08086212 Hubbard Creek below Albany, TX

Brazos River Basin

LOCATION.--Lat 32°43′58″, long 99°08′25″ referenced to North American Datum of 1927, Shackelford County, Hydrologic Unit 12060105, on left bank 0.5 mi downstream from Salt Prong Hubbard Creek, 2.8 mi upstream from Newcomb Creek, 4.5 mi upstream from U.S. Highway 180, 9.1 mi east of Albany, 22.6 mi upstream from Hubbard Creek Reservoir, and 35.2 mi upstream from mouth.

DRAINAGE AREA.--613 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Oct. 1966 to current year.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,184.99 ft above NGVD of 1929. Prior to June 12, 1968, water-stage recorder at site 2.1 mi downstream at datum 7.63 ft lower. Satellite telemeter at station.

REMARKS.--No estimated daily discharges. Records good. No known regulation or diversions. No flow at times.

08086212 Hubbard Creek below Albany, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.2	98	90	15	15	99	36	2.3	15	0.35	0.25	4.1
2	1.3	156	80	15	15	70	28	2.3	12	0.66	0.25	2.7
3	1.3	71	71	39	15	53	23	2.3	15	0.81	0.24	1.5
4	9.7	34	64	45	14	44	21	2.6	19	0.77	0.23	0.96
5	350	23	61	34	14	38	19	4.7	1,870	115	0.23	0.68
6	84	15	62	29	18	35	16	5.6	563	23	0.25	0.53
7	30	9.8	71	27	19	35	15	5.4	103	36	0.22	0.43
8	15	6.5	73	24	19	36	14	5.1	55	20	0.22	0.36
9	7.5	4.1	66	22	18	36	13	7.6	34	8.3	0.68	0.31
10	4.5	3.3	54	22	17	31	12	6.0	24	3.9	217	0.28
11	3.1	2.3	45	21	16	26	11	4.0	18	1.9	56	0.23
12	2.1	1.8	40	20	16	23	9.7	3.3	14	1.1	20	0.20
13	1.4	1.8	37	18	16	19	8.9	3.0	12	0.71	12	0.21
14	0.98	7.2	31	17	15	17	8.0	4.3	9.6	0.65	47	0.24
15	0.69	3,420	28	16	14	15	7.5	3.5	7.7	0.64	530	0.20
16	0.47	4,370	26	15	13	13	7.2	2.8	5.6	0.59	475	0.15
17	0.40	9,970	24	14	12	13	6.8	2.8	4.2	0.55	220	0.13
18	0.39	2,440	23	13	12	12	6.8	2.7	3.4	0.44	90	0.12
19	0.45	506	22	13	12	11	6.2	2.4	2.8	0.41	44	0.11
20	0.60	309	22	13	12	11	6.1	2.2	2.2	0.38	25	0.10
21	0.68	235	20	13	11	11	5.6	1.8	1.5	0.35	16	0.10
22	1.0	233	21	13	11	9.5	4.7	1.6	1.2	0.28	11	0.10
23	1.2	402	20	12	11	8.7	4.2	1.2	1.0	0.28	8.8	0.09
24	1.0	628	18	11	12	8.0	3.7	0.81	0.78	0.25	7.0	0.07
25	0.98	353	18	11	13	7.5	3.6	0.64	0.58	0.23	5.2	0.07
26	19	238	17	11	19	13	3.4	3.7	0.46	0.23	4.0	0.06
27	18	179	17	11	49	43	3.2	145	0.39	0.32	2.1	0.05
28	4.7	140	16	13	102	114	2.8	40	0.36	0.27	1.7	0.05
29	2.1	123	16	13	---	103	2.4	23	0.39	0.25	3.3	0.02
30	1.1	105	16	13	---	70	2.3	14	0.36	0.26	5.4	0.01
31	1.8	---	16	14	---	49	---	11	---	0.26	5.7	---
Total	566.64	24,084.8	1,185	567	530	1,073.7	311.1	317.65	2,796.52	219.14	1,808.77	14.16
Mean	18.3	803	38.2	18.3	18.9	34.6	10.4	10.2	93.2	7.07	58.3	0.47
Max	350	9,970	90	45	102	114	36	145	1,870	115	530	4.1
Min	0.39	1.8	16	11	11	7.5	2.3	0.64	0.36	0.23	0.22	0.01
Ac-ft	1,120	47,770	2,350	1,120	1,050	2,130	617	630	5,550	435	3,590	28
Cfsm	0.03	1.31	0.06	0.03	0.03	0.06	0.02	0.02	0.15	0.01	0.10	0.00
In.	0.03	1.46	0.07	0.03	0.03	0.07	0.02	0.02	0.17	0.01	0.11	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2005, BY WATER YEAR (WY)

