Water-Data Report 2013

08065350 Trinity River near Crockett, TX

Lower Trinity Basin
Lower Trinity-Tehuacana Subbasin

LOCATION.--Lat 31°20′18″, long 95°39′22″ referenced to North American Datum of 1927, Houston County, TX, Hydrologic Unit 12030201, on left bank at an abandoned bridge abutment near left end of an abandoned lock and dam, 1,000 ft upstream from State Highway 7, 6.9 mi downstream from Upper Keechi Creek, 11.9 mi west of Crockett, and at mile 265.4.

DRAINAGE AREA.--13,911 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 141.15 ft above NGVD of 1929. Prior to Oct. 13, 1983, water-stage recorder at site 1,000 ft downstream at datum 4.56 ft lower. Satellite telemeter at station.

REMARKS.--Records fair. Since installation of gage at least 10% of contributing drainage area has been regulated. There are many diversions above station for irrigation, municipal, and industrial uses. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1900, 56.1 ft, Apr. 30 or May 1, 1942, at former site and datum, from information by Texas Department of Transportation.

08065350 Trinity River near Crockett, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,090	814	831	1,610	1,540	1,620	1,600	1,520	1,680	958	940	727
2	2,620	836	839	1,470	1,680	1,570	2,510	1,490	2,100	953	880	749
3	6,080	852	830	1,370	2,020	1,530	3,800	1,440	2,010	938	845	715
4	5,740	831	840	1,380	1,880	1,500	3,050	1,440	1,670	914	789	722
5	2,740	794	885	1,380	1,630	1,480	2,370	1,410	1,510	895	790	708
6	1,600	808	883	1,280	1,530	1,450	3,590	1,410	1,560	887	781	778
7	1,310	879	892	1,210	1,520	1,430	5,560	1,420	1,670	872	742	880
8	1,210	885	897	1,200	1,560	1,440	4,780	1,340	1,440	864	730	845
9	1,130	830	909	2,230	1,560	1,460	2,980	1,310	1,810	828	727	748
10	1,180	815	905	3,920	1,920	1,630	2,250	1,310	2,980	764	757	710
11	1,230	831	902	5,460	3,230	1,860	2,030	1,490	2,500	764	834	692
12	1,210	841	901	10,600	2,640	1,810	1,930	1,670	3,140	783	805	689
13	1,100	859	868	13,900	4,280	3,880	1,950	1,770	5,120	790	786	722
14	1,120	882	859	13,900	5,820	5,260	2,380	1,820	3,940	780	791	722
15	1,070	859	911	9,440	4,720	3,640	2,290	1,690	2,200	855	809	691
16	1,020	863	917	5,460	3,670	2,350	2,020	1,580	1,580	864	937	701
17	1,940	862	943	3,370	2,770	1,920	1,840	1,520	1,420	926	1,670	693
18	3,070	843	1,060	2,450	2,210	1,740	1,780	1,950	1,350	1,150	2,260	695
19	2,220	844	1,270	2,160	1,950	1,650	1,760	5,920	1,360	1,800	1,780	711
20	1,500	861	1,220	1,980	1,800	1,580	1,830	6,960	1,450	2,530	1,340	870
21	1,220	856	1,100	1,860	1,710	1,540	3,850	4,610	2,730	2,490	1,090	1,120
22	1,120	838	1,050	1,760	1,680	1,540	5,470	2,410	2,670	1,820	946	1,190
23	1,020	846	1,060	1,690	1,700	1,530	4,100	1,800	1,900	1,410	885	2,790
24	925	830	1,190	1,640	1,700	1,500	2,520	2,010	1,470	1,350	860	4,600
25	902	824	1,300	1,600	1,830	1,460	1,920	3,580	1,280	1,350	839	3,070
26	918	857	1,410	1,580	1,890	1,500	1,750	3,220	1,150	1,260	815	1,700
27	909	833	1,350	1,560	1,750	1,670	1,700	2,250	1,050	1,150	780	1,250
28	909	800	1,960	1,560	1,660	1,590	1,660	2,050	1,020	1,030	758	1,080
29	897	774	4,140	1,550	---	1,540	1,600	2,780	1,000	940	747	1,080
30	911	801	3,250	1,540	---	1,520	1,550	2,550	971	894	739	1,300
31	860	---	2,030	1,540	---	1,540	---	1,960	---	939	750	---
Total	53,771	25,148	38,402	103,650	63,850	57,730	78,420	69,680	57,731	34,748	29,202	33,948
Mean	1,735	838	1,239	3,344	2,280	1,862	2,614	2,248	1,924	1,121	942	1,132
Max	6,080	885	4,140	13,900	5,820	5,260	5,560	6,960	5,120	2,530	2,260	4,600
Min	860	774	830	1,200	1,520	1,430	1,550	1,310	971	764	727	689
Ac-ft	106,700	49,880	76,170	205,600	126,600	114,500	155,500	138,200	114,500	68,920	57,920	67,340

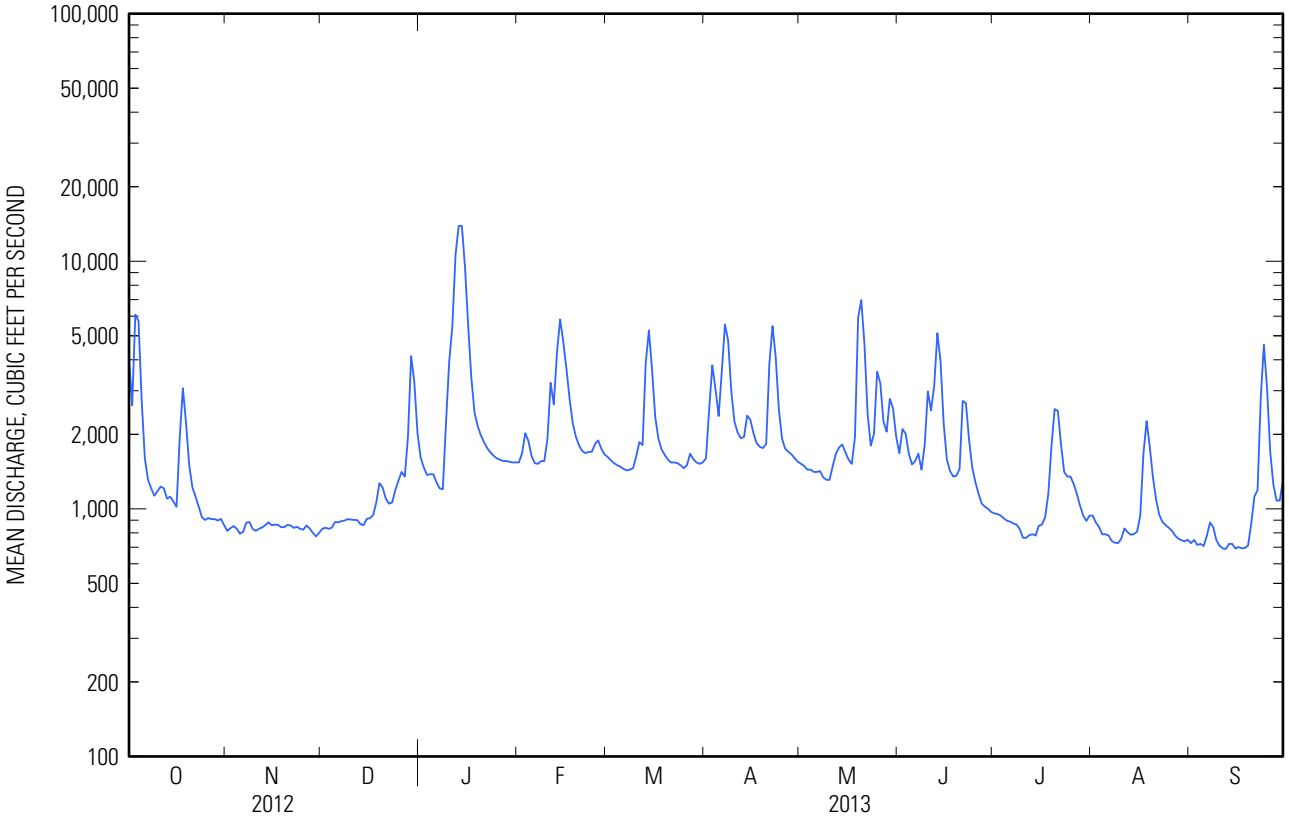
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,289	5,379	6,741	6,154	7,934	10,010	8,549	11,290	8,480	3,820	2,040	2,021
Max	19,920	26,110	35,440	33,620	32,430	39,700	25,960	62,100	29,570	40,480	12,960	7,508
(WY)	(2010)	(1975)	(1992)	(1992)	(2010)	(2001)	(1977)	(1990)	(1989)	(2007)	(2007)	(2007)
Min	548	619	719	514	670	730	931	939	822	374	413	513
(WY)	(1979)	(1967)	(1967)	(1964)	(1967)	(1967)	(1972)	(1971)	(1971)	(1964)	(1967)	(1972)

