Water-Data Report 2012

07338500 LITTLE RIVER BELOW LUKFATA CREEK NEAR IDABEL, OK

Red-Little Basin
Upper Little Subbasin

LOCATION.--Lat 33°56′28″, long 94°45′30″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.14, T.7 S., R.24 E., McCurtain County, OK, Hydrologic Unit 11140107, on left bank at downstream side of bridge on U.S. Highway 70 just downstream from Lukfata Creek, 5.0 mi northeast of Idabel, and at mile 103.4.

DRAINAGE AREA.--1,228 mi^2, revised. From automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 312.08 ft above NGVD of 1929. Oct. 1, 1946, to Oct. 26, 1950, and for stages below 9.0 ft Oct. 26, 1950, to Oct. 10, 1951, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow regulated since June 1969 by Pine Creek Lake (station 07337300), 41.9 mi upstream. Small diversions for municipal use by City of Idabel at station and by Weyerhaeuser 41 miles above station. U.S. Army Corps of Engineers' satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in February 1938 reached a stage of 39.7 ft, from information provided by local resident, discharge, 86,000 ft^3/s.

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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	14	23	1,230	377	6,940	294	4,250	102	46	16	23	12
2	12	22	418	327	6,600	264	4,160	100	39	15	18	13
3	9.2	20	405	281	4,870	237	4,130	93	35	16	16	11
4	7.3	18	2,120	530	4,320	208	4,410	88	36	16	16	10
5	6.7	19	8,260	878	5,880	185	4,310	84	36	16	15	9.6
6	6.2	19	9,870	867	5,160	798	4,130	79	239	16	16	9.4
7	5.8	19	9,380	601	5,370	845	3,920	77	276	18	16	8.6
8	5.7	21	8,070	420	5,980	345	3,770	105	125	20	15	9.2
9	5.6	35	7,310	440	5,910	1,290	3,720	123	97	24	15	8.0
10	4.7	119	6,990	1,130	4,250	2,190	3,620	125	71	29	17	7.5
11	4.5	54	6,710	3,380	1,760	4,020	1,880	106	55	37	17	7.3
12	5.2	58	6,430	5,130	1,220	9,580	844	107	55	38	15	7.3
13	4.6	91	4,090	5,050	1,160	9,400	862	140	103	32	13	8.7
14	4.4	79	1,020	2,500	1,360	6,920	323	157	92	27	12	11
15	4.6	87	1,890	930	1,470	5,230	274	125	60	24	13	11
16	4.5	148	5,280	737	1,470	4,740	310	114	47	23	13	12
17	3.9	145	7,120	644	1,640	4,440	338	98	39	22	13	15
18	5.8	98	7,340	1,070	1,820	4,210	326	85	35	20	14	15
19	9.9	81	6,820	1,360	1,970	4,010	303	79	33	19	15	15
20	12	105	6,200	1,310	1,960	7,220	278	73	31	17	16	14
21	14	235	6,230	985	1,820	12,300	267	65	28	18	19	12
22	14	5,130	6,490	713	1,260	13,000	257	60	25	19	18	10
23	25	8,200	6,670	684	753	11,000	233	55	24	20	17	9.8
24	23	6,390	5,120	562	1,130	8,690	212	53	23	19	15	9.3
25	21	5,570	2,460	4,690	1,190	6,730	198	50	21	17	13	9.1
26	19	5,290	2,020	11,600	863	5,580	189	50	19	16	13	8.9
27	19	5,320	2,020	13,000	753	5,080	177	47	18	20	12	9.5
28	19	5,410	1,990	11,400	420	4,800	154	44	17	294	13	9.5
29	17	5,150	1,860	9,540	329	4,600	125	42	17	156	13	9.5
30	23	3,960	1,020	8,240	---	4,460	107	41	16	63	13	16
31	24	---	448	7,440	---	4,350	---	50	---	35	13	---
Total	354.6	51,916	143,281	96,816	79,628	147,016	48,077	2,617	1,758	1,122	467	318.2
Mean	11.4	1,731	4,622	3,123	2,746	4,742	1,603	84.4	58.6	36.2	15.1	10.6
Max	25	8,200	9,870	13,000	6,940	13,000	4,410	157	276	294	23	16
Min	3.9	18	405	281	329	185	107	41	16	15	12	7.3
Ac-ft	703	103,000	284,200	192,000	157,900	291,600	95,360	5,190	3,490	2,230	926	631

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,064	2,045	2,689	2,210	2,516	2,938	2,366	2,861	1,753	532	294	632
Max	6,691	8,381	10,320	7,746	5,538	7,730	7,843	8,976	6,044	6,706	2,299	6,992
(WY)	(2010)	(1997)	(1972)	(1998)	(2010)	(1973)	(2002)	(1990)	(1973)	(2007)	(1992)	(1974)
Min	11.4	27.2	26.8	47.6	55.9	209	374	84.4	46.9	18.3	13.5	10.6
(WY)	(2012)	(2006)	(2006)	(2006)	(2006)	(1996)	(2003)	(2012)	(1972)	(2006)	(2011)	(2012)