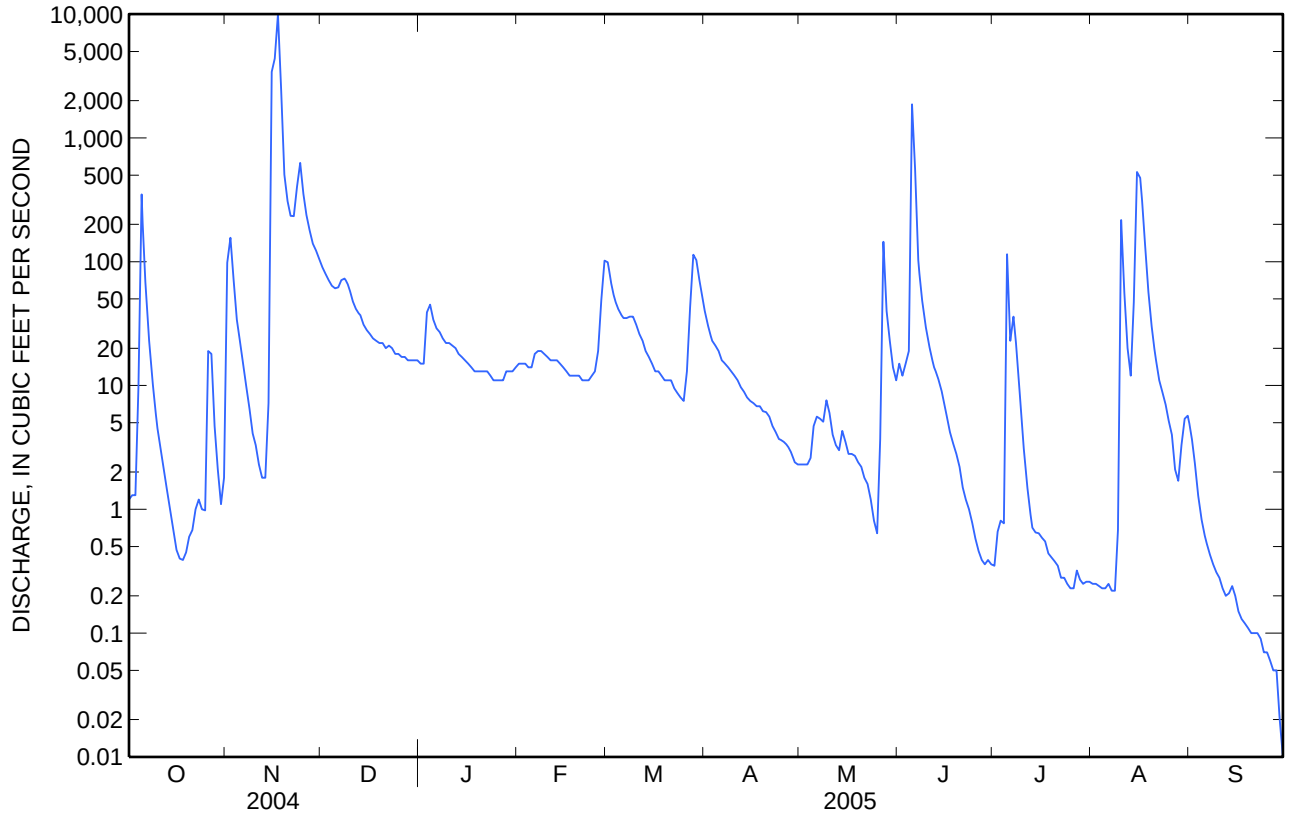
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	79.6	34.8	41.8	50.5	70.4	46.1	54.2	114	61.6	16.1	99.9	63.9
Max	1,483	803	1,161	1,544	1,532	284	502	906	628	400	3,365	1,170
(WY)	(1982)	(2005)	(1992)	(1968)	(1992)	(1998)	(1968)	(1969)	(1997)	(2002)	(1978)	(1974)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1969)	(1971)	(1971)	(1969)	(1971)	(1971)	(1971)	(1984)	(1984)	(1974)	(1968)	(1968)

08086212 Hubbard Creek below Albany, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1967 - 2005	
Annual total	32,791.67		33,474.48			
Annual mean	89.6		91.7		61.1	
Highest annual mean					303	1992
Lowest annual mean					0.49	1984
Highest daily mean	9,970	Nov 17	9,970	Nov 17	94,700	Aug 4, 1978
Lowest daily mean	0.00	Jan 1	0.01	Sep 30	0.00	Apr 5, 1967
Annual seven-day minimum	0.00	Jan 1	0.05	Sep 24	0.00	Apr 24, 1967
Maximum peak flow			[b]12,000	Nov 17	[i]330,000	Aug 4, 1978
Maximum peak stage			23.55	Nov 17	[a]41.41	Aug 4, 1978
Annual runoff (ac-ft)	65,040		66,400		44,240	
Annual runoff (cfsm)	0.146		0.150		0.100	
Annual runoff (inches)	1.99		2.03		1.35	
10 percent exceeds	71		76		41	
50 percent exceeds	0.99		11		1.0	
90 percent exceeds	0.00		0.28		0.00	

[a] From floodmark.
[i] From indirect measurement at site 4.5 mi downstream.
[b] From indirect measurement of peak flow.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1966 to current year.
PESTICIDE DATA: Nov. 1972.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct. 1966 to Nov. 1970 (local observer), Dec. 1970 to current year.
WATER TEMPERATURE: Oct. 1966 to July 1980 (local observer), Mar. 1982 to current year.

INSTRUMENTATION.--Specific conductance monitor since Dec. 1970. Water-temperature monitor since Mar. 1982.