08065350 Trinity River near Crockett, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1964 - 2013	
Annual total	1,445,060		646,280			
Annual mean	3,948		1,771		6,385	
Highest annual mean					16,810	1992
Lowest annual mean					1,352	1971
Highest daily mean	38,900	Mar 30	13,900	Jan 13	109,000	May 10, 1990
Lowest daily mean	599	Aug 7	689	Sep 12	278	Aug 12, 1964
Annual seven-day minimum	608	Aug 2	701	Sep 11	293	Aug 10, 1964
Maximum peak flow			14,700	Jan 14	109,000	May 10, 1990
Maximum peak stage			19.00	Jan 14	48.54	May 10, 1990
Annual runoff (ac-ft)	2,866,000		1,282,000		4,626,000	
10 percent exceeds	13,100		3,170		18,700	
50 percent exceeds	1,180		1,440		2,210	
90 percent exceeds	760		791		795	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Feb. 1964 to current year.
BIOCHEMICAL DATA: Feb. 1964 to current year.
BIOLOGICAL DATA: Oct. 1974 to Sept. 1977, Dec. 1992 to Aug. 1994.
PESTICIDE DATA: Nov. 1971 to July 1981, Dec. 1992, Feb. 1994 and May 1994.
RADIOCHEMICAL DATA: Feb. 1981 and Dec. 1992.
SEDIMENT DATA: Nov. 1972 to Sept. 1977.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Feb. 1964 to current year.
pH: Mar. 1975 to current year.
WATER TEMPERATURE: Feb. 1964 to Sept. 1971, Mar. 1975 to current year.
DISSOLVED OXYGEN: Mar. 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: July 1972 to Sept. 1977.

INSTRUMENTATION.--Water-quality monitor since Mar. 1975.

REMARKS.--Record for water temperature good. Record for pH fair. Record for specific conductance good. Record for dissolved oxygen poor. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. 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 (or continuous) 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 upon request.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,370 microsiemens/cm, Sept. 22, 1964; minimum, 89 microsiemens/cm, June 8, 2001.
pH: Maximum, 10.2 standard units, June 20,27,28, 2013; minimum, 5.9 units, Aug. 12, 1977.
WATER TEMPERATURE: Maximum, 37.0°C, July 4, 1970, Sept. 4, 1978; minimum, 1.0°C, Jan. 17, 1978, Nov. 24, 1984.
DISSOLVED OXYGEN: Maximum, 19.3 mg/L, Feb. 10, 1981; minimum, 0.0 mg/L, Apr. 20, 1976.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 855 microsiemens/cm, July 17-19; minimum, 204 microsiemens/cm, Oct. 1.
pH: Maximum, 10.2 units, June 20,27,28; minimum, 7.2 units, Oct. 1
WATER TEMPERATURE: Maximum, 33.7°C, Aug. 10; minimum, 7.8°C, Jan. 3.
DISSOLVED OXYGEN: Maximum, 16.1 mg/L, Mar. 08; minimum, 1.3 mg/L, Sept. 26.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 6

[%, 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; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Discharge, instanta-neous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)
12-11-2012	**0952**	Surface water	Regular	761	915	9.7	97	7.9	8.0
03-20-2013	**1035**	Surface water	Regular	762	1,590	8.6	93	7.8	8.0
06-04-2013	**0922**	Surface water	Regular	755	1,640	7.2	92	8.0	7.4
07-30-2013	**0955**	Surface water	Regular	760	883	7.6	100	8.0	8.3
09-25-2013	**1007**	Surface water	Regular	753	3,080	5.3	66	7.7	7.8
09-27-2013	***1011***	*QC sample - Artificial*	*Blank*	--	--	--	--	--	*E 6.6*

08065350 Trinity River near Crockett, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 2 of 6

[%, 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; <, less than; E, estimated]

Date	Sample start time	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Type of blank sample (99102)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Dissolved solids, water, filtered, tons per acre-foot (70303)	Dissolved solids, water, tons per day (70302)	Hardness, water, mg/L as $CaCO_3$ (00900)	Noncarbonate hardness, water, filtered, field, mg/L as $CaCO_3$ (00904)
12-11-2012	**0952**	782	773	15.0	--	460	0.63	1,140	185	82
03-20-2013	**1035**	499	513	18.9	--	289	.39	1,240	151	53
06-04-2013	**0922**	236	485	27.9	--	293	.40	1,300	152	53
07-30-2013	**0955**	503	514	29.9	--	294	.40	700	130	25
09-25-2013	**1007**	440	436	25.5	--	250	.34	2,080	115	21
09-27-2013	***1011***	*< 5*	--	--	*Equipment*	--	--	--	*< .11*	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 3 of 6

[%, 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; <, less than; E, estimated]

Date	Sample start time	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	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)
12-11-2012	**0952**	62.8	6.74	12.5	2.51	46	78.3	104	125
03-20-2013	**1035**	51.5	5.48	6.36	1.34	34	37.7	99	119
06-04-2013	**0922**	51.1	5.89	6.53	1.35	34	38.4	99	120
07-30-2013	**0955**	44.7	4.53	7.53	1.66	40	43.6	106	126
09-25-2013	**1007**	39.1	4.22	8.25	1.48	39	36.6	94	115
09-27-2013	***1011***	*.025*	*< .011*	*.09*	--	--	*.11*	--	--

08065350 Trinity River near Crockett, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 4 of 6

[%, 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; <, less than; E, estimated]

Date	Sample start time	Carbon dioxide, water, unfiltered, mg/L (00405)	Carbonate, water, filtered, inflection-point incremental titration method, field, mg/L (00452)	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, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as NH4 (71846)	Ammonia, water, filtered, mg/L as N (00608)
12-11-2012	**0952**	2.5	< 1	87.4	0.80	7.40	87.7	0.87	0.019	0.015
03-20-2013	**1035**	3.1	< 1	41.2	.33	5.86	72.3	.51	.070	.055
06-04-2013	**0922**	2.0	< 1	41.5	.38	5.79	73.9	.42	< .013	< .010
07-30-2013	**0955**	2.1	1	45.8	.60	5.77	63.5	.45	.016	.012
09-25-2013	**1007**	4.2	< 1	36.3	.53	5.77	43.6	.45	< .013	< .010
09-27-2013	***1011***	--	--	*.24*	*< .01*	*< .06*	*< .09*	*.18*	*.035*	*.027*

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 5 of 6

[%, 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; <, less than; E, estimated]

Date	Sample start time	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate, water, filtered, mg/L (71851)	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, filtered, mg/L (00607)	Orthophos-phate, water, filtered, mg/L (00660)	Orthophos-phate, water, filtered, mg/L as P (00671)	Phos-phorus, water, filtered, mg/L as P (00666)
12-11-2012	**0952**	11.3	50.0	11.3	0.049	0.015	0.85	4.29	1.40	1.43
03-20-2013	**1035**	2.04	8.89	2.01	.101	.031	.45	.771	.252	.24
06-04-2013	**0922**	2.16	9.58	2.16	< .003	< .001	< .42	.697	.227	.23
07-30-2013	**0955**	2.91	12.9	2.90	.023	.007	.44	1.36	.442	.43
09-25-2013	**1007**	3.99	17.6	3.98	.016	.005	< .45	1.22	.398	.44
09-27-2013	***1011***	*< .040*	*< .177*	*< .040*	*< .003*	*< .001*	*.15*	*< .012*	*< .004*	*< .02*

