Water-Data Report 2013

08104500 Little River near Little River, TX

Little Basin
Little Subbasin

LOCATION.--Lat 30°57′59″, long 97°20′45″ referenced to North American Datum of 1927, Bell County, TX, Hydrologic Unit 12070204, on right bank 25 ft downstream from State Highway 95, 2.4 mi southeast of Little River, 5.0 mi downstream from confluence of Leon and Lampasas Rivers, and 95.8 mi upstream from mouth.

DRAINAGE AREA.--5,228 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1923 to May 1929, Aug. 1962 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Oct. 1964 to Sept. 1982.
BIOCHEMICAL DATA: Oct. 1964 to Sept. 1973.
RADIOCHEMICAL DATA: Oct. 1980 to Jan. 1981.

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

GAGE.--Water-stage recorder. Datum of gage is 400.11 ft above NGVD of 1929. From Oct. 5, 1923, to May 27, 1929, nonrecording gage at railroad bridge 0.5 mi upstream at same datum. Satellite telemeter at station.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Since Mar. 1954, at least 10% of contributing drainage area has been regulated. Wastewater effluent is returned upstream of station from Fort Hood military installation and by the cities of Killeen, Nolanville, and Harker Heights. Many small diversions upstream for irrigation and municipal supply affect very low flow. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--5 years (water years 1924-28), 709 ft^3/s (513,700 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 46.8 ft in Sept. 1921, from information by local residents.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS 1924-1929: Maximum discharge, 28,400 ft^3/s Oct. 2, 1927, (gage height 43.3 ft); minimum, 8.9 ft^3/s Aug. 12, 1925.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	154	53	79	89	90	53	53	63	83	28	366	332
2	106	53	77	93	88	54	51	55	81	26	366	330
3	93	52	80	85	91	50	142	51	80	27	361	331
4	78	55	78	90	92	51	111	52	71	31	365	345
5	70	53	76	97	91	54	70	51	65	24	361	346
6	63	51	77	93	92	48	60	50	62	25	360	285
7	64	53	76	89	95	48	56	50	57	22	376	276
8	59	52	76	99	74	47	e52	47	54	27	406	276
9	64	49	79	1,590	54	53	54	118	54	26	405	278
10	61	53	78	574	403	650	62	442	83	35	399	286
11	65	54	75	192	181	180	172	721	60	599	402	284
12	78	53	81	148	174	97	81	177	51	410	404	317
13	66	55	79	134	103	81	68	129	47	466	404	328
14	62	55	79	116	79	66	57	96	42	476	409	328
15	65	57	82	108	72	64	56	88	44	1,570	652	324
16	63	58	96	105	67	55	48	663	44	812	428	322
17	61	54	84	103	61	59	46	182	44	827	345	331
18	60	54	80	101	60	56	59	116	85	313	328	360
19	57	59	73	98	60	57	118	96	113	205	321	362
20	55	61	74	96	55	52	61	91	64	172	325	633
21	55	58	79	95	61	70	50	106	50	160	314	694
22	52	58	78	94	66	54	48	600	42	141	226	145
23	55	54	78	93	60	55	50	119	40	151	349	108
24	56	56	79	90	56	50	54	90	38	150	291	74
25	56	54	79	92	54	51	60	674	40	144	293	50
26	50	60	81	93	56	51	58	248	33	158	299	43
27	54	59	83	92	53	47	60	147	35	401	343	39
28	56	69	84	92	53	50	62	121	30	387	349	42
29	55	78	82	92	---	50	57	104	30	378	343	53
30	56	79	82	95	---	52	61	108	30	379	335	75
31	56	---	84	95	---	48	---	92	---	372	331	---
Total	2,045	1,709	2,468	5,123	2,541	2,453	2,037	5,747	1,652	8,942	11,256	7,997
Mean	66.0	57.0	79.6	165	90.8	79.1	67.9	185	55.1	288	363	267
Max	154	79	96	1,590	403	650	172	721	113	1,570	652	694
Min	50	49	73	85	53	47	46	47	30	22	226	39
Ac-ft	4,060	3,390	4,900	10,160	5,040	4,870	4,040	11,400	3,280	17,740	22,330	15,860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2013[hz], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	501	523	696	894	1,130	1,504	1,461	1,734	1,628	1,160	674	610
Max	4,192	4,155	7,058	7,252	8,834	10,200	9,237	6,833	8,119	7,831	9,938	8,446
(WY)	(2008)	(2010)	(2005)	(1992)	(2010)	(1992)	(1992)	(1992)	(2007)	(2007)	(2007)	(2007)
Min	43.0	55.4	47.7	58.9	60.1	63.2	59.4	102	55.1	54.1	12.1	41.3
(WY)	(1979)	(2007)	(1964)	(2009)	(2009)	(1996)	(1984)	(2000)	(2013)	(2000)	(1963)	(1972)