REMARKS.--No estimated specific conductance or water temperature. Records good. For the period of record Mar. 17 to May 11, 2005 specific conductance records are considered fair. Standard reference materials for measurement of conductivity are defined by ASTM and Standard Methods as solutions of potassium chloride. Conductivity standards provided by the vendor for this time period, were sodium chloride (NaCl)-based rather than potassium chloride (KCl)-based. The temperature coefficients for NaCl and KCl solutions differ slightly, which may result in a biased conductance measurement. Interruptions in the record were due to malfunction of the instrument, siltation and percentages. 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, 21,200 microsiemens/cm, Feb. 15, 21, 1978; minimum recorded, 144 microsiemens/cm, Sept. 8, 2001; minimum estimated, 129 microsiemens/cm, Aug. 4, 1978.
WATER TEMPERATURE: Maximum, 37.5°C, July 20, 1986; minimum, 0.0°C, on several days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,610 microsiemens/cm, May 28; minimum, 174 microsiemens/cm, June 5.
WATER TEMPERATURE: Maximum, 35.5°C, Aug. 27; minimum, 2.8°C, Dec. 25.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 1 of 2

[Remark codes: E, estimated. Value qualifier codes: d, diluted sample: method hi range exceeded; e, see field comment. Null value qualifier codes: e, required equipment not functional/avail.]

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
Oct													
13...	1040	1.4	729	5.7	64	7.9	317	17.7	19.1	110	36.2	5.79	5.61
Nov													
18...	1510	990	--e	--e	--	--e	350	--	15.4	130	40.3	6.51	6.07
Jan													
26...	1300	11	734	9.8	--	8.4	E2,150e	--	9.1	540	137	47.7	4.20
Mar													
17...	0840	13	734	10.3	--	8.2	E1,850e	--	11.1	480	117	45.8	4.14
May													
11...	0950	4.1	730	6.4	78	8.0	1,930	--	23.0	500	124	47.3	4.61

08086212 Hubbard Creek below Albany, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 2 of 2

[Remark codes: E, estimated. Value qualifier codes: d, diluted sample: method hi range exceeded; e, see field comment. Null value qualifier codes: e, required equipment not functional/avail.]

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
Oct								
13...	.8	18.7	25	26.9	.2	7.5	17.3	176
Nov								
18...	.8	20.3	25	35.9	.2	12.8	14.9	200
Jan								
26...	4	226	48	465d	.4	6.7	169d	1,180
Mar								
17...	4	188	46	368d	.3	5.2	174d	1,020
May								
11...	4	226	49	451d	.4	5.6	177d	1,150

08086212 Hubbard Creek below Albany, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	716	664	692	500	345	422	1,050	1,010	1,030	1,750	1,730	1,750
2	699	659	674	960	351	698	1,080	1,050	1,070	1,790	1,720	1,760
3	708	677	690	847	793	800	1,120	1,080	1,100	1,730	1,670	1,700
4	729	615	697	794	771	781	---	---	---	1,780	1,720	1,740
5	715	544	621	774	770	772	---	---	---	1,820	1,780	1,800
6	---	---	---	783	774	778	---	---	---	1,820	1,690	1,750
7	---	---	---	789	772	783	---	---	---	1,810	1,690	1,740
8	---	---	---	799	781	790	---	---	---	1,840	1,740	1,800
9	---	---	---	809	798	804	1,310	---	---	1,810	1,740	1,780
10	---	---	---	815	808	811	1,360	1,260	1,300	1,790	1,690	1,730
11	---	---	---	827	807	817	1,380	1,230	1,320	1,840	1,750	1,800
12	---	---	---	831	821	826	1,400	1,350	1,370	1,840	1,800	1,820
13	371	---	---	838	825	832	1,430	1,340	1,390	1,890	1,840	1,860
14	400	359	380	912	792	836	1,480	1,390	1,450	1,900	1,830	1,880
15	405	379	392	792	256	509	1,510	1,480	1,500	1,970	1,830	1,900
16	452	375	402	325	227	268	1,540	1,500	1,520	1,980	1,940	1,960
17	466	394	430	270	225	248	1,520	1,470	1,500	1,960	1,860	1,890
18	503	405	451	407	250	343	1,560	1,500	1,530	2,000	1,880	1,930
19	527	417	471	494	407	452	1,580	1,540	1,560	2,020	2,000	2,010
20	571	407	463	572	494	533	1,620	1,550	1,590	2,070	2,010	2,050
21	575	413	504	644	571	608	1,630	1,620	1,620	2,100	2,070	2,090
22	665	459	557	748	644	682	1,660	1,600	1,630	2,340	2,090	2,230
23	586	476	514	825	721	764	1,670	1,640	1,660	2,340	2,220	2,260
24	596	452	479	840	692	753	1,670	1,640	1,660	2,220	2,200	2,210
25	546	465	504	755	692	721	1,680	1,600	1,630	2,250	2,200	2,220
26	746	331	551	807	755	781	1,690	1,630	1,660	2,390	2,250	2,300
27	341	327	333	865	807	837	1,750	1,680	1,720	2,420	2,290	2,350
28	390	341	365	914	865	890	1,750	1,710	1,740	2,380	2,200	2,260
29	417	390	406	966	914	941	1,770	1,730	1,750	2,370	2,210	2,300
30	452	399	426	1,010	966	986	1,760	1,720	1,740	2,360	2,260	2,290
31	587	433	476	---	---	---	1,770	1,730	1,750	2,390	2,340	2,370
Month	---	---	---	1,010	225	702	---	---	---	2,420	1,670	1,980