08065350 Trinity River near Crockett, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 6

[%, 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; <, less than; E, estimated]

Date	Sample start time	Total nitrogen, water, filtered, mg/L (00602)
12-11-2012	**0952**	12
03-20-2013	**1035**	2.5
06-04-2013	**0922**	2.6
07-30-2013	**0955**	3.4
09-25-2013	**1007**	4.4
09-27-2013	***1011***	*< .22*

08065350 Trinity River near Crockett, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	---	---	---	623	596	613	713	705	708	503	480	495
2	541	240	334	648	623	639	716	711	714	505	461	482
3	642	541	594	687	648	665	712	708	709	477	453	464
4	655	369	486	713	687	700	709	696	704	472	453	459
5	370	344	353	731	713	723	717	704	711	455	430	448
6	431	356	397	744	731	737	718	711	715	446	443	444
7	417	408	412	751	744	746	712	709	710	457	444	450
8	408	405	407	752	750	751	717	711	713	473	457	465
9	406	403	404	761	750	755	720	709	717	474	275	386
10	412	404	408	770	761	766	709	663	687	289	265	277
11	423	412	417	767	730	751	687	665	676	472	267	342
12	434	423	430	735	725	728	681	671	676	490	336	412
13	459	434	444	758	735	747	686	680	683	433	311	347
14	466	447	458	761	755	758	681	670	675	330	301	315
15	---	---	---	760	744	750	672	667	670	315	308	312
16	---	---	---	747	740	742	672	649	660	---	---	---
17	648	478	556	747	730	738	658	649	655	---	---	---
18	743	648	704	734	721	726	658	649	652	---	---	---
19	743	614	701	726	720	722	664	633	654	396	379	390
20	648	605	628	734	725	728	664	657	660	394	355	368
21	605	541	569	735	730	732	657	649	652	389	359	379
22	550	536	545	733	721	726	661	654	659	391	389	390
23	536	497	510	721	712	715	659	644	652	411	391	400
24	534	498	514	730	712	719	650	640	645	449	411	431
25	540	522	535	732	724	729	651	591	622	---	---	---
26	522	480	496	724	709	717	591	413	491	---	---	---
27	480	474	476	710	704	707	519	444	502	---	---	---
28	489	478	483	713	688	703	552	505	522	---	---	---
29	517	489	503	714	707	711	617	533	583	560	548	552
30	547	517	533	708	704	705	604	497	576	569	559	564
31	596	547	569	---	---	---	511	483	501	575	560	567
Month	---	---	---	770	596	722	720	413	650	---	---	---

08065350 Trinity River near Crockett, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

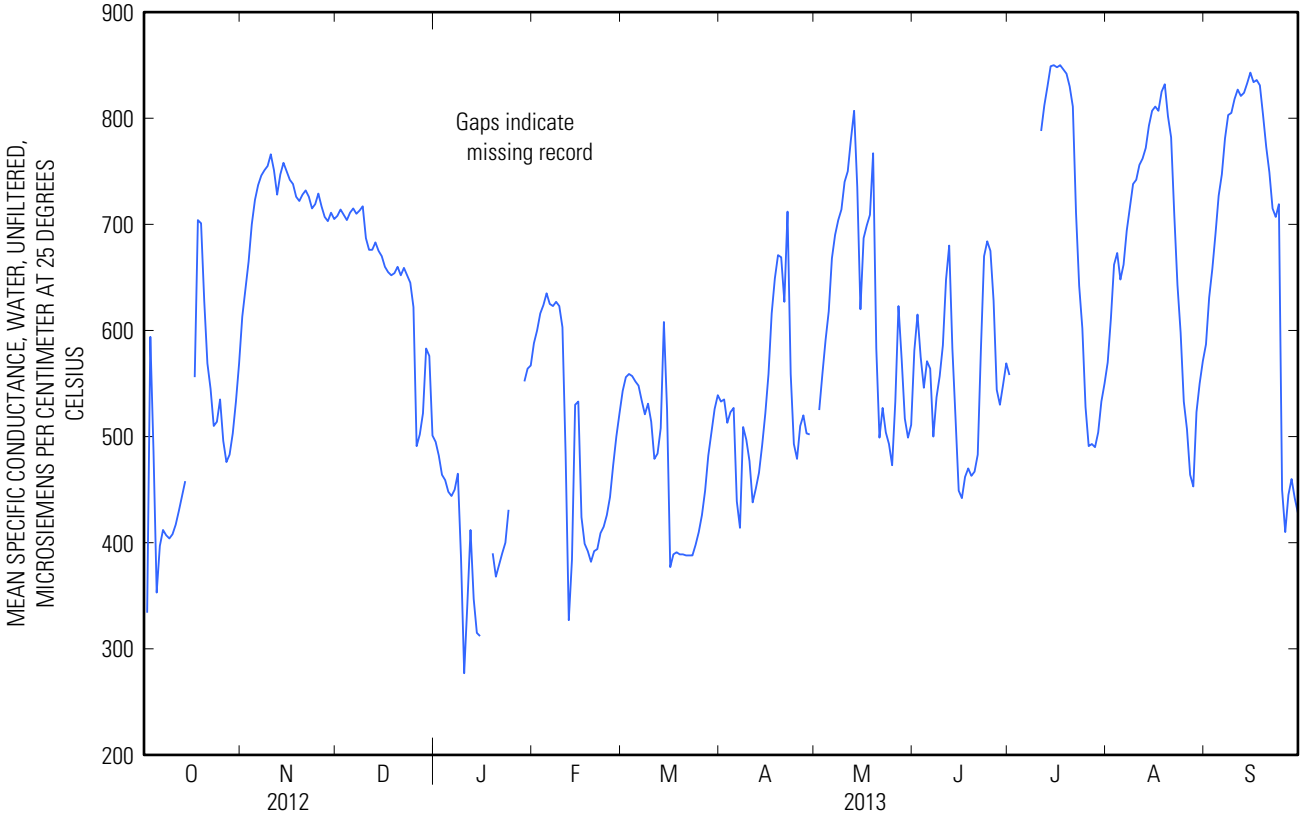
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	599	575	588	549	530	543	537	529	533	---	---	---
2	610	597	600	560	548	556	541	530	535	541	511	525
3	620	610	616	561	557	559	543	492	513	578	539	559
4	632	613	624	559	555	557	535	510	523	602	570	591
5	638	632	635	559	546	552	536	496	527	645	588	618
6	632	621	625	551	544	548	496	405	439	689	639	668
7	625	621	623	544	522	534	452	389	414	698	681	690
8	628	625	627	527	514	521	534	452	509	713	689	704
9	626	620	623	535	527	531	533	478	497	729	700	714
10	620	584	603	529	504	514	508	442	477	747	728	740
11	584	362	483	509	449	479	443	434	438	761	738	750
12	362	313	327	501	461	484	459	443	451	796	761	780
13	443	347	384	567	461	508	475	459	466	813	796	807
14	560	443	530	619	567	608	508	475	492	808	650	735
15	560	468	533	618	402	525	539	508	522	650	593	620
16	468	393	424	402	371	377	587	539	559	704	625	687
17	407	391	399	396	379	389	630	587	616	704	694	699
18	407	382	392	396	387	391	660	630	649	734	701	709
19	386	380	382	391	388	389	679	660	671	794	734	767
20	394	386	392	390	387	389	677	663	669	794	461	583
21	401	390	394	389	386	388	670	577	627	530	475	499
22	412	401	409	389	386	388	750	631	712	533	515	527
23	418	412	415	393	386	388	716	470	559	515	499	504
24	434	418	426	403	393	398	507	470	493	504	473	493
25	455	434	443	418	403	410	490	473	479	489	466	473
26	491	455	473	434	418	426	524	490	510	604	485	533
27	509	491	500	470	434	449	525	511	520	638	604	623
28	530	509	522	496	470	482	511	498	503	604	551	573
29	---	---	---	513	496	504	505	492	502	551	495	517
30	---	---	---	534	513	526	---	---	---	505	494	499
31	---	---	---	544	534	539	---	---	---	543	497	511
Month	638	313	500	619	371	479	---	---	---	---	---	---

