Water-Data Report 2012

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 estimated daily discharges, which are 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.--Maximum discharge, 5,090 ft^3/s, May 3, gage height, 15.40 ft; minimum discharge, 0.69 ft^3/s, Sept. 22, gage height, 3.62 ft.

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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	7.0	8.3	15	38	36	319	218	454	26	11	3.6	12
2	7.0	10	14	35	35	247	174	737	24	11	3.3	8.5
3	7.4	28	25	33	127	214	146	3,660	23	11	3.4	5.5
4	6.7	38	89	32	1,030	193	128	1,210	22	10	3.3	4.2
5	6.3	32	e70	29	628	166	649	710	21	10	3.0	3.5
6	6.1	23	e45	27	343	138	630	433	20	9.9	2.6	2.8
7	6.3	23	e35	28	222	116	316	285	18	9.8	2.6	2.6
8	8.2	51	e28	28	167	122	331	296	17	31	3.5	2.3
9	8.1	126	e22	27	130	115	251	222	16	8.3	3.2	1.9
10	6.5	95	e17	27	115	96	190	158	16	6.6	2.0	1.8
11	7.3	52	e23	25	79	93	153	127	17	6.2	1.6	2.0
12	7.1	41	17	e25	101	198	131	113	17	5.7	2.6	2.1
13	7.3	34	18	e30	77	344	1,100	100	16	5.3	2.5	2.9
14	6.7	25	158	32	89	298	1,990	89	14	7.3	2.5	4.1
15	7.0	20	1,050	26	72	195	1,020	79	15	6.0	2.1	2.9
16	7.0	16	467	25	84	150	785	73	19	5.4	1.9	2.5
17	7.5	14	186	22	96	125	499	67	21	4.8	1.6	2.8
18	8.5	13	121	22	97	109	312	61	21	4.6	1.5	3.0
19	7.6	12	94	28	92	100	241	56	38	4.4	1.4	2.3
20	7.0	11	103	24	77	325	204	52	23	3.8	1.5	2.0
21	7.4	11	109	25	76	1,140	173	48	22	3.9	1.6	1.8
22	7.4	11	85	23	73	2,060	155	45	17	4.1	1.5	1.6
23	7.7	10	65	23	78	1,460	142	43	17	3.9	1.5	1.5
24	7.9	12	53	19	80	730	128	39	18	3.6	1.4	1.6
25	7.9	11	44	21	73	426	115	38	16	3.5	2.3	9.2
26	8.0	17	43	21	72	302	102	40	13	5.7	3.8	14
27	7.4	22	42	21	69	238	90	53	11	5.3	3.4	3.9
28	7.7	19	42	26	69	196	84	38	11	5.0	2.5	2.4
29	8.1	16	42	28	661	363	85	32	11	5.2	2.3	2.4
30	7.7	15	42	26	---	413	155	29	11	4.6	1.8	2.5
31	7.9	---	43	32	---	292	---	27	---	4.1	3.7	---
Mean	7.35	27.2	103	26.7	171	364	357	304	18.4	7.13	2.44	3.75
Max	8.5	126	1,050	38	1,030	2,060	1,990	3,660	38	31	3.8	14
Min	6.1	8.3	14	19	35	93	84	27	11	3.5	1.4	1.5
In.	0.02	0.06	0.22	0.06	0.33	0.76	0.72	0.64	0.04	0.01	0.01	0.01

