07052250 JAMES RIVER NEAR BOAZ, MO

Upper White Basin
James Subbasin

LOCATION.--Lat 37°00'23.7", long 93°21'52.8" referenced to North American Datum of 1983, in NE ¼ NE ¼ NW ¼ sec.32, T.27 N., R.22 W., Christian County, MO, Hydrologic Unit 11010002, on left bank 150 ft downstream from Frazier Bridge, 0.2 mi upstream from Turkey Hollow, and 2.0 mi southeast of Boaz.

DRAINAGE AREA.--462 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 23, 1972 to October 1, 1980, October 1, 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,035.63 ft above North American Vertical Datum of 1988.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated at low flow by Lake Springfield, area of 318 acres.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	1745	7,810	10.03
Jun 2	0345	*16,300	*14.50
Jun 15	1845	7,270	9.69
Jul 30	1430	6,210	8.98
Aug 4	0500	8,100	10.21
Aug 8	0645	6,560	9.13

Minimum discharge, 81 ft^3/s, Oct. 9, 10, gage height, 2.27 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 07052250, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07052250.2013.pdf

07052250 JAMES RIVER NEAR BOAZ, 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	140	183	96	106	1,370	919	1,040	1,170	7,730	274	1,060	169
2	120	172	94	106	1,000	778	973	977	8,840	257	740	162
3	112	156	96	104	801	669	878	1,050	2,350	235	1,720	156
4	107	145	135	99	665	605	786	1,490	1,650	243	5,370	150
5	104	135	153	97	566	558	715	1,480	1,270	268	3,330	145
6	105	138	133	95	486	509	659	1,250	1,070	268	3,890	140
7	94	137	120	94	439	466	614	1,070	912	214	4,070	135
8	93	127	115	93	450	444	576	928	784	197	4,940	130
9	89	120	113	105	420	438	515	887	746	185	3,140	129
10	89	116	111	125	411	1,350	552	1,180	688	250	1,950	123
11	91	119	111	145	431	3,730	1,020	1,240	583	244	1,430	117
12	231	194	103	152	458	1,990	917	1,000	512	204	1,330	121
13	241	160	99	186	449	1,390	768	859	470	180	1,210	121
14	3,990	144	97	180	434	1,100	675	744	425	170	951	113
15	1,910	136	100	178	410	916	616	661	2,100	165	793	109
16	978	133	100	184	378	790	550	628	1,610	173	689	115
17	690	122	97	179	355	948	499	561	2,290	167	602	233
18	645	114	95	168	340	2,740	1,320	501	1,380	161	535	238
19	495	117	93	159	325	2,040	3,210	458	1,020	155	470	203
20	409	124	111	157	318	1,430	1,700	455	803	151	417	427
21	342	116	127	151	324	1,160	1,240	1,720	658	197	378	350
22	293	109	114	136	328	1,020	987	1,330	566	197	348	257
23	720	101	108	128	335	930	909	910	497	187	321	204
24	546	100	107	127	336	1,100	878	687	446	170	288	176
25	428	95	104	123	370	1,600	798	564	404	157	267	164
26	366	96	105	118	825	1,460	813	489	364	263	245	158
27	326	94	102	119	1,520	1,240	3,630	435	333	636	227	141
28	293	95	105	115	1,120	1,100	2,910	392	364	349	205	134
29	259	97	100	596	---	1,000	1,910	357	342	273	199	157
30	231	98	98	3,660	---	1,000	1,460	397	310	3,210	195	154
31	201	---	102	2,400	---	1,040	---	6,060	---	1,950	177	---
Mean	475	126	108	335	559	1,176	1,137	1,030	1,384	379	1,338	171
Max	3,990	194	153	3,660	1,520	3,730	3,630	6,060	8,840	3,210	5,370	427
Min	89	94	93	93	318	438	499	357	310	151	177	109
In.	1.19	0.31	0.27	0.84	1.26	2.94	2.75	2.57	3.34	0.95	3.34	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2013[a], BY WATER YEAR (WY)