08065350 Trinity River near Crockett, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	612	543	581	571	548	558	574	556	570	608	574	587
2	618	608	615	---	---	---	651	574	611	644	608	631
3	608	558	575	---	---	---	667	651	662	679	643	658
4	558	539	546	---	---	---	676	667	673	711	670	691
5	580	553	571	---	---	---	669	636	648	735	711	727
6	582	500	564	---	---	---	670	655	662	766	735	747
7	520	471	500	---	---	---	710	670	694	794	766	781
8	546	520	537	---	---	---	724	710	716	807	794	803
9	581	537	557	---	---	---	744	724	738	814	801	805
10	614	568	586	783	---	---	752	737	742	823	813	818
11	678	613	648	796	783	788	759	752	756	831	823	827
12	686	662	680	827	796	812	768	757	762	826	818	821
13	662	546	583	839	824	830	792	756	772	826	822	824
14	549	461	517	853	839	849	804	771	793	842	824	833
15	461	445	449	853	847	850	813	791	807	846	839	843
16	449	435	442	854	842	848	812	804	811	844	832	834
17	472	449	462	855	845	850	814	802	807	837	834	836
18	473	465	470	855	825	846	832	813	825	837	823	831
19	465	462	463	855	825	842	844	805	832	823	761	803
20	471	463	467	854	820	830	805	798	802	795	737	773
21	524	470	483	824	789	811	799	755	782	765	730	749
22	643	524	582	801	619	711	755	662	709	751	703	715
23	682	643	670	653	619	642	662	634	643	757	643	707
24	691	677	684	640	565	602	639	561	598	763	647	719
25	687	664	675	565	495	528	561	513	533	647	392	450
26	664	577	628	497	485	491	513	490	507	428	395	410
27	577	527	544	497	489	493	490	440	464	460	428	445
28	537	526	530	496	487	490	491	438	453	464	453	460
29	561	537	549	517	495	504	533	491	523	453	433	442
30	573	561	569	544	517	533	567	532	550	435	421	428
31	---	---	---	565	543	550	574	567	571	---	---	---
Month	691	435	558	---	---	---	844	438	678	846	392	700

08065350 Trinity River near Crockett, TX—Continued



08065350 Trinity River near Crockett, TX—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	7.4	7.2	8.3	8.1	8.0	7.7	8.0	7.9	8.4	8.2	8.4	8.2
2	7.7	7.3	8.2	8.1	7.9	7.8	8.1	8.0	8.3	8.2	8.5	8.3
3	7.8	7.7	8.2	8.2	7.9	7.6	8.1	8.0	8.3	8.2	8.6	8.4
4	7.9	7.7	8.2	8.1	7.9	7.8	8.0	7.9	8.3	8.2	8.6	8.5
5	7.9	7.8	8.2	8.1	7.9	7.9	8.0	8.0	8.3	8.2	8.8	8.5
6	7.9	7.8	8.3	8.2	7.9	7.8	8.1	8.0	8.2	8.2	8.8	8.6
7	7.9	7.8	8.3	8.2	7.9	7.7	8.1	8.0	8.2	8.1	9.1	8.7
8	7.9	7.9	8.2	8.0	7.8	7.7	8.1	8.0	8.2	8.1	9.2	8.9
9	7.9	7.8	8.1	7.9	7.8	7.7	8.0	7.8	8.2	8.1	9.2	9.0
10	7.8	7.8	8.0	7.9	8.0	7.8	7.8	7.6	8.3	8.1	9.1	8.9
11	7.8	7.8	8.0	7.9	8.1	8.0	7.8	7.6	8.4	8.1	9.1	8.7
12	7.9	7.8	8.1	8.0	8.1	8.0	8.0	7.8	8.5	8.1	8.8	8.7
13	7.9	7.8	8.1	8.0	8.1	7.9	7.9	7.6	8.1	8.0	8.9	8.2
14	7.9	7.8	8.0	8.0	8.1	8.0	8.1	7.7	8.0	7.9	8.2	7.8
15	---	---	8.0	8.0	8.1	8.0	8.0	7.9	7.9	7.9	7.8	7.8
16	---	---	8.0	8.0	8.0	7.9	8.2	8.0	8.0	7.8	8.0	7.8
17	8.1	7.9	8.1	7.9	8.1	7.9	8.1	8.0	8.0	7.9	8.0	7.6
18	8.0	7.9	8.0	7.9	8.2	8.0	8.1	7.9	8.0	7.9	7.8	7.7
19	7.9	7.9	8.0	7.8	8.2	8.2	8.0	7.9	8.0	7.9	7.8	7.6
20	7.9	7.9	8.0	7.8	8.3	8.2	8.0	8.0	8.0	8.0	7.8	7.7
21	8.0	7.9	8.0	7.8	8.3	8.3	8.0	7.9	8.0	7.8	7.9	7.8
22	8.0	7.9	8.0	7.8	8.3	8.2	8.0	7.9	7.9	7.8	8.0	7.8
23	8.0	7.9	8.0	7.9	8.2	8.2	8.0	8.0	8.0	7.9	8.0	7.8
24	8.0	7.9	8.0	7.9	8.3	8.2	8.0	8.0	8.1	7.9	8.2	7.9
25	8.0	7.9	8.0	7.8	8.2	8.1	8.0	8.0	8.2	8.1	8.3	8.0
26	8.2	8.0	7.9	7.6	8.1	8.0	8.1	8.0	8.3	8.2	8.5	8.1
27	8.2	8.2	8.0	7.9	8.1	8.0	8.2	8.0	8.3	8.2	8.6	8.3
28	8.3	8.2	8.1	7.9	8.1	8.0	8.5	8.0	8.4	8.2	8.7	8.4
29	8.3	8.2	8.1	7.8	8.2	8.1	8.3	8.2	---	---	8.7	8.5
30	8.3	8.3	8.0	7.8	8.1	7.9	8.3	8.2	---	---	8.8	8.5
31	8.3	8.2	---	---	7.9	7.8	8.3	8.2	---	---	8.8	8.6
Month	---	---	8.3	7.6	8.3	7.6	8.5	7.6	8.5	7.8	9.2	7.6

