

Water-Data Report 2010

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°14'25", long 80°58'28" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, on left bank on downstream side of culvert at U.S. Highway 74, 0.7 mi downstream of Interstate Highway 85, and 2.5 mi northwest of airport in Charlotte.

DRAINAGE AREA.--10.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 567.97 ft above North American Vertical Datum of 1988, from U.S. Geological Survey benchmark. Prior to October 1, 1999 at same site at datum 569.97 ft. Radio telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred September 24, 2002. Minimum discharge for current water year affected by upstream construction. Minimum discharge for current water year also occurred September 19-25.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.54	51	3.6	11	13	6.0	9.3	4.2	78	4.1	1.9	0.55
2	0.56	7.4	118	e9.5	64	8.2	8.0	3.9	75	2.0	0.96	0.51
3	0.53	5.2	41	e9.0	28	13	7.1	5.7	27	1.5	2.9	0.51
4	0.38	3.6	9.9	e8.0	14	8.0	6.7	4.5	7.1	1.2	2.3	0.42
5	6.0	2.1	6.9	7.9	294	7.0	6.2	3.6	5.2	1.1	2.3	0.38
6	1.4	1.6	5.5	7.7	75	6.5	5.5	3.7	3.2	0.93	38	0.38
7	0.60	1.8	3.9	7.4	14	6.3	e5.5	3.2	3.0	0.86	64	0.35
8	0.45	1.6	13	e7.0	8.4	6.1	e8.3	3.2	1.8	0.80	3.9	0.33
9	1.4	1.9	156	7.3	8.6	5.9	9.5	3.2	1.8	0.74	1.9	0.30
10	0.38	49	19	7.1	7.9	6.1	5.6	3.3	1.8	0.82	1.6	0.28
11	0.31	225	12	7.0	6.7	8.6	5.2	4.1	1.5	0.74	0.84	0.33
12	1.4	e48	8.5	7.2	6.4	39	4.9	3.5	1.2	53	0.68	0.46
13	2.3	13	14	7.2	8.7	58	4.4	2.9	1.1	8.1	0.58	0.30
14	3.6	6.3	9.0	7.1	7.5	24	4.5	2.7	1.1	4.5	8.7	0.21
15	5.3	4.2	6.2	7.0	9.9	13	4.3	2.6	1.1	1.9	25	e0.18
16	3.2	3.2	e4.1	7.2	7.3	12	4.2	3.0	1.1	1.8	3.8	0.17
17	2.1	2.4	e3.4	145	6.1	9.1	3.8	21	1.1	1.5	1.5	0.18
18	2.2	2.8	e44	17	5.4	8.4	3.7	6.4	2.2	2.0	1.00	0.13
19	1.1	3.4	55	10	5.0	7.8	3.5	13	1.5	1.1	160	0.13
20	1.2	2.1	14	8.4	5.1	7.6	4.2	4.8	1.4	0.89	15	0.13
21	1.2	1.8	9.3	25	5.4	11	9.8	4.6	1.3	0.79	5.1	0.14
22	1.2	3.0	7.3	16	28	19	6.4	5.1	1.3	0.71	2.9	0.12
23	1.2	28	6.0	9.4	9.9	10	3.7	3.5	1.2	0.64	1.8	0.13
24	e4.7	7.0	5.4	68	9.0	8.8	3.8	3.5	1.0	0.60	1.4	0.14
25	4.3	4.7	347	295	8.0	8.4	14	4.4	1.2	0.54	1.1	0.13
26	2.3	4.0	51	26	6.4	8.3	6.4	3.5	1.2	0.51	1.0	5.2
27	28	6.3	23	12	6.1	8.0	6.7	3.2	0.99	2.1	0.99	48
28	38	2.9	17	8.9	5.9	46	7.9	5.0	1.0	3.8	0.74	28
29	3.3	2.4	12	7.8	---	241	5.2	13	4.8	1.1	0.67	7.5
30	1.5	2.4	e11	12	---	22	4.6	4.6	17	0.75	0.62	8.8
31	1.1	---	e10	14	---	13	---	21	---	1.0	0.57	---
Total	121.75	498.1	1,046.0	799.1	673.7	656.1	182.9	173.9	248.19	102.12	353.75	104.39
Mean	3.93	16.6	33.7	25.8	24.1	21.2	6.10	5.61	8.27	3.29	11.4	3.48
Max	38	225	347	295	294	241	14	21	78	53	160	48
Min	0.31	1.6	3.4	7.0	5.0	5.9	3.5	2.6	0.99	0.51	0.57	0.12
Cfsm	0.36	1.54	3.12	2.39	2.23	1.96	0.56	0.52	0.77	0.31	1.06	0.32
In.	0.42	1.72	3.60	2.75	2.32	2.26	0.63	0.60	0.85	0.35	1.22	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.27	8.76	10.5	12.5	14.1	17.7	12.6	8.57	9.15	8.01	8.92	6.69
Max	23.0	26.6	33.7	28.9	33.4	39.7	44.9	55.8	29.6	35.2	28.8	23.7
(WY)	(1996)	(2007)	(2010)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(2008)	(2006)
Min	0.73	0.59	2.27	2.79	3.27	3.95	3.29	2.90	1.59	1.35	0.33	0.82
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2006)	(2001)	(2007)	(2001)	(2001)	(2001)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1995 - 2010	
Annual total	4,298.64		4,960.00			
Annual mean	11.8		13.6		10.3	
Highest annual mean					25.1	2003
Lowest annual mean					3.93	2001
Highest daily mean	347	Dec 25	347	Dec 25	835	Jul 23, 1997
Lowest daily mean	0.31	Oct 11	0.12	Sep 22	0.06	Oct 30, 2001
Annual seven-day minimum	0.68	Sep 28	0.13	Sep 18	0.11	Oct 29, 2001
Maximum peak flow			1,540	Dec 25	2,740	Jul 23, 1997
Maximum peak stage			10.45	Dec 25	11.71	Aug 27, 2008
Instantaneous low flow			^a 0.09	Sep 18	^a 0.03	Sep 12, 2002
Annual runoff (cfsm)	1.09		1.26		0.953	
Annual runoff (inches)	14.81		17.08		12.95	
10 percent exceeds	21		25		18	
50 percent exceeds	3.5		4.7		3.4	
90 percent exceeds	1.00		0.59		0.85	

^a See Remarks.

