

Water-Data Report 2011

07050690 PEARSON CREEK NEAR SPRINGFIELD, MO

Upper White Basin
James Subbasin

LOCATION.--Lat 37°10'40.6", long 93°11'54.2" referenced to North American Datum of 1983, in NW ¼ NE ¼ NW ¼ sec.35, T.29 N., R.21 W., Greene County, MO, Hydrologic Unit 11010002, on downstream side of Farm Road 148 bridge, 1.4 mi east of Highway 65 and 0.13 mi south of Highway D (Sunshine).

DRAINAGE AREA.--21.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 21, 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,169.30 ft above North American Vertical Datum of 1988.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,170 ft³/s, Apr. 25, gage height, 8.35 ft; minimum discharge, 3.7 ft³/s, Sept. 13, gage height, 2.86 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	7.4	40	11	6.2	49	46	93	41	11	5.5	4.7
2	19	15	33	10	5.6	46	42	117	38	10	5.2	4.5
3	18	13	28	9.5	5.5	42	39	93	35	18	5.0	4.4
4	17	11	25	9.0	5.6	39	37	81	33	24	5.4	4.4
5	16	9.6	21	8.6	5.8	41	33	72	32	19	7.4	4.3
6	14	8.7	19	8.4	6.1	38	31	65	30	16	6.5	4.3
7	14	8.1	17	8.1	6.9	37	28	60	29	16	5.6	4.3
8	13	7.7	16	7.9	6.9	45	26	55	28	15	7.8	4.2
9	12	7.5	14	7.6	6.7	62	24	51	27	13	12	4.1
10	11	7.4	13	7.5	6.5	60	23	47	26	12	10	4.1
11	11	7.2	12	7.3	6.5	53	26	44	25	11	8.7	4.4
12	11	7.2	11	6.9	6.9	47	23	43	24	10	7.4	4.1
13	11	7.1	11	6.8	9.3	43	21	47	23	11	7.4	3.8
14	10	7.0	10	6.6	18	150	19	41	22	10	6.7	4.9
15	9.8	6.9	9.9	6.5	43	143	38	38	22	9.3	5.9	6.4
16	9.4	6.8	9.6	6.5	60	114	35	36	21	8.8	10	5.4
17	9.1	6.9	9.2	6.4	55	94	31	34	20	8.0	11	9.2
18	8.9	8.1	8.8	6.4	46	80	28	33	19	7.7	8.0	25
19	10	7.7	8.7	6.2	38	68	25	33	19	7.5	6.9	21
20	9.2	7.3	8.4	6.3	33	62	24	44	18	7.0	6.2	15
21	8.7	7.0	8.3	6.1	29	55	23	66	18	6.8	5.8	12
22	8.4	9.8	7.9	6.1	25	50	32	55	17	6.7	5.4	14
23	8.5	20	7.8	6.2	22	46	39	52	16	6.3	5.5	14
24	9.7	26	8.3	6.2	39	42	117	60	16	6.3	5.8	12
25	9.1	296	8.3	6.0	84	39	1,280	73	15	6.4	5.4	11
26	9.3	153	7.8	6.0	72	57	702	67	14	6.1	5.1	9.6
27	8.5	99	7.3	5.9	62	73	284	64	14	5.8	5.1	8.1
28	8.0	72	7.2	5.9	56	69	172	66	13	5.6	5.1	6.9
29	7.8	57	7.1	5.8	---	62	126	60	13	5.3	5.0	6.2
30	7.6	47	7.0	5.8	---	55	102	52	12	5.4	5.0	5.8
31	7.5	---	11	5.8	---	50	---	45	---	5.7	5.1	---
Mean	11.2	31.8	13.3	7.07	27.4	61.6	116	57.6	22.7	10.0	6.67	8.07
Max	20	296	40	11	84	150	1,280	117	41	24	12	25
Min	7.5	6.8	7.0	5.8	5.5	37	19	33	12	5.3	5.0	3.8
In.	0.61	1.69	0.73	0.39	1.36	3.39	6.16	3.17	1.20	0.55	0.37	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.8	15.1	16.7	29.2	33.3	41.6	40.2	46.1	31.7	18.9	8.68	20.1
Max	110	50.2	43.5	123	89.0	163	116	126	162	59.6	19.3	97.1
(WY)	(2010)	(2005)	(2005)	(2005)	(2008)	(2008)	(2011)	(2002)	(2008)	(2000)	(2009)	(2010)
Min	2.54	3.77	3.18	3.40	3.32	4.32	5.20	5.63	5.71	3.59	1.94	1.98
(WY)	(2007)	(2000)	(2006)	(2006)	(2006)	(2006)	(2000)	(2000)	(2005)	(2006)	(2006)	(2002)

