07186000 SPRING RIVER NEAR WACO, MO

Neosho Basin
Spring Subbasin

LOCATION.--Lat 37°14'44.2", long 94°33'59.1" referenced to North American Datum of 1983, in SE ¼ SW ¼ SE ¼ sec.7, T.29 N., R.3 W., Jasper County, MO, Hydrologic Unit 11070207, on downstream side of left pier of county highway bridge, 0.8 mi downstream from Blackberry Creek, 1.5 mi east of Waco, and 47.6 mi upstream from mouth.

DRAINAGE AREA.--1,164 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1924 to current year.

REVISED RECORDS.--WSP 1117: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 833.56 ft above North American Vertical Datum of 1988. Prior to Feb. 23, 1935, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 19	0130	14,400	16.73
Apr 28	0045	15,900	17.74
Jun 1	2200	19,000	19.74
Jun 16	1145	17,600	18.94
Jul 31	0915	*22,300	*21.17

Minimum discharge, 54 ft^3/s, Oct. 10, 11, gage height, 1.27 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07186000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07186000.2013.pdf

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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	69	129	79	71	666	1,400	5,140	1,620	16,900	530	4,230	334
2	68	122	78	70	478	1,000	2,420	1,320	15,000	506	2,890	320
3	65	115	79	70	402	789	1,820	1,580	7,420	486	1,940	313
4	63	109	94	69	366	762	1,460	6,240	4,240	476	6,800	298
5	61	104	100	69	335	945	1,220	5,310	2,810	454	9,290	288
6	60	102	97	67	312	733	1,060	2,680	4,950	436	6,920	277
7	59	99	109	66	299	583	936	1,720	2,640	426	8,740	265
8	57	95	115	67	355	516	853	1,420	1,520	413	6,600	252
9	57	93	120	68	399	480	792	1,470	1,240	390	6,940	246
10	56	92	107	70	361	1,330	928	1,630	1,790	370	4,350	236
11	55	101	100	72	343	3,850	6,690	1,430	1,290	352	2,590	226
12	270	116	97	70	338	2,600	5,380	1,170	964	336	1,430	225
13	2,070	125	92	79	324	1,180	2,760	1,020	833	322	1,200	220
14	3,690	143	87	83	346	871	1,300	933	756	312	1,050	207
15	2,590	122	88	87	356	757	1,030	858	2,120	305	956	195
16	946	109	86	94	336	686	949	806	16,200	303	869	194
17	413	100	83	95	316	781	1,000	782	9,270	289	797	207
18	324	97	83	95	301	1,950	9,260	744	6,120	277	741	211
19	277	96	82	93	283	1,760	12,600	705	4,250	267	694	206
20	234	96	80	91	265	972	6,180	5,720	1,940	261	651	219
21	212	93	78	91	280	739	2,970	8,100	1,200	312	606	256
22	193	91	76	89	295	669	1,400	4,560	1,010	377	569	255
23	173	87	74	88	316	644	1,360	1,870	895	436	530	227
24	158	84	72	86	411	691	2,120	1,220	806	707	498	209
25	197	84	70	85	1,170	1,370	1,620	1,010	744	437	476	195
26	177	81	68	87	3,580	1,480	2,260	887	692	356	453	183
27	160	81	69	85	2,970	1,010	13,300	799	648	367	423	174
28	150	80	69	83	2,120	933	12,800	735	617	389	398	177
29	141	80	68	118	---	818	6,800	682	590	388	380	183
30	136	78	69	550	---	1,390	2,980	3,300	552	11,300	365	172
31	133	---	69	839	---	7,740	---	13,200	---	18,100	350	---
Mean	429	100	85.1	121	654	1,336	3,713	2,436	3,667	1,312	2,411	232
Max	3,690	143	120	839	3,580	7,740	13,300	13,200	16,900	18,100	9,290	334
Min	55	78	68	66	265	480	792	682	552	261	350	172
In.	0.43	0.10	0.08	0.12	0.59	1.32	3.56	2.41	3.52	1.30	2.39	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	648	887	688	723	939	1,283	1,543	1,653	1,476	713	430	574
Max	6,997	6,726	4,704	4,125	6,372	5,809	7,542	11,640	8,288	4,323	7,812	10,260
(WY)	(1942)	(1986)	(1993)	(2005)	(1985)	(1973)	(1927)	(1943)	(2007)	(1976)	(1927)	(1993)
Min	21.0	30.5	33.3	29.7	31.0	33.6	38.2	120	73.4	15.2	7.71	22.0
(WY)	(1957)	(1954)	(1964)	(1964)	(1964)	(1954)	(1956)	(1932)	(1954)	(1954)	(1954)	(1956)

