

Water-Data Report 2007

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 station.

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 also occurred September 29, 30.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3	3.1	5.3	23	18	156	10	4.0	1.7	e2.2	2.7	1.3
2	2.2	2.5	4.6	9.4	14	e365	9.6	e3.8	1.8	e1.6	2.4	3.7
3	2.0	2.6	4.2	7.2	8.3	41	7.9	e3.4	e13	1.7	2.3	0.91
4	2.0	2.5	3.8	6.5	7.1	24	7.5	e4.6	e2.6	1.5	2.2	0.70
5	1.9	2.5	3.9	24	6.8	20	7.3	5.3	1.9	1.4	2.2	0.65
6	2.4	2.5	3.6	24	6.3	17	7.3	4.3	1.6	1.4	2.2	0.58
7	2.4	25	3.5	80	6.0	16	7.4	2.8	1.4	1.7	2.2	0.62
8	12	36	3.5	138	6.0	15	7.5	3.0	1.3	1.5	e2.0	0.77
9	3.1	6.4	3.6	21	5.9	14	7.3	2.8	2.0	12	e2.0	0.69
10	2.0	4.4	3.6	12	5.5	13	7.2	2.6	1.2	6.7	e2.0	0.60
11	2.0	4.0	3.5	9.6	5.2	13	15	2.4	14	1.3	1.8	0.53
12	3.8	18	3.4	8.4	5.0	12	49	3.2	8.2	3.4	1.8	0.67
13	1.8	5.6	3.4	8.0	47	12	12	3.9	4.6	1.6	2.0	0.51
14	1.9	4.5	3.4	7.5	58	11	14	2.2	18	0.89	2.1	1.5
15	1.9	4.3	3.3	6.7	11	11	173	2.0	7.0	1.1	2.0	5.5
16	1.9	141	3.3	6.7	7.8	59	24	2.0	2.9	2.0	2.5	0.90
17	75	13	3.3	6.5	6.8	21	8.8	e1.9	3.1	1.1	2.1	0.54
18	19	8.1	3.4	8.8	6.1	13	6.9	e3.0	3.4	2.4	1.8	0.47
19	6.0	6.6	3.4	8.1	5.4	12	10	3.0	3.5	1.0	1.8	0.42
20	4.4	5.7	3.4	6.5	5.0	11	29	3.1	3.6	0.79	e2.0	0.38
21	3.3	59	3.4	17	4.8	11	6.3	2.8	e2.6	0.64	e2.0	0.39
22	3.1	343	39	36	4.6	10	5.0	2.6	e1.3	0.67	2.2	0.37
23	3.0	39	11	11	4.6	9.7	4.1	2.9	e1.4	0.67	1.9	0.36
24	2.7	15	7.0	8.4	4.5	9.2	3.9	2.7	e1.6	0.66	3.0	0.29
25	3.2	11	107	7.4	54	9.2	4.0	2.6	e20	0.65	1.9	0.27
26	2.7	8.3	21	6.8	15	8.5	3.1	2.4	8.4	0.64	25	0.26
27	9.4	7.2	11	6.4	8.1	8.7	34	2.5	2.9	0.78	9.0	0.25
28	17	6.2	7.8	6.3	6.7	8.5	7.4	2.2	1.9	9.8	1.7	0.20
29	4.2	5.7	6.6	6.1	---	9.6	5.2	2.1	1.5	3.7	1.3	0.20
30	3.3	5.6	6.0	5.9	---	8.4	4.3	1.9	3.1	5.6	3.0	0.20
31	2.9	---	7.8	5.9	---	8.0	---	1.9	---	4.0	0.99	---
Total	204.8	798.3	301.0	539.1	343.5	956.8	498.0	89.9	141.5	75.09	94.09	24.73
Mean	6.61	26.6	9.71	17.4	12.3	30.9	16.6	2.90	4.72	2.42	3.04	0.82
Max	75	343	107	138	58	365	173	5.3	20	12	25	5.5
Min	1.8	2.5	3.3	5.9	4.5	8.0	3.1	1.9	1.2	0.64	0.99	0.20
Cfsm	0.61	2.46	0.90	1.61	1.14	2.86	1.54	0.27	0.44	0.22	0.28	0.08
In.	0.71	2.75	1.04	1.86	1.18	3.30	1.72	0.31	0.49	0.26	0.32	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.11	9.06	8.97	12.3	14.7	16.7	13.7	9.14	9.41	8.60	7.54	7.04
Max	23.0	26.6	23.7	28.9	33.4	39.7	44.9	55.8	29.6	35.2	24.2	23.7
(WY)	(1996)	(2007)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(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 2006		Water Year 2007		Water Years 1995 - 2007	
Annual total	4,521.81		4,066.81			
Annual mean	12.4		11.1		10.3	
Highest annual mean					25.1	2003
Lowest annual mean					3.93	2001
Highest daily mean	343	Nov 22	365	Mar 2	835	Jul 23, 1997
Lowest daily mean	0.86	Jun 22	0.20	Sep 28	0.06	Oct 30, 2001
Annual seven-day minimum	0.98	Jul 15	0.24	Sep 24	0.11	Oct 29, 2001
Maximum peak flow			1,740	Mar 2	2,740	Jul 23, 1997
Maximum peak stage			10.70	Mar 2	11.69	Jul 23, 2006
Instantaneous low flow			^a 0.14	Sep 28	^a 0.03	Sep 12, 2002
Annual runoff (cfsm)	1.15		1.03		0.956	
Annual runoff (inches)	15.58		14.01		12.99	
10 percent exceeds	19		18		19	
50 percent exceeds	3.6		4.0		3.5	
90 percent exceeds	1.6		1.00		0.91	

^a See Remarks.