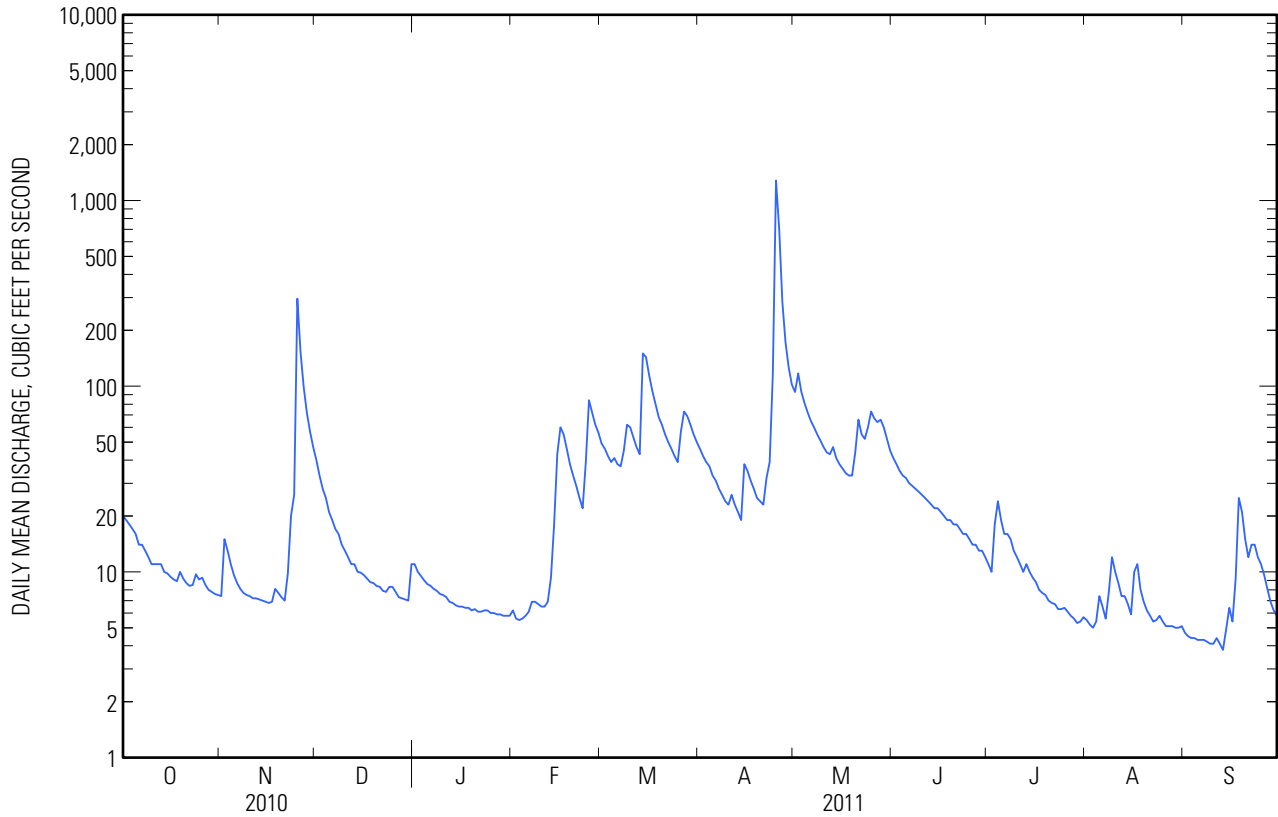
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SUMMARY STATISTICS

	Calendar Year 2010	Water Year 2011	Water Years 1999 - 2011
Annual mean	33.7	31.0	26.5
Highest annual mean			60.7 2008
Lowest annual mean			7.89 2006
Highest daily mean	336 Sep 1	1,280 Apr 25	1,280 Apr 25, 2011
Lowest daily mean	4.1 Aug 30 ^a	3.8 Sep 13	1.3 Sep 10, 2006
Annual seven-day minimum	4.2 Aug 25	4.1 Sep 7	1.5 Sep 4, 2006
Maximum peak flow		2,170 Apr 25	2,980 Jun 13, 2008
Maximum peak stage		8.35 Apr 25	11.10 Jun 13, 2008
Instantaneous low flow		3.7 Sep 13	1.3 Sep 9, 2006 ^b
Annual runoff (inches)	21.77	20.04	17.14
10 percent exceeds	82	61	58
50 percent exceeds	17	12	11
90 percent exceeds	7.0	5.8	3.2

