Water-Data Report 2013

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO

Upper Mississippi Basin
Fabius Subbasin

LOCATION.--Lat 39°53'47.9", long 91°34'48.6" referenced to North American Datum of 1983, in SW ¼ NW ¼ sec.21, T.59 N., R.6 W., Marion County, MO, Hydrologic Unit 07110003, on left downstream wingwall of County Hwy 319 bridge, 4.5 mi southwest of Taylor, 5.0 mi downstream from Grassy Creek, and 5.3 mi upstream from confluence with North Fabius River.

DRAINAGE AREA.--620 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1934 to current year. Prior to December 1934 monthly discharge only published in WSP 1308.

REVISED RECORDS.--WSP 825: 1936.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 482.91 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to May 14, 1936, nonrecording gage at bridge 4.0 mi downstream at datum 21.94 ft lower; May 14, 1936, to Dec. 2, 1940, nonrecording gage at present site and datum. November 28, 2006 to October 3, 2007, recording gage on left bank 150 ft. downstream of present site at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1928 reached a stage of 18.49 ft, from floodmarks, at present site and datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 12	1130	9,830	12.58
Apr 11	1300	5,910	9.52
Apr 18	2300	15,100	16.01
Apr 22	0045	9,090	12.05
May 29	0630	*15,600	*16.29

Minimum discharge, 1.1 ft^3/s, Sept. 30, gage height, 1.36 ft.

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.9	10	6.7	14	800	154	311	387	11,600	42	18	4.8
2	3.2	9.2	6.5	16	295	147	270	330	5,560	39	17	4.4
3	2.9	8.3	6.2	10	299	135	243	1,040	2,030	44	18	4.2
4	2.9	7.2	7.2	10	195	145	215	4,790	1,140	40	18	4.2
5	2.6	6.9	7.1	9.2	173	157	193	3,650	759	34	18	4.1
6	2.4	7.2	6.4	8.8	143	169	177	2,210	548	34	17	4.1
7	3.0	6.9	6.4	8.5	171	172	166	976	407	38	17	3.9
8	3.0	6.4	6.7	8.4	786	186	260	661	323	32	18	3.9
9	3.0	6.9	8.4	8.4	687	3,250	607	701	264	29	15	3.6
10	3.0	8.3	6.4	9.3	572	8,590	1,090	737	230	27	14	3.7
11	2.9	9.3	5.9	93	1,370	9,550	5,420	558	203	25	13	3.3
12	2.7	41	6.2	287	1,050	9,730	5,490	472	178	23	12	3.7
13	3.4	108	6.3	221	478	8,880	2,580	396	147	22	12	3.5
14	22	65	6.4	128	302	4,370	813	333	135	21	11	3.3
15	75	44	8.8	139	221	1,630	721	293	224	20	10	3.3
16	54	33	9.3	160	175	1,270	533	261	796	20	9.7	2.9
17	49	26	8.9	51	146	923	1,360	238	1,550	19	9.1	3.0
18	35	20	9.0	50	138	670	13,600	222	1,100	18	8.7	3.0
19	29	17	9.0	25	295	501	14,100	207	293	18	9.5	3.5
20	21	14	10	24	401	390	14,300	200	164	17	9.3	9.7
21	16	12	51	27	269	324	11,700	208	113	16	8.2	5.9
22	22	11	303	20	397	276	4,620	195	88	21	7.4	4.0
23	108	9.2	122	14	327	243	2,030	210	75	20	7.0	3.0
24	60	7.5	111	13	300	235	1,840	199	105	18	6.6	2.4
25	36	7.1	70	9.5	229	235	1,310	433	71	17	6.0	2.1
26	28	7.2	53	8.6	164	234	911	4,550	59	17	6.1	2.0
27	22	6.7	39	8.9	154	285	664	7,000	55	20	5.8	1.7
28	20	6.3	21	10	157	489	569	11,800	59	17	6.1	1.6
29	18	6.5	18	79	---	534	532	14,700	51	15	5.8	1.6
30	14	6.8	20	3,050	---	471	460	12,500	46	18	5.5	1.3
31	12	---	14	3,080	---	382	---	12,700	---	20	5.2	---
Mean	21.9	17.8	31.3	245	382	1,765	2,903	2,682	946	24.5	11.1	3.52
Max	108	108	303	3,080	1,370	9,730	14,300	14,700	11,600	44	18	9.7
Min	2.4	6.3	5.9	8.4	138	135	166	195	46	15	5.2	1.3
In.	0.04	0.03	0.06	0.46	0.64	3.28	5.23	4.99	1.70	0.05	0.02	0.01

