Water-Data Report 2012

08041500 Village Creek near Kountze, TX

Neches Basin
Village Subbasin

LOCATION.--Lat 30°23′52″, long 94°15′48″ referenced to North American Datum of 1927, Hardin County, TX, Hydrologic Unit 12020006, on left bank of downstream side of bridge on Farm Road 418, 1.6 mi upstream from Gulf, Colorado, and Santa Fe Railway Co. bridge, 3.1 mi upstream from Cypress Creek, 3.4 mi northeast of Kountze and 4.3 mi downstream from Beech Creek.

DRAINAGE AREA.--860 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jun. 1924 to Sept. 1927, Oct. 1927 to Nov. 1929 (discharge measurements only), May 1939 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Nov. 1967 to Sept. 1985.

PERIOD OF DAILY RECORD, Water-Quality.--
WATER TEMPERATURE: Nov. 1967 to Sept. 1970.

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 25.12 ft above NGVD of 1929. Prior to Apr. 30, 1939, nonrecording gage at site 1.6 mi downstream at different datum. Apr. 30, 1939, to Sept. 30, 1966, water-stage recorder at site 2,000 ft downstream at present datum. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. There are small diversions above station. 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 1884, about 34 ft in Aug. 1915, at site 2,000 ft downstream at present datum; stage was determined on basis of information by engineers of Gulf, Colorado, and Santa Fe Railway Co. for site 1.6 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 20	1930	*6,270	*17.07

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08041500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08041500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	25	154	385	1,040	573	538	272	98	74	161	210
2	14	31	137	329	1,070	547	527	252	94	74	145	143
3	12	36	114	292	1,130	529	536	235	92	69	140	109
4	12	33	108	262	1,130	618	622	221	93	65	124	91
5	12	29	128	244	1,580	772	734	209	93	66	110	80
6	11	27	226	222	2,240	709	814	199	91	64	111	73
7	10	25	337	210	3,700	630	804	189	93	65	99	68
8	10	24	499	207	4,190	534	632	181	99	105	93	64
9	10	28	483	216	3,520	474	481	173	102	166	88	61
10	12	151	355	440	2,560	658	385	166	99	295	84	58
11	12	191	264	851	1,730	1,140	334	173	101	809	86	55
12	12	123	210	1,150	1,200	1,840	303	173	123	1,660	86	55
13	11	87	177	1,390	1,010	2,560	283	203	175	2,860	97	54
14	11	71	156	1,770	911	3,310	271	283	244	3,580	129	59
15	11	62	140	2,320	881	3,560	259	311	311	3,720	118	71
16	12	58	130	2,020	1,050	3,520	263	302	301	3,540	102	108
17	14	53	120	1,150	1,390	3,160	321	256	230	3,200	88	96
18	14	53	113	625	2,060	2,280	598	217	253	2,800	83	97
19	13	50	109	499	3,860	1,360	958	193	284	2,000	245	111
20	12	47	158	443	5,950	1,040	1,140	176	227	1,040	292	104
21	10	53	279	401	5,650	2,490	1,030	162	205	534	201	105
22	10	65	364	368	4,990	3,570	892	151	205	385	142	114
23	10	67	631	344	4,270	4,130	1,060	141	194	315	110	104
24	10	94	851	325	3,390	4,310	1,260	132	167	270	97	88
25	11	99	905	406	2,360	3,620	1,330	125	137	240	114	77
26	12	125	1,020	1,210	1,400	2,660	1,030	119	117	233	139	70
27	13	147	1,020	1,920	870	1,830	563	113	103	256	150	64
28	18	139	1,020	2,180	708	978	390	108	92	236	146	60
29	22	125	950	2,260	623	681	332	103	83	215	130	69
30	25	135	686	2,150	---	577	297	101	77	191	109	111
31	24	---	489	1,630	---	540	---	101	---	183	123	---
Total	406	2,253	12,333	28,219	66,463	55,200	18,987	5,740	4,583	29,310	3,942	2,629
Mean	13.1	75.1	398	910	2,292	1,781	633	185	153	945	127	87.6
Max	25	191	1,020	2,320	5,950	4,310	1,330	311	311	3,720	292	210
Min	10	24	108	207	623	474	259	101	77	64	83	54
Ac-ft	805	4,470	24,460	55,970	131,800	109,500	37,660	11,390	9,090	58,140	7,820	5,210
Cfsm	0.02	0.09	0.46	1.06	2.66	2.07	0.74	0.22	0.18	1.10	0.15	0.10
In.	0.02	0.10	0.53	1.22	2.87	2.39	0.82	0.25	0.20	1.27	0.17	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	518	796	1,107	1,425	1,496	1,183	1,082	1,068	795	491	251	323
Max	8,657	6,430	5,835	5,693	4,492	3,311	6,733	6,932	6,668	4,963	1,580	2,111
(WY)	(2007)	(1941)	(1941)	(1974)	(2004)	(1992)	(1979)	(1953)	(1950)	(1989)	(1975)	(1961)
Min	13.1	34.9	97.9	113	169	130	74.5	81.0	29.5	21.4	14.8	19.1
(WY)	(2012)	(1968)	(2011)	(1957)	(1968)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)