08086212 Hubbard Creek below Albany, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

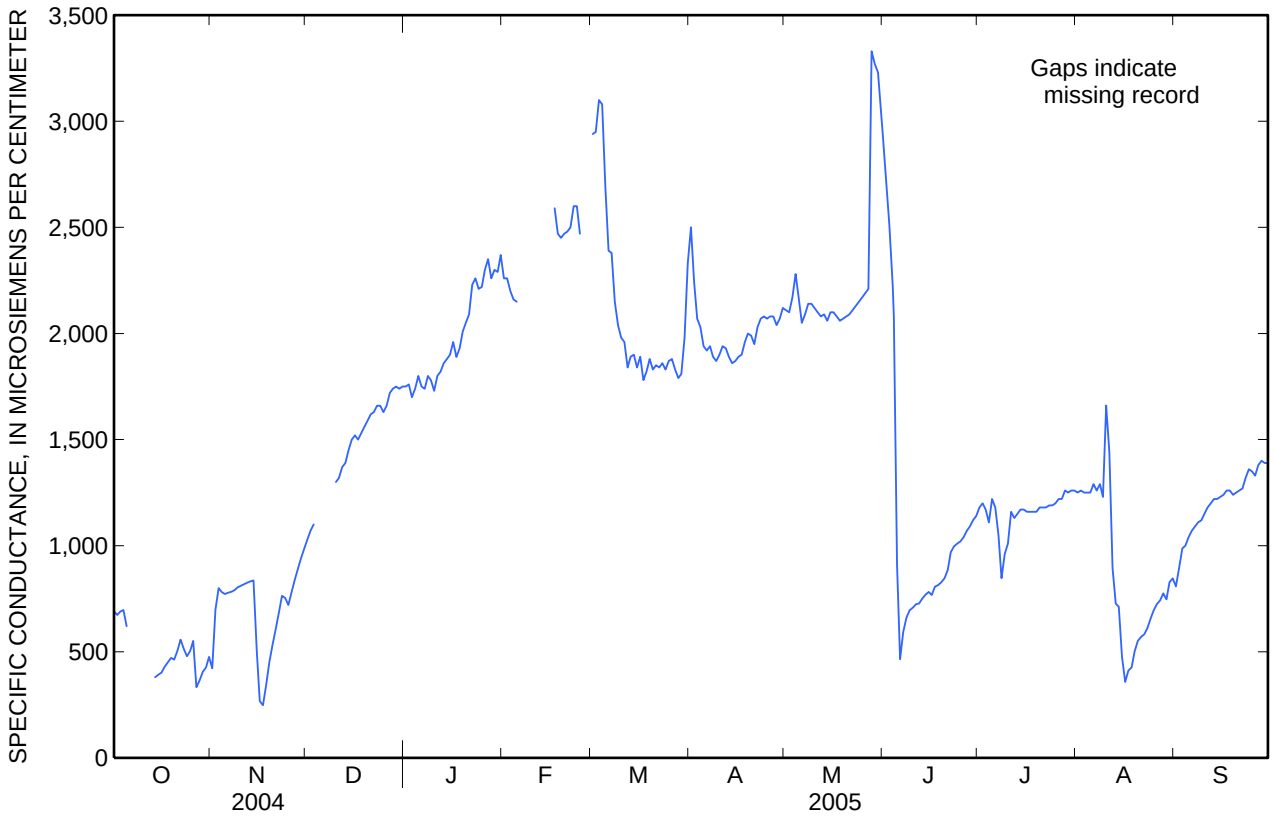
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	2,370	2,220	2,260	3,010	2,840	2,940	2,590	2,420	2,500	2,140	2,080	2,110
2	2,280	2,240	2,260	3,060	2,800	2,950	2,420	2,120	2,240	2,130	2,080	2,100
3	2,260	2,130	2,200	3,240	2,840	3,100	2,120	2,050	2,070	2,200	2,130	2,170
4	2,260	2,120	2,160	3,390	2,870	3,080	2,060	1,980	2,030	2,380	2,160	2,280
5	2,210	2,120	2,150	2,870	2,480	2,690	1,980	1,890	1,940	2,260	2,070	2,170
6	---	---	---	2,480	2,330	2,390	1,940	1,900	1,920	2,070	2,030	2,050
7	---	---	---	2,740	2,250	2,380	1,960	1,900	1,940	2,120	2,050	2,090
8	---	---	---	2,320	2,040	2,150	1,920	1,860	1,890	2,160	2,120	2,140
9	---	---	---	2,110	1,990	2,040	1,890	1,850	1,870	2,170	2,100	2,140
10	---	---	---	2,040	1,880	1,980	1,920	1,880	1,900	2,140	2,100	2,120
11	---	---	---	2,000	1,860	1,960	1,980	1,920	1,940	2,140	2,060	2,100
12	---	---	---	1,860	1,820	1,840	1,940	1,900	1,930	2,090	2,060	2,080
13	---	---	---	1,960	1,830	1,890	1,920	1,880	1,890	2,100	2,060	2,090
14	---	---	---	1,940	1,810	1,900	1,890	1,840	1,860	2,090	2,040	2,060
15	---	---	---	1,870	1,810	1,840	1,890	1,850	1,870	2,110	2,080	2,100
16	2,620	---	---	1,920	1,850	1,890	1,910	1,860	1,890	2,120	2,090	2,100
17	2,620	2,560	2,590	1,850	1,740	1,780	1,930	1,890	1,900	2,110	2,050	2,080
18	2,590	2,420	2,470	1,860	1,790	1,820	1,980	1,930	1,960	2,080	2,040	2,060
19	2,470	2,430	2,450	1,900	1,850	1,880	2,020	1,980	2,000	2,090	2,040	2,070
20	2,510	2,450	2,470	1,860	1,800	1,830	2,020	1,970	1,990	2,110	2,060	2,080
21	2,510	2,440	2,480	1,890	1,820	1,850	2,000	1,920	1,950	2,120	2,080	2,090
22	2,520	2,470	2,500	1,860	1,810	1,840	2,090	1,980	2,030	2,120	2,090	2,110
23	2,690	2,520	2,600	1,880	1,850	1,860	2,090	2,040	2,070	2,140	2,100	2,130
24	2,700	2,480	2,600	1,850	1,800	1,830	2,090	2,070	2,080	2,180	2,110	2,150
25	2,590	2,400	2,470	1,890	1,830	1,870	2,090	2,050	2,070	2,220	2,130	2,170
26	---	---	---	1,930	1,840	1,880	2,100	2,050	2,080	2,220	2,060	2,190
27	---	---	---	1,940	1,770	1,830	2,110	2,040	2,080	2,890	1,830	2,210
28	---	---	---	1,840	1,720	1,790	2,070	2,020	2,040	3,610	2,890	3,330
29	---	---	---	1,930	1,700	1,810	2,110	2,040	2,070	3,420	3,200	3,270
30	---	---	---	2,130	1,920	1,980	2,140	2,110	2,120	3,330	3,090	3,230
31	---	---	---	2,570	2,130	2,330	---	---	---	3,100	2,780	3,030
Month	---	---	---	3,390	1,700	2,100	2,590	1,840	2,000	3,610	1,830	2,260