^a Also Aug 31

^b Also Sep 10, 11, 2006



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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
OBSERVATION AT 0800

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.06	2.74	3.29	2.87	2.72	3.44	3.32	3.92	3.51	3.05	2.95	2.92
2	3.03	2.99	3.21	2.84	2.70	3.40	3.27	4.09	3.48	3.03	2.93	2.91
3	3.00	2.90	3.15	2.82	2.69	3.36	3.22	3.98	3.44	3.03	2.92	2.90
4	2.98	2.84	3.11	2.81	2.70	3.31	3.20	3.90	3.42	3.35	2.92	2.91
5	2.95	2.81	3.06	2.80	2.71	3.35	3.16	3.81	3.39	3.26	3.01	2.90
6	2.93	2.78	3.02	2.78	2.72	3.31	3.13	3.76	3.37	3.19	3.02	2.90
7	2.91	2.76	2.99	2.78	2.75	3.29	3.09	3.74	3.35	3.17	2.97	2.90
8	2.89	2.75	2.95	2.77	2.76	3.29	3.07	3.66	3.34	3.17	2.99	2.90
9	2.88	2.74	2.93	2.76	2.75	3.56	3.05	3.62	3.32	3.13	3.17	2.89
10	2.86	2.74	2.91	2.76	2.73	3.56	3.03	3.58	3.31	3.11	3.14	2.88
11	2.85	2.73	2.89	2.75	2.73	3.48	3.09	3.54	3.29	3.08	3.09	2.91
12	2.87	2.72	2.87	2.73	2.75	3.42	3.03	3.52	3.28	3.06	3.05	2.89
13	2.84	2.73	2.85	2.72	2.81	3.35	3.00	3.59	3.27	3.06	3.04	2.87
14	2.82	2.72	2.83	2.73	2.99	4.16	2.97	3.51	3.25	3.07	3.03	2.90
15	2.81	2.72	2.82	2.73	3.32	4.13	3.41	3.48	3.26	3.05	2.98	3.02
16	2.80	2.72	2.82	2.73	3.55	3.93	3.26	3.45	3.24	3.02	3.01	2.96
17	2.79	2.71	2.81	2.73	3.52	3.78	3.19	3.43	3.23	3.01	3.16	2.96
18	2.79	2.78	2.79	2.73	3.42	3.67	3.14	3.42	3.21	2.99	3.08	3.45
19	2.83	2.75	2.79	2.72	3.32	3.56	3.10	3.41	3.20	2.98	3.03	3.38
20	2.80	2.73	2.78	2.73	3.24	3.50	3.06	3.39	3.19	2.98	3.00	3.26
21	2.78	2.72	2.78	2.71	3.20	3.42	3.03	3.77	3.18	2.97	2.98	3.18
22	2.77	2.72	2.76	2.72	3.15	3.37	3.22	3.66	3.16	2.96	2.95	3.16
23	2.77	3.08	2.76	2.72	3.11	3.32	3.20	3.60	3.15	2.96	2.95	3.24
24	2.82	2.98	2.76	2.72	3.08	3.27	3.77	3.70	3.14	2.95	2.98	3.18
25	2.79	5.07	2.78	2.71	3.78	3.23	6.52	3.87	3.13	2.95	2.97	3.16
26	2.80	4.19	2.76	2.71	3.66	3.22	6.07	3.77	3.12	2.96	2.94	3.12
27	2.78	3.86	2.75	2.71	3.58	3.59	4.89	3.71	3.11	2.94	2.94	3.08
28	2.76	3.64	2.75	2.70	3.53	3.56	4.43	3.76	3.11	2.93	2.94	3.03
29	2.75	3.49	2.75	2.70	---	3.50	4.19	3.72	3.09	2.92	2.94	3.00
30	2.74	3.38	2.75	2.70	---	3.43	4.04	3.64	3.07	2.92	2.94	2.97
31	2.74	---	2.86	2.70	---	3.37	---	3.57	---	2.94	2.94	---
Mean	2.84	3.02	2.88	2.74	3.07	3.49	3.54	3.66	3.25	3.04	3.00	3.02
Max	3.06	5.07	3.29	2.87	3.78	4.16	6.52	4.09	3.51	3.35	3.17	3.45
Min	2.74	2.71	2.75	2.70	2.69	3.22	2.97	3.39	3.07	2.92	2.92	2.87