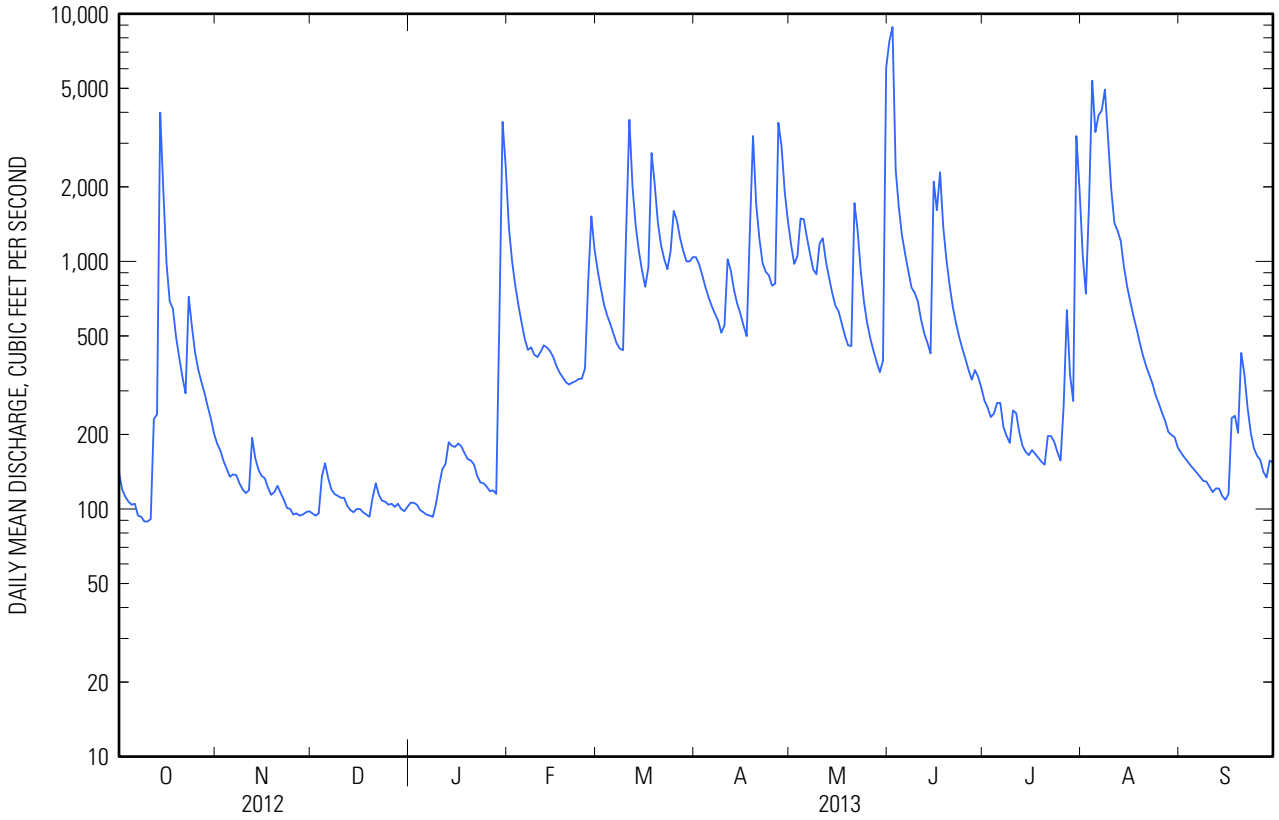
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	280	481	375	489	566	1,047	916	853	546	270	196	347
Max	2,099	2,292	1,122	1,981	1,531	3,221	2,681	2,353	2,613	990	1,338	1,657
(WY)	(2010)	(1973)	(1974)	(2005)	(2008)	(2008)	(2011)	(2002)	(2008)	(1979)	(2013)	(2010)
Min	54.4	55.1	55.0	53.3	77.7	113	174	116	98.2	55.1	54.7	40.7
(WY)	(2007)	(1977)	(1977)	(1977)	(2006)	(2006)	(2006)	(1977)	(2006)	(2012)	(1980)	(1980)

07052250 JAMES RIVER NEAR BOAZ, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1972 - 2013[a]	
Annual mean	236		686		530	
Highest annual mean					1,100	2008
Lowest annual mean					168	2006
Highest daily mean	4,960	Mar 22	8,840	Jun 2	33,800	Mar 19, 2008
Lowest daily mean	36	Jul 30	89	Oct 9[b]	36	Sep 22, 1980[c]
Annual seven-day minimum	38	Jul 25	95	Oct 5	38	Sep 21, 1980[d]
Maximum peak flow			16,300	Jun 2	41,900	Mar 19, 2008
Maximum peak stage			14.50	Jun 2	23.55	Mar 19, 2008
Instantaneous low flow			81	Oct 9[b]	29	Jul 30, 2012[e]
Annual runoff (inches)	6.94		20.16		15.57	
10 percent exceeds	385		1,470		1,110	
50 percent exceeds	138		342		230	
90 percent exceeds	47		105		69	

