620	2,580	2,600
7	2,670	2,560	2,610	1,910	1,860	1,880	2,680	2,650	2,660	2,620	2,600	2,610
8	2,620	2,490	2,550	1,950	1,900	1,930	2,680	2,680	2,680	2,600	2,510	2,560
9	2,570	2,480	2,530	1,980	1,940	1,960	2,680	2,680	2,680	2,510	2,460	2,490
10	2,530	2,400	2,450	2,030	1,980	2,000	2,680	2,670	2,670	2,470	2,450	2,460
11	2,440	2,340	2,400	2,060	2,020	2,040	2,680	2,670	2,670	2,460	2,440	2,450
12	2,360	2,290	2,330	2,100	2,060	2,080	2,670	2,670	2,670	2,510	2,460	2,480
13	2,290	2,250	2,270	2,120	2,080	2,100	2,710	2,670	2,680	2,530	2,510	2,520
14	2,280	2,240	2,260	2,170	2,120	2,140	2,710	2,690	2,700	2,540	2,520	2,530
15	2,320	2,270	2,290	2,220	2,170	2,190	2,710	2,700	2,700	2,540	2,530	2,540
16	2,330	2,290	2,310	2,250	2,220	2,230	2,720	2,700	2,710	2,540	2,530	2,540
17	2,350	2,310	2,330	2,290	2,250	2,270	2,720	2,710	2,710	2,530	2,520	2,520
18	2,360	2,330	2,340	2,310	2,280	2,290	2,720	2,700	2,710	2,550	2,520	2,540
19	2,400	2,350	2,370	2,330	2,300	2,310	2,700	2,690	2,700	2,580	2,550	2,560
20	2,430	2,380	2,400	2,360	2,320	2,340	2,700	2,690	2,690	2,590	2,560	2,580
21	2,460	2,420	2,440	2,380	2,360	2,370	2,700	2,680	2,690	2,600	2,590	2,590
22	2,460	2,440	2,450	2,420	2,380	2,400	2,690	2,680	2,690	2,610	2,590	2,600
23	2,470	2,410	2,440	2,460	2,420	2,440	2,700	2,680	2,690	2,610	2,600	2,610
24	2,470	2,370	2,410	2,480	2,460	2,470	2,700	2,640	2,670	2,620	2,610	2,610
25	2,450	2,290	2,340	2,500	2,480	2,490	2,650	2,640	2,640	2,620	2,620	2,620
26	2,300	2,100	2,220	2,530	2,500	2,510	2,680	2,640	2,660	2,630	2,620	2,620
27	2,100	1,820	1,960	2,550	2,530	2,540	2,680	2,670	2,670	2,630	2,600	2,610
28	1,820	1,700	1,750	2,570	2,550	2,560	2,670	2,580	2,620	2,610	2,580	2,590
29	1,700	1,620	1,660	2,590	2,570	2,580	2,580	2,540	2,560	2,600	2,580	2,590
30	1,650	1,590	1,620	2,610	2,580	2,590	2,560	2,540	2,550	2,590	2,580	2,580
31	1,660	1,610	1,640	---	---	---	2,580	2,560	2,570	2,600	2,580	2,590
Month	2,740	1,590	2,330	2,610	1,600	2,170	2,720	2,540	2,660	2,640	2,440	2,570