08065350 Trinity River near Crockett, TX—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	8.7	8.4	9.0	8.7	8.5	8.4	---	---	8.8	8.5	8.8	8.5
2	8.4	8.0	9.2	8.9	8.6	8.5	---	---	8.8	8.6	8.8	8.5
3	8.0	7.7	9.5	9.1	8.6	8.4	---	---	8.8	8.6	8.7	8.3
4	7.8	7.7	9.6	9.4	8.8	8.4	---	---	8.6	8.5	8.8	8.3
5	8.0	7.8	9.8	9.6	9.1	8.6	---	---	8.6	8.3	8.7	8.2
6	8.0	7.9	9.9	9.7	8.9	8.5	---	---	8.7	8.3	8.7	8.3
7	8.0	7.8	9.8	9.7	9.0	8.4	---	---	8.6	8.3	8.5	8.3
8	7.8	7.4	9.8	9.6	9.0	8.6	---	---	8.3	7.9	8.4	8.0
9	7.6	7.5	9.7	9.5	9.0	8.5	---	---	8.2	7.8	8.2	7.8
10	7.8	7.6	9.5	9.4	8.7	8.5	---	---	8.0	7.6	8.1	7.6
11	7.9	7.8	9.5	9.3	8.7	8.6	8.6	8.3	8.0	7.6	8.1	7.4
12	8.0	7.9	9.5	9.2	9.0	8.7	8.5	8.2	8.0	7.7	8.0	7.3
13	8.0	7.9	9.3	9.0	8.9	8.9	8.6	8.3	8.2	7.8	8.0	7.4
14	8.1	8.0	9.1	8.1	9.0	8.9	8.5	8.2	8.2	7.9	8.1	7.4
15	8.2	8.1	8.1	8.0	9.1	9.0	8.2	8.1	8.3	7.8	8.3	7.6
16	8.5	8.2	8.6	8.0	9.5	9.1	8.2	8.0	8.3	8.0	8.3	7.7
17	8.6	8.2	8.7	8.3	9.7	9.4	8.2	8.0	8.2	8.0	8.2	7.6
18	8.6	8.3	8.7	8.3	9.8	9.7	8.2	8.0	8.0	7.8	8.2	7.7
19	8.9	8.5	8.3	7.8	10.0	9.7	8.1	8.0	7.8	7.7	8.2	7.7
20	9.0	8.6	8.1	7.8	10.2	9.7	---	---	7.8	7.6	8.1	7.6
21	8.9	8.3	8.0	8.0	10.1	9.3	---	---	7.8	7.5	8.0	7.9
22	8.3	7.9	8.0	7.9	9.8	9.7	---	---	7.8	7.5	8.0	7.8
23	7.9	7.9	8.0	7.9	9.7	9.4	---	---	7.9	7.8	7.9	7.7
24	8.0	7.9	8.0	7.9	9.8	9.3	---	---	7.9	7.7	7.8	7.7
25	8.1	8.0	8.1	8.0	9.9	9.7	---	---	7.9	7.8	7.8	7.7
26	8.2	8.1	8.2	8.1	9.9	9.5	---	---	8.0	7.8	7.8	7.8
27	8.2	8.1	8.2	8.2	10.2	9.7	---	---	8.1	7.9	7.8	7.8
28	8.3	8.2	8.3	8.2	10.2	9.9	---	---	8.3	7.9	7.9	7.8
29	8.6	8.3	8.3	8.3	---	---	---	---	8.4	8.0	7.9	7.8
30	8.8	8.5	8.4	8.3	---	---	---	---	8.4	8.0	8.0	7.8
31	---	---	8.4	8.3	---	---	---	---	8.8	8.2	---	---
Month	9.0	7.4	9.9	7.8	---	---	---	---	8.8	7.5	8.8	7.3

08065350 Trinity River near Crockett, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	22.6	21.6	22.0	19.1	17.6	18.3	16.5	14.9	15.7	9.3	9.0	9.1
2	22.8	21.8	22.3	19.8	18.5	19.0	17.5	16.0	16.8	9.0	8.4	8.7
3	23.6	22.8	23.1	19.9	19.2	19.4	18.4	17.1	17.7	8.6	7.8	8.3
4	23.7	23.3	23.6	20.6	19.3	19.8	18.6	17.9	18.2	8.8	8.2	8.4
5	24.2	23.2	23.7	20.9	19.8	20.2	18.1	17.5	17.8	8.9	8.4	8.6
6	23.8	22.9	23.6	20.4	19.3	19.7	18.1	17.3	17.6	9.3	8.3	8.7
7	22.9	21.0	21.9	20.0	18.9	19.3	17.9	17.3	17.5	9.2	8.1	8.7
8	21.1	20.1	20.6	19.5	18.3	18.9	18.5	17.5	18.0	9.6	8.7	9.0
9	21.0	19.8	20.4	19.8	18.7	19.1	18.8	18.1	18.5	12.5	9.6	11.0
10	22.1	20.5	21.2	19.9	18.9	19.4	18.1	15.8	17.0	13.7	12.5	13.2
11	22.9	21.6	22.2	20.3	19.6	19.9	15.8	14.1	15.2	13.6	12.8	13.0
12	23.9	22.4	23.1	19.7	18.2	19.1	14.1	12.7	13.6	13.6	12.6	13.1
13	24.3	22.9	23.6	18.2	17.0	17.6	13.2	12.1	12.6	13.6	11.6	12.5
14	24.8	23.6	24.1	17.2	15.8	16.7	12.4	12.0	12.2	11.6	11.0	11.2
15	24.7	23.2	23.9	16.4	15.2	15.7	13.2	12.2	12.8	11.1	10.5	10.9
16	23.9	22.6	23.1	15.7	14.5	15.1	13.8	13.1	13.5	---	---	---
17	23.2	22.1	22.6	15.2	13.9	14.4	14.4	13.2	13.7	---	---	---
18	23.0	22.4	22.7	15.0	13.8	14.2	14.0	12.9	13.4	---	---	---
19	22.7	21.6	22.2	15.1	14.0	14.4	14.9	13.4	14.1	9.8	9.0	9.4
20	22.3	21.0	21.6	15.8	14.4	15.0	14.9	13.3	14.0	10.2	9.3	9.7
21	22.9	21.3	22.0	16.4	15.1	15.6	13.4	12.4	12.9	11.1	9.7	10.3
22	23.1	22.1	22.6	16.4	15.5	15.9	12.6	11.4	12.1	11.4	10.2	10.8
23	23.9	22.6	23.2	16.3	15.4	16.0	13.2	12.3	12.7	12.2	10.8	11.4
24	24.0	22.9	23.5	15.9	14.7	15.2	13.4	12.4	13.0	12.9	11.7	12.2
25	24.7	23.5	23.9	15.6	14.3	14.8	13.5	12.1	12.9	13.8	12.6	13.1
26	23.9	21.2	22.4	16.3	14.8	15.5	12.1	10.4	11.1	14.3	13.6	13.9
27	21.2	19.4	20.4	15.7	14.8	15.3	10.4	9.5	9.8	15.1	13.9	14.5
28	19.4	18.2	18.8	15.6	14.3	14.8	9.7	9.4	9.6	16.4	15.1	15.6
29	18.7	17.4	18.0	15.2	13.8	14.4	9.4	9.1	9.2	17.5	16.4	16.9
30	18.1	16.9	17.5	15.4	14.2	14.7	9.6	9.1	9.3	17.2	15.8	16.6
31	18.6	17.1	17.8	---	---	---	9.1	8.9	9.0	15.8	14.7	15.2
Month	24.8	16.9	22.0	20.9	13.8	16.9	18.8	8.9	13.9	---	---	---