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	161	193	151	183	324	525	608	568	768	303	170	213
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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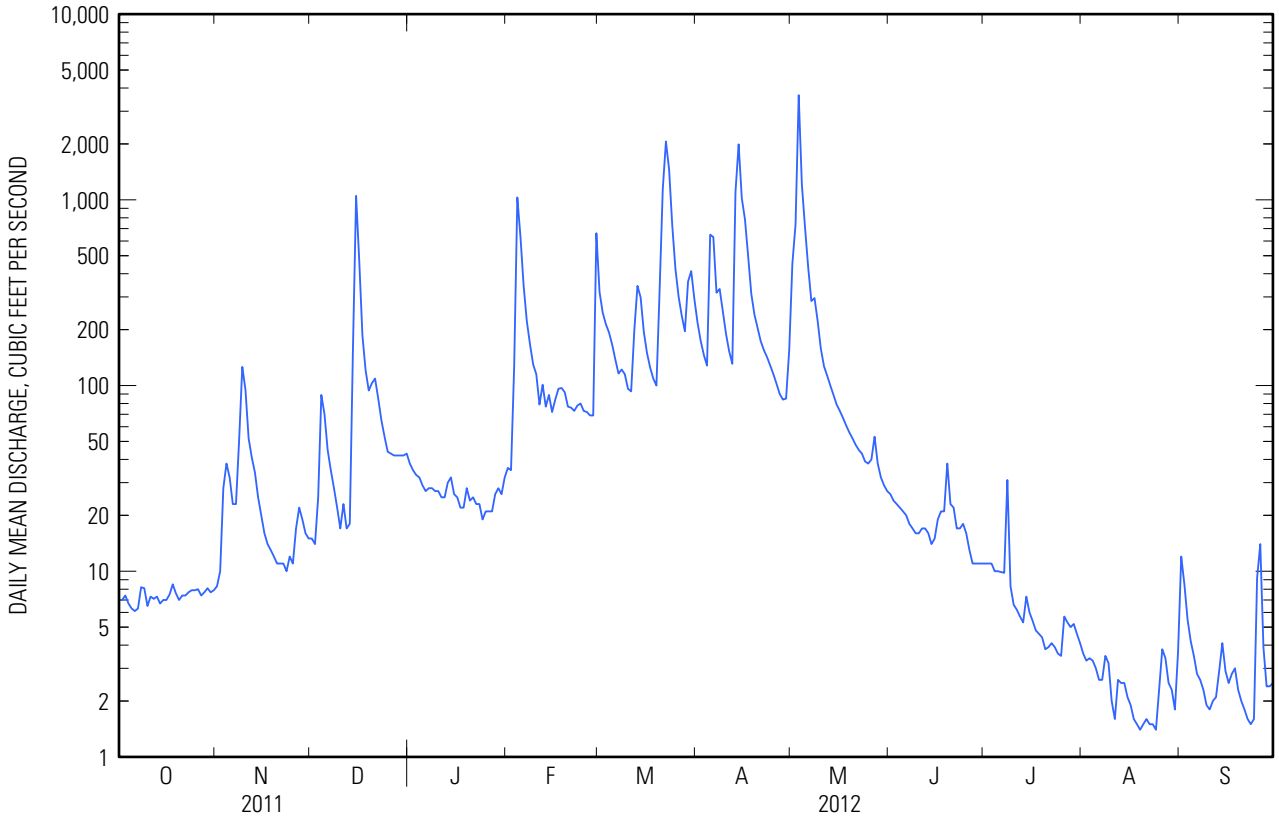
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1929 - 2012[a]	
Annual mean	320		116		344	
Highest annual mean					1,202	2008
Lowest annual mean					21.4	2003
Highest daily mean	7,940	Feb 17	3,660	May 3	27,300	Jun 6, 1947
Lowest daily mean	6.1	Oct 6	1.4	Aug 19[b]	0.00	Jul 17, 1934[c]
Annual seven-day minimum	6.7	Oct 1	1.5	Aug 18	0.00	Jul 17, 1934
Maximum peak flow			5,090	May 3	38,000	Jun 6, 1947
Maximum peak stage			15.40	May 3	26.93	Jun 6, 1947
Instantaneous low flow			0.69	Sep 22	0.00	Jul 17, 1934[c]
Annual runoff (inches)	7.91		2.87		8.49	
10 percent exceeds	723		287		630	
50 percent exceeds	95		23		48	
90 percent exceeds	8.1		2.6		4.5	

