Water-Data Report 2012

06928000 GASCONADE RIVER NEAR HAZELGREEN, MO

Lower Missouri Basin
Gasconade Subbasin

LOCATION.--Lat 37°45′33″, long 92°27′06″ referenced to North American Datum of 1927, in SW ¼ SE ¼ SE ¼ sec.15, T.35 N., R.14 W., Laclede County, MO, Hydrologic Unit 10290201, on downstream end of center pier of bridge on south outer road, 400 ft upstream from eastbound bridge of Interstate 44, 1 mi downstream from Osage Fork, 1.5 mi west of Hazelgreen, and at mile 180.

DRAINAGE AREA.--1,250 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to September 1971, October 2000 to current year. Prior to April 1929 monthly discharge only published in WSP 1310.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 844.75 ft above National Geodetic Vertical Datum of 1929. Prior to March 6, 1956, nonrecording gage at present site and datum. March 6, 1956 to Dec. 17, 1957, nonrecording gage at site 750 ft downstream at present datum and Dec. 18, 1957 to Aug. 20, 1958, nonrecording gage at present site and datum. Aug. 20, 1958 to September 1971, water-stage recorder at present site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 4, 1982 reached a stage of 34.46 ft, discharge 87,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 22	1600	*48,100	*25.96

Minimum discharge, 47 ft^3/s, July 28, 29, gage height, 0.63 ft.

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 06928000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/06928000.2012.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	185	101	680	865	852	603	1,380	463	191	74	50	82
2	171	100	602	779	764	596	1,230	458	184	71	50	90
3	158	110	536	704	702	594	1,110	520	179	68	50	90
4	149	109	493	643	1,390	562	1,010	476	184	66	51	89
5	141	106	461	598	2,200	531	1,660	430	192	63	59	85
6	134	103	612	562	2,500	500	1,230	395	176	61	61	86
7	127	130	928	532	1,880	474	999	369	161	61	61	102
8	121	167	813	503	1,510	460	869	344	151	63	57	114
9	116	268	697	473	1,260	437	775	322	143	69	54	108
10	112	560	607	445	1,100	420	708	304	136	68	51	110
11	110	715	536	426	981	412	650	289	198	63	51	99
12	125	677	478	414	881	416	603	277	159	61	53	91
13	126	561	456	405	810	410	594	266	167	79	54	85
14	126	474	508	394	761	447	1,030	254	167	91	54	88
15	143	407	882	379	843	515	1,210	244	172	96	54	102
16	156	355	2,170	364	1,490	510	1,650	234	176	94	54	112
17	152	309	2,410	352	2,600	497	1,480	224	164	96	66	111
18	175	276	1,670	339	2,210	490	1,290	215	149	97	64	194
19	173	250	1,330	327	1,790	497	1,070	207	190	85	116	227
20	162	276	1,660	318	1,500	574	924	200	188	77	154	242
21	152	270	2,760	309	1,290	14,500	813	193	151	69	116	216
22	143	746	3,190	301	1,140	37,200	727	183	131	64	94	187
23	135	972	2,200	294	1,040	24,200	665	175	118	60	82	165
24	128	1,580	1,670	288	950	9,800	611	169	109	57	73	147
25	122	1,260	1,350	295	866	5,830	571	164	103	54	68	132
26	117	1,030	1,160	331	781	3,960	537	159	97	52	67	130
27	116	1,040	1,060	771	707	2,950	507	152	91	51	65	128
28	114	888	1,010	1,540	651	2,380	494	145	86	48	64	126
29	109	831	1,090	1,340	622	2,010	478	332	82	51	59	121
30	105	765	1,030	1,110	---	1,750	469	191	77	57	54	120
31	102	---	945	958	---	1,560	---	197	---	53	69	---
Mean	136	515	1,161	560	1,244	3,745	911	276	149	68.4	66.9	126
Max	185	1,580	3,190	1,540	2,600	37,200	1,660	520	198	97	154	242
Min	102	100	456	288	622	410	469	145	77	48	50	82
In.	0.13	0.46	1.07	0.52	1.07	3.45	0.81	0.25	0.13	0.06	0.06	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2012[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	496	649	730	1,013	1,236	1,701	1,856	1,918	1,027	503	278	409
Max	4,943	4,273	3,361	4,805	3,668	7,594	10,180	7,340	8,710	5,322	1,467	3,000
(WY)	(1950)	(1952)	(1943)	(1950)	(2008)	(2008)	(1945)	(1943)	(1935)	(1958)	(1946)	(2008)
Min	31.6	65.8	72.6	68.0	91.2	141	130	202	83.2	41.8	30.8	25.6
(WY)	(1957)	(1954)	(1956)	(1956)	(1964)	(1956)	(1956)	(1932)	(1936)	(1934)	(1936)	(1954)