[a] For Period of Record
[b] Also Oct 10
[c] Also Jul 30, 2012
[d] Also Jul 25, 2012
[e] Also Jul 31, 2012



07052250 JAMES RIVER NEAR BOAZ, 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	e2.52	2.69	2.38	2.43	4.77	4.09	4.22	4.44	8.62	2.79	4.27	2.61
2	e2.48	2.66	2.38	2.41	4.22	3.87	4.14	4.15	13.18	2.76	3.76	2.60
3	2.43	2.61	2.37	2.41	3.90	3.68	4.00	4.08	5.92	2.68	3.67	2.57
4	2.39	2.57	2.42	2.40	3.67	3.55	3.86	4.81	5.06	2.67	9.09	2.53
5	2.40	2.52	2.61	2.39	3.50	3.48	3.74	4.84	4.54	2.71	6.32	2.52
6	2.39	2.53	2.53	2.39	3.37	3.41	3.66	4.56	4.25	2.81	6.86	2.50
7	2.35	2.53	2.47	2.37	3.24	3.32	3.58	4.30	4.01	2.63	6.85	2.48
8	2.35	2.50	2.47	2.34	3.30	3.25	3.51	4.08	3.81	2.58	8.98	2.46
9	2.32	2.45	2.44	2.36	3.24	3.24	3.41	3.93	3.63	2.53	6.91	2.46
10	2.32	2.44	2.43	2.50	3.18	4.37	3.36	4.52	3.66	2.52	5.49	2.44
11	2.33	2.44	2.44	2.53	3.21	7.95	4.18	4.57	3.47	2.71	4.83	2.43
12	2.46	2.79	2.40	2.58	3.28	5.53	4.10	4.21	3.34	2.60	4.40	2.45
13	2.86	2.62	2.40	2.67	3.27	4.77	3.85	3.98	3.24	2.52	4.50	2.44
14	8.55	2.56	2.40	2.70	3.25	4.35	3.70	3.80	3.15	2.49	4.13	2.39
15	5.50	2.52	2.38	2.69	3.20	4.08	3.58	3.66	3.07	2.45	3.90	2.38
16	4.25	2.51	2.39	2.71	3.13	3.89	3.47	3.64	5.02	2.48	3.74	2.44
17	3.78	2.47	2.37	2.67	3.07	3.76	3.37	3.49	6.62	2.47	3.57	2.47
18	3.71	2.46	2.37	2.64	3.03	5.84	3.58	3.37	4.72	2.45	3.46	2.83
19	3.42	2.47	2.36	2.62	3.00	5.60	7.36	3.30	4.18	2.44	3.32	2.74
20	3.27	2.49	2.39	2.61	2.97	4.83	5.18	3.23	3.85	2.43	3.24	2.70
21	3.13	2.45	2.49	2.61	2.97	4.43	4.55	4.88	3.59	2.45	3.15	3.10
22	3.01	2.44	2.44	2.54	2.99	4.21	4.18	4.71	3.43	2.57	3.08	2.87
23	3.18	2.40	2.41	2.49	3.01	4.08	3.97	4.09	3.30	2.54	3.02	2.71
24	3.54	2.40	2.41	2.51	3.02	4.11	3.99	3.72	3.20	2.49	2.92	2.63
25	3.31	2.38	2.39	2.50	3.08	4.96	3.90	3.49	3.11	2.44	2.88	2.57
26	3.17	2.39	2.39	2.47	3.66	4.85	3.74	3.36	3.00	2.41	2.82	2.57
27	3.07	2.35	2.38	2.46	4.96	4.53	6.15	3.25	2.94	3.62	2.79	2.50
28	3.01	2.36	2.39	2.45	4.38	4.31	6.50	3.15	2.91	3.00	2.71	2.47
29	2.92	2.36	2.38	2.46	---	4.17	5.41	3.07	2.94	2.79	2.69	2.54
30	2.85	2.38	2.39	6.14	---	4.15	4.85	3.01	2.89	5.95	2.70	2.58
31	2.76	---	2.42	5.99	---	4.12	---	9.07	---	5.53	2.64	---
Mean	3.16	2.49	2.42	2.74	3.42	4.35	4.24	4.09	4.29	2.82	4.28	2.57
Max	8.55	2.79	2.61	6.14	4.96	7.95	7.36	9.07	13.18	5.95	9.09	3.10
Min	2.32	2.35	2.36	2.34	2.97	3.24	3.36	3.01	2.89	2.41	2.64	2.38