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



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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	3.72	3.78	3.94	4.29	4.25	6.08	5.41	6.73	4.11	3.90	3.79	4.09
2	3.73	3.79	3.93	4.29	4.24	5.71	5.15	5.82	4.12	3.90	3.77	3.98
3	3.72	4.11	3.97	4.21	4.28	5.52	4.93	15.05	4.10	3.90	3.78	3.83
4	3.72	4.32	4.81	4.12	8.80	5.36	4.78	9.05	4.10	3.91	3.74	3.80
5	3.71	4.20	4.63	---	7.43	5.24	5.06	7.56	4.08	3.90	3.75	3.75
6	3.71	4.06	---	4.12	6.23	5.05	7.49	6.53	4.08	3.89	3.75	3.71
7	3.72	4.04	---	---	5.59	4.87	5.81	5.82	4.03	3.90	3.74	3.72
8	3.75	4.31	---	---	5.24	4.87	6.04	5.57	4.06	3.87	3.74	3.70
9	3.77	4.82	4.10	4.07	4.98	4.89	5.59	5.53	4.04	3.89	3.77	3.68
10	3.72	4.87	---	---	4.89	4.71	5.24	5.14	4.02	3.87	3.74	3.70
11	3.73	4.43	---	e4.15	4.88	4.66	5.00	4.92	4.04	3.86	3.73	3.70
12	3.73	4.32	3.99	---	4.89	5.16	4.82	4.82	4.04	3.82	3.71	3.70
13	3.74	4.24	4.01	---	4.39	6.25	4.83	4.74	4.03	3.83	3.74	3.69
14	3.74	4.11	4.43	---	4.61	6.04	10.61	4.66	3.99	3.89	3.74	3.77
15	3.73	4.02	8.84	---	4.48	5.45	8.49	4.56	3.98	3.85	3.71	3.72
16	3.74	3.97	6.96	4.12	4.58	5.13	7.24	4.52	3.99	3.85	3.72	e3.69
17	3.74	3.92	5.54	4.07	4.66	4.96	6.60	4.47	4.12	3.81	3.71	3.70
18	3.79	3.89	5.06	3.94	4.71	4.83	5.72	4.40	4.07	3.82	3.72	3.75
19	3.76	3.89	4.85	4.15	4.71	4.73	5.42	4.46	4.38	3.79	3.72	3.71
20	3.73	3.87	4.86	4.03	4.54	5.61	5.24	4.34	4.15	3.79	3.68	3.67
21	3.75	3.87	4.97	4.11	4.54	7.91	5.05	4.31	4.15	3.79	3.69	3.69
22	3.76	3.88	4.77	4.07	4.51	10.60	4.90	4.26	4.04	3.80	3.69	3.66
23	3.76	3.85	---	4.09	4.53	9.65	4.82	4.32	4.04	3.79	3.67	3.65
24	3.76	3.87	4.42	4.00	4.55	7.64	4.77	4.21	4.06	3.77	3.68	3.69
25	3.77	3.88	---	4.03	e4.50	6.40	4.68	4.24	4.04	3.78	3.69	3.96
26	3.77	3.96	4.35	4.03	4.48	5.82	4.63	4.21	3.96	3.84	3.77	3.88
27	3.75	4.10	4.33	e4.05	4.48	5.45	4.49	4.46	3.93	3.83	3.77	3.83
28	3.75	4.04	4.35	4.04	4.45	5.28	4.51	4.26	3.93	3.85	3.72	3.72
29	3.78	3.98	4.34	---	8.04	5.20	4.46	4.19	3.92	3.84	3.73	3.71
30	3.77	3.89	4.33	4.11	---	6.30	4.62	4.14	3.92	3.79	3.70	3.69
31	3.77	---	4.36	4.19	---	5.78	---	4.14	---	3.79	3.69	---
Mean	3.74	4.08	---	---	5.05	5.84	5.55	5.34	4.05	3.84	3.73	3.75
Max	3.79	4.87	---	---	8.80	10.60	10.61	15.05	4.38	3.91	3.79	4.09
Min	3.71	3.78	---	---	4.24	4.66	4.46	4.14	3.92	3.77	3.67	3.65