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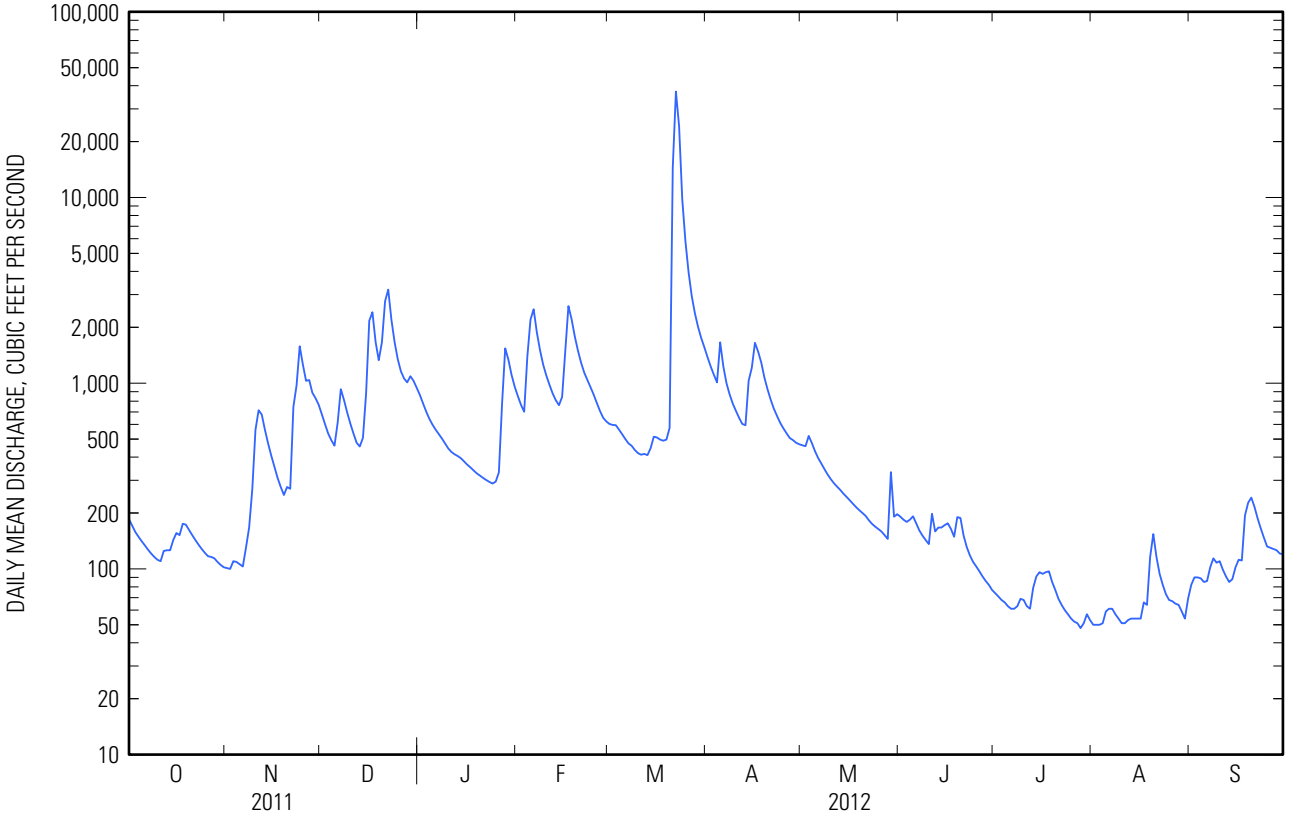
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1929 - 2012[a]	
Annual mean	1,726		747		983	
Highest annual mean					2,236	1950
Lowest annual mean					123	1954
Highest daily mean	56,100	Apr 26	37,200	Mar 22	64,900	Mar 19, 2008
Lowest daily mean	100	Nov 2	48	Jul 28	19	Sep 20, 1954
Annual seven-day minimum	104	Oct 31	51	Jul 28	21	Sep 14, 1954
Maximum peak flow			48,100	Mar 22	89,500	Mar 19, 2008
Maximum peak stage			25.96	Mar 22	34.92	Mar 19, 2008
Instantaneous low flow			47	Jul 28[b]	18	Aug 1, 1936
Annual runoff (inches)	18.74		8.14		10.68	
10 percent exceeds	3,810		1,340		2,070	
50 percent exceeds	536		276		352	
90 percent exceeds	135		65		87	

