Water-Data Report 2013

06901500 LOCUST CREEK NEAR LINNEUS, MO

Lower Missouri Basin
Grand Subbasin

LOCATION.--Lat 39°53'45.4", long 93°14'11.5" referenced to North American Datum of 1983, in NW ¼ NE ¼ sec.34, T.59 N., R.21 W., Linn County, MO, Hydrologic Unit 10280103, on right bank on upstream side of county road, 1 mi upstream from Boyer bridge, 1.5 mi upstream from Strawberry and Couch Creeks, 3 mi northwest of Linneus, and 5 mi downstream from West Locust Creek.

DRAINAGE AREA.--550 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to September 1972, July 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 692.61 ft above National Geodetic Vertical Datum of 1929. Prior to July 26, 1956, nonrecording gage at same site and datum.

REMARKS.--Records fair except for the period Dec. 11 to Apr. 24, which is poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1909 reached a discharge of about 18,000 ft^3/s, determination by the Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 18	1345	16,000	23.28
May 28	1900	*16,700	*23.50

Minimum discharge, 1.8 ft^3/s, Oct. 1, 4, gage height, 3.68 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 06901500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/06901500.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.4	3.1	4.9	5.5	e14	19	113	145	2,490	84	24	6.6
2	2.6	2.9	5.9	e6.9	e13	17	113	130	1,230	74	25	5.2
3	2.5	2.8	4.9	e8.1	e16	14	78	171	849	68	22	5.7
4	2.5	2.5	4.6	e9.1	e26	14	60	482	640	62	20	4.9
5	3.0	5.7	4.4	e10	e25	14	50	1,540	500	61	18	4.7
6	3.1	5.0	4.1	e8.8	17	15	44	1,020	406	56	18	4.6
7	3.0	5.6	4.7	e7.6	16	16	40	473	322	51	16	4.4
8	2.8	5.0	4.9	e6.6	21	23	94	307	262	47	14	4.5
9	3.2	5.3	6.7	e6.8	16	284	188	261	222	45	14	4.2
10	2.9	4.2	5.3	e8.2	72	4,170	3,800	237	208	43	13	4.2
11	2.8	11	e4.5	9.0	98	3,760	4,890	238	196	40	12	4.5
12	2.7	18	e5.0	7.2	60	1,180	1,560	188	183	38	11	6.4
13	7.5	15	e6.0	e6.0	47	496	690	142	156	37	10	6.1
14	11	13	4.2	e5.0	41	327	427	120	137	34	9.2	4.4
15	8.9	7.7	6.3	e7.5	41	257	324	108	142	32	8.8	6.1
16	8.5	6.1	6.6	e6.4	32	251	289	104	2,160	31	9.1	7.1
17	8.0	5.7	5.7	e5.9	25	220	559	96	875	29	11	6.6
18	6.1	6.0	5.8	e6.8	19	162	13,700	85	414	28	10	6.9
19	5.4	6.1	5.8	e8.0	21	122	13,700	80	269	26	9.2	6.9
20	4.4	6.6	e14	e9.5	18	100	6,790	345	207	25	8.5	14
21	3.7	5.8	e17	e5.5	19	83	1,810	255	167	25	8.6	9.3
22	5.1	5.7	e19	e3.7	23	71	1,200	151	136	24	7.3	10
23	5.2	5.3	e14	e4.0	27	64	818	109	283	22	7.3	6.8
24	5.1	6.2	e13	e3.0	21	63	606	86	234	21	7.1	5.0
25	6.3	5.1	e10	e2.5	20	62	462	77	128	23	6.8	4.8
26	6.0	4.8	e8.5	e2.8	17	57	351	95	550	28	7.2	5.0
27	4.9	4.9	e8.3	e3.0	23	55	274	6,760	290	23	6.3	5.3
28	4.1	4.8	7.5	e5.1	38	54	225	13,900	156	20	6.2	5.5
29	3.9	4.9	6.7	e10	---	53	193	12,100	115	20	6.2	4.9
30	3.9	4.5	5.9	e15	---	75	167	6,500	98	28	6.1	4.0
31	3.6	---	6.9	e22	---	103	---	6,740	---	22	6.0	---
Mean	4.68	6.31	7.45	7.27	29.5	394	1,787	1,711	468	37.6	11.5	5.95
Max	11	18	19	22	98	4,170	13,700	13,900	2,490	84	25	14
Min	2.4	2.5	4.1	2.5	13	14	40	77	98	20	6.0	4.0
In.	0.01	0.01	0.02	0.02	0.06	0.83	3.63	3.59	0.95	0.08	0.02	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2013[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	158	189	148	180	318	523	629	588	762	299	168	209
Max	1,174	2,272	857	1,027	1,557	1,935	2,103	2,647	5,820	2,903	2,457	2,583
(WY)	(1930)	(1932)	(2009)	(1946)	(2001)	(2009)	(1944)	(1935)	(1947)	(1958)	(2004)	(2008)
Min	0.92	2.38	2.70	1.29	3.61	6.47	5.92	23.2	4.72	0.40	0.67	1.97
(WY)	(1957)	(1957)	(1938)	(1940)	(1957)	(1957)	(1956)	(1938)	(1934)	(1934)	(1936)	(1955)

