08069000 Cypress Creek near Westfield, TX

San Jacinto Basin
Spring Subbasin

LOCATION.--Lat 30°02′08″, long 95°25′43″ referenced to North American Datum of 1927, Harris County, TX, Hydrologic Unit 12040102, on left bank at downstream side of downstream bridge on Interstate Highway 45 and U.S. Highway 75, 0.9 mi upstream from Senger Gully, 1.8 mi northwest of Westfield, 2.0 mi upstream from Missouri Pacific Railroad Co. bridge, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--285 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1944 to current year.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 63.89 ft above NGVD of 1929, unadjusted for land-surface subsidence. Prior to Mar. 17, 1951, water-stage recorder at upstream side of bridge at datum 12.00 ft higher. Radio telemeter at station. Satellite telemeter at station.

REMARKS.--Records good. No known regulation or diversions. Low flow is maintained by wastewater effluent. Channel below gage was rectified in 1950-51, 1975, and 1981. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1875, 34 ft May 1929 (discharge, 26,000 ft^3/s), present datum, from information by local resident. Flood in Nov. 1940 reached a stage of about 32 ft, present datum (discharge, 15,000 ft^3/s), from information by Texas Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 15	2130	9,520	24.45
Nov 18	0900	4,680	16.12
May 5	1530	5,920	18.64
Sep 13	1715	*12,700	*28.20

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	45	44	89	28	99	66	49	31	37	95	35	55
2	38	48	75	27	80	57	40	29	36	57	34	49
3	36	45	62	24	73	106	33	29	33	46	238	43
4	34	43	50	24	64	117	78	28	31	38	339	41
5	40	44	41	23	55	58	143	2,800	31	40	1,420	38
6	46	40	37	27	53	359	54	1,150	62	73	952	37
7	200	37	34	23	59	835	40	325	65	58	411	36
8	167	35	35	28	53	434	35	173	37	58	152	42
9	63	35	32	27	49	269	33	105	34	80	92	65
10	45	34	42	25	43	469	35	74	214	79	67	40
11	38	36	33	22	85	581	37	76	121	74	57	39
12	36	36	114	21	412	442	31	58	56	51	48	53
13	33	35	200	21	239	290	30	51	80	36	65	7,880
14	33	35	92	21	91	180	30	72	83	34	49	10,700
15	2,800	33	249	29	77	136	27	242	50	33	43	5,900
16	4,800	33	130	749	668	132	26	170	38	260	335	2,560
17	596	47	61	260	1,600	108	30	98	36	81	175	830
18	300	3,730	47	209	981	124	391	68	34	44	501	389
19	167	1,550	42	1,720	712	201	159	54	31	36	799	243
20	101	769	57	651	756	113	70	44	38	70	814	166
21	75	686	39	401	1,360	80	54	39	85	61	763	135
22	82	398	35	268	795	60	233	37	70	36	638	109
23	94	159	33	319	616	55	169	37	42	59	210	110
24	62	1,350	27	815	320	51	48	35	55	385	105	108
25	47	1,160	25	526	203	44	38	34	111	471	78	95
26	44	722	66	394	143	43	44	33	244	117	73	84
27	44	502	62	245	110	40	52	36	300	65	130	72
28	46	254	41	181	91	36	40	56	119	48	101	63
29	48	169	32	130	79	36	34	148	232	42	55	60
30	44	117	29	111	---	36	32	57	320	34	53	63
31	42	---	30	207	---	46	---	40	---	36	51	---
Total	10,246	12,226	1,941	7,556	9,966	5,604	2,115	6,229	2,725	2,697	8,883	30,105
Mean	331	408	62.6	244	344	181	70.5	201	90.8	87.0	287	1,004
Max	4,800	3,730	249	1,720	1,600	835	391	2,800	320	471	1,420	10,700
Min	33	33	25	21	43	36	26	28	31	33	34	36
Ac-ft	20,320	24,250	3,850	14,990	19,770	11,120	4,200	12,360	5,410	5,350	17,620	59,710

