Water-Data Report 2012

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO

Lower Missouri Basin
Chariton Subbasin

LOCATION.--Lat 39°32'23.8", long 92°47'26.7" referenced to North American Datum of 1983, in NW ¼ SW ¼ sec.26, T.55 N., R.17 W., Chariton County, MO, Hydrologic Unit 10280202, on right bank on downstream side of road at bridge on State Highway 129, 3.2 mi northwest of Prairie Hill, 13.5 mi upstream from Puzzle Creek, and at mile 19.6.

DRAINAGE AREA.--1,870 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to Oct. 1, 1953, published as Chariton River near Keytesville (06905600). Prior to May 1929, monthly discharge only, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 632.05 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to Oct. 1, 1953, nonrecording gage at site 8.2 mi downstream at datum 13.68 ft lower; Oct. 1, 1953, to July 2, 1958, nonrecording gage at present site and datum.

REMARKS.--Records poor. Some regulation by Rathbun Reservior (station 06903880) 122 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 3	1030	*10,600	*13.65

Minimum discharge, 34 ft^3/s, Sept. 22, gage height, 0.85 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 06905500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/06905500.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	80	78	108	256	176	854	638	2,410	117	59	50	103
2	87	82	102	242	186	744	482	1,360	124	58	47	110
3	87	119	104	184	192	549	393	8,420	111	59	47	88
4	87	125	117	199	821	522	333	4,190	106	58	46	67
5	84	156	205	224	1,730	476	338	2,480	101	53	45	55
6	80	140	298	225	1,320	409	629	2,010	96	53	40	48
7	80	141	230	244	789	354	449	3,250	92	52	40	43
8	80	226	208	193	559	463	377	2,170	87	54	39	42
9	81	261	180	160	439	830	365	1,360	83	60	45	38
10	78	335	146	148	345	793	342	1,130	78	52	43	38
11	78	394	128	140	234	676	285	1,030	81	49	42	37
12	80	297	113	132	180	546	243	956	77	49	42	36
13	93	240	119	e118	207	570	1,020	956	73	49	42	36
14	85	190	200	e151	241	568	4,430	736	71	50	44	38
15	79	159	2,890	138	247	587	2,740	576	69	52	45	39
16	85	138	2,450	142	263	493	1,900	537	72	65	46	43
17	84	123	1,120	142	287	384	1,050	510	76	55	44	45
18	95	111	766	e121	286	331	769	462	84	49	40	43
19	92	102	629	e114	272	291	564	360	90	49	40	43
20	81	94	1,210	e149	248	525	467	325	144	45	41	41
21	73	90	1,050	e208	229	3,490	392	304	121	45	41	37
22	72	94	750	229	221	4,630	334	236	108	45	40	35
23	73	90	575	184	214	3,130	302	183	87	44	40	37
24	72	90	487	150	219	2,120	274	162	76	43	39	40
25	73	87	435	145	217	1,320	246	153	71	41	39	46
26	76	133	397	140	217	915	228	149	69	49	43	62
27	74	192	319	141	223	670	204	179	64	49	47	62
28	73	157	290	138	222	530	189	157	62	52	53	46
29	73	136	273	138	584	1,500	358	133	63	50	68	40
30	74	115	267	150	---	2,090	2,160	120	61	50	52	41
31	76	---	259	165	---	1,070	---	117	---	50	58	---
Mean	80.2	156	530	168	392	1,046	750	1,197	87.1	51.2	44.8	49.3
Max	95	394	2,890	256	1,730	4,630	4,430	8,420	144	65	68	110
Min	72	78	102	114	176	291	189	117	61	41	39	35
In.	0.05	0.09	0.33	0.10	0.23	0.65	0.45	0.74	0.05	0.03	0.03	0.03

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	770	816	776	738	1,122	1,916	2,066	2,163	2,167	1,566	821	844
Max	5,695	6,574	5,449	4,516	4,102	5,724	8,981	9,560	14,830	15,980	4,856	7,727
(WY)	(1974)	(1962)	(1983)	(1946)	(1937)	(1973)	(1973)	(1995)	(1947)	(1993)	(1932)	(2008)
Min	9.59	9.77	13.0	12.9	18.1	37.3	45.9	69.8	25.8	13.4	7.97	13.6
(WY)	(1957)	(1957)	(1957)	(1957)	(1957)	(1957)	(1956)	(2000)	(1934)	(1934)	(1936)	(1953)