08136500 Concho River at Paint Rock, TX—Continued

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

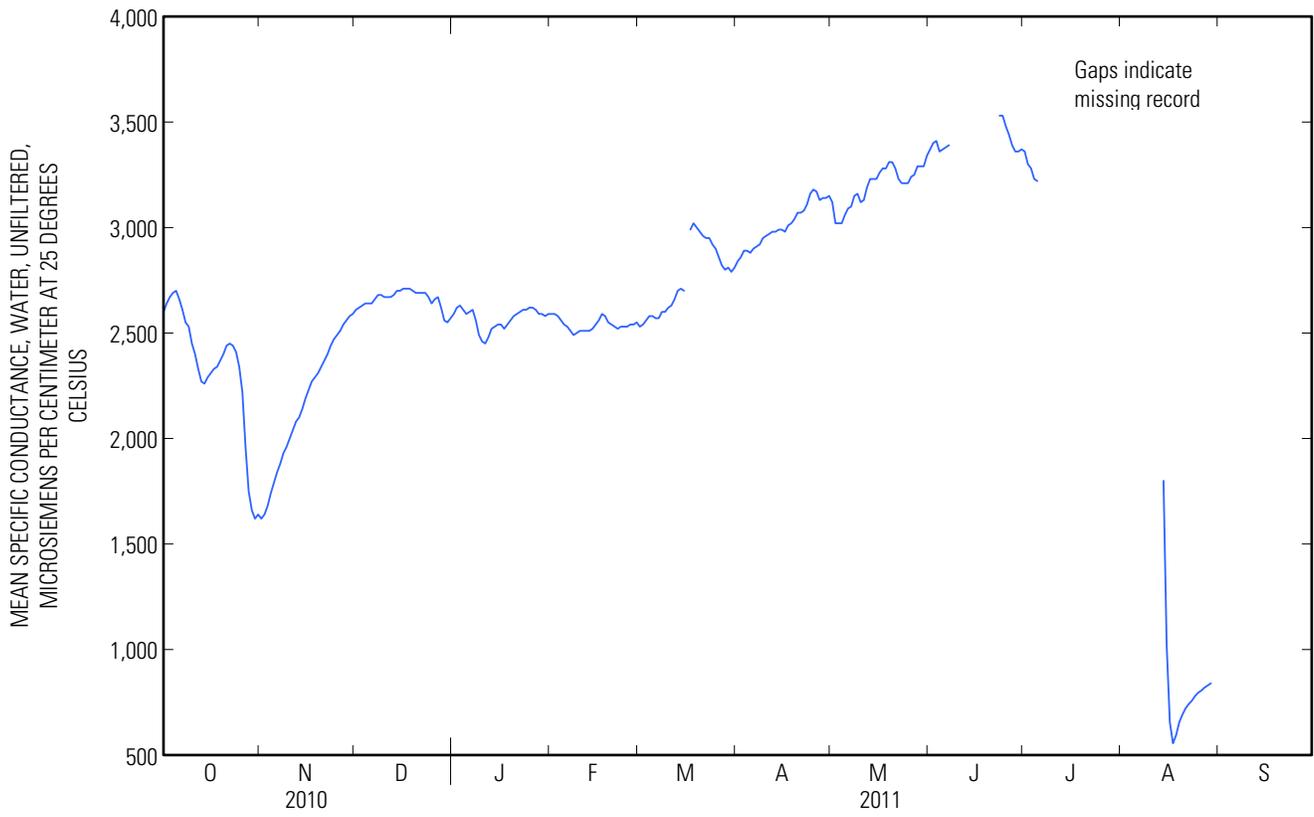
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2,600	2,580	2,590	2,550	2,520	2,530	2,860	2,830	2,840	3,160	3,040	3,120
2	2,600	2,580	2,590	2,550	2,520	2,540	2,890	2,850	2,860	3,040	3,000	3,020
3	2,600	2,570	2,580	2,590	2,540	2,560	2,900	2,870	2,890	3,060	3,000	3,020
4	2,580	2,550	2,560	2,600	2,580	2,580	2,900	2,880	2,890	3,050	3,010	3,020
5	2,550	2,530	2,540	2,590	2,570	2,580	2,910	2,860	2,880	3,090	3,040	3,060
6	2,540	2,520	2,530	2,590	2,560	2,570	2,920	2,890	2,900	3,100	3,080	3,090
7	2,520	2,500	2,510	2,600	2,560	2,570	2,920	2,900	2,910	3,140	3,080	3,100
8	2,500	2,480	2,490	2,610	2,580	2,600	2,940	2,910	2,920	3,180	3,110	3,150
9	2,510	2,490	2,500	2,610	2,590	2,600	2,960	2,940	2,950	3,180	3,140	3,160
10	2,520	2,500	2,510	2,640	2,610	2,620	2,980	2,940	2,960	3,180	3,080	3,120
11	2,520	2,500	2,510	2,650	2,620	2,630	2,980	2,950	2,970	3,160	3,100	3,130
12	2,510	2,500	2,510	2,680	2,640	2,660	2,990	2,970	2,980	3,220	3,160	3,190
13	2,520	2,510	2,510	2,720	2,680	2,700	2,990	2,960	2,980	3,250	3,210	3,230
14	2,530	2,520	2,520	2,720	2,700	2,710	3,000	2,980	2,990	3,240	3,210	3,230
15	2,550	2,520	2,540	2,720	2,690	2,700	3,000	2,970	2,990	3,260	3,200	3,230
16	2,580	2,550	2,560	---	---	---	3,000	2,960	2,980	3,280	3,230	3,260
17	2,600	2,570	2,590	3,040	2,940	2,990	3,030	2,990	3,010	3,280	3,250	3,280
18	2,590	2,560	2,580	3,040	3,010	3,020	3,030	2,990	3,020	3,310	3,250	3,280
19	2,560	2,540	2,550	3,010	2,990	3,000	3,060	3,030	3,040	3,330	3,280	3,310
20	2,540	2,530	2,540	2,990	2,970	2,980	3,090	3,020	3,070	3,340	3,290	3,310
21	2,540	2,520	2,530	2,970	2,950	2,960	3,090	3,060	3,070	3,320	3,240	3,280
22	2,530	2,520	2,520	2,960	2,930	2,950	3,100	3,060	3,080	3,280	3,200	3,230
23	2,540	2,520	2,530	2,960	2,940	2,950	3,130	3,080	3,110	3,240	3,170	3,210
24	2,540	2,530	2,530	2,950	2,900	2,920	3,180	3,120	3,160	3,250	3,160	3,210
25	2,540	2,520	2,530	2,910	2,880	2,900	3,200	3,170	3,180	3,230	3,200	3,210
26	2,550	2,520	2,540	2,880	2,840	2,860	3,180	3,130	3,170	3,270	3,190	3,240
27	2,560	2,530	2,540	2,840	2,800	2,820	3,150	3,110	3,130	3,300	3,200	3,250
28	2,560	2,540	2,550	2,810	2,790	2,800	3,160	3,120	3,140	3,320	3,240	3,290
29	---	---	---	2,810	2,800	2,810	3,160	3,130	3,140	3,330	3,200	3,290
30	---	---	---	2,800	2,780	2,790	3,160	3,140	3,150	3,320	3,250	3,290
31	---	---	---	2,830	2,790	2,810	---	---	---	3,370	3,300	3,340
Month	2,600	2,480	2,540	---	---	---	3,200	2,830	3,010	3,370	3,000	3,200

