Water-Data Report 2012

07188000 SPRING RIVER NEAR QUAPAW, OK

Neosho Basin
Spring Subbasin

LOCATION.--Lat 36°56′04″, long 94°44′49″ referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.5, T.28 N., R.24 E., Ottawa County, OK, Hydrologic Unit 11070207, near downstream right abutment of county road bridge, 0.1 mi upstream from Rock Creek, 3.0 mi southeast of Quapaw, and atmile 13.9.

DRAINAGE AREA.--2,516 mi^2, revised. From automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1939 to current year.

REVISED RECORDS.--WSP 1117: Drainage area. WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 746.25 ft above NGVD of 1929. Nonrecording gage on right bank at same datum used May 20 to Nov. 16, 1943.

REMARKS.--No estimated daily discharges. Records good. Occasional releases from floodgates at old Riverton Hydroelectric plant, 15 mi upstream. U.S. Army Corps of Engineers' satellite telemeter at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 21	0130	30,800	19.68
May 1	2230	*33,800	*20.57

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 07188000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07188000.2012.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	346	253	815	893	395	836	2,340	28,200	1,020	198	81	249
2	335	256	757	838	383	632	2,140	30,800	975	185	76	350
3	328	301	758	789	386	560	1,970	17,900	865	181	89	292
4	319	311	1,010	754	524	518	1,800	6,100	742	177	96	226
5	314	311	961	728	556	495	1,670	2,560	662	170	101	198
6	307	295	937	712	542	459	1,540	1,930	659	160	115	190
7	298	324	927	695	504	447	1,460	2,550	552	158	125	174
8	289	1,440	904	663	485	437	1,470	3,460	473	189	120	312
9	284	2,760	827	629	456	446	1,340	2,690	430	192	112	302
10	292	2,240	763	613	440	427	1,310	1,780	406	196	105	264
11	306	1,710	719	591	423	480	1,210	1,420	390	172	97	222
12	294	1,390	683	577	409	1,320	1,110	1,230	423	167	92	198
13	295	1,190	682	566	413	1,610	1,150	1,110	443	157	87	174
14	297	1,030	696	548	412	1,100	6,020	1,010	741	151	89	222
15	300	917	736	538	475	813	13,100	934	504	151	95	1,710
16	283	833	723	523	518	678	12,200	873	412	143	92	6,430
17	279	764	727	509	523	600	7,050	813	370	131	92	2,940
18	343	715	762	494	586	549	4,300	761	344	125	88	1,260
19	333	676	801	489	560	650	3,050	720	387	118	85	708
20	317	698	2,240	476	533	22,800	2,760	687	332	112	92	513
21	305	671	4,140	464	522	28,300	2,470	655	336	87	86	420
22	295	720	3,500	459	496	26,100	2,140	617	404	90	84	369
23	289	759	2,400	445	473	21,800	1,950	600	353	97	80	328
24	286	750	1,830	434	447	13,000	1,690	575	349	93	79	314
25	279	745	1,530	440	439	7,190	1,530	563	331	89	85	287
26	273	915	1,360	441	417	4,940	1,420	533	305	86	170	276
27	258	1,500	1,240	442	404	4,100	1,270	511	266	93	257	254
28	254	1,110	1,160	424	380	3,570	1,200	481	241	93	189	240
29	256	1,010	1,090	414	813	3,150	1,610	547	222	83	162	231
30	256	890	1,020	405	---	2,860	12,600	537	208	78	133	221
31	257	---	956	400	---	2,590	---	694	---	83	144	---
Total	9,167	27,484	37,654	17,393	13,914	153,457	96,870	113,841	14,145	4,205	3,398	19,874
Mean	296	916	1,215	561	480	4,950	3,229	3,672	472	136	110	662
Max	346	2,760	4,140	893	813	28,300	13,100	30,800	1,020	198	257	6,430
Min	254	253	682	400	380	427	1,110	481	208	78	76	174
Ac-ft	18,180	54,510	74,690	34,500	27,600	304,400	192,100	225,800	28,060	8,340	6,740	39,420
Cfsm	0.12	0.36	0.48	0.22	0.19	1.97	1.28	1.46	0.19	0.05	0.04	0.26
In.	0.14	0.41	0.56	0.26	0.21	2.27	1.43	1.68	0.21	0.06	0.05	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,623	2,125	1,663	1,611	2,130	3,055	3,485	3,868	3,114	1,744	756	1,400
Max	14,880	14,810	10,720	8,824	13,300	12,050	15,100	26,940	15,350	10,140	8,622	18,390
(WY)	(1987)	(1986)	(1993)	(2005)	(1985)	(1973)	(1945)	(1943)	(2007)	(1976)	(1950)	(1993)
Min	75.8	111	116	116	129	123	169	481	233	34.3	29.3	76.0
(WY)	(1957)	(1954)	(1964)	(1964)	(1954)	(1954)	(1954)	(1964)	(1954)	(1954)	(1954)	(1953)

