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 1,035.64 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 7,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 22	0130	*8,340	*10.36

Minimum discharge, 29 ft^3/s, July 30, 31.

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 07052250, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07052250.2012.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	79	72	209	244	235	254	430	238	320	56	41	267
2	73	71	200	224	217	239	399	207	196	187	47	262
3	75	88	190	216	203	223	365	186	161	100	42	132
4	78	105	252	208	434	208	336	172	158	81	39	112
5	75	90	231	199	587	196	318	158	132	72	40	90
6	74	93	240	198	562	192	294	145	123	60	56	76
7	72	552	237	195	466	182	275	180	111	55	45	72
8	70	979	220	187	409	177	286	192	103	58	42	221
9	68	904	206	177	361	175	258	160	98	62	66	131
10	67	614	197	172	329	166	244	144	91	64	62	100
11	69	441	188	171	298	163	230	134	126	60	48	85
12	82	342	176	166	263	226	217	126	192	58	42	74
13	113	277	233	157	247	199	229	121	137	52	41	68
14	97	234	312	155	240	190	451	114	128	49	41	62
15	82	211	523	152	246	181	490	112	118	47	41	740
16	76	187	787	149	280	176	655	110	104	46	45	875
17	78	167	568	148	344	167	444	110	94	45	198	595
18	98	148	439	143	358	159	372	101	88	43	102	379
19	110	139	364	139	337	151	326	95	85	43	69	265
20	89	132	802	139	318	281	295	81	78	42	59	206
21	77	141	1,390	136	307	3,300	265	95	75	43	55	324
22	73	338	926	132	298	4,960	237	95	79	39	50	325
23	66	343	687	128	279	2,470	221	91	73	39	46	241
24	65	387	545	127	258	2,080	206	88	66	42	45	190
25	66	310	451	191	249	1,390	195	82	62	38	42	160
26	67	271	388	268	229	1,070	183	80	62	38	42	140
27	66	307	360	279	227	877	171	77	61	39	45	270
28	68	263	344	331	219	734	163	71	61	39	44	279
29	67	252	300	297	284	626	155	74	61	37	40	203
30	67	233	269	263	---	547	203	84	59	36	38	165
31	70	---	256	255	---	484	---	417	---	39	86	---
Mean	76.7	290	403	192	313	724	297	134	110	55.1	54.8	237
Max	113	979	1,390	331	587	4,960	655	417	320	187	198	875
Min	65	71	176	127	203	151	155	71	59	36	38	62
In.	0.19	0.70	1.01	0.48	0.73	1.81	0.72	0.33	0.27	0.14	0.14	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2012[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	270	499	389	497	566	1,040	904	844	502	264	135	356
Max	2,099	2,292	1,122	1,981	1,531	3,221	2,681	2,353	2,613	990	359	1,657
(WY)	(2010)	(1973)	(1974)	(2005)	(2008)	(2008)	(2011)	(2002)	(2008)	(1979)	(1979)	(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)