08065350 Trinity River near Crockett, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

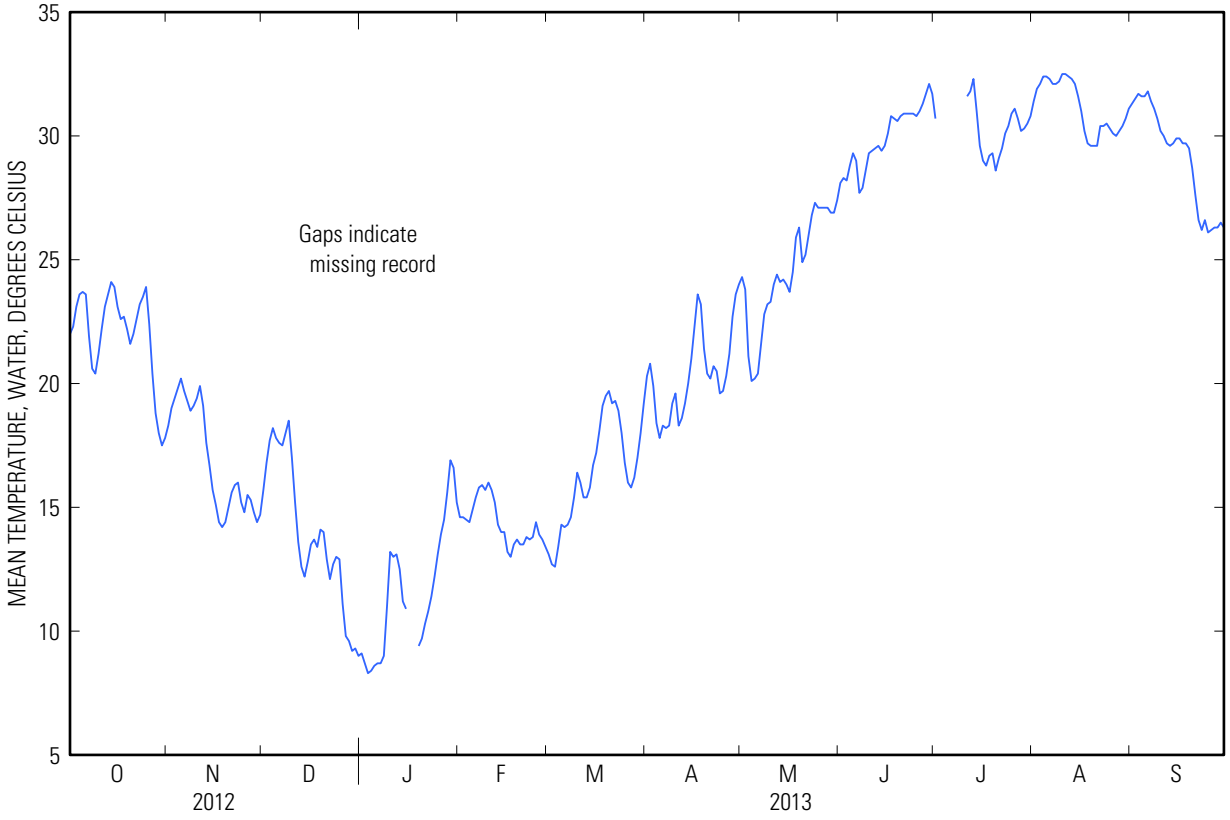
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	15.2	13.9	14.6	13.9	12.4	13.1	21.4	19.4	20.3	25.3	23.5	24.3
2	15.3	14.0	14.6	13.4	12.0	12.7	21.1	20.4	20.8	24.9	22.2	23.8
3	15.2	13.9	14.5	13.4	11.7	12.6	20.6	19.2	19.9	22.2	20.3	21.1
4	14.8	14.2	14.4	14.2	12.5	13.4	19.2	17.8	18.4	21.0	19.1	20.1
5	15.4	14.5	14.9	15.1	13.6	14.3	18.6	17.1	17.8	21.2	19.2	20.2
6	15.7	15.1	15.4	15.1	13.4	14.2	18.9	17.8	18.3	21.3	19.5	20.4
7	16.1	15.6	15.8	15.0	13.4	14.3	18.6	17.8	18.2	22.9	20.3	21.6
8	16.6	15.3	15.9	15.1	14.0	14.6	18.6	17.8	18.3	23.9	21.9	22.8
9	16.0	15.5	15.7	16.1	14.7	15.4	20.0	18.5	19.2	23.5	22.9	23.2
10	16.4	15.8	16.0	17.2	15.8	16.4	20.1	18.8	19.6	23.9	22.9	23.3
11	16.1	15.4	15.7	16.7	15.3	16.0	18.9	17.6	18.3	25.0	23.2	24.0
12	15.4	14.8	15.2	16.2	14.5	15.4	19.9	17.5	18.6	25.4	23.4	24.4
13	14.8	14.0	14.3	15.9	14.9	15.4	20.1	18.3	19.2	25.2	23.1	24.1
14	14.3	13.5	14.0	16.6	15.2	15.8	21.0	19.1	20.0	25.2	23.3	24.2
15	14.2	13.5	14.0	17.2	16.3	16.7	21.8	20.4	21.0	24.3	23.8	24.0
16	13.5	12.8	13.2	18.1	16.6	17.2	23.4	21.4	22.3	24.2	23.1	23.7
17	13.5	12.5	13.0	18.8	17.6	18.1	24.6	22.9	23.6	25.6	23.5	24.5
18	14.1	12.9	13.5	20.1	18.3	19.1	24.1	22.0	23.2	27.1	24.9	25.9
19	14.4	13.1	13.7	20.3	18.7	19.5	22.0	20.7	21.4	26.6	26.0	26.3
20	13.8	13.1	13.5	20.5	18.9	19.7	21.4	19.3	20.4	26.1	24.3	24.9
21	14.3	13.0	13.5	19.7	18.7	19.2	21.0	19.6	20.2	25.7	24.7	25.2
22	14.4	13.2	13.8	20.0	18.7	19.3	21.4	20.0	20.7	27.0	25.3	26.0
23	14.5	13.0	13.7	19.4	18.7	18.9	21.1	19.9	20.5	27.6	26.1	26.8
24	14.6	12.9	13.8	18.7	17.3	18.0	20.2	18.9	19.6	28.0	26.8	27.3
25	15.2	14.0	14.4	17.4	16.1	16.8	20.6	18.9	19.7	27.4	26.9	27.1
26	14.6	13.4	13.9	16.7	15.1	16.0	21.3	19.6	20.3	27.4	26.9	27.1
27	14.6	13.0	13.7	16.9	14.7	15.8	22.1	20.4	21.2	27.8	26.6	27.1
28	14.2	12.9	13.4	16.8	15.5	16.2	24.1	21.4	22.7	27.7	26.5	27.1
29	---	---	---	17.7	16.4	17.0	24.6	22.8	23.6	27.3	26.7	26.9
30	---	---	---	18.7	17.3	18.0	24.8	23.1	24.0	27.5	26.4	26.9
31	---	---	---	20.2	18.5	19.2	---	---	---	28.1	26.9	27.4
Month	16.6	12.5	14.4	20.5	11.7	16.4	24.8	17.1	20.4	28.1	19.1	24.6

08065350 Trinity River near Crockett, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	29.0	27.4	28.1	31.3	30.2	30.7	32.2	30.7	31.4	32.3	30.8	31.3
2	29.0	27.8	28.3	---	---	---	32.6	31.4	31.9	32.5	30.9	31.5
3	29.1	27.5	28.2	---	---	---	32.9	31.5	32.1	32.9	31.0	31.7
4	30.0	27.8	28.8	---	---	---	33.1	31.9	32.4	32.6	30.9	31.6
5	30.5	28.2	29.3	---	---	---	33.3	31.9	32.4	32.6	30.8	31.6
6	29.9	27.4	29.0	---	---	---	33.3	31.6	32.3	32.7	31.1	31.8
7	28.6	26.9	27.7	---	---	---	33.1	31.4	32.1	32.2	31.0	31.4
8	29.1	26.7	27.9	---	---	---	33.1	31.4	32.1	31.8	30.5	31.1
9	29.7	27.6	28.6	---	---	---	33.3	31.4	32.2	31.2	30.2	30.7
10	30.0	28.8	29.3	32.4	---	---	33.7	31.6	32.5	30.8	29.7	30.2
11	30.1	29.0	29.4	33.0	30.9	31.6	33.4	31.8	32.5	30.9	29.3	30.0
12	30.0	29.0	29.5	33.1	30.8	31.8	33.1	31.9	32.4	30.4	29.1	29.7
13	29.9	29.0	29.6	33.4	31.5	32.3	33.2	31.6	32.3	30.6	28.9	29.6
14	29.8	29.0	29.4	31.8	30.2	31.0	33.0	31.4	32.1	30.5	29.2	29.7
15	30.2	29.1	29.6	30.2	28.8	29.6	32.2	31.3	31.6	30.7	29.4	29.9
16	31.1	29.3	30.1	29.8	28.3	29.0	31.5	30.6	31.0	30.6	29.5	29.9
17	31.7	30.0	30.8	29.3	28.5	28.8	30.9	29.4	30.2	30.5	29.2	29.7
18	31.2	30.3	30.7	30.2	28.5	29.2	30.1	29.1	29.7	30.3	29.2	29.7
19	31.6	29.8	30.6	29.7	28.7	29.3	30.3	29.1	29.6	30.2	29.2	29.5
20	31.6	29.9	30.8	29.4	28.0	28.6	30.5	28.9	29.6	29.2	27.8	28.7
21	31.5	30.6	30.9	29.8	28.5	29.1	30.6	28.7	29.6	27.9	27.1	27.6
22	31.5	30.5	30.9	30.2	28.9	29.5	31.4	29.6	30.4	27.3	25.8	26.6
23	31.6	30.3	30.9	31.1	29.3	30.1	31.1	29.7	30.4	26.7	25.8	26.2
24	31.7	30.1	30.9	31.2	29.6	30.4	30.9	30.0	30.5	27.1	26.0	26.6
25	31.6	30.0	30.8	31.9	30.1	30.9	31.0	29.7	30.3	26.8	25.6	26.1
26	31.9	30.2	31.0	31.8	30.5	31.1	30.6	29.8	30.1	26.9	25.6	26.2
27	32.2	30.4	31.3	31.2	30.4	30.7	30.6	29.5	30.0	26.9	25.7	26.3
28	32.5	31.0	31.7	31.0	29.5	30.2	31.0	29.7	30.2	26.8	25.8	26.3
29	32.8	31.4	32.1	31.1	29.6	30.3	31.3	29.9	30.4	26.6	26.3	26.5
30	32.3	31.1	31.7	31.3	30.0	30.5	31.7	30.1	30.7	26.9	25.9	26.3
31	---	---	---	31.6	30.3	30.8	32.0	30.6	31.1	---	---	---
Month	32.8	26.7	29.9	---	---	---	33.7	28.7	31.2	32.9	25.6	29.1

