Water-Data Report 2011

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 those 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.

08104500 Little River near Little River, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

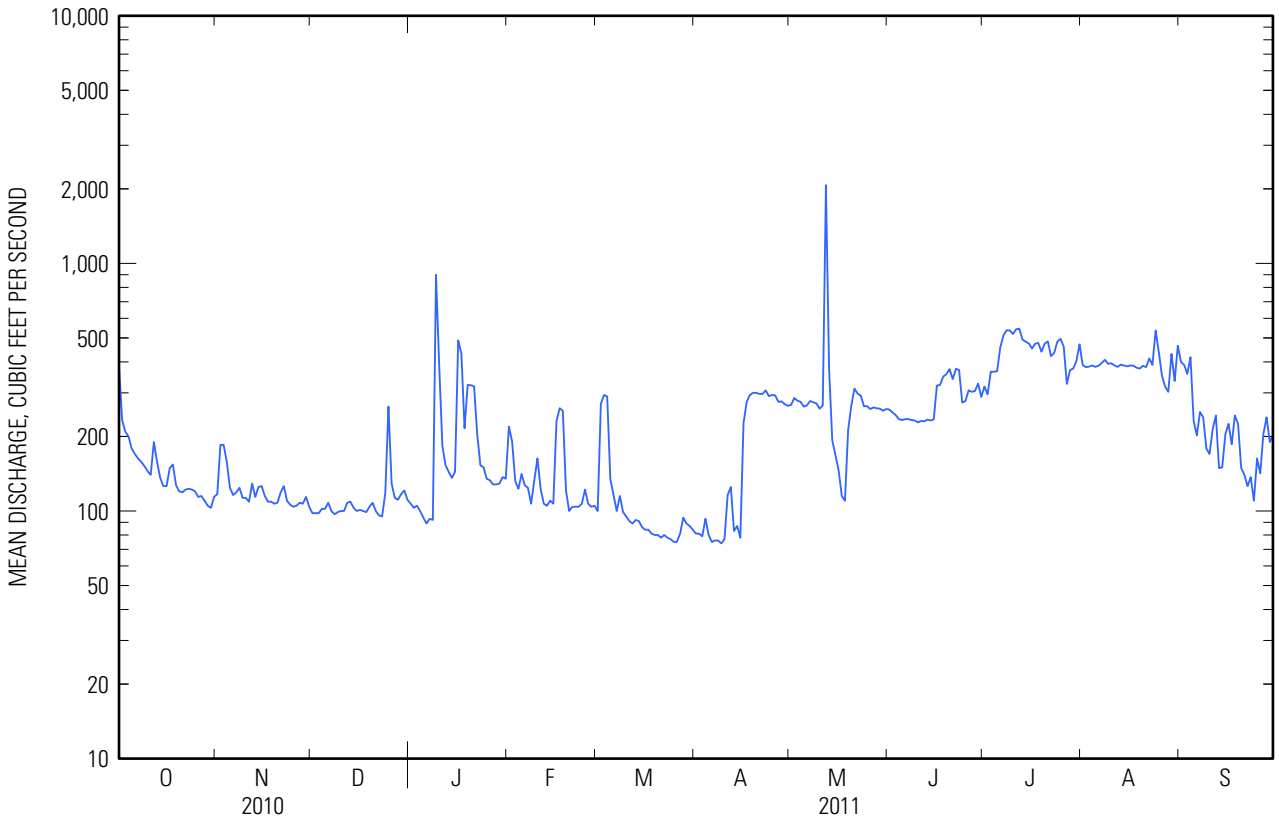
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	382	117	98	107	219	100	81	268	257	318	389	400
2	232	185	98	103	191	271	81	286	250	296	381	389
3	209	185	98	105	132	294	79	279	244	365	383	358
4	200	158	102	100	123	290	93	276	235	365	387	418
5	179	124	102	94	141	134	80	264	233	367	382	231
6	170	116	108	89	127	116	75	267	235	458	386	202
7	163	119	100	93	e124	e100	76	278	235	512	396	251
8	158	124	97	92	e107	e115	76	275	233	537	408	239
9	152	113	99	899	e133	99	74	272	232	536	393	179
10	145	113	100	389	e163	95	77	259	228	519	395	170
11	140	109	100	184	e123	91	116	267	231	542	387	214
12	190	129	108	153	107	89	125	2,070	230	545	382	243
13	158	114	109	144	105	92	83	374	234	492	390	149
14	136	125	103	136	110	91	87	193	232	483	387	150
15	126	126	100	144	107	86	78	168	234	475	384	204
16	126	115	101	489	230	84	226	146	321	453	387	225
17	149	109	100	432	260	84	276	115	323	474	386	186
18	154	109	99	216	254	81	294	110	349	477	379	243
19	127	107	104	323	121	80	300	212	357	440	376	225
20	120	108	108	322	100	80	300	266	374	474	386	149
21	119	119	100	319	104	78	297	312	341	484	381	140
22	122	126	96	204	104	80	297	298	375	422	413	126
23	123	110	95	153	104	78	307	292	371	435	389	137
24	122	106	118	150	107	77	291	265	274	483	536	110
25	120	104	264	135	122	75	294	265	278	496	439	163
26	114	105	129	133	107	75	293	258	307	462	352	142
27	115	108	113	128	104	81	276	262	303	326	318	205
28	110	107	111	128	105	e94	277	260	305	371	303	239
29	105	114	117	129	---	e89	270	259	327	376	431	190
30	103	104	121	137	---	87	266	254	289	403	335	202
31	114	---	111	e135	---	84	---	258	---	471	465	---
Total	4,683	3,608	3,409	6,365	3,834	3,370	5,545	9,628	8,437	13,857	12,106	6,479
Mean	151	120	110	205	137	109	185	311	281	447	391	216
Max	382	185	264	899	260	294	307	2,070	375	545	536	418
Min	103	104	95	89	100	75	74	110	228	296	303	110
Ac-ft	9,290	7,160	6,760	12,620	7,600	6,680	11,000	19,100	16,730	27,490	24,010	12,850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2011[hz], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	518	543	720	925	1,170	1,520	1,494	1,798	1,691	1,200	690	627
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	116	54.1	12.1	41.3
(WY)	(1979)	(2007)	(1964)	(2009)	(2009)	(1996)	(1984)	(2000)	(2000)	(2000)	(1963)	(1972)

08104500 Little River near Little River, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1962 - 2011[hz]	
Annual total	694,924		81,321			
Annual mean	1,904		223		1,074	
Highest annual mean					5,054	1992
Lowest annual mean					118	2000
Highest daily mean	25,800	Sep 8	2,070	May 12	62,000	May 17, 1965
Lowest daily mean	67	Aug 27	74	Apr 9	8.2	Aug 6, 1963
Annual seven-day minimum	72	Aug 21	78	Mar 20	9.5	Aug 3, 1963
Maximum peak flow			4,750	May 12	79,600	May 17, 1965
Maximum peak stage			13.01	May 12	42.85	May 17, 1965
Annual runoff (ac-ft)	1,378,000		161,300		778,200	
10 percent exceeds	7,130		395		3,340	
50 percent exceeds	518		170		257	
90 percent exceeds	99		94		65	

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