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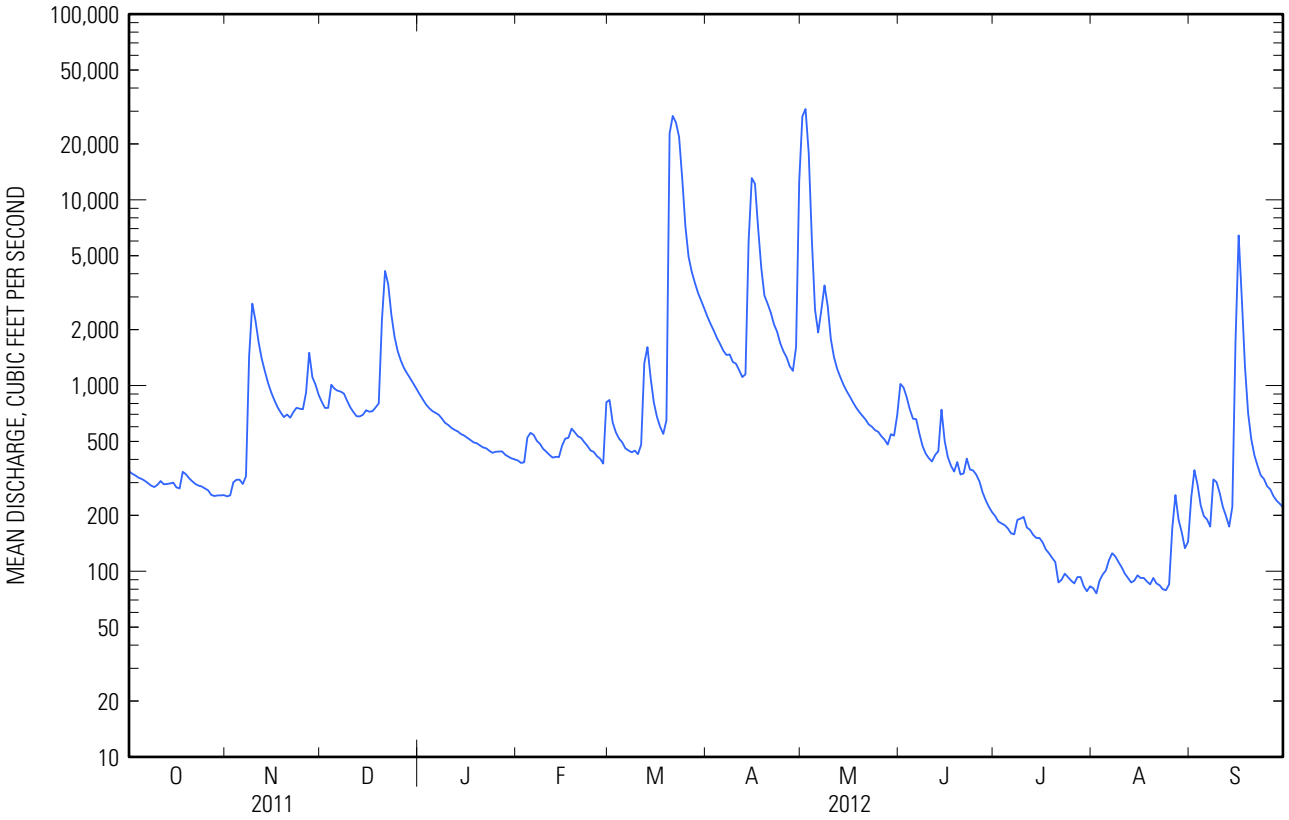
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1940 - 2012	
Annual total	817,111		511,402			
Annual mean	2,239		1,397		2,212	
Highest annual mean					6,623	1993
Lowest annual mean					191	1954
Highest daily mean	51,100	Apr 26	30,800	May 2	210,000	Sep 26, 1993
Lowest daily mean	206	Sep 14	76	Aug 2	5.8	Jul 8, 1954
Annual seven-day minimum	213	Sep 10	83	Jul 28	7.3	Sep 12, 1954
Maximum peak flow			33,800	May 1	230,000	Sep 26, 1993
Maximum peak stage			20.57	May 1	[a]46.60	Sep 26, 1993
Annual runoff (ac-ft)	1,621,000		1,014,000		1,602,000	
Annual runoff (cfsm)	0.890		0.555		0.879	
Annual runoff (inches)	12.08		7.56		11.94	
10 percent exceeds	4,730		2,270		4,440	
50 percent exceeds	750		494		850	
90 percent exceeds	289		119		210	

[a] From floodmark.