Water-Data Report 2012

06910750 MOREAU RIVER NEAR JEFFERSON CITY, MO

Lower Missouri Basin
Moreau Subbasin

LOCATION.--Lat 38°31'44.5", long 92°11'31.3" referenced to North American Datum of 1983, in SE ¼ NW ¼ SE ¼ sec.25, T.44 N., R.11 W., Cole County, MO, Hydrologic Unit 10300102, near right bank on downstream side of right pier of bridge on Tanner Bridge Road, 3 mi south of Jefferson City, 15.8 mi downstream from confluence of North and South Moreau Creeks, and at mile 17.

DRAINAGE AREA.--561 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1947 to September 1974, Nov. 13, 2000 to current year. Published as Moureau River near Jefferson City (06910500), 1948 to 1974. Discharge measurements only October 1956 to September 1957.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 543.67 ft above North American Vertical Datum of 1988. Prior to Aug. 17, 1958, nonrecording gage, and Aug. 17, 1958, to May 21, 1969, water-stage recorder at site 10 mi upstream and at datum 562.73 ft above National Geodetic Vertical Datum of 1929, drainage area 531 mi^2.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1905 reached a stage of 38.2 ft, flood of 1929 reached a stage of 32.91 ft, and flood of 1943 reached a stage of 35.1 ft, present site, from information and floodmarks by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	0245	7,780	18.30
Mar 22	1215	*19,400	*26.99
Apr 15	1845	17,500	25.91
May 1	0815	8,820	19.39

Minimum discharge, 0.55 ft^3/s, Aug. 24, gage height, 0.97 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 06910750, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/06910750.2012.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	6.9	7.3	77	109	44	92	275	7,250	21	7.5	1.6	7.2
2	6.8	6.9	56	93	41	101	240	2,260	22	6.5	1.5	9.4
3	6.2	16	49	80	49	122	214	692	21	5.6	1.2	11
4	6.0	34	60	72	1,060	167	191	446	20	6.1	1.2	9.7
5	5.8	38	73	67	1,380	145	172	343	19	5.9	1.6	12
6	5.3	39	88	64	548	116	156	284	18	5.5	1.7	12
7	4.4	49	87	62	376	97	143	253	16	5.5	1.8	12
8	4.5	112	80	59	288	93	133	250	16	5.8	1.8	19
9	6.4	497	62	56	238	94	125	213	16	81	1.6	13
10	5.9	413	51	52	206	123	114	179	15	16	1.4	10
11	5.4	212	44	51	179	161	103	147	15	8.1	1.2	9.2
12	4.8	128	39	50	153	191	94	124	16	10	1.2	7.8
13	7.7	79	45	48	131	365	339	114	14	21	1.2	6.5
14	9.0	55	118	45	125	318	7,310	96	14	16	1.2	5.8
15	10	43	253	43	141	290	16,500	92	13	14	1.3	4.9
16	9.9	35	361	43	920	797	11,700	82	13	11	1.5	4.2
17	8.1	29	270	49	1,190	780	2,010	69	16	9.7	1.8	3.7
18	11	25	192	50	534	548	679	60	15	8.3	1.4	3.1
19	16	23	171	57	364	339	485	54	16	7.2	1.2	2.8
20	14	22	3,790	65	287	329	421	49	15	6.1	1.0	2.5
21	12	20	4,660	64	242	7,990	416	45	14	4.9	0.99	2.6
22	12	21	837	57	212	18,000	311	40	14	4.2	0.88	3.2
23	12	21	483	52	194	6,720	265	37	13	3.9	0.76	2.8
24	14	20	332	48	175	3,520	234	34	12	3.5	0.62	2.4
25	14	20	263	46	163	1,380	213	32	11	3.2	0.76	5.0
26	16	23	221	47	134	691	187	30	10	3.0	0.91	13
27	15	41	198	46	114	515	161	28	9.6	2.8	1.3	6.3
28	13	55	177	46	101	410	145	26	8.8	2.4	1.3	4.1
29	11	159	159	46	96	407	837	25	8.0	1.9	1.4	3.2
30	9.4	122	142	44	---	412	3,890	23	7.8	1.7	1.5	2.6
31	8.4	---	124	43	---	335	---	22	---	1.6	3.3	---
Mean	9.38	78.8	437	56.6	334	1,473	1,602	432	14.6	9.35	1.36	7.03
Max	16	497	4,660	109	1,380	18,000	16,500	7,250	22	81	3.3	19
Min	4.4	6.9	39	43	41	92	94	22	7.8	1.6	0.62	2.4
In.	0.02	0.16	0.90	0.12	0.64	3.03	3.19	0.89	0.03	0.02	0.00	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2012[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	309	247	237	396	494	665	615	680	553	301	126	333
Max	2,293	1,397	1,040	3,072	1,866	3,169	2,256	2,815	2,548	2,237	570	3,567
(WY)	(2010)	(2005)	(1969)	(2005)	(1951)	(1973)	(1973)	(1970)	(1948)	(1951)	(2005)	(2008)
Min	0.81	1.03	4.29	5.57	7.75	11.9	9.36	29.7	13.2	4.41	1.36	1.21
(WY)	(1954)	(1954)	(1954)	(1964)	(1954)	(1954)	(1956)	(1965)	(1952)	(1959)	(2012)	(2006)

