Water-Data Report 2012

07071000 GREER SPRING AT GREER, MO

Upper White Basin
Eleven Point Subbasin

LOCATION.--Lat 36°47'11.8", long 91°20'51.1" referenced to North American Datum of 1983, in SE ¼ SW ¼ sec.36, T.25 N., R.4 W., Oregon County, MO, Hydrologic Unit 11010011, on right bank 300 ft downstream from lower outlet of spring, 1 mi north of Greer, and 1 mi upstream from Eleven Point River.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August to December 1904, October 1921 to current year. August to December 1904, gage height and discharge measurements only. October to December 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 564.00 ft above National Geodetic Vertical Datum of 1929. Aug. 10 to Dec. 31, 1904, nonrecording gage at site 250 ft downstream at different datum; Nov. 17, 1921, to June 25, 1934, nonrecording gage at site 250 ft downstream at datum 0.74 ft lower than present datum.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 580 ft^3/s, Mar. 23, 24, 25, gage height, 1.27 ft; minimum discharge, 235 ft^3/s, on several days.

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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	391	338	356	441	454	438	521	406	349	292	261	247
2	389	334	352	435	448	438	512	404	347	291	258	246
3	389	333	348	430	440	435	504	397	344	288	254	244
4	386	333	350	426	481	430	492	395	339	296	252	243
5	384	333	385	419	514	427	491	390	338	292	251	239
6	383	326	395	416	516	422	484	393	338	292	248	239
7	379	324	392	411	511	422	475	394	338	292	248	238
8	375	325	386	409	503	423	469	395	335	289	248	235
9	375	335	378	409	498	437	465	392	333	288	248	237
10	373	337	371	406	497	438	459	384	333	288	248	239
11	370	333	365	410	486	439	454	384	332	288	245	239
12	370	331	364	412	477	472	449	380	328	288	244	239
13	370	329	360	408	471	487	449	383	324	284	248	237
14	370	329	359	402	469	487	443	384	324	281	248	235
15	366	325	449	396	465	479	440	382	320	279	244	235
16	366	324	464	400	468	486	438	375	320	279	244	237
17	366	323	459	400	470	493	435	375	320	279	244	239
18	363	320	447	395	470	492	433	374	318	279	244	240
19	361	320	439	391	470	488	429	370	315	276	244	239
20	360	320	438	389	466	479	427	371	315	274	244	239
21	356	334	448	385	465	475	422	370	315	274	244	238
22	356	389	446	383	465	516	424	365	315	271	245	238
23	356	409	441	385	465	569	422	362	310	269	244	235
24	353	398	430	383	461	580	422	361	306	266	244	235
25	352	388	423	390	452	579	421	361	306	266	244	235
26	352	378	426	450	446	572	416	361	301	266	241	235
27	352	374	434	472	443	564	408	361	300	265	241	244
28	351	370	449	473	441	557	406	357	297	261	239	262
29	343	368	453	469	438	549	405	355	297	261	239	266
30	343	363	452	463	---	542	406	352	296	261	239	266
31	340	---	448	458	---	532	---	352	---	261	242	---
Mean	366	345	410	417	471	489	447	377	322	279	246	241
Max	391	409	464	473	516	580	521	406	349	296	261	266
Min	340	320	348	383	438	422	405	352	296	261	239	235

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	262	289	312	331	352	400	446	450	403	339	298	272
Max	450	586	750	648	652	674	724	776	861	611	563	503
(WY)	(2010)	(1985)	(1928)	(1928)	(1949)	(1975)	(1927)	(1927)	(1927)	(1945)	(1927)	(1928)
Min	111	111	113	108	144	152	180	143	140	127	122	120
(WY)	(1957)	(1955)	(1956)	(1956)	(1981)	(1981)	(1936)	(1936)	(1936)	(1936)	(1936)	(1955)