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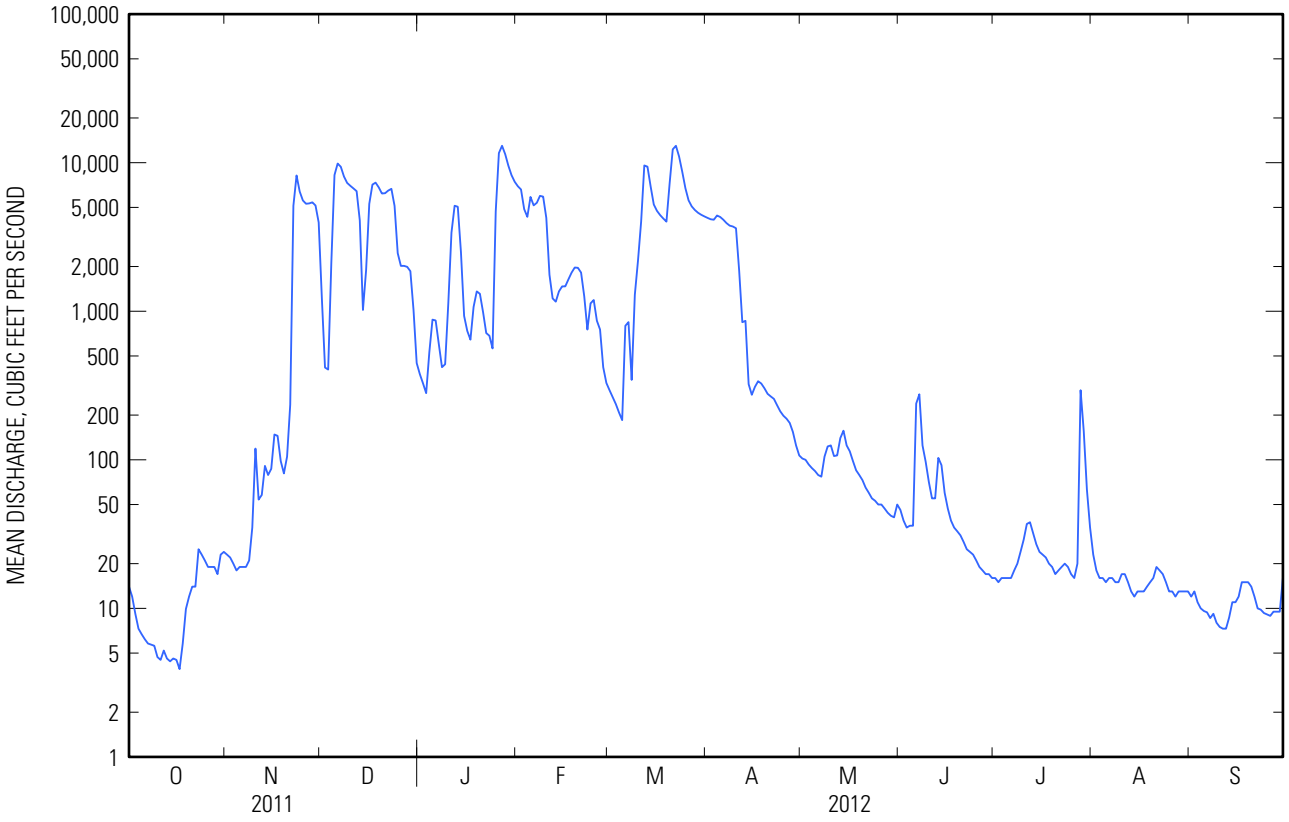
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1971 - 2012	
Annual total	506,477.0		573,370.8			
Annual mean	1,388		1,567		[b]1,821	
Highest annual mean					3,424	1973
Lowest annual mean					364	2006
Highest daily mean	14,400	May 4	13,000	Jan 27	66,800	Dec 11, 1971
Lowest daily mean	3.9	Oct 17	3.9	Oct 17	[c]3.9	Oct 17, 2011
Annual seven-day minimum	4.5	Oct 11	4.5	Oct 11	4.5	Oct 11, 2011
Maximum peak flow			[a]13,300	Jan 27	103,000	Dec 10, 1971
Maximum peak stage			27.82	Mar 22	39.39	Dec 10, 1971
Annual runoff (ac-ft)	1,005,000		1,137,000		1,319,000	
10 percent exceeds	6,200		5,890		5,900	
50 percent exceeds	145		99		511	
90 percent exceeds	9.8		11		41	

[a] Also Mar. 22.
[b] Prior to regulation, water years 1947-68, 1,622 ft^3/s.
[c] Prior to regulation minimum daily discharge, 0.4 ft^3/s, Sept. 15-16, 21 to Oct. 1, 1956.