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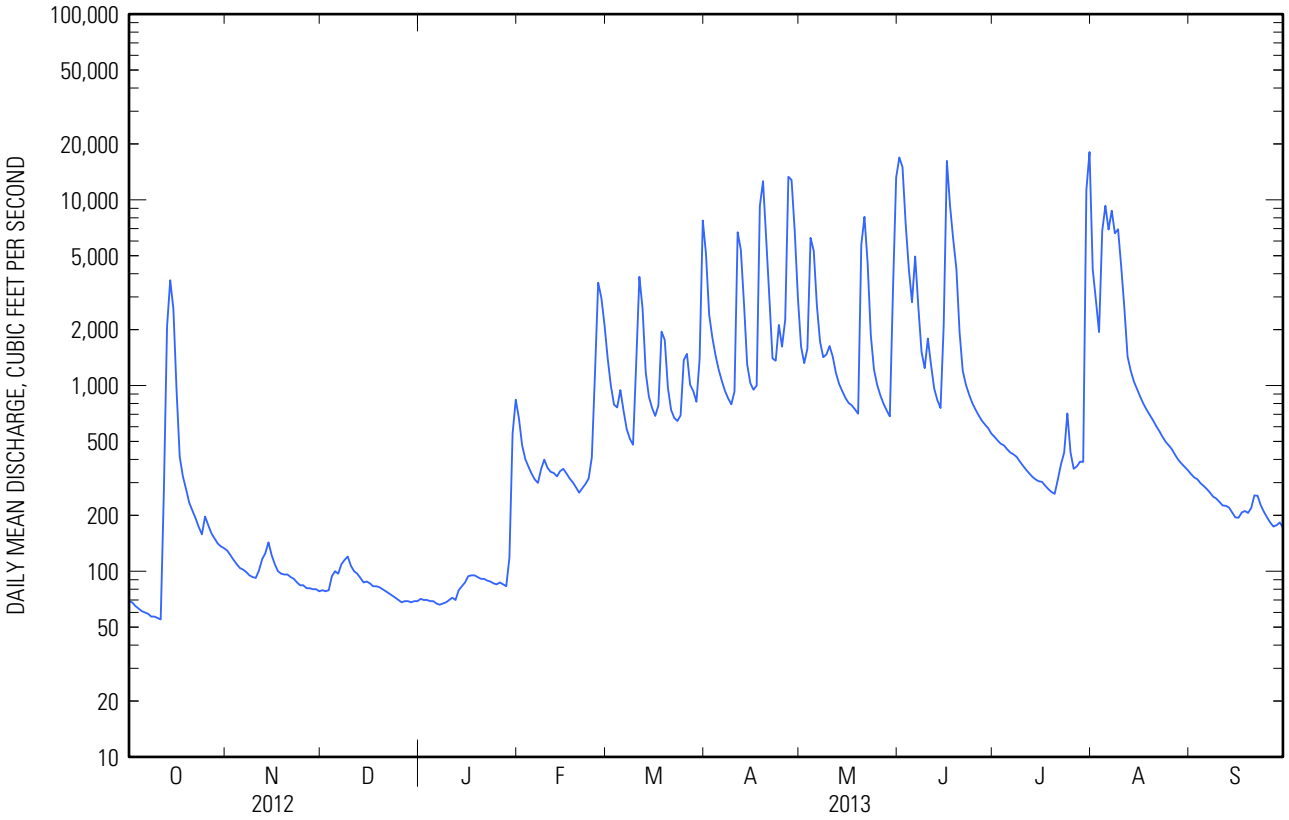
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1924 - 2013	
Annual mean	570		1,375		957	
Highest annual mean					3,093	1993
Lowest annual mean					61.4	1954
Highest daily mean	17,100	May 1	18,100	Jul 31	108,000	Sep 25, 1993
Lowest daily mean	26	Jul 31[a]	55	Oct 11	4.5	Aug 28, 1954
Annual seven-day minimum	28	Aug 19	58	Oct 5	5.0	Sep 2, 1954
Maximum peak flow			22,300	Jul 31	[b]151,000	Sep 26, 1993
Maximum peak stage			21.17	Jul 31	34.06	Sep 26, 1993
Instantaneous low flow			54	Oct 10[c]	4.2	Aug 28, 1954
Annual runoff (inches)	6.66		16.04		11.17	
10 percent exceeds	789		3,750		1,860	
50 percent exceeds	138		380		302	
90 percent exceeds	42		79		64	