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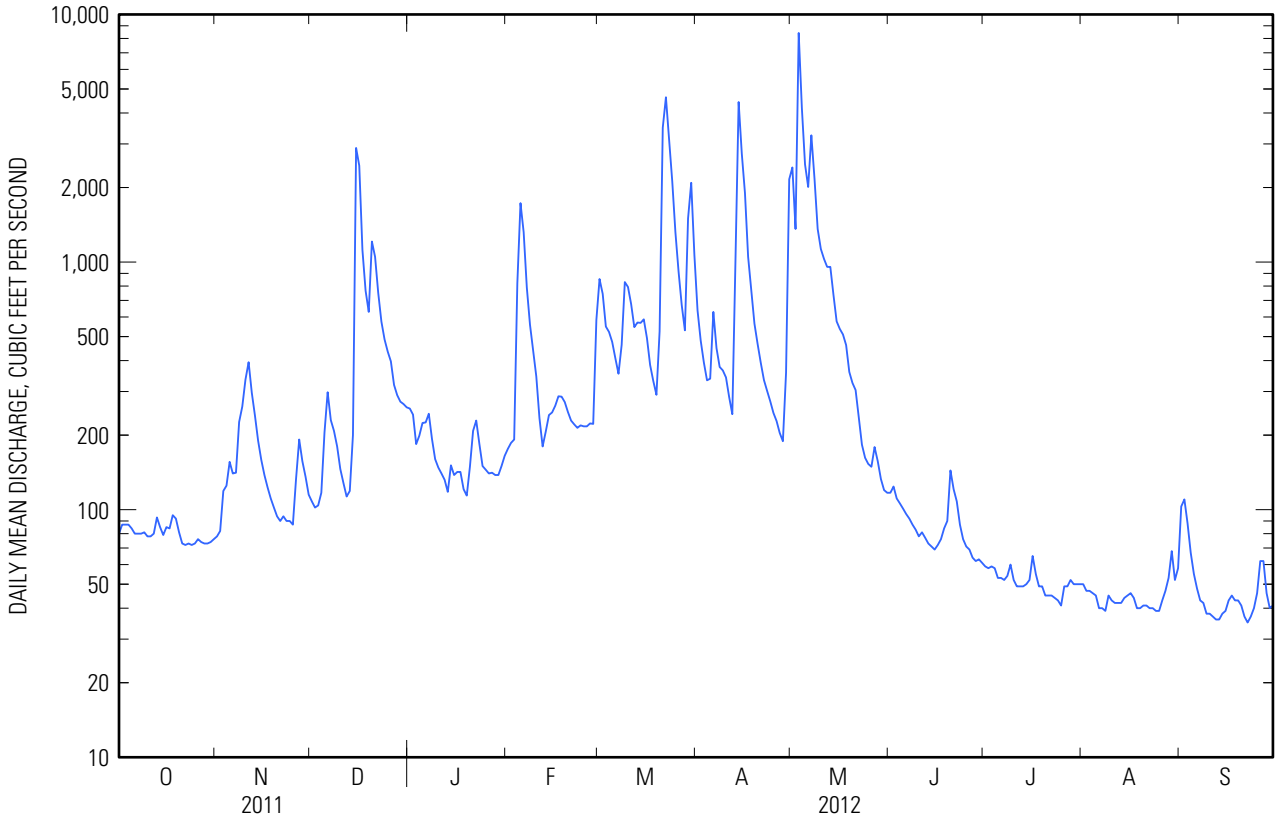
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1929 - 2012	
Annual mean	1,483		381		1,313	
Highest annual mean					4,561	2010
Lowest annual mean					159	2000
Highest daily mean	20,100	Jun 28	8,420	May 3	37,700	Jul 27, 2008
Lowest daily mean	72	Oct 22 [a]	35	Sep 22	4.6	Aug 7, 1934
Annual seven-day minimum	73	Oct 21	37	Sep 9	4.8	Aug 4, 1934
Maximum peak flow			10,600	May 3	38,400	Jul 27, 2008
Maximum peak stage			13.65	May 3	23.27	Jul 27, 2008
Instantaneous low flow			34	Sep 22	4.6	Aug 7, 1934
Annual runoff (inches)	10.77		2.77		9.54	
10 percent exceeds	3,610		837		3,260	
50 percent exceeds	617		138		389	
90 percent exceeds	90		43		42	