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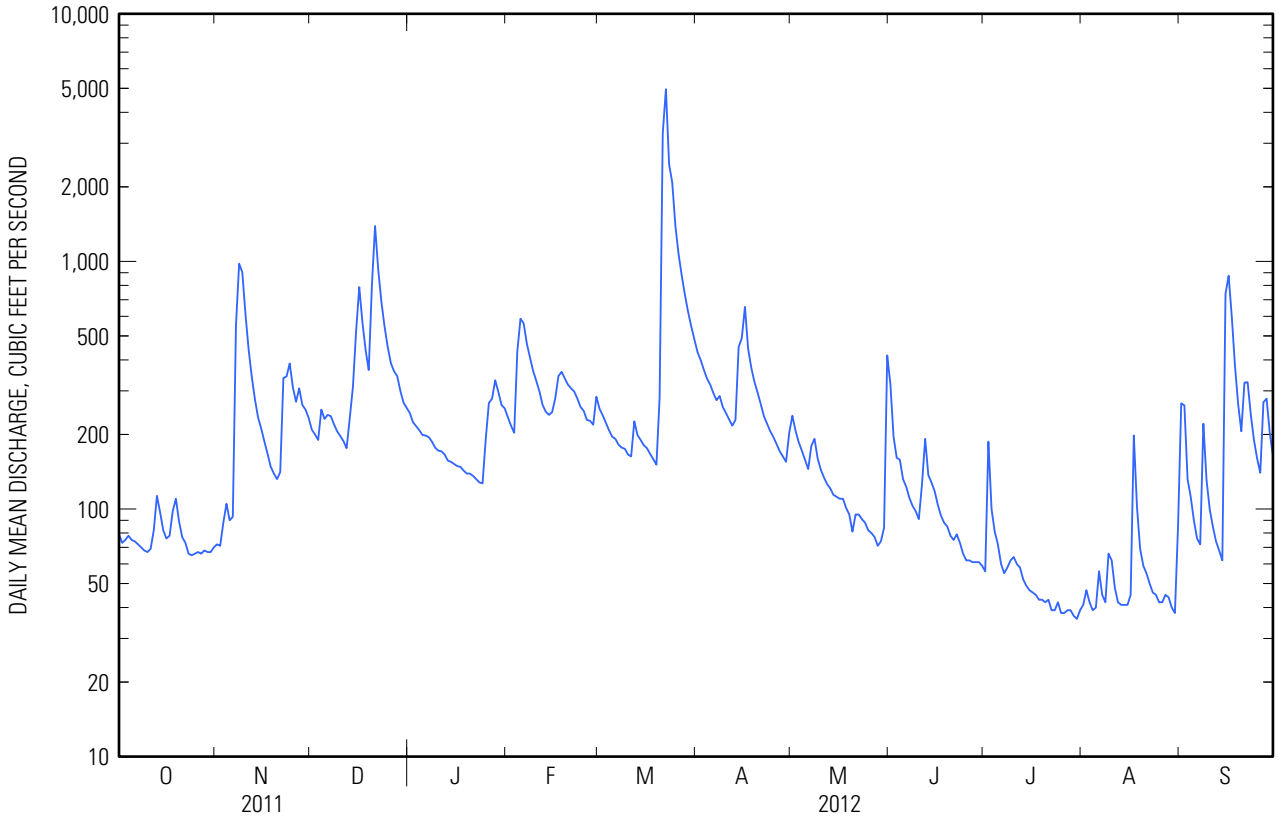
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1972 - 2012[a]	
Annual mean	588		240		521	
Highest annual mean					1,100	2008
Lowest annual mean					168	2006
Highest daily mean	24,000	Apr 26	4,960	Mar 22	33,800	Mar 19, 2008
Lowest daily mean	53	Sep 5	36	Jul 30	36	Sep 22, 1980[b]
Annual seven-day minimum	56	Sep 3	38	Jul 25	38	Sep 21, 1980[c]
Maximum peak flow			8,340	Mar 22	41,900	Mar 19, 2008
Maximum peak stage			10.36	Mar 22	23.55	Mar 19, 2008
Instantaneous low flow			29	Jul 30[d]	29	Jul 30, 2012[e]
Annual runoff (inches)	17.28		7.08		15.33	
10 percent exceeds	1,160		436		1,090	
50 percent exceeds	202		166		227	
90 percent exceeds	72		47		67	