08086212 Hubbard Creek below Albany, TX—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	2,940	2,700	2,850	1,240	1,110	1,180	1,290	1,210	1,250	849	790	808
2	2,700	2,500	2,640	1,240	1,120	1,200	1,300	1,220	1,260	991	843	895
3	2,520	2,280	2,410	1,230	1,110	1,170	1,290	1,200	1,250	1,020	959	987
4	2,280	1,760	2,080	1,130	855	1,110	1,280	1,230	1,250	1,040	973	1,000
5	1,930	174	911	1,590	844	1,220	1,370	1,160	1,250	1,080	1,000	1,040
6	568	208	465	1,210	1,160	1,180	1,400	1,260	1,290	1,110	1,030	1,070
7	644	567	595	1,240	809	1,050	1,300	1,200	1,260	1,130	1,040	1,090
8	694	636	661	918	799	847	1,360	1,260	1,290	1,140	1,080	1,110
9	705	682	696	1,090	805	961	1,360	1,050	1,230	1,170	1,070	1,120
10	719	700	708	1,160	922	1,010	2,430	827	1,660	1,220	1,070	1,150
11	732	712	724	1,190	1,110	1,160	1,970	1,010	1,440	1,250	1,120	1,180
12	743	715	728	1,150	1,110	1,130	1,010	767	894	1,270	1,140	1,200
13	766	725	751	1,200	1,130	1,150	775	687	727	1,320	1,140	1,220
14	796	752	769	1,290	1,080	1,170	768	639	712	1,320	1,140	1,220
15	807	753	782	1,270	1,140	1,170	639	274	476	1,310	1,190	1,230
16	796	758	768	1,200	1,130	1,160	482	289	358	1,340	1,180	1,240
17	817	795	807	1,200	1,100	1,160	452	387	412	1,360	1,180	1,260
18	827	807	814	1,180	1,120	1,160	486	379	426	1,380	1,200	1,260
19	839	818	828	1,190	1,130	1,160	539	466	502	1,300	1,190	1,240
20	861	832	847	1,200	1,150	1,180	568	539	551	1,280	1,220	1,250
21	915	858	886	1,220	1,150	1,180	578	562	570	1,310	1,220	1,260
22	1,000	909	970	1,220	1,140	1,180	598	571	582	1,300	1,230	1,270
23	1,020	955	997	1,240	1,150	1,190	643	598	612	1,510	1,240	1,320
24	1,050	975	1,010	1,240	1,150	1,190	680	643	657	1,470	1,280	1,360
25	1,070	987	1,020	1,250	1,170	1,200	720	680	695	1,490	1,280	1,350
26	1,110	999	1,040	1,280	1,190	1,220	741	713	725	1,430	1,300	1,330
27	1,130	1,020	1,070	1,290	1,190	1,220	753	731	742	1,500	1,300	1,380
28	1,160	1,030	1,090	1,310	1,240	1,260	851	748	775	1,540	1,320	1,400
29	1,200	1,050	1,120	1,320	1,210	1,250	759	735	747	1,510	1,340	1,390
30	1,220	1,070	1,140	1,310	1,220	1,260	863	757	828	1,520	1,360	1,390
31	---	---	---	1,310	1,250	1,260	864	804	846	---	---	---
Month	2,940	174	1,070	1,590	799	1,160	2,430	274	880	1,540	790	1,200