08065350 Trinity River near Crockett, TX—Continued



08065350 Trinity River near Crockett, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	---	---	---	9.9	9.0	9.3	10.6	9.5	10	---	---	---
2	6.9	6.2	6.4	10.0	8.8	9.3	10.3	9.2	9.7	---	---	---
3	6.9	5.8	6.3	9.7	8.7	9.1	10.1	8.9	9.4	---	---	---
4	6.2	5.5	5.8	10.0	8.6	9.1	9.4	8.7	9.0	---	---	---
5	6.7	6.2	6.4	9.8	8.5	9.0	9.4	8.6	8.9	11.7	11.5	11.6
6	6.8	6.6	6.7	10.0	8.5	9.1	9.5	8.6	8.9	11.8	11.5	11.6
7	7.4	6.8	7.1	10.1	8.6	9.2	9.5	8.7	8.9	11.9	11.5	11.7
8	7.7	7.4	7.6	10.1	8.7	9.3	9.5	8.6	8.9	11.7	11.4	11.6
9	8.0	7.7	7.8	10.2	8.6	9.2	9.2	8.5	8.8	11.4	10.0	10.8
10	8.0	7.7	7.9	9.9	8.5	9.1	9.5	8.5	8.9	10.0	9.1	9.6
11	7.8	7.7	7.8	9.3	8.4	8.7	9.9	8.8	9.3	9.8	9.1	9.5
12	7.9	7.6	7.7	9.8	8.3	8.9	10.4	9.3	9.8	9.7	7.3	8.5
13	8.0	7.6	7.8	10.0	8.6	9.1	10.8	9.8	10.2	---	---	---
14	8.0	7.5	7.7	10.2	8.8	9.4	10.8	10.0	10.4	---	---	---
15	8.2	7.6	7.8	10.6	9.2	9.7	10.9	10.2	10.5	9.1	8.5	8.8
16	8.3	7.7	7.9	10.9	9.5	10	10.3	9.8	10.1	12.7	9.1	10.0
17	8.2	7.6	7.8	11.0	9.7	10.2	10.7	9.8	10.1	13.6	11.2	12.6
18	7.8	7.3	7.4	11.0	9.8	10.3	10.8	9.9	10.3	13.6	10.0	11.9
19	7.4	7.3	7.4	11.2	9.9	10.4	10.7	10.0	10.3	10.9	10.9	10.9
20	7.5	7.4	7.4	11.0	9.9	10.3	10.8	9.9	10.2	10.9	10.8	10.9
21	7.5	7.3	7.4	11.0	9.8	10.2	10.8	9.9	10.3	10.9	10.7	10.8
22	7.6	7.3	7.5	10.8	9.7	10.1	11.1	10.2	10.5	10.8	10.6	10.7
23	7.7	7.4	7.5	10.2	9.5	9.7	11.0	10.2	10.5	10.7	10.5	10.7
24	7.6	7.2	7.4	10.6	9.5	9.9	11.0	10.2	10.5	10.6	10.4	10.5
25	7.6	7.2	7.3	10.7	9.6	10	10.4	10.0	10.2	10.4	10.2	10.3
26	7.8	7.2	7.5	10.6	9.5	9.9	10.2	9.8	10	10.3	10.0	10.1
27	8.3	7.6	8.0	10.4	9.5	9.8	10.7	10.1	10.5	10.3	9.9	10.0
28	8.8	8.1	8.4	10.6	9.5	9.9	10.8	10.4	10.6	10.2	8.2	9.8
29	9.2	8.4	8.7	10.8	9.6	10.1	---	---	---	9.6	9.2	9.4
30	9.7	8.8	9.2	10.8	9.8	10.1	---	---	---	9.7	9.1	9.4
31	9.8	9.0	9.3	---	---	---	---	---	---	10.1	9.2	9.6
Month	---	---	---	11.2	8.3	9.6	---	---	---	---	---	---