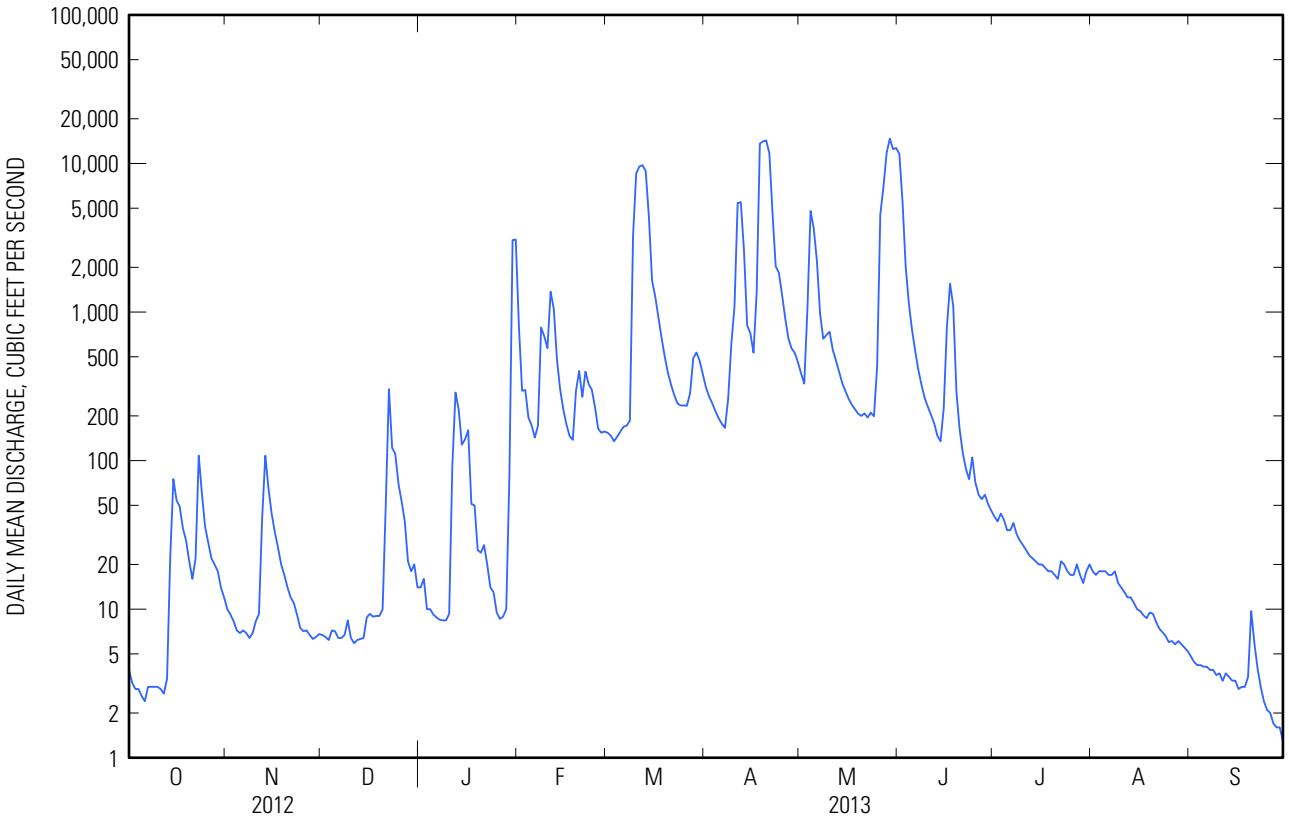
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	262	292	264	296	528	716	792	799	551	381	170	222
Max	2,690	3,103	2,137	2,000	2,340	2,659	3,989	4,078	3,891	3,647	2,335	2,841
(WY)	(1987)	(1986)	(1983)	(1965)	(1982)	(1973)	(1973)	(1995)	(1947)	(1993)	(1970)	(1970)
Min	0.00	0.00	1.52	2.12	4.78	15.0	13.4	7.56	5.68	0.71	0.00	0.39
(WY)	(1957)	(1957)	(1964)	(1954)	(1989)	(1956)	(1989)	(1989)	(1977)	(1988)	(1936)	(1953)

05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1935 - 2013	
Annual mean	91.2		754		433	
Highest annual mean					1,174	2010
Lowest annual mean					27.4	1989
Highest daily mean	2,620	May 2	14,700	May 29	18,800	Jun 8, 1947
Lowest daily mean	0.00	Aug 25	1.3	Sep 30	0.00	Several Years
Annual seven-day minimum	0.01	Aug 23	1.8	Sep 24	0.00	Several Years
Maximum peak flow			15,600	May 29	19,700	Jun 8, 1947
Maximum peak stage			16.29	May 29	19.50	Jun 8, 1947
Instantaneous low flow			1.1	Sep 30	0.00	Several Years
Annual runoff (inches)	2.00		16.50		9.49	
10 percent exceeds	174		1,190		997	
50 percent exceeds	22		36		62	
90 percent exceeds	0.83		4.1		4.3	