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



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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	2.31	2.31	2.69	2.87	2.85	2.88	3.28	2.81	e3.06	2.13	2.10	3.42
2	2.29	2.29	2.66	2.78	2.78	e2.83	3.22	2.75	2.68	2.12	2.17	3.10
3	2.29	2.33	2.61	2.77	2.74	2.81	3.15	2.69	2.56	e2.35	2.12	2.54
4	2.32	2.45	2.87	2.76	3.71	2.76	3.07	2.64	2.56	2.26	2.11	2.49
5	2.30	2.37	2.76	2.72	3.57	2.72	3.04	2.59	2.48	2.24	2.10	2.39
6	2.31	2.40	2.78	2.73	3.54	e2.71	2.99	2.55	e2.44	2.15	2.22	2.32
7	2.29	2.47	2.81	2.71	3.35	2.67	2.93	2.59	2.38	2.15	2.16	2.28
8	2.30	3.31	2.74	2.69	3.25	2.66	3.00	2.71	2.35	2.14	2.13	3.16
9	2.29	4.03	2.69	2.65	3.16	2.66	e2.90	2.60	2.34	2.19	2.28	2.58
10	2.29	3.59	2.66	2.61	3.07	2.63	2.86	2.54	e2.30	2.21	2.26	2.42
11	2.30	3.28	2.64	2.64	3.01	2.60	2.83	2.51	2.30	e2.18	2.19	2.36
12	2.35	3.07	2.59	2.62	2.92	2.89	2.79	2.47	2.67	2.17	2.16	2.31
13	2.47	2.90	2.63	2.57	2.87	2.72	e2.79	e2.46	2.50	2.14	2.14	2.28
14	2.42	2.79	2.94	2.56	2.86	2.69	3.13	2.43	2.46	2.13	2.14	2.24
15	2.36	2.70	3.54	2.57	2.86	2.66	3.26	2.43	2.43	2.11	2.13	2.40
16	2.34	2.62	3.96	2.57	2.94	2.64	3.71	2.41	2.36	2.11	2.12	4.05
17	2.35	2.57	3.55	2.57	3.07	2.61	3.32	2.42	2.31	2.12	3.23	3.65
18	2.39	2.48	3.30	2.54	3.12	2.60	3.16	2.38	2.29	e2.11	2.45	3.22
19	2.48	2.46	3.14	2.51	3.07	2.56	e3.05	2.36	2.27	2.10	2.29	2.94
20	2.39	2.44	4.24	2.50	3.00	2.66	2.98	e2.27	2.23	2.09	2.23	2.77
21	2.32	2.47	4.90	2.50	3.00	4.29	2.91	2.35	2.21	e2.14	2.18	2.64
22	2.31	2.69	4.14	2.49	3.00	8.59	2.83	2.39	2.24	2.10	2.17	3.06
23	2.28	2.96	3.76	2.48	2.95	5.72	2.79	2.33	2.21	2.11	2.13	2.86
24	2.28	3.16	3.53	2.48	2.87	5.66	2.74	2.31	2.18	2.10	2.15	2.70
25	2.27	2.98	3.34	2.55	2.86	4.79	2.71	2.30	2.15	2.06	2.13	2.60
26	2.28	2.86	3.20	2.93	2.79	4.34	e2.67	2.28	2.14	2.08	2.13	2.51
27	2.29	2.98	3.14	2.84	2.79	4.05	2.64	2.27	2.16	2.10	2.12	2.48
28	2.28	2.84	3.11	3.07	2.78	3.82	2.63	2.25	2.15	2.10	2.15	2.98
29	2.28	2.83	3.00	2.99	2.80	e3.65	2.58	2.28	e2.16	2.07	2.14	2.75
30	2.29	2.78	2.93	2.92	---	3.51	2.61	2.29	2.15	2.05	2.11	2.62
31	2.30	---	2.90	2.90	---	3.38	---	2.36	---	2.08	2.19	---
Mean	2.32	2.78	3.15	2.68	3.02	3.41	2.95	2.45	2.36	2.14	2.20	2.74
Max	2.48	4.03	4.90	3.07	3.71	8.59	3.71	2.81	3.06	2.35	3.23	4.05
Min	2.27	2.29	2.59	2.48	2.74	2.56	2.58	2.25	2.14	2.05	2.10	2.24