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	223	231	195	244	244	145	202	277	267	113	74.2	160
Max	1,768	1,788	931	1,168	1,322	811	1,133	1,260	1,527	981	562	1,004
(WY)	(1995)	(1947)	(1992)	(1979)	(1992)	(2001)	(1973)	(1953)	(2001)	(2007)	(1945)	(2008)
Min	0.13	0.02	0.15	0.60	1.39	0.21	1.50	1.77	1.64	0.26	0.09	1.21
(WY)	(1957)	(1956)	(1951)	(1951)	(1951)	(1956)	(1963)	(1956)	(1958)	(1958)	(1948)	(1956)

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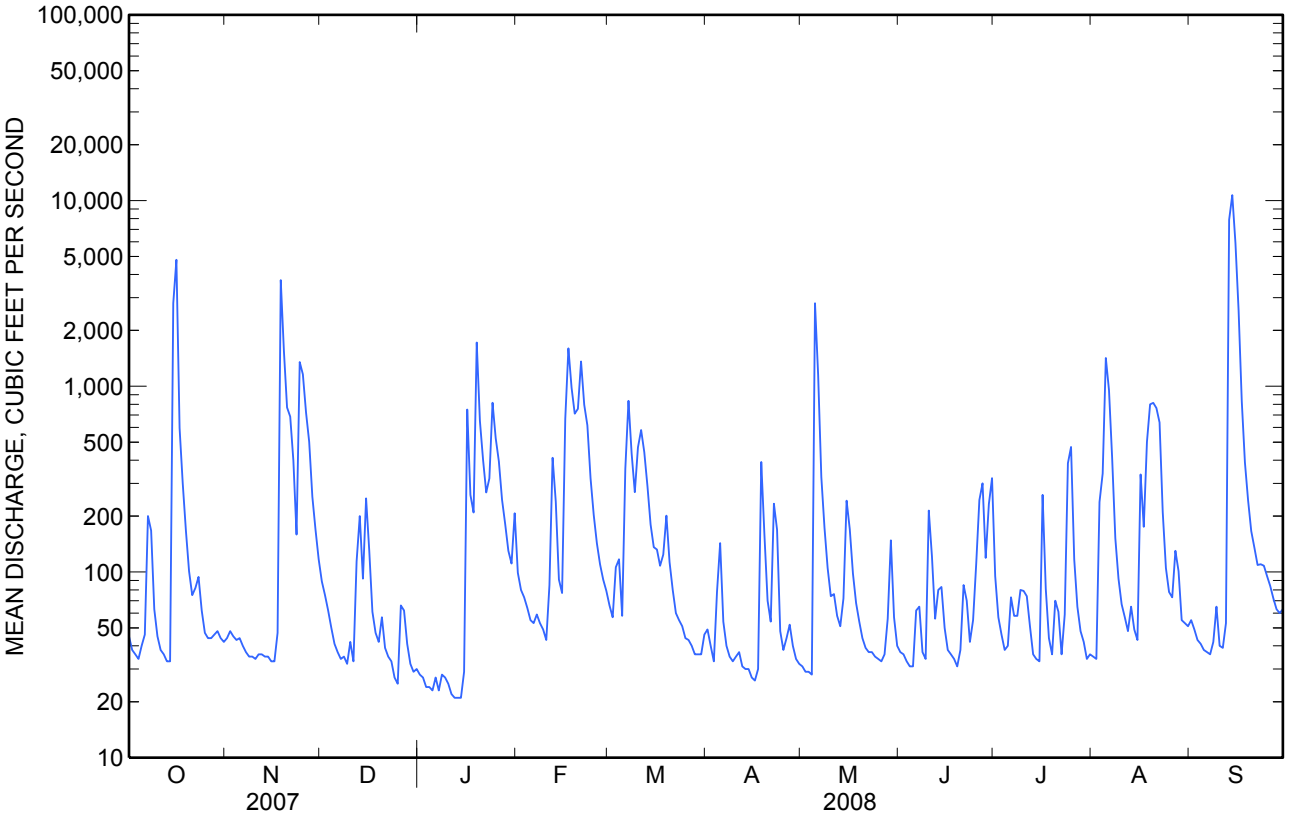
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1944 - 2008	
Annual total	144,498		100,293			
Annual mean	396		274		198	
Highest annual mean					510	1992
Lowest annual mean					7.53	1956
Highest daily mean	4,800	Oct 16	10,700	Sep 14	15,600	Oct 8, 1949
Lowest daily mean	25	Dec 25	21	Jan 12	0.00	Aug 3, 1948
Annual seven-day minimum	35	Nov 10	24	Jan 8	0.00	Aug 3, 1948
Maximum peak flow			12,700	Sep 13	22,100	Oct 8, 1949
Maximum peak stage			28.20	Sep 13	33.44	Oct 8, 1949
Annual runoff (ac-ft)	286,600		198,900		143,200	
10 percent exceeds	1,020		586		467	
50 percent exceeds	130		60		33	
90 percent exceeds	38		33		2.0	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Mar. 1959 to Apr. 1964, Oct. 1977 to June 1978, Aug. 1983 to Sept. 2004, Jan. 2008 to current year.
BIOCHEMICAL DATA: Aug. 1983 to Sept. 2004, Jan. 2008 to current year.
PESTICIDE DATA: Aug. 1983 to Sept. 1990, June 2000 to Sept. 2004, Jan. 2008 to current year.
SEDIMENT DATA: Oct. 1976 to Sept. 1979, Oct. 1986 to Apr. 1990, Jan. 2008 to current year.