[a] Also Aug 24
[b] From rating extended above 85,000 ft³/s.
[c] Also Oct 11



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
OBSERVATION AT 0800
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.36	1.59	1.35	1.31	3.07	4.46	9.71	4.70	18.28	2.52	7.63	2.07
2	1.35	1.56	1.35	1.31	2.56	3.75	5.74	4.16	18.52	2.46	7.10	2.04
3	1.33	1.53	1.35	1.31	2.33	3.28	4.54	4.16	11.36	2.41	4.05	2.03
4	1.32	1.51	1.39	1.30	2.22	3.11	4.03	9.61	8.88	2.38	9.46	1.97
5	1.31	1.48	1.46	1.31	2.15	3.66	3.69	9.57	4.88	2.33	13.22	1.95
6	1.31	1.47	1.42	1.29	2.09	3.19	3.44	6.46	9.34	2.29	10.19	1.93
7	1.30	1.46	1.50	1.28	2.01	2.81	3.23	4.88	6.46	2.25	12.21	1.90
8	1.29	1.44	1.49	1.29	2.11	2.63	3.13	4.31	4.54	2.23	9.90	1.85
9	1.29	1.43	1.56	1.30	2.33	2.52	3.03	4.19	3.98	2.17	11.20	1.83
10	1.29	1.42	1.50	1.31	2.21	2.70	2.94	4.72	5.01	2.12	8.33	1.81
11	1.27	1.42	1.46	1.32	2.13	7.90	10.63	4.39	4.15	2.07	6.42	1.78
12	1.41	1.56	1.45	1.31	2.14	6.71	9.94	3.91	3.50	2.03	4.37	1.78
13	5.76	1.57	1.42	1.34	2.09	4.06	6.95	3.60	3.22	1.99	3.93	1.76
14	7.33	1.67	1.40	1.37	2.14	3.46	4.29	3.43	3.04	1.96	3.69	1.73
15	6.37	1.57	1.40	e1.39	2.19	3.21	3.78	3.25	2.93	1.94	3.47	1.70
16	3.89	1.51	1.39	e1.42	2.14	3.06	3.50	3.15	18.37	1.94	3.32	1.69
17	2.55	1.46	1.38	1.44	2.08	2.97	3.54	3.11	13.65	1.90	3.15	1.72
18	2.31	1.45	1.38	1.44	2.04	4.98	11.52	3.00	10.35	1.86	3.03	1.75
19	2.14	1.44	1.37	1.43	1.98	5.24	16.30	2.94	8.30	1.83	2.92	1.74
20	1.99	1.44	1.36	1.42	1.93	3.70	10.31	7.46	5.36	1.80	2.83	1.76
21	1.90	1.43	1.35	1.42	1.97	3.17	7.11	12.47	3.97	1.81	2.73	1.92
22	1.85	1.42	1.34	1.41	1.99	2.96	4.33	9.00	3.57	2.09	2.65	1.93
23	1.77	1.40	1.33	1.40	2.05	2.91	3.96	5.19	3.34	2.28	2.54	1.82
24	1.72	1.38	1.32	1.39	2.25	2.97	5.42	4.02	3.16	3.09	2.47	1.76
25	1.90	1.38	1.31	1.39	3.54	4.03	4.80	3.56	3.01	2.33	2.42	1.72
26	1.79	1.37	1.30	1.40	7.59	4.76	3.93	3.32	2.90	2.08	2.37	1.69
27	1.72	1.37	1.31	1.38	6.89	3.66	15.24	3.15	2.81	2.11	2.29	1.66
28	1.68	1.36	1.30	1.38	5.71	3.59	16.88	3.00	2.71	2.19	2.24	1.65
29	1.64	1.36	1.30	1.39	---	3.32	10.92	2.88	2.66	2.08	2.20	1.70
30	1.62	1.35	1.30	2.67	---	3.64	6.95	3.11	2.57	14.97	2.17	1.65
31	1.60	---	1.30	3.43	---	12.52	---	16.18	---	21.00	2.12	---
Mean	2.17	1.46	1.38	1.47	2.71	4.03	6.79	5.19	6.49	3.18	5.05	1.81
Max	7.33	1.67	1.56	3.43	7.59	12.52	16.88	16.18	18.52	21.00	13.22	2.07
Min	1.27	1.35	1.30	1.28	1.93	2.52	2.94	2.88	2.57	1.80	2.12	1.65