[a] For Period of Record
[b] Also Jul 29



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
OBSERVATION AT 0800

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.40	1.22	2.83	3.04	3.00	2.51	3.76	2.05	1.28	0.80	0.65	0.83
2	1.34	1.21	2.66	2.87	2.84	2.49	3.54	2.02	1.25	0.78	0.65	0.88
3	1.30	1.27	2.52	2.73	2.70	2.49	3.32	2.18	1.23	0.76	0.65	0.89
4	1.26	1.26	2.42	2.60	3.76	2.43	3.16	2.07	1.23	0.75	0.65	0.89
5	1.23	1.25	2.33	2.51	4.45	2.36	4.62	1.97	1.28	0.73	0.71	0.87
6	1.20	1.23	2.35	2.43	5.33	2.30	3.54	1.88	1.23	0.72	0.72	0.86
7	1.17	1.36	3.27	2.36	4.54	2.23	3.17	1.81	1.17	0.71	0.72	0.92
8	1.14	1.46	3.08	2.30	4.07	2.22	2.94	1.74	1.13	0.73	0.70	1.02
9	1.12	1.72	2.87	2.24	3.69	2.15	2.77	1.68	1.09	0.78	0.68	0.95
10	1.10	2.35	2.68	2.16	3.44	2.10	2.64	1.63	1.07	0.77	0.66	0.99
11	1.09	2.79	2.53	2.12	3.24	2.06	2.52	1.59	1.05	0.73	0.65	0.93
12	1.18	2.84	2.40	2.09	3.04	2.09	2.43	1.55	1.19	0.72	0.67	0.90
13	1.20	2.60	2.32	2.06	2.91	2.07	2.37	1.52	1.19	0.79	0.68	0.86
14	1.23	2.39	2.35	2.04	2.83	2.09	2.64	1.48	1.21	0.89	0.67	0.85
15	1.32	2.22	3.11	2.00	2.78	2.33	3.43	1.45	1.22	0.91	0.67	0.90
16	1.41	2.10	4.06	1.96	3.64	2.31	4.26	1.42	1.25	0.91	0.66	0.99
17	1.43	1.96	5.28	1.93	5.35	2.27	3.88	1.38	1.21	0.87	0.75	0.99
18	1.54	1.86	4.34	1.90	4.97	2.25	3.62	1.36	1.15	0.93	0.74	1.26
19	1.53	1.78	3.83	1.86	4.41	2.28	3.23	1.33	1.14	0.86	0.71	1.41
20	1.48	1.82	4.28	1.83	4.04	2.28	2.97	1.31	1.31	0.81	1.19	1.49
21	1.44	1.86	4.95	1.81	3.71	13.11	2.76	1.28	1.16	0.77	1.02	1.41
22	1.40	3.13	6.08	1.79	3.50	21.14	2.59	1.25	1.07	0.75	0.92	1.31
23	1.37	3.24	4.97	1.77	3.33	19.69	2.47	1.22	1.01	0.72	0.85	1.22
24	1.34	4.29	4.29	1.75	3.18	11.22	2.37	1.20	0.97	0.70	0.80	1.16
25	1.32	3.83	3.84	1.74	3.02	8.42	2.28	1.18	0.94	0.68	0.76	1.10
26	1.29	3.38	3.51	1.83	2.87	6.75	2.21	1.16	0.91	0.67	0.77	1.10
27	1.29	3.47	3.35	2.23	2.72	5.74	2.13	1.13	0.89	0.66	0.75	1.07
28	1.28	3.19	3.22	4.10	2.62	5.11	2.10	1.10	0.86	0.64	0.75	1.06
29	1.26	3.08	3.41	3.82	2.53	4.62	2.06	2.28	0.84	0.64	0.72	1.04
30	1.24	2.96	3.31	3.46	---	4.29	2.03	1.28	0.82	0.70	0.69	1.03
31	1.22	---	3.17	3.20	---	4.02	---	1.30	---	0.68	0.77	---
Mean	1.29	2.30	3.41	2.34	3.53	4.82	2.93	1.54	1.11	0.76	0.74	1.04
Max	1.54	4.29	6.08	4.10	5.35	21.14	4.62	2.28	1.31	0.93	1.19	1.49
Min	1.09	1.21	2.32	1.74	2.53	2.06	2.03	1.10	0.82	0.64	0.65	0.83