08086212 Hubbard Creek below Albany, TX—Continued



08086212 Hubbard Creek below Albany, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	24.9	21.6	23.1	21.2	18.5	19.2	10.5	9.3	9.9	12.4	10.4	11.4
2	24.4	21.1	22.6	18.7	16.5	17.6	9.6	8.8	9.3	13.3	11.4	12.1
3	22.0	20.3	20.7	16.5	14.5	15.6	9.2	8.5	8.9	13.3	11.9	12.7
4	20.6	19.7	20.2	15.9	13.6	14.4	9.2	8.2	8.7	12.6	11.9	12.2
5	20.6	18.8	19.8	16.7	13.1	14.7	10.4	9.0	9.8	12.1	9.8	11.2
6	21.2	19.3	20.0	16.8	13.2	14.9	11.4	10.2	10.7	10.1	8.5	9.2
7	21.3	19.8	20.5	16.9	13.5	14.9	11.9	10.5	11.1	10.3	8.0	8.8
8	23.2	19.8	21.1	17.6	13.1	15.2	11.4	10.6	11.0	9.8	7.5	8.6
9	23.6	19.6	21.2	16.8	15.0	15.8	11.1	10.3	10.7	10.7	8.1	9.3
10	22.8	20.3	21.0	17.7	15.1	16.2	11.2	10.3	10.7	11.5	9.5	10.4
11	21.4	19.5	20.3	15.8	13.3	14.7	11.6	9.6	10.5	12.4	10.6	11.4
12	22.3	18.5	20.2	13.8	12.5	13.0	11.5	9.9	10.6	12.5	11.2	12.1
13	24.3	18.2	20.8	12.6	12.0	12.3	10.6	9.3	10.0	11.8	9.8	10.7
14	20.9	16.7	18.6	12.2	11.7	12.0	9.8	8.2	9.0	10.5	8.8	9.6
15	19.9	15.9	18.0	12.2	11.0	11.4	8.9	7.5	8.1	9.3	7.5	8.5
16	23.7	16.0	19.1	15.0	11.4	12.6	8.5	6.8	7.4	8.2	6.4	7.1
17	19.8	15.6	17.9	15.1	14.8	14.9	8.7	6.5	7.3	7.7	5.4	6.6
18	20.4	17.4	19.1	15.4	14.6	15.0	8.1	6.3	7.1	7.0	6.2	6.5
19	21.7	17.9	19.6	15.6	15.3	15.4	8.7	6.4	7.4	9.0	5.8	7.2
20	22.8	17.2	19.3	15.6	15.1	15.4	9.1	6.8	7.7	10.0	6.4	8.0
21	22.8	18.9	20.5	15.6	15.3	15.5	9.2	7.3	8.0	9.5	7.4	8.5
22	22.1	20.2	21.3	15.3	14.9	15.1	7.8	5.7	6.7	8.8	6.9	8.1
23	21.4	18.9	20.0	15.5	14.6	15.0	6.2	4.3	5.2	8.8	5.6	7.1
24	21.7	17.7	19.3	15.0	12.6	13.6	5.3	3.6	4.3	9.2	6.5	7.7
25	20.9	19.5	20.2	12.8	11.9	12.4	5.3	2.8	3.9	11.4	7.1	9.0
26	21.3	20.3	20.7	13.3	12.0	12.7	5.7	3.2	4.4	10.4	8.1	9.2
27	21.0	19.9	20.4	13.1	12.3	12.7	6.0	4.0	5.0	9.3	8.4	8.9
28	22.9	20.3	21.3	12.5	11.9	12.1	8.4	5.1	6.4	9.7	8.2	8.8
29	23.8	20.7	22.1	12.4	11.3	12.1	8.4	6.4	7.3	9.0	8.6	8.8
30	22.9	19.2	20.8	11.3	10.2	10.8	10.5	7.7	9.0	8.7	8.1	8.4
31	19.8	18.6	19.0	---	---	---	11.6	9.2	10.2	8.4	7.7	8.0
Month	24.9	15.6	20.3	21.2	10.2	14.2	11.9	2.8	8.3	13.3	5.4	9.2