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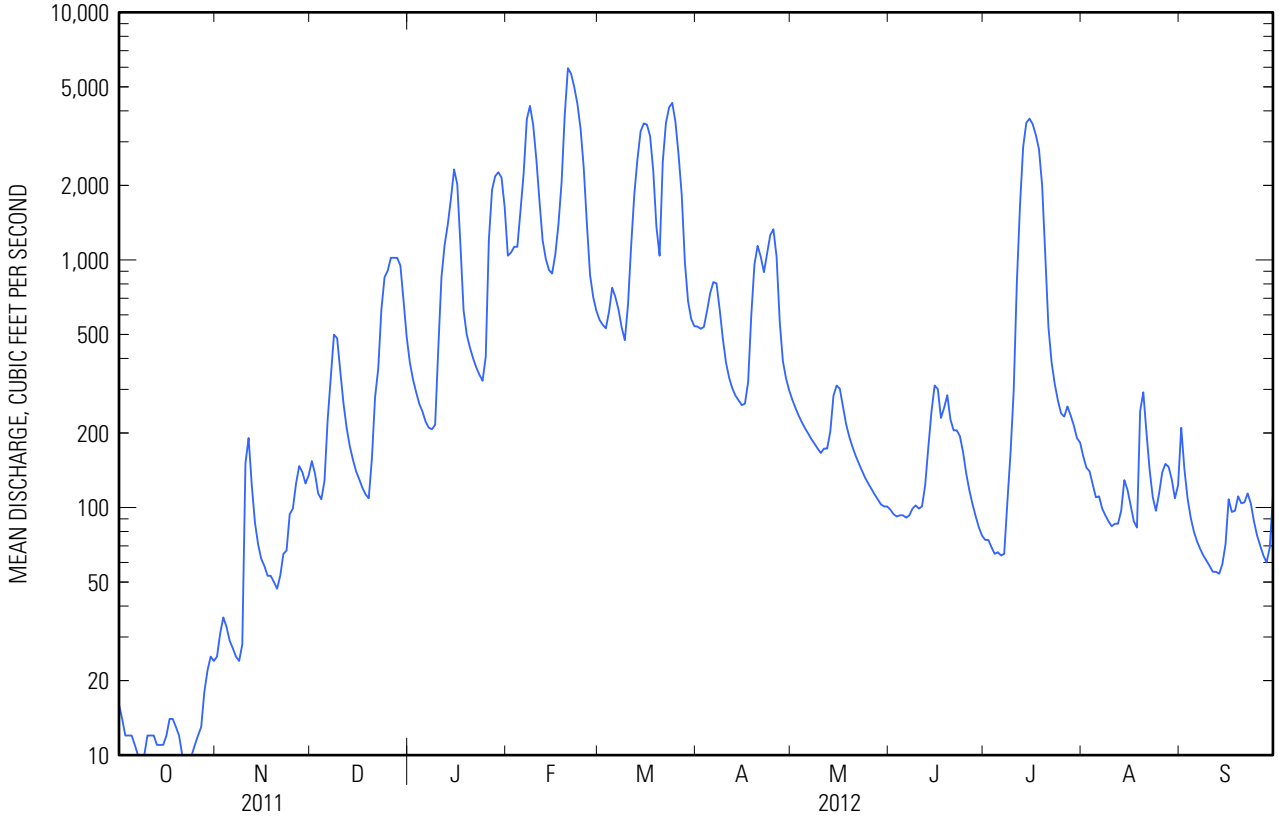
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1939 - 2012	
Annual total	38,078.7		230,065			
Annual mean	104		629		877	
Highest annual mean					2,248	1950
Lowest annual mean					84.1	2011
Highest daily mean	1,020	Dec 26	5,950	Feb 20	62,200	Nov 26, 1940
Lowest daily mean	9.8	Aug 26	10	Oct 7	9.8	Aug 26, 2011
Annual seven-day minimum	10	Aug 21	11	Oct 20	10	Aug 21, 2011
Maximum peak flow			6,270	Feb 20	67,200	Nov 26, 1940
Maximum peak stage			17.07	Feb 20	28.33	Oct 19, 2006
Annual runoff (ac-ft)	75,530		456,300		635,600	
Annual runoff (cfsm)	0.121		0.731		1.02	
Annual runoff (inches)	1.65		9.95		13.86	
10 percent exceeds	208		2,010		2,130	
50 percent exceeds	57		200		329	
90 percent exceeds	13		29		81