08136500 Concho River at Paint Rock, 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	3,410	3,340	3,370	3,390	3,330	3,360	---	---	---	---	---	---
2	3,440	3,370	3,400	3,330	3,270	3,300	---	---	---	---	---	---
3	3,440	3,340	3,410	3,320	3,240	3,280	---	---	---	---	---	---
4	3,420	3,320	3,360	3,270	3,210	3,230	---	---	---	---	---	---
5	3,420	3,330	3,370	3,260	3,200	3,220	---	---	---	---	---	---
6	3,400	3,350	3,380	---	---	---	---	---	---	---	---	---
7	3,400	3,380	3,390	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	4,180	1,230	1,800	---	---	---
15	---	---	---	---	---	---	1,230	837	1,020	---	---	---
16	---	---	---	---	---	---	837	541	656	---	---	---
17	---	---	---	---	---	---	581	522	556	---	---	---
18	---	---	---	---	---	---	638	552	595	---	---	---
19	---	---	---	---	---	---	676	638	656	---	---	---
20	---	---	---	---	---	---	712	676	692	---	---	---
21	---	---	---	---	---	---	741	712	722	---	---	---
22	---	---	---	---	---	---	753	729	742	---	---	---
23	3,550	3,510	3,530	---	---	---	772	746	758	---	---	---
24	3,560	3,510	3,530	---	---	---	789	771	780	---	---	---
25	3,520	3,440	3,480	---	---	---	805	789	796	---	---	---
26	3,480	3,400	3,440	---	---	---	817	800	806	---	---	---
27	3,430	3,250	3,390	---	---	---	835	813	820	---	---	---
28	3,410	3,250	3,360	---	---	---	845	821	830	---	---	---
29	3,390	3,310	3,360	---	---	---	858	829	840	---	---	---
30	3,410	3,330	3,370	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