REMARKS.--Samples collected for selected storm events. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[QC, quality control sample. Remark codes: <, less than; >, greater than.]

Date	Time	Sample medium and type	Instantaneous discharge, ft3/s (00061)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm 25 degC (00095)
Jan									
30...	1345	Surface water, regular	115	94	761	9.3	89	7.4	403
Feb									
14...	1350	Surface water, regular	83	64	761	8.5	85	7.3	393
Mar									
04...	1310	Surface water, regular	110	46	760	7.7	79	7.7	540
19...	1035	Surface water, regular	209	53	756	5.9	65	7.5	426
Apr									
01...	1330	Surface water, regular	41	17	758	6.8	82	8.0	852
09...	1045	Surface water, regular	30	18	756	6.0	73	7.9	721
23...	1307	Surface water, regular	103	48	759	4.8	58	7.3	276
May									
05...	1340	Surface water, regular	5,580	210	761	6.4	71	6.9	123
15...	1350	Surface water, regular	274	43	755	6.7	83	7.7	558
Jun									
12...	1230	Surface water, regular	53	50	757	3.8	50	7.1	513
23...	1325	Surface water, regular	40	35	758	6.0	81	8.1	766
Jul									
01...	*1118*	*QC - Artificial, blank*	--	--	--	--	--	--	--
01...	*1119*	*QC - Artificial, blank*	--	--	--	--	--	--	--
01...	1215	Surface water, regular	85	62	760	4.7	60	7.5	391
01...	*1216*	*QC - Surface water, replicate*	--	--	--	--	--	--	--
16...	1145	Surface water, regular	308	120	761	4.5	57	7.5	309
Aug									
05...	1450	Surface water, regular	2,740	220	754	7.0	87	7.2	172
20...	1015	Surface water, regular	874	430	755	7.1	88	7.7	175
Sep									
16...	1415	Surface water, regular	2,320	93	765	--	--	7.8	124

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 3
[QC, quality control sample. Remark codes: <, less than; >, greater than.]

