



Water-Data Report 2010

**05514712 PERUQUE CREEK AT LAKE ST. LOUIS, MO**

Upper Mississippi Basin  
Peruque Subbasin

LOCATION.--Lat 38°47'13", long 90°49'39" referenced to North American Datum of 1983, in sec.32, T.47 N., R.2 E., St. Charles County, MO, Hydrologic Unit 07110009, on downstream left wingwall of bridge on Duello Road, 1.5 mi upstream from Lake St. Louis, 1.33 mi south of I-70, 1.3 mi west of Highway 40.

DRAINAGE AREA.--42.5 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Sept. 27, 2005 to June 9, 2010.

REVISED RECORDS.--WDR US-2008: 2006-2007(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 500.13 ft above North American Vertical Datum of 1988.

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

EXTREMES FOR CURRENT YEAR.--For the period Oct. 1 to June 9, maximum discharge, 5,920 ft<sup>3</sup>/s, Oct. 29, gage height, 12.59 ft; minimum discharge, 0.39 ft<sup>3</sup>/s, Oct. 1, gage height, 2.83 ft.

## 05514712 PERUQUE CREEK AT LAKE ST. LOUIS, MO—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.9	146	4.0	33	13	19	28	18	5.9	---	---	---
2	2.0	108	3.5	23	12	17	23	13	9.9	---	---	---
3	1.3	48	3.4	19	10	16	255	12	34	---	---	---
4	0.73	27	2.7	14	9.3	15	80	12	17	---	---	---
5	0.48	16	2.2	12	17	14	186	8.7	8.7	---	---	---
6	1.1	12	1.9	11	25	13	68	6.3	5.9	---	---	---
7	0.89	9.1	1.7	12	23	12	39	5.9	4.7	---	---	---
8	1,980	15	55	11	22	14	20	5.5	4.9	---	---	---
9	1,400	6.5	194	10	19	15	13	5.4	7.9	---	---	---
10	159	4.9	59	8.7	15	18	10	6.7	---	---	---	---
11	52	4.1	29	9.6	12	230	8.5	11	---	---	---	---
12	23	3.4	20	9.2	12	89	7.5	389	---	---	---	---
13	19	3.0	63	8.8	11	140	6.6	155	---	---	---	---
14	791	2.6	43	11	13	124	5.7	89	---	---	---	---
15	380	37	26	25	11	86	5.2	128	---	---	---	---
16	75	1,210	16	26	10	51	4.9	248	---	---	---	---
17	31	854	13	22	8.2	38	5.0	244	---	---	---	---
18	16	395	15	17	8.1	31	4.8	81	---	---	---	---
19	11	201	19	16	7.8	26	4.6	31	---	---	---	---
20	8.2	97	16	29	26	20	4.7	31	---	---	---	---
21	6.7	51	13	158	934	24	4.3	66	---	---	---	---
22	60	31	10	146	545	66	4.3	30	---	---	---	---
23	577	16	457	156	169	42	6.9	14	---	---	---	---
24	61	71	755	948	92	25	67	10	---	---	---	---
25	31	74	525	161	53	555	213	7.1	---	---	---	---
26	158	23	155	79	37	248	177	6.2	---	---	---	---
27	267	12	96	51	27	104	64	6.8	---	---	---	---
28	207	8.2	69	39	22	129	28	5.9	---	---	---	---
29	1,880	6.3	52	28	---	91	15	5.5	---	---	---	---
30	2,230	5.2	41	19	---	52	11	5.5	---	---	---	---
31	296	---	39	14	---	38	---	5.4	---	---	---	---
<b>Mean</b>	346	117	90.3	68.6	77.3	76.2	45.7	53.6	---	---	---	---
<b>Max</b>	2,230	1,210	755	948	934	555	255	389	---	---	---	---
<b>Min</b>	0.48	2.6	1.7	8.7	7.8	12	4.3	5.4	---	---	---	---
<b>In.</b>	9.39	3.06	2.45	1.86	1.89	2.07	1.20	1.46	---	---	---	---

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	72.1	30.5	37.8	28.5	41.3	66.0	54.7	81.3	49.6	34.9	6.91	30.8
<b>Max</b>	346	117	90.3	68.6	77.3	166	112	256	153	93.1	13.0	106
<b>(WY)</b>	(2010)	(2010)	(2010)	(2010)	(2010)	(2008)	(2008)	(2008)	(2009)	(2008)	(2009)	(2008)
<b>Min</b>	1.48	1.87	6.81	8.56	5.19	22.3	12.9	16.8	3.77	2.83	1.66	1.67
<b>(WY)</b>	(2008)	(2008)	(2006)	(2009)	(2006)	(2006)	(2006)	(2006)	(2007)	(2007)	(2006)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Years 2005 - 2010	
<b>Annual mean</b>	80.7		34.9	
<b>Highest annual mean</b>			70.3	2008
<b>Lowest annual mean</b>			10.4	2006
<b>Highest daily mean</b>	2,230	Oct 30	3,720	May 26, 2008
<b>Lowest daily mean</b>	0.41	Sep 19	0.02	Oct 11, 2006
<b>Annual seven-day minimum</b>	0.64	Sep 13	0.03	Oct 9, 2006
<b>Maximum peak flow</b>			<sup>a</sup> 8,150	May 26, 2008
<b>Maximum peak stage</b>			14.61	May 26, 2008
<b>Instantaneous low flow</b>			0.01	Oct 13, 2006 <sup>b</sup>
<b>Annual runoff (inches)</b>	25.78		11.16	
<b>10 percent exceeds</b>	147		53	
<b>50 percent exceeds</b>	12		6.2	
<b>90 percent exceeds</b>	1.8		0.62	

<sup>a</sup> Discharge determined by indirect measurement of peak flow.

<sup>b</sup> Also Oct 16, 2006