08136500 Concho River at Paint Rock, TX—Continued



08136500 Concho River at Paint Rock, 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	26.0	22.9	24.4	19.6	17.0	18.2	11.0	8.3	9.7	10.3	8.3	9.5
2	25.4	22.8	24.0	18.0	16.5	17.4	10.7	7.8	9.3	8.7	6.5	7.7
3	23.5	21.9	22.7	17.3	15.8	16.7	12.4	8.0	10.1	9.0	6.8	7.7
4	23.1	20.2	21.6	16.5	14.6	15.7	11.3	9.4	10.4	10.0	7.0	8.3
5	22.0	19.3	20.7	17.0	12.9	14.8	10.5	8.7	9.6	10.0	7.8	8.9
6	23.0	19.0	20.9	16.3	12.7	14.4	10.4	7.7	8.9	9.9	7.0	8.4
7	24.3	19.4	21.4	16.1	12.5	14.3	9.7	7.1	8.5	9.1	6.8	8.0
8	23.6	19.7	21.6	17.1	13.0	15.0	9.4	7.1	8.4	8.8	6.2	7.7
9	24.5	20.2	22.1	17.8	14.6	16.1	9.6	6.6	8.2	9.4	7.8	8.6
10	23.9	20.9	22.4	19.3	14.9	17.0	11.0	7.6	9.2	9.3	8.4	8.8
11	25.1	21.8	23.2	18.6	16.5	17.6	10.2	8.8	9.5	8.4	6.1	7.3
12	24.1	21.6	22.8	18.1	16.3	17.6	9.4	7.7	8.6	6.1	4.9	5.5
13	23.0	20.8	21.9	17.1	14.8	16.0	9.2	6.3	7.9	5.3	4.2	4.8
14	22.9	19.6	21.1	15.8	13.5	14.7	9.2	6.2	8.0	6.3	3.8	5.1
15	23.1	18.9	20.7	14.5	12.7	13.7	10.8	7.2	9.3	7.9	6.3	6.8
16	22.2	19.0	20.6	14.1	12.0	13.2	10.6	9.0	9.8	9.0	7.2	7.8
17	22.1	19.5	20.8	13.8	12.3	13.1	9.0	7.5	8.4	10.3	7.3	8.7
18	23.1	19.5	21.2	14.3	11.2	12.7	9.2	6.1	7.7	11.6	8.8	10.1
19	24.3	20.2	21.9	14.7	10.9	12.8	9.3	6.0	7.7	12.1	9.2	10.8
20	24.5	20.9	22.5	15.6	11.6	13.6	10.8	7.5	9.3	11.3	8.1	9.9
21	23.7	21.6	22.7	16.9	14.6	15.7	12.4	9.0	10.8	9.1	6.5	7.9
22	23.6	22.3	22.9	18.2	16.0	16.9	12.0	10.0	11.1	9.4	5.8	7.6
23	22.7	21.4	22.0	18.3	15.1	16.8	11.8	10.8	11.4	8.6	6.6	7.8
24	21.7	19.3	20.6	19.6	17.1	18.2	11.6	9.7	11.1	9.3	6.2	7.9
25	21.1	18.9	19.9	18.6	14.3	16.8	9.7	8.0	9.1	8.4	6.8	7.7
26	21.3	19.0	20.2	14.3	11.5	13.3	8.7	7.0	7.9	8.4	5.3	7.0
27	20.7	18.8	19.8	12.3	9.2	10.9	8.5	7.5	7.9	8.8	5.6	7.2
28	20.1	18.1	19.0	12.0	9.2	10.7	9.1	7.5	8.4	9.6	6.2	8.0
29	19.6	16.0	17.7	13.0	10.8	11.9	11.3	9.0	10	10.9	7.0	9.1
30	18.9	15.3	17.0	12.1	9.7	11.0	13.2	10.7	11.5	11.9	8.8	10.5
31	19.7	15.7	17.6	---	---	---	12.0	10.0	11.3	13.4	9.0	11.1
Month	26.0	15.3	21.2	19.6	9.2	14.9	13.2	6.0	9.3	13.4	3.8	8.1