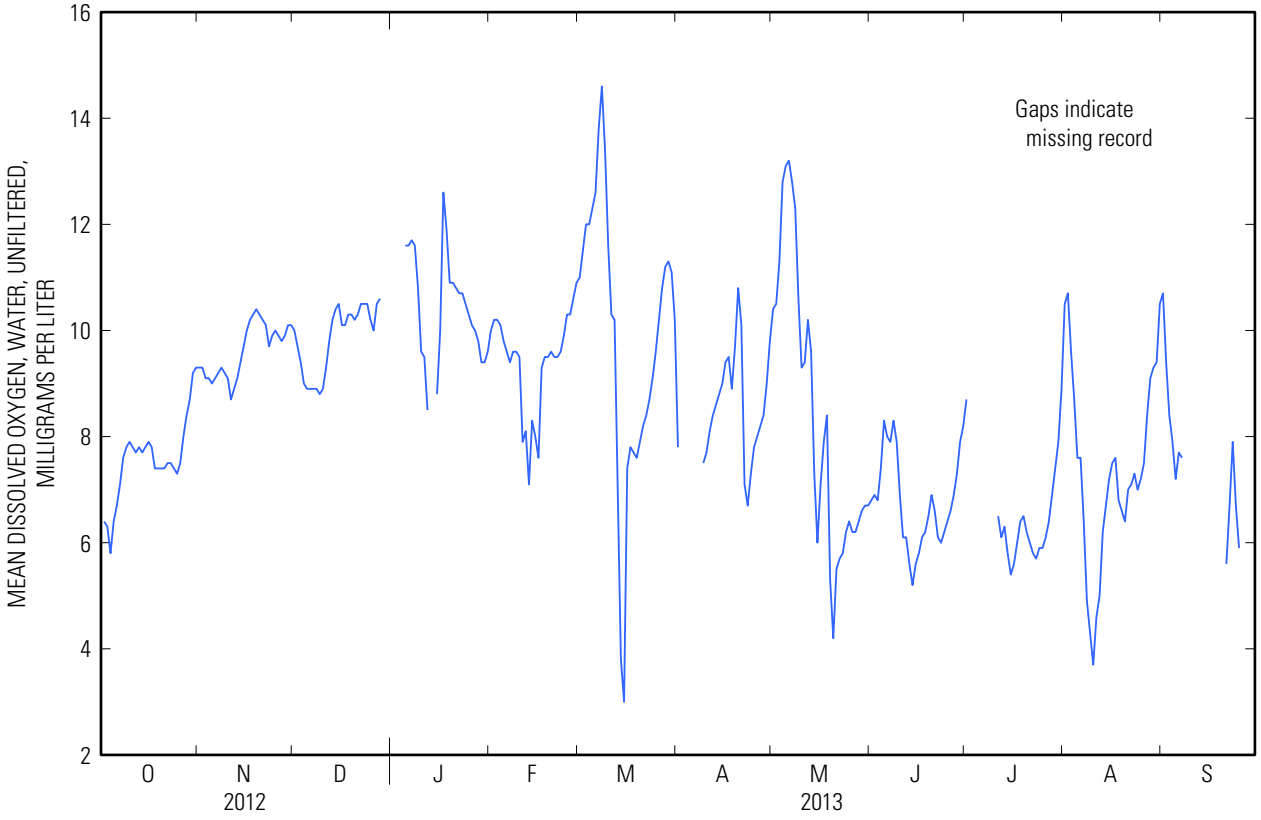
08065350 Trinity River near Crockett, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	10.5	9.6	10	11.7	10.6	11.0	9.9	6.5	7.8	11.7	9.4	10.4
2	10.6	9.7	10.2	12.3	10.8	11.5	---	---	---	11.4	9.7	10.5
3	10.5	9.9	10.2	12.9	11.2	12.0	---	---	---	13.3	9.4	11.3
4	10.3	9.9	10.1	12.8	11.3	12.0	---	---	---	14.7	11.1	12.8
5	10.2	9.6	9.8	13.8	11.2	12.3	---	---	---	14.4	11.8	13.1
6	9.9	9.5	9.6	13.8	11.6	12.6	---	---	---	14.5	11.9	13.2
7	9.7	9.2	9.4	15.8	12.2	13.8	---	---	---	14.2	11.3	12.8
8	10.1	9.2	9.6	16.1	13.5	14.6	---	---	---	13.8	10.8	12.3
9	9.9	9.3	9.6	14.6	11.9	13.4	7.7	7.3	7.5	12.1	8.8	10.6
10	9.9	9.1	9.5	13.1	9.9	11.6	7.8	7.6	7.7	10.9	7.8	9.3
11	9.1	7.4	7.9	11.9	9.4	10.3	8.2	7.8	8.1	12.3	7.1	9.4
12	8.4	8.0	8.1	10.9	9.5	10.2	8.5	8.2	8.4	12.0	8.6	10.2
13	8.4	6.1	7.1	10.5	3.0	7.0	8.9	8.4	8.6	11.3	8.2	9.6
14	8.5	7.7	8.3	4.6	2.0	3.8	9.3	8.5	8.8	9.0	6.3	7.3
15	8.2	7.7	8.0	6.0	1.8	3.0	9.5	8.6	9.0	6.6	5.5	6.0
16	8.1	7.1	7.6	7.8	6.0	7.4	10.5	8.6	9.4	8.6	5.8	7.1
17	9.6	8.1	9.3	7.9	7.6	7.8	10.5	8.6	9.5	9.7	6.6	7.9
18	9.6	7.8	9.5	7.8	7.4	7.7	9.4	8.3	8.9	10.2	6.9	8.4
19	9.6	9.4	9.5	8.1	7.0	7.6	11.3	8.4	9.7	7.9	3.6	5.3
20	9.6	9.5	9.6	8.6	7.6	7.9	12.4	9.4	10.8	5.2	3.3	4.2
21	9.6	9.2	9.5	8.9	7.9	8.2	11.3	8.4	10.1	6.0	4.8	5.5
22	9.8	9.4	9.5	9.2	7.9	8.4	8.4	6.5	7.1	6.0	5.5	5.7
23	9.9	9.3	9.6	9.0	8.4	8.7	7.0	6.4	6.7	6.2	5.5	5.8
24	10.5	9.6	9.9	10.3	8.4	9.1	7.6	6.9	7.3	6.7	5.7	6.2
25	10.8	10.0	10.3	11.0	9.0	9.6	8.0	7.6	7.8	6.6	6.2	6.4
26	10.8	10.0	10.3	11.9	9.4	10.2	8.3	7.8	8.0	6.4	6.0	6.2
27	11.3	10.2	10.6	12.5	9.9	10.8	8.5	8.0	8.2	6.4	6.0	6.2
28	11.5	10.4	10.9	12.7	10.2	11.2	9.0	8.0	8.4	6.6	6.1	6.4
29	---	---	---	12.9	9.5	11.3	9.9	8.3	9.0	6.7	6.4	6.6
30	---	---	---	13.3	9.0	11.1	10.8	9.0	9.8	6.9	6.5	6.7
31	---	---	---	12.2	8.3	10.2	---	---	---	6.9	6.4	6.7
Month	11.5	6.1	9.4	16.1	1.8	9.9	---	---	---	14.7	3.3	8.4

08065350 Trinity River near Crockett, TX—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	7.3	6.5	6.8	9.8	7.6	8.7	12.2	9.1	10.5	13.1	7.8	10.7
2	7.2	6.6	6.9	---	---	---	12.3	9.4	10.7	11.9	7.1	9.4
3	7.1	6.3	6.8	---	---	---	10.7	8.6	9.6	11.0	6.3	8.4
4	8.3	6.6	7.4	---	---	---	10.0	7.8	8.7	10.0	6.3	7.9
5	9.8	7.1	8.3	---	---	---	8.8	6.6	7.6	9.3	6.0	7.2
6	9.2	7.0	8.0	---	---	---	9.2	6.7	7.6	10.4	6.0	7.7
7	9.2	6.7	7.9	---	---	---	7.8	5.6	6.4	9.3	5.1	7.6
8	9.4	7.3	8.3	---	---	---	6.0	3.7	4.9	---	---	---
9	9.3	6.8	7.9	---	---	---	6.3	2.7	4.3	---	---	---
10	7.8	6.2	6.9	---	---	---	4.4	2.9	3.7	---	---	---
11	6.4	6.0	6.1	7.8	3.4	6.5	6.3	3.0	4.6	---	---	---
12	6.3	6.0	6.1	7.2	5.4	6.1	6.4	3.8	5.0	---	---	---
13	6.1	5.2	5.6	7.7	5.6	6.3	8.6	4.8	6.2	---	---	---
14	5.5	4.9	5.2	6.4	5.3	5.8	8.2	6.1	6.7	---	---	---
15	5.8	5.3	5.6	5.9	5.1	5.4	8.4	6.1	7.2	---	---	---
16	6.0	5.6	5.8	6.7	4.9	5.6	8.4	6.9	7.5	---	---	---
17	6.4	5.8	6.1	6.6	5.5	6.0	8.7	5.4	7.6	---	---	---
18	6.6	5.9	6.2	7.3	5.5	6.4	7.5	6.1	6.8	---	---	---
19	6.9	6.1	6.5	6.9	6.2	6.5	6.8	5.7	6.6	---	---	---
20	7.6	6.3	6.9	6.3	6.1	6.2	6.9	5.3	6.4	---	---	---
21	7.1	6.4	6.6	6.2	5.9	6.0	7.5	4.5	7.0	8.5	1.6	5.6
22	6.5	5.8	6.1	6.0	5.7	5.8	7.8	6.2	7.1	8.2	4.8	6.7
23	6.2	5.8	6.0	6.0	5.6	5.7	7.9	6.5	7.3	8.2	6.2	7.9
24	6.6	5.9	6.2	6.1	5.7	5.9	8.1	5.9	7.0	7.6	6.0	6.7
25	6.9	6.1	6.4	6.2	5.7	5.9	8.2	6.5	7.2	6.8	4.6	5.9
26	7.3	6.2	6.6	6.6	5.7	6.1	8.6	6.7	7.5	---	---	---
27	7.7	6.3	6.9	7.0	5.8	6.4	9.6	7.4	8.4	---	---	---
28	8.4	6.4	7.3	7.7	6.3	6.9	10.4	7.8	9.1	---	---	---
29	9.1	6.2	7.9	8.5	6.5	7.4	10.8	7.5	9.3	---	---	---
30	9.5	6.7	8.2	9.2	7.1	7.9	10.9	8.0	9.4	---	---	---
31	---	---	---	10.5	7.6	8.9	13.2	7.9	10.5	---	---	---
Month	9.8	4.9	6.8	---	---	---	13.2	2.7	7.4	---	---	---

08065350 Trinity River near Crockett, TX—Continued