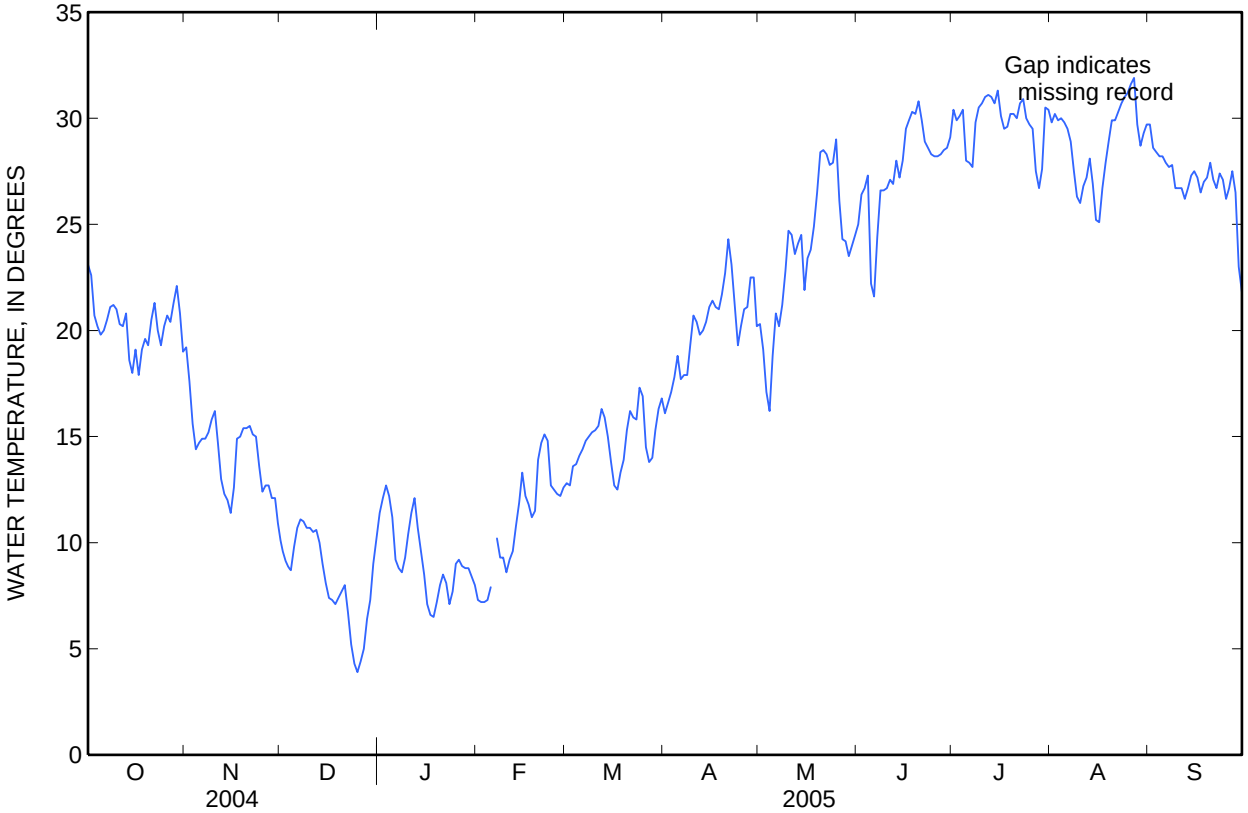
08086212 Hubbard Creek below Albany, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	7.8	7.1	7.3	13.6	12.4	12.8	17.5	15.0	16.1	24.0	16.9	20.3
2	7.7	6.7	7.2	13.5	11.9	12.7	19.1	14.4	16.6	21.6	17.5	19.1
3	9.3	5.8	7.2	15.6	12.2	13.6	18.7	15.6	17.1	17.9	16.5	17.1
4	8.4	6.2	7.3	14.7	13.0	13.7	20.0	16.2	17.8	16.7	15.8	16.2
5	8.5	7.3	7.9	14.6	13.5	14.1	20.8	17.3	18.8	22.0	16.3	18.8
6	---	8.2	---	14.8	13.9	14.4	18.5	17.0	17.7	23.2	18.6	20.8
7	10.9	9.3	10.2	16.0	13.9	14.8	20.5	16.1	17.9	21.3	19.9	20.2
8	9.7	8.8	9.3	16.4	13.7	15.0	20.1	16.0	17.9	24.3	19.1	21.2
9	10.7	8.5	9.3	16.4	14.4	15.2	21.8	17.3	19.3	26.3	19.4	22.8
10	9.4	7.8	8.6	17.7	13.9	15.3	23.1	18.8	20.7	27.1	22.7	24.7
11	10.0	8.6	9.2	17.1	14.2	15.5	22.4	18.7	20.4	25.6	23.4	24.5
12	10.0	9.2	9.6	18.5	14.5	16.3	22.8	17.2	19.8	24.6	22.8	23.6
13	13.2	9.3	10.8	17.6	14.8	15.9	23.2	17.4	20.0	26.2	22.5	24.1
14	14.3	10.1	11.9	16.8	13.8	15.0	24.0	17.5	20.4	27.9	22.2	24.5
15	15.3	11.4	13.3	14.3	13.2	13.8	23.3	19.2	21.1	24.0	21.3	21.9
16	13.8	11.0	12.2	13.2	11.9	12.7	23.9	19.2	21.4	25.7	20.8	23.4
17	13.3	10.7	11.8	14.6	10.6	12.5	22.5	19.5	21.1	26.1	21.5	23.8
18	11.5	10.8	11.2	16.0	11.1	13.3	22.0	20.2	21.0	27.0	22.9	24.9
19	12.2	10.8	11.5	15.4	12.3	13.9	24.0	20.2	21.7	29.4	23.9	26.5
20	16.4	11.9	13.9	17.7	13.3	15.3	25.1	20.8	22.7	31.9	25.3	28.4
21	16.7	13.1	14.7	18.3	14.8	16.2	27.6	22.0	24.3	30.8	25.8	28.5
22	17.2	13.2	15.1	17.8	14.4	15.9	25.3	21.3	23.1	30.6	25.9	28.3
23	16.1	12.9	14.8	17.8	13.7	15.8	23.7	19.2	21.2	29.6	25.7	27.8
24	14.3	11.7	12.7	19.8	15.3	17.3	20.5	17.5	19.3	30.6	25.2	27.9
25	13.6	11.5	12.5	18.7	15.5	16.9	23.1	17.6	20.2	32.6	26.0	29.0
26	12.8	11.9	12.3	15.8	14.0	14.5	24.2	18.2	21.0	28.3	24.2	26.1
27	13.9	11.6	12.2	14.9	12.6	13.8	23.5	18.5	21.1	26.0	23.4	24.3
28	13.5	11.8	12.6	15.0	13.0	14.0	25.9	19.4	22.5	24.6	23.8	24.2
29	---	---	---	15.8	14.8	15.3	24.8	20.5	22.5	23.8	23.2	23.5
30	---	---	---	18.1	14.8	16.3	23.3	17.6	20.2	26.3	22.6	24.0
31	---	---	---	18.5	15.5	16.8	---	---	---	26.7	23.0	24.5
Month	---	5.8	---	19.8	10.6	14.8	27.6	14.4	20.2	32.6	15.8	23.7