08136500 Concho River at Paint Rock, 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	11.5	6.0	8.3	18.1	14.2	16.1	20.1	16.8	18.1	24.1	20.0	22.2
2	6.2	3.0	4.8	17.7	14.2	16.0	22.4	17.9	19.9	20.3	18.4	19.4
3	3.2	2.0	2.5	19.4	14.9	17.2	24.8	20.2	22.3	23.4	17.6	19.9
4	3.4	1.2	2.6	19.1	17.0	17.7	24.0	20.4	21.9	21.3	17.5	19.3
5	5.6	2.6	3.9	17.3	15.6	16.5	21.8	18.2	20.0	25.1	19.1	21.7
6	6.4	4.0	5.4	17.2	13.8	15.5	23.8	18.7	20.9	24.3	20.9	22.8
7	7.8	5.0	6.4	17.3	13.9	15.6	24.8	20.8	22.7	28.6	21.9	24.6
8	9.2	5.6	7.5	17.5	15.4	16.6	26.1	22.4	24.0	28.1	23.9	25.8
9	8.3	5.1	6.6	17.1	14.7	15.9	26.6	23.0	24.7	26.4	24.8	25.6
10	7.3	3.5	5.3	17.3	13.9	15.7	27.8	23.3	25.1	25.3	24.1	24.5
11	8.1	3.5	5.5	17.5	14.0	15.9	25.8	23.0	24.0	26.0	23.1	24.2
12	8.7	4.5	6.4	19.4	15.4	17.5	23.8	21.3	22.6	27.1	23.5	25.0
13	9.8	5.7	7.9	19.9	17.3	18.5	23.4	20.8	22.1	26.8	24.0	25.4
14	12.5	7.6	9.8	19.6	16.5	18.0	23.7	21.5	22.5	26.5	22.9	24.6
15	13.2	8.8	11.3	20.1	16.2	17.8	22.7	20.4	21.4	24.5	22.5	23.4
16	15.9	11.3	13.5	20.5	17.7	18.9	21.1	18.8	20.0	25.9	21.7	23.6
17	18.5	14.6	16.4	23.7	19.0	21.0	22.8	18.8	20.6	25.4	22.1	23.6
18	19.6	15.5	17.3	24.6	20.7	22.5	24.9	20.7	22.5	28.5	22.9	25.0
19	17.8	16.5	17.1	22.7	21.5	22.1	25.1	23.1	24.0	27.8	24.8	26.1
20	19.4	16.7	17.7	22.0	21.0	21.3	26.5	22.5	23.8	28.0	25.3	26.5
21	18.9	16.8	17.5	21.6	20.4	21.0	24.7	22.1	23.4	28.1	24.6	26.4
22	17.5	15.5	16.6	23.3	19.9	21.4	26.8	22.9	24.4	29.2	26.0	27.5
23	19.7	15.5	17.1	23.1	20.5	21.8	28.0	23.9	25.8	31.3	26.5	28.1
24	18.3	16.9	17.6	21.6	19.8	20.8	26.8	24.9	25.8	30.7	27.2	28.7
25	18.3	14.8	16.3	24.3	20.0	21.8	25.9	24.6	25.3	28.4	26.1	27.1
26	19.2	14.6	16.9	23.5	21.1	22.2	25.1	23.1	24.2	29.1	25.0	26.7
27	19.6	17.5	18.4	22.2	19.8	20.9	24.3	21.9	22.9	29.6	25.0	27.1
28	18.0	16.1	16.8	21.7	18.6	19.8	24.6	20.6	22.5	31.8	26.7	28.8
29	---	---	---	19.7	17.4	18.7	23.4	20.9	22.1	28.8	26.7	27.8
30	---	---	---	17.4	15.6	16.5	25.9	21.4	23.3	29.0	25.8	27.3
31	---	---	---	18.6	14.7	16.5	---	---	---	28.2	26.1	27.1
Month	19.7	1.2	11.2	24.6	13.8	18.6	28.0	16.8	22.8	31.8	17.5	25.0

08136500 Concho River at Paint Rock, 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	28.6	26.2	27.3	31.1	28.7	29.8	---	---	---	---	---	---
2	28.2	26.0	27.1	31.1	28.6	29.6	---	---	---	---	---	---
3	27.9	25.5	26.7	31.9	28.4	30.0	---	---	---	---	---	---
4	28.4	25.8	27.0	32.1	28.6	30.0	---	---	---	---	---	---
5	29.0	26.1	27.5	32.8	28.6	30.2	---	---	---	---	---	---
6	29.5	26.4	27.8	---	---	---	---	---	---	---	---	---
7	29.6	26.5	27.9	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	28.2	26.5	27.3	---	---	---
15	---	---	---	---	---	---	28.1	26.4	27.4	---	---	---
16	---	---	---	---	---	---	30.6	26.5	28.3	---	---	---
17	---	---	---	---	---	---	33.0	28.3	30.0	---	---	---
18	---	---	---	---	---	---	32.4	28.9	30.3	---	---	---
19	---	---	---	---	---	---	31.9	28.9	30.1	---	---	---
20	---	---	---	---	---	---	31.4	28.7	29.9	---	---	---
21	---	---	---	---	---	---	33.5	28.8	30.3	---	---	---
22	30.9	27.1	29.4	---	---	---	32.3	28.8	30.2	---	---	---
23	31.7	27.4	29.0	---	---	---	33.0	28.8	30.4	---	---	---
24	31.6	27.8	29.5	---	---	---	33.5	28.8	30.6	---	---	---
25	32.5	28.1	29.9	---	---	---	32.0	29.1	30.2	---	---	---
26	32.3	28.3	30.1	---	---	---	34.3	28.9	30.7	---	---	---
27	33.9	28.6	30.7	---	---	---	33.7	28.9	30.6	---	---	---
28	34.2	28.9	30.8	---	---	---	33.6	28.8	30.6	---	---	---
29	32.0	28.9	30.2	---	---	---	33.4	28.9	30.4	---	---	---
30	31.1	28.9	29.9	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

08136500 Concho River at Paint Rock, TX—Continued