[a] Also Oct 24



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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	1.13	1.13	1.39	1.99	1.71	2.97	3.01	5.73	1.36	1.01	0.95	1.24
2	1.17	1.14	1.37	1.96	1.76	3.25	2.63	4.66	1.42	1.01	0.93	1.33
3	1.16	1.33	1.36	1.80	1.71	2.76	2.39	13.45	1.34	1.01	0.94	1.22
4	1.17	1.35	1.42	1.76	2.63	2.70	2.23	8.57	1.31	1.01	0.93	1.09
5	1.16	1.51	1.57	1.93	4.87	2.62	2.20	6.39	1.29	0.98	0.92	1.00
6	1.14	1.47	2.11	1.89	4.44	2.44	3.24	5.83	1.26	0.97	0.89	0.96
7	1.13	1.42	1.83	1.97	3.35	2.29	2.51	8.10	1.24	0.96	0.90	0.91
8	1.14	1.78	1.77	1.80	2.82	2.21	2.33	6.41	1.21	0.97	0.89	0.92
9	1.14	1.88	1.69	1.66	2.52	3.37	2.31	4.77	1.18	1.01	0.91	0.89
10	1.13	2.06	1.54	1.62	2.29	e3.29	2.26	4.23	1.16	0.95	0.92	0.88
11	1.13	2.37	1.46	1.57	1.97	e3.12	2.10	4.02	1.20	0.95	0.91	0.87
12	1.13	2.08	1.38	1.59	1.60	e2.73	1.96	3.84	1.16	0.94	0.90	0.86
13	1.18	1.90	1.40	---	1.94	e2.78	1.91	3.77	1.12	0.94	0.91	0.86
14	1.16	1.73	1.53	---	1.89	e2.81	8.94	3.42	1.11	0.95	0.91	0.87
15	1.14	1.61	5.87	---	1.97	e2.90	6.39	2.94	1.09	0.95	0.92	0.89
16	1.16	1.52	6.45	1.60	1.99	e2.59	5.50	2.84	1.10	1.05	0.93	0.92
17	1.16	1.46	4.01	1.56	2.08	e2.37	3.77	2.76	1.14	1.00	0.92	0.93
18	1.20	1.41	3.26	---	2.08	e2.22	3.30	2.67	1.17	0.94	0.89	0.91
19	1.21	1.36	2.94	1.42	2.05	e2.10	2.84	2.34	1.21	0.94	0.91	0.91
20	1.16	1.33	4.00	---	1.98	e2.34	2.60	2.21	1.55	0.92	0.90	0.91
21	1.11	1.31	3.84	---	1.89	5.86	2.40	2.16	1.39	0.92	0.90	0.87
22	1.11	1.35	3.26	---	1.88	8.77	2.23	1.95	1.34	0.92	0.89	0.86
23	1.10	1.31	2.84	1.78	1.86	e6.99	2.14	1.70	1.20	0.92	0.90	0.87
24	1.10	1.31	2.62	e1.59	1.86	5.72	2.06	1.59	1.14	0.91	0.89	0.89
25	1.11	1.29	2.49	1.60	1.85	4.37	1.97	1.54	1.11	0.90	0.88	0.93
26	1.12	1.36	2.42	1.58	1.85	3.59	1.91	1.52	1.08	0.94	0.93	1.01
27	1.11	1.75	2.21	1.57	1.87	3.07	1.83	1.66	1.05	0.94	0.94	1.04
28	1.11	1.60	2.09	1.60	1.87	2.75	1.77	1.59	1.04	0.96	0.96	0.94
29	1.12	1.53	2.04	1.63	2.06	2.61	1.76	1.46	1.05	0.97	1.10	0.89
30	1.12	1.43	2.02	1.69	---	5.38	6.98	1.39	1.03	0.96	0.98	0.90
31	1.12	---	1.99	1.71	---	3.96	---	1.38	---	0.95	0.93	---
Mean	1.14	1.54	2.46	---	2.23	3.45	2.98	3.77	1.20	0.96	0.92	0.95
Max	1.21	2.37	6.45	---	4.87	8.77	8.94	13.45	1.55	1.05	1.10	1.33
Min	1.10	1.13	1.36	---	1.60	2.10	1.76	1.38	1.03	0.90	0.88	0.86