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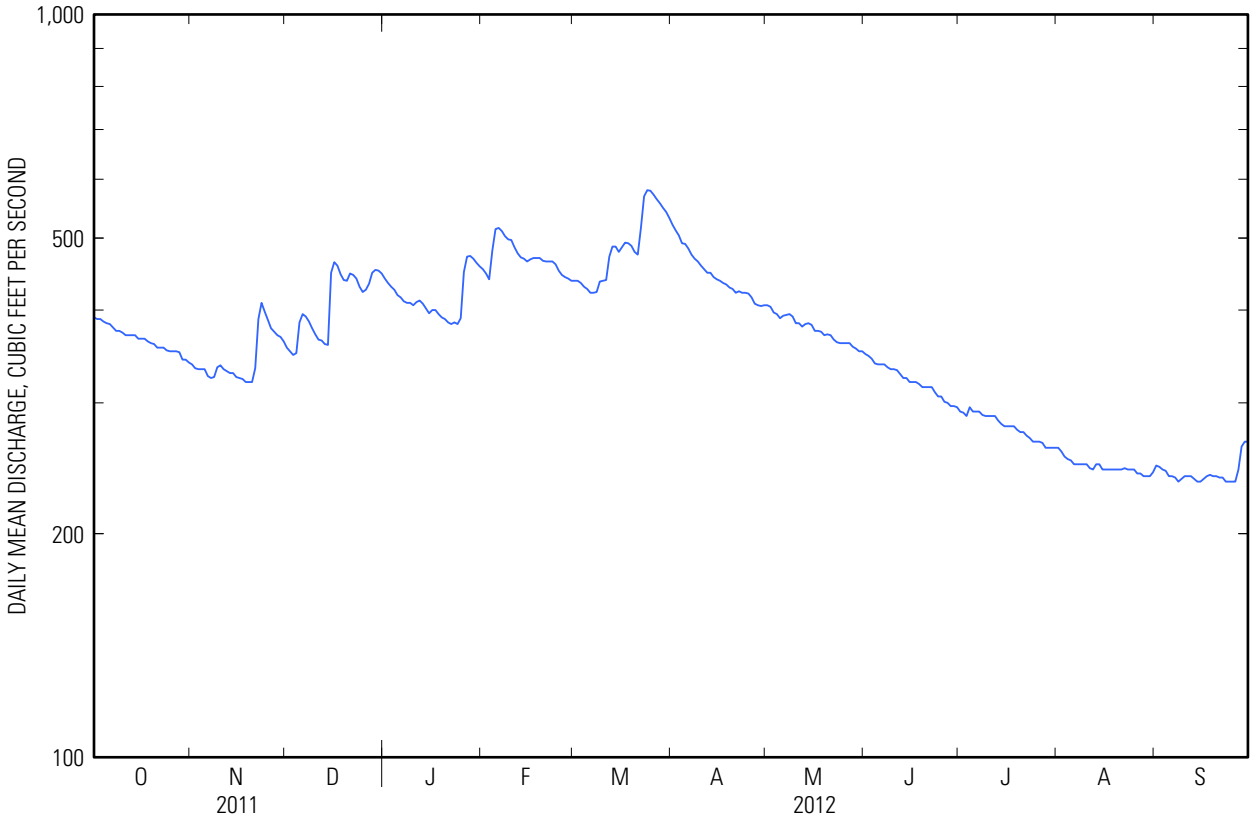
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1922 - 2012	
Annual mean	424		367		346	
Highest annual mean					566	1928
Lowest annual mean					174	1956
Highest daily mean	972	Apr 26	580	Mar 24	1,010	Dec 3, 1982
Lowest daily mean	197	Feb 23	235	Sep 8 [a]	104	Nov 16, 1956
Annual seven-day minimum	201	Feb 17	236	Sep 20	105	Nov 13, 1956
Maximum peak flow			580	Mar 23 [b]	1,770	Dec 3, 1982
Maximum peak stage			1.27	Mar 23 [b]	2.97	Dec 3, 1982
Instantaneous low flow			235	Several days	104	Nov 16, 1956
10 percent exceeds	684		472		546	
50 percent exceeds	392		370		329	
90 percent exceeds	221		244		175	

