Water-Data Report 2013

07339000 MOUNTAIN FORK NEAR EAGLETOWN, OK

Red-Little Basin
Mountain Fork Subbasin

LOCATION.--Lat 34°02′30″, long 94°37′11″ referenced to North American Datum of 1927, in SW ¼ SE ¼ SE ¼ sec.7, T.6 S., R.26 E., McCurtain County, OK, Hydrologic Unit 11140108, on right downstream bank on U.S. Highway 70, 2.0 mi west of Eagletown, 10.7 mi downstream from Broken Bow Dam, and at mile 8.9.

DRAINAGE AREA.--800 mi^2, 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.--March 1924 to December 1925, October 1929 to current year. Published as Mountain Fork River near Broken Bow 1924-25 and as Mountain Fork River near Eagletown 1929-60. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 333.87 ft above NGVD of 1929. See WSP 1920 for history of changes prior to July 23, 1950.

REMARKS.--No estimated daily discharges. Records fair. Flow completely regulated except for 33 mi^2 intervening area, since October 1968 by Broken Bow Lake (station 07338900). U.S. Army Corps of Engineers' satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 18-19, 1915, reached a stage of 26.4 ft, from information provided by local resident, discharge, 92,500 ft^3/s.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	258	224	279	393	851	711	1,080	2,410	7,370	461	1,330	192
2	214	434	341	777	475	723	902	1,550	5,370	623	1,420	224
3	162	262	231	683	336	508	833	2,530	4,800	950	935	340
4	229	298	274	634	595	833	2,210	1,110	7,160	1,100	219	343
5	197	221	148	351	667	470	2,580	563	7,190	505	180	629
6	215	404	257	597	748	1,090	1,950	933	6,470	401	274	682
7	143	362	153	574	604	653	2,010	821	7,270	184	654	491
8	161	431	259	661	622	641	3,090	803	7,300	891	1,210	175
9	197	335	147	629	484	453	3,190	779	7,360	2,300	1,000	397
10	222	369	145	728	399	396	2,290	551	7,380	1,930	539	737
11	189	152	222	717	619	792	3,240	593	7,440	1,310	187	810
12	213	140	403	454	606	1,190	3,730	406	2,430	688	276	549
13	192	401	239	790	891	900	3,960	532	1,410	758	374	209
14	148	445	313	540	973	755	3,990	564	957	509	200	262
15	163	372	218	1,550	733	698	4,280	780	471	834	270	153
16	199	254	161	1,280	1,250	468	6,890	744	304	1,430	190	207
17	159	559	283	1,020	1,150	361	4,360	837	1,450	1,650	265	574
18	228	226	212	1,180	1,100	935	4,020	808	2,370	1,460	160	542
19	206	148	266	1,080	914	792	3,810	451	3,040	1,490	170	398
20	197	352	241	943	881	840	3,450	1,060	2,790	898	681	425
21	138	380	399	1,430	843	783	1,430	1,490	1,890	221	1,280	374
22	467	425	253	1,540	843	883	3,870	1,350	534	348	1,100	163
23	378	309	171	1,200	920	477	2,090	2,000	223	516	1,150	211
24	462	288	258	1,030	559	352	2,680	3,860	213	370	590	428
25	364	142	262	1,360	577	884	2,790	2,930	292	353	187	412
26	316	131	215	910	504	1,460	931	3,460	425	827	444	390
27	198	231	438	983	920	1,040	1,400	3,390	777	1,690	1,090	595
28	135	471	230	1,290	1,000	865	666	2,470	593	323	1,450	512
29	310	225	377	1,390	---	949	1,080	1,090	328	220	1,500	191
30	443	334	216	752	---	540	2,880	703	180	518	1,390	173
31	461	---	221	1,540	---	486	---	2,450	---	1,100	690	---
Total	7,564	9,325	7,832	29,006	21,064	22,928	81,682	44,018	95,787	26,858	21,405	11,788
Mean	244	311	253	936	752	740	2,723	1,420	3,193	866	690	393
Max	467	559	438	1,550	1,250	1,460	6,890	3,860	7,440	2,300	1,500	810
Min	135	131	145	351	336	352	666	406	180	184	160	153
Ac-ft	15,000	18,500	15,530	57,530	41,780	45,480	162,000	87,310	190,000	53,270	42,460	23,380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	705	1,106	1,797	1,739	1,760	1,969	1,988	1,961	1,486	1,045	764	597
Max	4,951	6,897	5,286	5,121	4,159	5,623	6,704	7,264	6,061	5,039	1,740	2,300
(WY)	(2010)	(1985)	(1997)	(1988)	(1989)	(1997)	(2008)	(1991)	(1990)	(2007)	(2007)	(1992)
Min	117	110	134	166	116	301	306	313	219	155	238	155
(WY)	(2011)	(1996)	(2011)	(2000)	(2006)	(2011)	(1980)	(2003)	(1988)	(1988)	(1985)	(1989)