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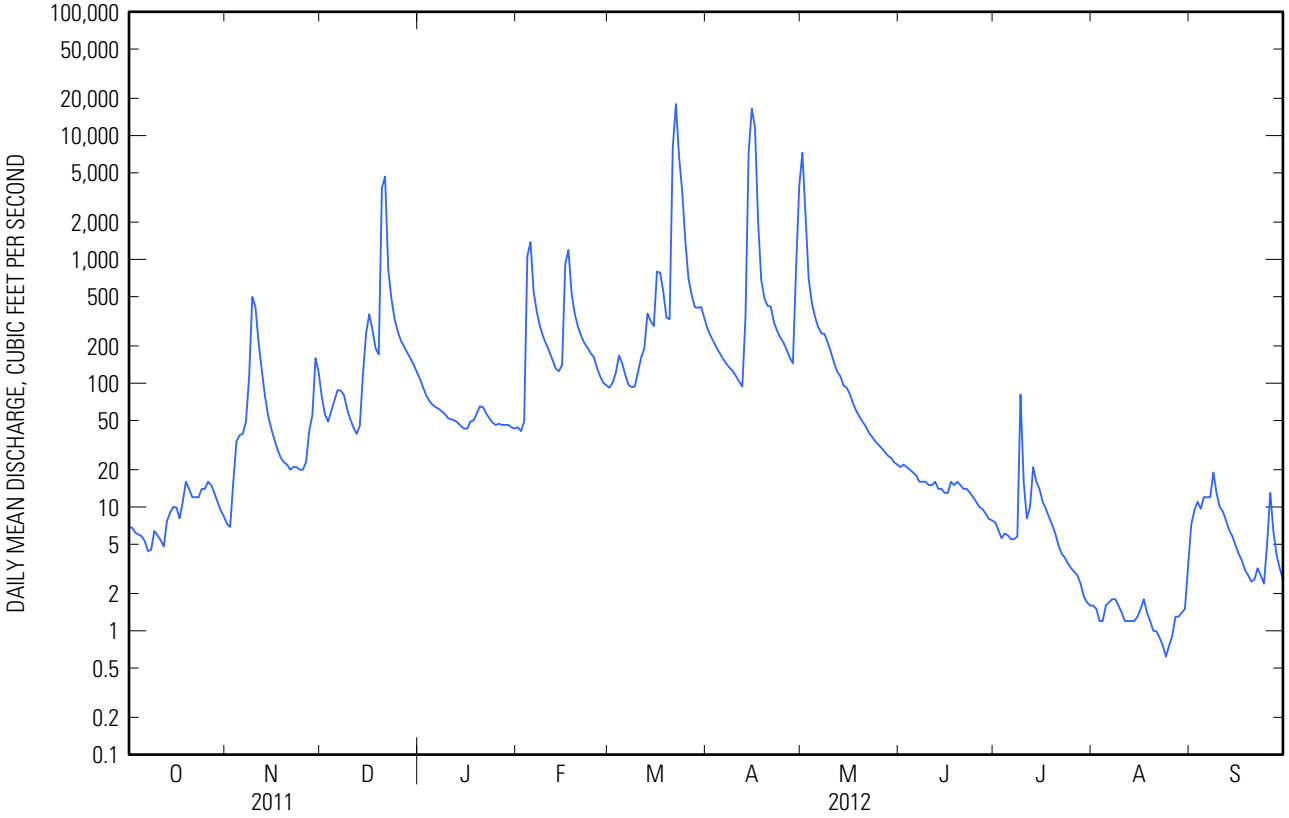
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1948 - 2012[a]	
Annual mean	513		371		408	
Highest annual mean					933	2008
Lowest annual mean					50.4	1954
Highest daily mean	11,800	May 22	18,000	Mar 22	29,600	Sep 15, 2008
Lowest daily mean	4.4	Oct 7	0.62	Aug 24	0.09	Oct 8, 2006
Annual seven-day minimum	5.2	Oct 6	0.85	Aug 20	0.15	Oct 7, 2006
Maximum peak flow			19,400	Mar 22	30,700	Sep 15, 2008
Maximum peak stage			26.99	Mar 22	32.63	Sep 15, 2008
Instantaneous low flow			0.55	Aug 24	0.08	Oct 8, 2006[b]
Annual runoff (inches)	12.41		9.00		9.89	
10 percent exceeds	1,130		412		695	
50 percent exceeds	112		43		74	
90 percent exceeds	12		2.6		6.8	