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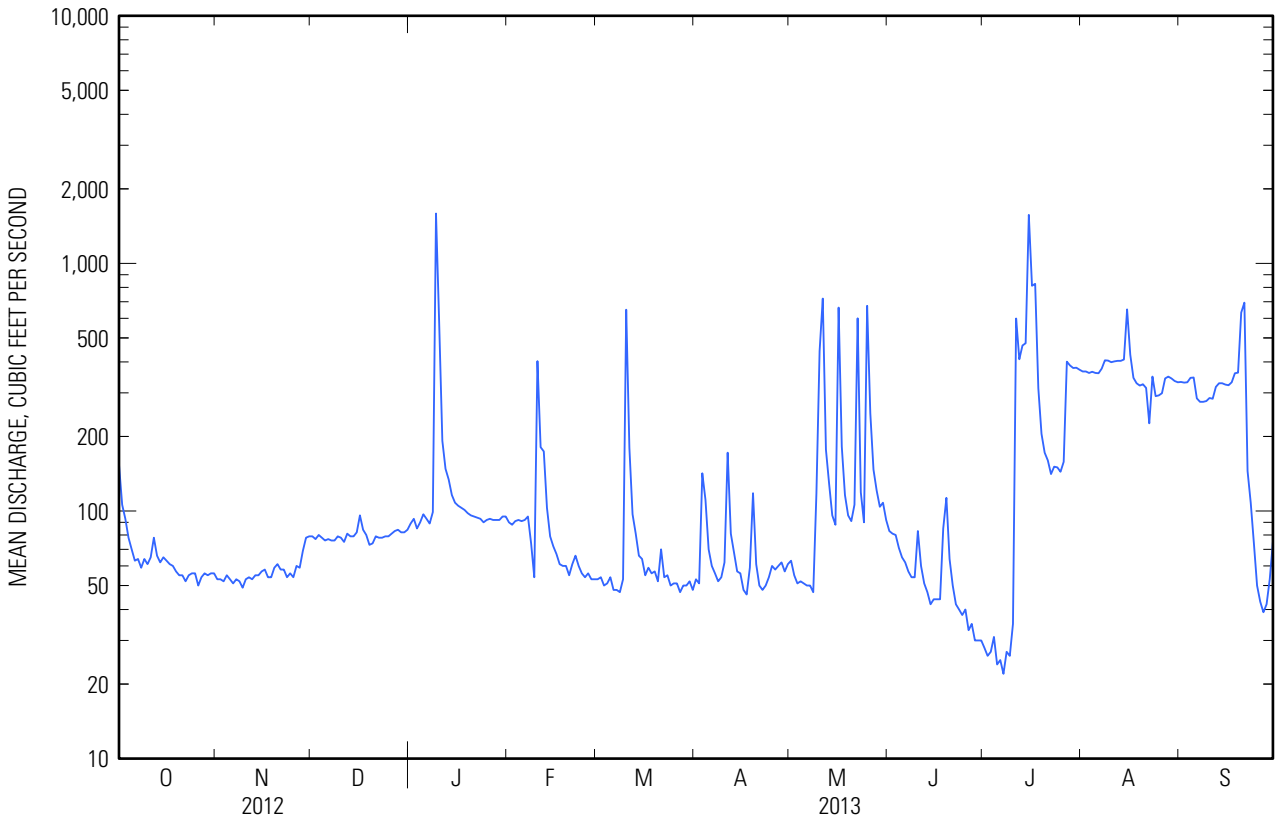
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1962 - 2013[hz]	
Annual total	138,910		53,970			
Annual mean	380		148		1,043	
Highest annual mean					5,054	1992
Lowest annual mean					118	2000
Highest daily mean	9,350	Mar 20	1,590	Jan 9	62,000	May 17, 1965
Lowest daily mean	44	Sep 27	22	Jul 7	8.2	Aug 6, 1963
Annual seven-day minimum	50	Sep 22	26	Jul 2	9.5	Aug 3, 1963
Maximum peak flow			3,310	Jan 9	79,600	May 17, 1965
Maximum peak stage			10.47	Jan 9	42.85	May 17, 1965
Annual runoff (ac-ft)	275,500		107,000		755,300	
10 percent exceeds	628		363		3,290	
50 percent exceeds	81		78		235	
90 percent exceeds	55		49		63	

[h] See Period of Record paragraph.
[z] Period of regulated streamflow.