05500000 SOUTH FABIUS RIVER NEAR TAYLOR, MO—Continued

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	1.57	1.69	1.61	1.83	4.45	2.29	2.68	2.90	14.32	1.88	1.56	1.27
2	1.52	1.66	1.63	1.92	3.05	2.26	2.53	2.73	10.38	1.85	1.54	1.26
3	1.51	1.63	1.62	1.69	3.08	2.19	2.45	2.68	5.99	1.88	1.55	1.25
4	1.49	1.60	1.60	1.72	2.50	2.28	2.34	8.87	4.68	1.86	1.55	1.25
5	1.50	1.58	1.60	1.66	2.46	2.31	2.25	7.89	4.00	1.79	1.55	1.25
6	1.47	1.60	1.57	1.65	2.27	2.35	2.19	6.65	3.55	1.75	1.54	1.25
7	1.50	1.59	1.57	1.64	2.14	2.36	2.13	4.25	3.16	1.84	1.50	1.24
8	1.50	1.57	1.58	1.63	4.28	2.42	2.41	3.60	2.93	1.76	1.56	1.23
9	1.51	1.56	1.65	1.63	3.96	4.03	3.02	3.33	2.73	1.73	1.50	1.19
10	1.52	1.60	1.57	1.64	3.30	11.46	3.55	3.83	2.59	1.70	1.48	1.17
11	1.52	1.62	1.55	1.81	4.79	12.44	9.25	3.36	2.49	1.67	1.46	1.18
12	1.52	1.98	1.56	3.33	4.69	12.54	9.24	3.11	2.39	1.64	1.44	1.24
13	1.52	2.73	1.57	3.24	3.42	12.28	6.89	2.92	2.25	1.61	1.43	1.27
14	1.96	2.41	1.57	2.69	2.90	9.45	3.95	2.75	2.17	1.61	1.41	1.28
15	2.50	2.21	1.64	2.98	2.60	5.24	3.75	2.62	2.22	1.59	1.40	1.28
16	2.28	2.07	1.66	3.32	2.40	4.74	3.25	2.50	4.56	1.59	1.39	1.27
17	2.26	2.00	1.65	2.31	2.26	4.17	2.90	2.42	5.33	1.57	1.38	1.26
18	2.10	1.89	1.65	---	2.17	3.62	14.95	2.36	5.09	1.56	1.37	1.27
19	2.05	1.82	1.65	1.99	2.70	3.20	15.49	2.31	3.22	1.55	1.40	1.29
20	1.89	1.77	1.66	1.97	3.24	2.91	15.77	2.27	2.71	1.53	1.40	1.71
21	1.83	1.73	1.85	2.06	2.66	2.72	14.32	2.30	2.43	1.52	1.37	1.54
22	1.87	1.71	3.65	1.99	3.13	2.57	9.04	2.26	2.27	1.60	1.35	1.45
23	2.82	1.67	2.77	1.86	---	2.44	5.69	2.32	2.16	1.61	1.34	1.40
24	2.36	1.61	2.80	1.86	2.88	2.39	5.57	2.25	2.44	1.55	1.34	1.36
25	2.10	1.59	2.47	1.69	2.73	2.40	4.82	2.27	2.16	1.53	1.31	1.34
26	2.01	1.60	2.32	1.65	2.31	2.39	4.13	8.58	2.04	1.54	1.31	1.33
27	1.94	1.58	2.33	1.66	2.28	2.49	3.58	8.87	2.00	1.59	1.30	1.31
28	1.87	1.57	1.90	1.71	2.31	3.06	3.33	13.34	2.04	1.54	1.31	1.33
29	1.86	1.57	1.86	1.76	---	3.24	3.26	15.83	1.97	1.49	1.31	1.36
30	1.77	1.59	2.00	6.88	---	3.11	3.09	e14.55	1.91	1.55	1.30	1.36
31	1.73	---	1.75	7.43	---	2.89	---	14.26	---	1.59	1.29	---
Mean	1.83	1.76	1.87	---	---	4.33	5.59	5.17	3.61	1.65	1.42	1.31
Max	2.82	2.73	3.65	---	---	12.54	15.77	15.83	14.32	1.88	1.56	1.71
Min	1.47	1.56	1.55	---	---	2.19	2.13	2.25	1.91	1.49	1.29	1.17