[a] For Period of Record
[b] Also Oct 9, 2006



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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	1.31	1.33	2.17	2.34	1.89	2.23	3.18	19.37	1.64	1.36	1.09	1.33
2	1.31	1.31	2.00	2.25	1.85	2.28	2.99	10.05	1.65	1.33	1.08	1.39
3	1.29	1.46	1.91	2.17	1.84	2.35	2.87	5.04	1.64	1.30	1.06	1.43
4	1.28	1.76	2.02	2.11	3.47	2.65	2.76	3.99	1.62	1.32	1.05	1.41
5	1.28	1.73	2.04	2.07	7.56	2.55	2.66	3.55	1.61	1.31	1.09	1.47
6	1.26	1.80	2.23	2.05	4.41	2.39	2.58	3.26	1.58	1.29	1.08	1.46
7	1.24	1.90	2.17	2.03	3.69	2.27	2.51	3.09	1.56	1.29	1.09	1.42
8	1.21	2.18	2.18	2.01	3.26	2.24	2.46	3.10	1.55	1.30	1.10	1.61
9	1.29	2.89	2.05	1.99	3.00	2.24	2.42	2.91	1.55	1.96	1.08	1.49
10	1.29	3.94	1.95	1.96	2.84	2.34	2.37	2.74	1.53	1.56	1.07	1.42
11	1.26	2.92	1.88	1.94	2.70	2.60	2.31	2.57	1.52	1.37	1.05	1.40
12	1.23	2.48	1.83	1.94	2.58	2.73	2.25	2.45	1.54	1.32	1.05	1.36
13	1.30	2.18	1.81	1.93	2.45	3.02	2.22	2.42	1.53	1.63	1.05	1.32
14	1.37	1.99	2.29	1.89	2.41	3.44	15.22	2.29	1.50	1.56	1.05	1.31
15	1.39	1.88	2.98	1.87	2.43	2.96	25.48	2.26	1.50	1.50	1.06	1.31
16	1.39	1.79	3.60	1.87	4.41	5.31	22.74	2.21	1.49	1.45	1.06	1.29
17	1.35	1.73	3.20	1.92	7.21	2.99	8.39	2.12	1.56	1.41	1.11	1.26
18	1.38	1.67	2.79	1.93	4.37	4.32	4.92	2.05	1.54	1.38	1.08	1.23
19	1.53	1.64	2.51	1.97	3.64	3.36	4.13	2.00	1.55	1.34	1.05	1.22
20	1.49	1.61	8.50	2.04	3.25	3.27	3.72	1.96	1.55	1.31	1.04	1.20
21	1.44	1.60	16.98	2.06	3.02	15.74	3.86	1.92	1.50	1.27	1.03	1.20
22	1.44	1.61	5.55	2.00	2.86	26.74	3.37	1.87	1.52	1.23	1.02	1.23
23	1.44	1.61	4.17	1.96	2.77	19.31	3.12	1.84	1.50	1.22	1.00	1.22
24	1.48	1.60	3.48	1.92	2.68	12.26	2.98	1.81	1.47	1.20	0.97	1.19
25	1.47	1.59	3.13	1.90	2.64	7.34	2.87	1.78	1.46	1.19	0.99	1.18
26	1.52	1.59	2.90	1.91	2.47	4.95	2.75	1.76	1.44	1.18	1.01	1.55
27	1.51	1.86	2.80	1.90	2.37	4.24	2.62	1.74	1.42	1.16	1.06	1.36
28	1.47	1.86	2.68	1.90	2.29	3.80	2.52	1.71	1.40	1.14	1.06	1.27
29	1.44	2.71	2.59	1.90	2.27	3.73	2.43	1.69	1.37	1.12	1.06	1.22
30	1.38	2.45	2.51	1.88	---	3.81	9.44	1.67	1.37	1.10	1.08	1.19
31	1.36	---	2.42	1.87	---	3.50	---	1.65	---	1.08	1.09	---
Mean	1.37	1.96	3.27	1.98	3.19	5.26	5.14	3.19	1.52	1.33	1.06	1.33
Max	1.53	3.94	16.98	2.34	7.56	26.74	25.48	19.37	1.65	1.96	1.11	1.61
Min	1.21	1.31	1.81	1.87	1.84	2.23	2.22	1.65	1.37	1.08	0.97	1.18