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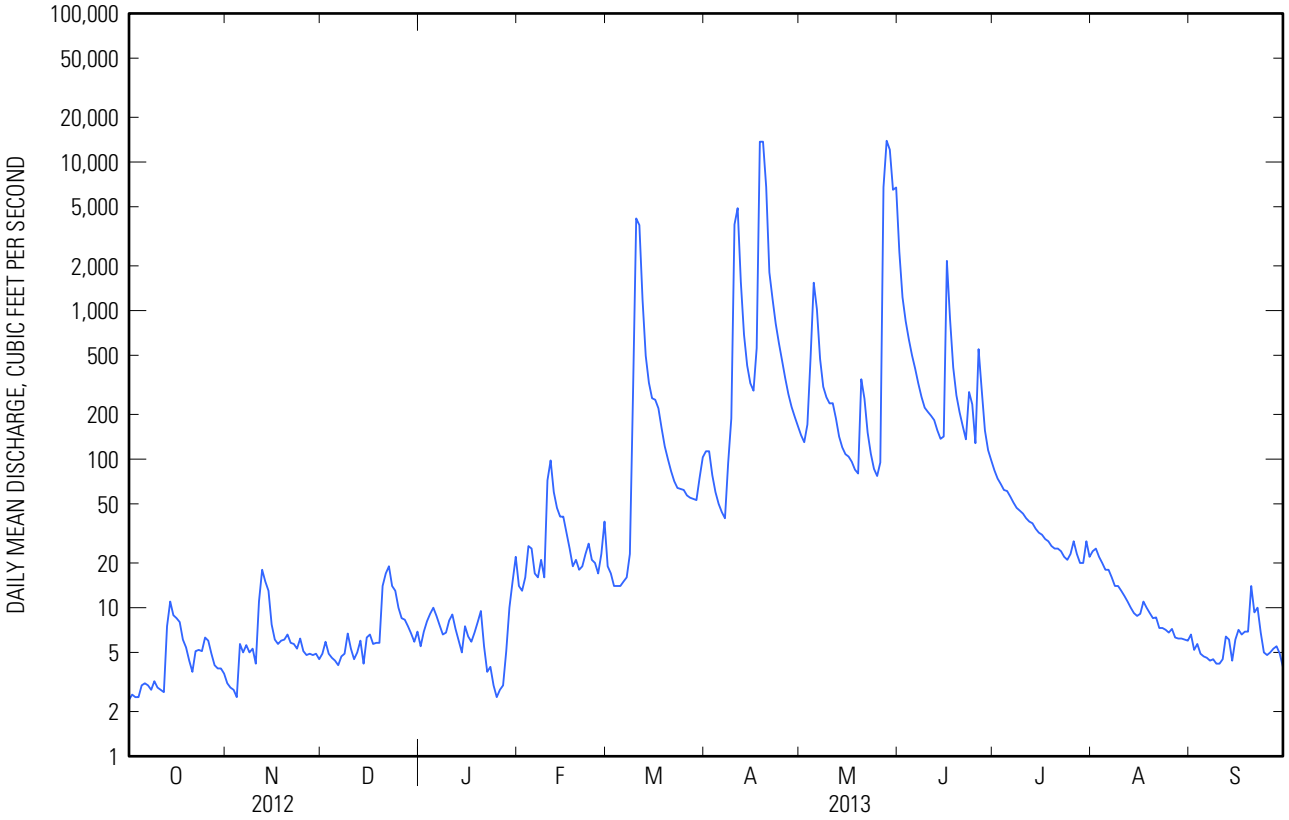
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1929 - 2013[a]	
Annual mean	106		373		344	
Highest annual mean					1,202	2008
Lowest annual mean					21.4	2003
Highest daily mean	3,660	May 3	13,900	May 28	27,300	Jun 6, 1947
Lowest daily mean	1.4	Aug 19[b]	2.4	Oct 1	0.00	Jul 17, 1934[c]
Annual seven-day minimum	1.5	Aug 18	2.7	Oct 1	0.00	Jul 17, 1934
Maximum peak flow			16,700	May 28	38,000	Jun 6, 1947
Maximum peak stage			23.50	May 28	26.93	Jun 6, 1947
Instantaneous low flow			1.8	Oct 1[d]	0.00	Jul 17, 1934[c]
Annual runoff (inches)	2.62		9.21		8.50	
10 percent exceeds	248		409		628	
50 percent exceeds	14		16		47	
90 percent exceeds	2.5		4.4		4.5	