08086212 Hubbard Creek below Albany, TX—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	27.3	23.0	25.0	33.9	27.6	30.4	33.5	26.6	29.8	32.0	27.4	29.7
2	29.2	24.3	26.4	34.7	26.8	29.9	32.8	27.7	30.2	30.6	26.4	28.6
3	28.4	25.3	26.7	32.7	27.9	30.1	32.6	27.6	29.9	30.8	26.1	28.4
4	29.6	25.7	27.3	33.5	27.6	30.4	34.2	27.6	30.0	30.1	26.1	28.2
5	26.8	16.7	22.2	29.5	25.3	28.0	33.7	27.2	29.8	31.3	25.5	28.2
6	23.4	19.5	21.6	30.4	26.0	27.9	32.2	27.1	29.5	31.6	24.9	27.9
7	26.6	22.7	24.4	29.4	26.2	27.7	31.8	27.2	28.9	31.1	24.9	27.7
8	28.8	25.0	26.6	33.1	27.4	29.8	28.4	26.7	27.5	31.9	24.3	27.8
9	27.7	25.9	26.6	33.1	28.6	30.5	27.9	23.9	26.3	29.1	24.2	26.7
10	27.6	26.0	26.7	34.4	28.0	30.7	26.9	24.8	26.0	28.5	24.5	26.7
11	29.1	25.4	27.1	34.7	28.1	31.0	28.9	25.5	26.8	27.7	25.7	26.7
12	27.9	26.0	26.9	34.4	28.8	31.1	29.2	25.7	27.2	27.4	25.0	26.2
13	30.9	25.6	28.0	34.8	27.9	31.0	29.7	26.8	28.1	28.3	24.9	26.7
14	28.7	26.2	27.2	34.6	28.1	30.7	28.5	25.9	26.9	28.8	25.6	27.3
15	31.7	25.0	28.0	35.4	28.0	31.3	25.9	24.5	25.2	29.1	26.3	27.5
16	31.9	26.9	29.5	31.7	28.4	30.1	26.2	24.3	25.1	31.0	24.6	27.2
17	32.3	27.5	29.9	31.5	27.5	29.5	27.9	25.7	26.7	28.2	24.6	26.5
18	32.7	28.2	30.3	31.9	27.3	29.6	29.6	26.7	27.9	28.6	24.9	27.0
19	32.5	28.1	30.2	32.7	28.1	30.2	31.3	27.1	28.9	29.2	25.5	27.2
20	34.1	28.2	30.8	32.2	28.3	30.2	32.3	28.0	29.9	30.8	25.5	27.9
21	33.0	26.6	29.9	32.0	28.4	30.0	32.0	28.1	29.9	29.1	25.0	27.1
22	31.6	26.1	28.9	34.3	27.9	30.7	33.4	27.7	30.3	28.6	24.8	26.7
23	30.5	26.5	28.6	34.5	28.6	30.9	33.4	28.1	30.7	30.8	24.4	27.4
24	30.6	26.1	28.3	32.0	28.3	30.0	33.3	28.8	31.0	30.2	24.5	27.1
25	30.4	26.1	28.2	31.6	28.3	29.7	33.7	28.8	31.2	28.3	24.2	26.2
26	30.0	26.1	28.2	31.8	27.5	29.5	34.3	29.0	31.6	29.9	24.2	26.7
27	30.2	26.2	28.3	29.2	26.3	27.5	35.5	29.4	31.9	31.6	24.2	27.5
28	30.6	26.2	28.5	27.9	25.7	26.7	31.6	27.9	29.7	28.6	23.8	26.5
29	30.4	26.5	28.6	32.1	24.8	27.6	30.9	26.7	28.7	24.8	21.2	23.0
30	31.4	26.9	29.1	35.3	27.0	30.5	32.6	26.7	29.3	24.4	20.8	21.8
31	---	---	---	34.4	27.2	30.4	32.8	27.0	29.7	---	---	---
Month	34.1	16.7	27.6	35.4	24.8	29.8	35.5	23.9	28.9	32.0	20.8	27.0

08086212 Hubbard Creek below Albany, TX—Continued