[a] Also Sep 14, 15, 23-26
[b] Also Mar 24, 25



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
OBSERVATION AT 0800
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.95	0.85	0.94	1.08	1.05	1.01	1.16	0.98	0.92	0.82	0.78	0.73
2	0.95	0.84	0.93	1.06	1.04	1.00	1.15	0.98	0.91	0.82	0.78	0.73
3	0.95	0.84	0.92	1.05	1.03	1.00	1.13	0.97	0.91	0.82	0.77	0.72
4	0.95	0.84	0.92	1.04	1.09	0.99	1.11	0.97	0.91	0.84	0.77	0.72
5	0.94	0.84	0.99	1.03	1.16	0.98	1.10	0.96	0.90	0.83	0.77	0.71
6	0.94	0.82	1.02	1.02	1.16	0.97	1.09	0.97	0.90	0.83	0.76	0.71
7	0.93	0.82	1.02	1.01	1.15	0.97	1.07	0.97	0.90	0.83	0.76	0.70
8	0.92	0.82	1.01	1.01	1.14	0.97	1.06	0.97	0.89	0.82	0.76	0.70
9	0.92	0.84	0.99	1.00	1.13	1.00	1.06	0.97	0.89	0.82	0.76	0.70
10	0.92	0.85	0.97	0.99	1.12	1.00	1.05	0.96	0.89	0.82	0.76	0.70
11	0.91	0.84	0.96	1.00	1.10	1.00	1.04	0.96	0.89	0.82	0.75	0.70
12	0.91	0.84	0.95	1.00	1.09	1.05	1.03	0.95	0.89	0.82	0.75	0.70
13	0.91	0.83	0.94	1.00	1.07	1.09	1.03	0.96	0.88	0.82	0.75	e0.70
14	0.91	0.83	0.93	0.98	1.06	1.09	1.02	0.96	0.88	0.81	0.75	e0.69
15	0.90	0.82	1.12	0.97	1.05	1.09	1.02	0.96	0.87	0.81	0.74	e0.69
16	0.90	0.82	1.14	0.97	1.05	1.07	1.02	0.95	0.87	0.81	0.74	e0.69
17	0.90	0.82	1.13	0.97	1.06	1.11	1.02	0.95	0.87	0.81	0.74	0.70
18	0.90	0.81	1.11	0.96	1.06	1.11	1.01	0.95	0.87	0.81	0.74	0.70
19	0.89	0.81	1.09	0.95	1.06	1.09	1.00	0.94	0.86	0.80	0.74	0.69
20	0.89	0.81	1.07	0.95	1.05	1.08	1.00	0.94	0.86	0.80	0.74	0.69
21	0.88	0.85	1.10	0.94	1.05	1.06	1.00	0.94	0.86	0.80	0.74	0.68
22	0.88	0.98	1.10	0.94	1.05	1.13	1.00	0.94	0.86	0.79	0.73	0.69
23	0.88	1.05	1.09	0.93	1.05	1.26	1.00	0.93	0.85	0.79	0.73	0.68
24	0.88	1.03	1.07	0.93	1.04	1.27	1.00	0.93	0.85	0.79	0.73	0.68
25	0.87	1.01	1.05	0.92	1.03	1.27	1.00	0.93	0.85	0.79	0.73	0.68
26	0.87	0.99	1.05	1.04	1.02	1.26	0.99	0.93	0.84	0.79	0.73	0.68
27	0.87	0.98	1.05	1.09	1.01	1.24	0.98	0.93	0.84	0.79	0.72	0.69
28	0.87	0.97	1.09	1.10	1.01	1.23	0.98	0.93	0.83	0.78	0.72	0.73
29	0.86	0.97	1.10	1.09	1.00	1.22	0.97	0.93	e0.83	0.78	0.72	0.74
30	0.86	0.96	1.10	1.08	---	1.20	0.98	0.92	0.83	0.78	0.72	0.74
31	0.86	---	1.09	1.06	---	1.18	---	0.92	---	0.78	0.72	---