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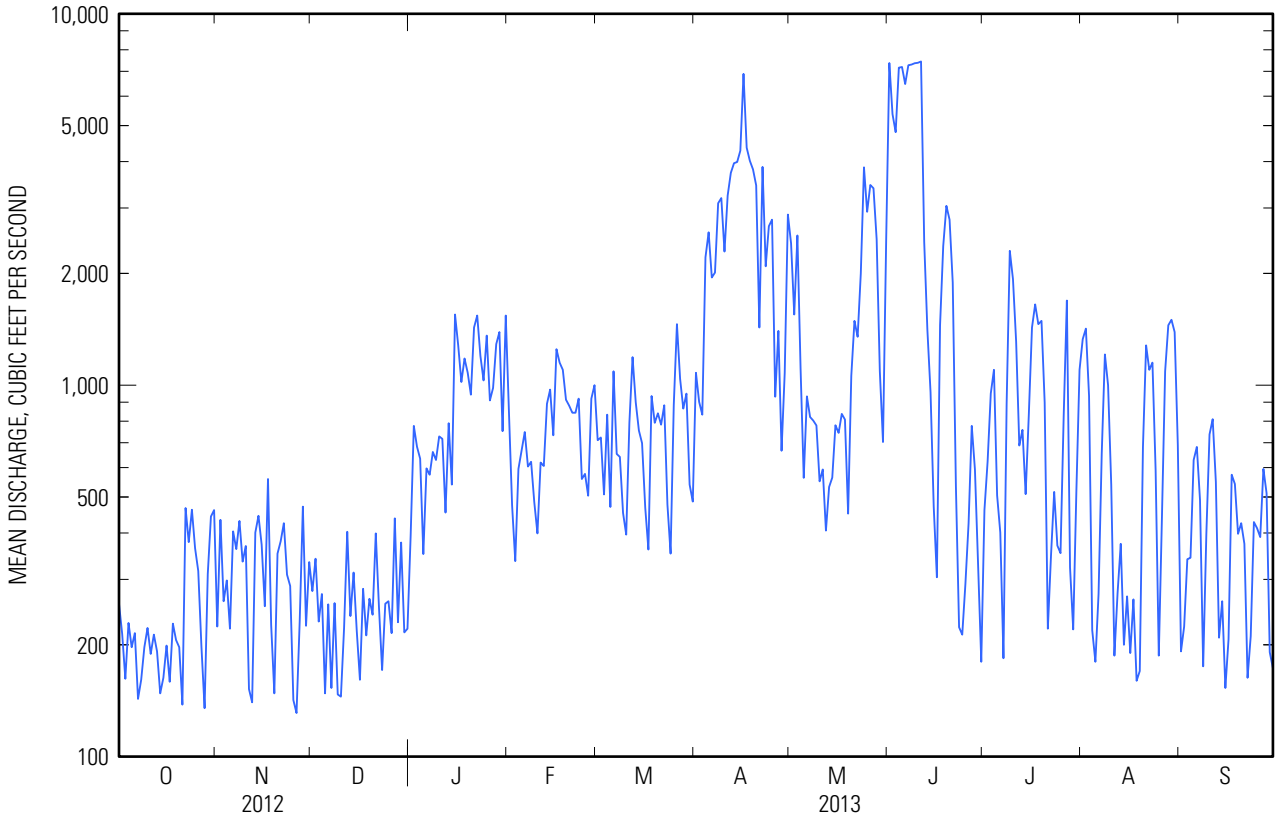
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1970 - 2013	
Annual total	359,067		379,257			
Annual mean	981		1,039		[b]1,409	
Highest annual mean					2,468	1973
Lowest annual mean					342	2006
Highest daily mean	7,230	Apr 10	7,440	Jun 11	12,200	Jul 10, 2007
Lowest daily mean	131	Nov 26	131	Nov 26	[c]16	Dec 12, 1971
Annual seven-day minimum	180	Oct 11	180	Oct 11	68	Jan 12, 1996
Maximum peak flow			7,490	Jun 1[a]	[d]18,400	Jul 10, 2007
Maximum peak stage			7.86	Jun 1[a]	[e]11.63	Jul 10, 2007
Annual runoff (ac-ft)	712,200		752,300		1,020,000	
10 percent exceeds	2,930		2,460		3,860	
50 percent exceeds	323		590		612	
90 percent exceeds	171		197		154	

[a] Also Jun. 11.
[b] Prior to regulation by Broken Bow Lake, 1925, 1930-68, 1,291 ft³/s.
[c] No flow in several years prior to regulation by Broken Bow Lake.
[d] Maximum discharge for period of record, 101,000 ft³/s, May 20, 1960, from rating curve extended above 65,000 ft³/s.
[e] Maximum gage-height for period of record, 26.73 ft, May 20, 1960.