[a] For Period of Record
[b] Also Aug 24
[c] Also Jul 18-Aug 11, 1934
[d] Also Oct 4



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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	3.71	3.89	3.92	3.95	---	4.10	4.78	5.05	11.97	4.14	3.63	3.40
2	3.71	3.86	3.94	---	---	4.11	5.07	4.93	8.97	4.06	3.67	3.37
3	3.72	3.86	3.92	---	---	4.08	4.76	5.05	7.71	4.00	3.64	3.44
4	3.71	3.85	3.92	---	---	4.03	4.57	6.13	6.95	3.96	3.60	3.37
5	3.74	3.93	3.91	---	4.19	4.03	4.47	9.28	6.37	3.95	3.58	3.35
6	3.72	3.93	3.91	4.08	4.34	4.03	4.40	8.70	5.98	3.91	3.57	3.34
7	3.73	3.96	3.91	---	4.20	4.04	4.35	6.76	5.60	3.85	3.55	3.33
8	3.73	3.94	3.93	---	4.38	4.11	4.54	6.00	5.28	3.81	3.52	3.34
9	3.75	3.96	3.98	---	4.25	4.90	5.63	5.71	5.04	3.80	3.52	3.33
10	3.73	3.92	---	4.06	4.42	14.26	7.78	5.64	4.97	3.78	3.50	3.32
11	3.71	3.96	---	4.08	5.01	---	16.12	5.57	4.89	3.74	3.49	3.33
12	3.71	4.20	---	4.04	4.62	9.13	10.07	5.37	4.83	3.73	3.48	3.41
13	3.84	4.15	---	---	4.53	6.89	7.50	5.04	4.66	3.72	3.47	3.40
14	3.97	4.15	3.89	---	4.48	6.20	6.43	4.88	4.51	3.69	3.45	3.34
15	3.93	4.02	3.97	---	4.47	5.85	5.94	4.78	4.47	3.68	3.44	3.38
16	3.89	3.98	3.99	---	4.16	5.76	5.84	4.72	10.75	3.65	3.44	3.43
17	3.92	3.97	3.96	---	4.22	5.63	5.47	4.69	7.91	3.64	3.50	3.39
18	3.88	3.96	3.98	---	4.12	5.30	22.75	4.59	6.06	3.63	3.48	3.43
19	3.85	3.97	3.96	---	4.29	5.00	22.70	4.54	5.34	3.62	3.45	3.39
20	3.83	3.99	4.16	---	4.11	4.84	19.18	5.86	4.99	3.59	3.43	3.60
21	3.81	3.96	---	---	4.11	4.71	10.46	5.80	4.74	3.59	3.44	3.49
22	3.89	3.95	---	---	4.12	4.61	9.03	5.12	4.53	3.60	3.41	3.55
23	3.89	3.95	---	---	---	4.54	7.88	4.80	4.38	3.58	3.42	3.45
24	3.89	3.93	---	---	4.16	4.53	7.15	4.61	5.21	3.56	3.41	3.41
25	3.91	3.94	4.03	---	4.14	4.56	6.63	4.50	4.46	3.55	3.40	3.40
26	3.95	3.92	---	---	---	4.51	6.16	4.71	7.38	3.73	3.40	3.42
27	3.91	e3.94	---	---	4.14	4.49	5.80	13.68	5.51	3.60	3.39	3.45
28	3.88	e3.94	4.02	---	4.46	4.50	5.53	22.08	4.71	3.57	3.38	3.44
29	3.88	e3.93	4.01	---	---	4.48	5.35	22.23	4.38	3.54	3.39	3.46
30	3.89	3.92	3.96	---	---	4.53	5.20	16.66	4.26	3.73	3.39	3.42
31	3.89	---	4.03	---	---	4.98	---	17.99	---	3.62	3.38	---
Mean	3.82	3.96	---	---	---	---	8.05	7.60	5.89	3.73	3.48	3.41
Max	3.97	4.20	---	---	---	---	22.75	22.23	11.97	4.14	3.67	3.60
Min	3.71	3.85	---	---	---	---	4.35	4.50	4.26	3.54	3.38	3.32