Date	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrate water, fltrd, mg/L (71851)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L (71856)	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Organic nitrogen, water, unfltrd mg/L (00605)	Total nitrogen, water, fltrd, mg/L (00602)
Jan													
30...	13.4	.97	1.4	.15	.118	3.63	15.9	3.58	.136	.041	.86	1.3	4.6
Feb													
14...	15.4	1.0	1.5	.23	.178	3.14	13.7	3.09	.178	.054	.85	1.3	4.2
Mar													
04...	16.4	1.4	1.8	.26	.205	5.22	22.7	5.12	.327	.099	1.2	1.6	6.6
19...	19.6	1.0	1.7	.15	.115	3.07	12.7	2.87	.638	.194	.88	1.6	4.1
Apr													
01...	24.6	1.3	1.6	.46	.360	7.17	30.9	6.97	.656	.200	.99	1.2	8.5
09...	24.8	1.9	2.2	1.11	.863	5.28	22.5	5.08	.656	.200	1.1	1.3	7.2
23...	25.2	1.2	1.7	.32	.250	1.96	8.38	1.89	.231	.070	.91	1.5	3.1
May													
05...	20.2	.89	2.0	.41	.315	.80	3.44	.78	.088	.027	.57	1.6	1.7
15...	25.5	.99	1.4	.12	.091	4.96	21.5	4.86	.334	.102	.89	1.3	5.9
Jun													
12...	29.6	--	--	--	--	--	--	--	--	--	--	--	--
23...	30.5	1.2	1.4	.11	.087	5.86	25.5	5.75	.353	.108	1.1	1.3	7.0
Jul													
01...	--	*<.14*	*<.14*	--	*<.020*	*<.04*	--	--	--	*<.002*	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	28.3	1.2	1.5	.23	.179	2.26	9.71	2.19	.203	.062	.98	1.3	3.4
01...	--	*1.2*	*1.5*	*.23*	*.179*	*2.25*	*9.70*	*2.19*	*.202*	*.061*	*.99*	*1.3*	*3.4*
16...	27.9	.97	1.6	.17	.135	2.23	9.67	2.19	.154	.047	.84	1.5	3.2
Aug													
05...	26.2	.86	1.9	.16	.121	.87	3.70	.84	.098	.030	.73	1.8	1.7
20...	25.9	1.1	1.4	.05	.040	.83	3.57	.81	.068	.021	1.0	1.4	1.9
Sep													
16...	24.6	--	--	--	--	--	--	--	--	--	--	--	--

08069000 Cypress Creek near Westfield, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 3
[QC, quality control sample. Remark codes: <, less than; >, greater than.]

Date	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Organic carbon, water, unfltrd mg/L (00680)	E coli, Defined Substr. Tech., water, MPN/100 mL (50468)	Total coliform, Defined Tech., MPN/100 mL (50569)	Atrazine, wat flt immunoassay unadj. µg/L (99775)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Data base number	Medium code
Jan													
30...	5.0	2.74	.894	.94	1.08	11.5	440	19,000	.23	66	20	01	WS
Feb													
14...	4.6	2.57	.837	.85	.95	9.7	3,700	73,000	8.34	63	14	01	WS
Mar													
04...	7.0	3.96	1.29	1.27	1.47	11.1	2,400	240,000	11.0	50	15	01	WS
19...	4.8	2.72	.887	.92	1.10	11.2	5,200	>240,000	7.10	57	32	01	WS
Apr													
01...	8.8	7.50	2.45	2.40	2.49	8.4	180	160,000	3.88	18	2.0	01	WS
09...	7.4	5.44	1.78	1.80	1.89	9.3	240	77,000	11.0	42	3.4	01	WS
23...	3.7	2.22	.725	.75	.85	11.3	15,000	170,000	12.0	66	18	01	WS
May													
05...	2.8	1.09	.357	.39	.67	16.2	31,000	550,000	6.46	1,460	22,000	01	WS
15...	6.3	4.30	1.40	1.42	1.43	7.4	6,100	130,000	1.70	61	45	01	WS
Jun													
12...	--	--	--	--	--	--	1,200	77,000	1.11	56	8.0	01	WS
23...	7.3	6.73	2.20	2.07	2.22	10.7	490	27,000	.67	45	4.9	01	WS
Jul													
01...	--	--	*<.006*	*<.02*	*<.02*	--	--	--	--	*4*	--	*02*	*OAQ*
01...	--	--	--	--	--	*<.4*	--	--	*<.10*	--	--	*02*	*OAQ*
01...	3.7	3.30	1.08	1.07	1.15	12.3	780	39,000	1.59	56	13	01	WS
01...	*3.7*	*3.29*	*1.07*	*1.09*	*1.16*	*9.6*	--	--	*1.37*	*55*	--	*02*	*WSQ*
16...	3.8	2.53	.824	.82	.99	12.7	13,000	270,000	1.51	143	119	01	WS
Aug													
05...	2.8	1.47	.479	.50	.76	15.2	33,000	770,000	1.08	791	5,850	01	WS
20...	2.2	1.30	.425	.44	.51	18.2	4,600	96,000	.90	179	422	01	WS
Sep													
16...	--	--	--	--	--	--	--	--	--	168	1,050	01	WS