

Water-Data Report 2008

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 October 18.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.21	0.50	0.72	3.4	75	1.4	6.8	2.9	1.6	0.79	6.6	10
2	0.23	0.48	0.75	1.8	9.3	1.8	4.3	2.3	1.5	0.70	2.0	5.8
3	0.20	0.64	0.84	1.3	4.3	1.4	6.8	2.2	1.4	0.63	1.0	5.3
4	0.38	0.68	1.0	1.1	2.6	58	15	2.0	1.5	77	0.74	4.9
5	0.27	0.58	0.95	0.96	1.9	41	59	1.7	1.2	22	0.62	4.9
6	0.28	0.54	0.89	0.79	1.9	12	16	1.7	0.95	5.8	0.57	4.7
7	0.26	0.50	0.92	0.66	1.4	43	9.5	1.6	0.88	5.2	0.55	4.4
8	0.28	0.55	0.83	0.73	1.2	19	5.5	1.4	0.82	53	0.50	4.4
9	0.25	0.60	0.81	1.3	1.0	11	4.5	2.7	0.79	16	0.44	4.4
10	0.50	0.67	0.82	3.1	0.97	8.5	4.0	1.6	0.88	8.8	0.41	26
11	0.29	0.71	0.89	5.8	0.81	6.1	3.4	3.9	1.6	5.0	0.38	28
12	0.27	0.59	0.95	2.1	0.83	5.4	6.6	2.7	2.1	2.1	0.37	8.8
13	0.26	0.59	1.0	1.2	4.0	4.4	4.2	1.3	0.94	1.5	1.3	7.3
14	0.25	0.57	1.0	1.2	5.8	4.1	3.4	1.5	0.81	1.2	1.4	6.5
15	0.40	2.6	4.9	1.2	1.6	141	3.5	1.3	0.86	1.1	0.63	6.0
16	0.30	1.8	32	1.0	1.2	47	2.7	6.0	e0.70	0.94	0.44	26
17	0.24	0.82	2.0	34	1.2	15	2.4	2.2	0.67	0.85	0.49	12
18	0.21	0.56	1.3	7.9	3.6	9.2	2.3	1.9	0.66	0.81	0.55	6.0
19	1.2	0.59	0.95	5.7	1.6	31	2.2	2.5	0.61	0.77	0.71	3.5
20	0.85	0.59	0.83	6.2	0.98	25	2.4	1.4	0.61	0.74	0.75	2.7
21	0.39	0.58	4.0	2.1	1.8	9.2	2.2	1.5	0.60	0.67	0.76	2.4
22	0.30	4.9	1.7	1.6	5.9	7.8	2.1	1.3	13	6.4	0.53	2.4
23	0.30	1.4	5.3	2.3	3.0	6.9	2.1	1.2	43	16	0.29	2.0
24	1.6	0.70	3.0	1.5	2.2	6.4	1.8	1.2	3.2	2.0	0.26	1.7
25	14	0.82	1.2	1.1	1.5	6.6	1.7	1.4	1.7	1.2	0.29	1.8
26	19	1.1	8.8	0.95	18	6.3	4.9	1.1	3.1	1.1	195	33
27	3.9	1.2	2.5	0.88	e4.5	5.9	7.4	1.5	19	0.94	603	42
28	0.90	1.2	9.1	0.82	e2.0	5.5	36	33	1.9	0.85	42	6.3
29	0.68	0.77	23	0.79	1.6	5.9	9.4	7.6	1.2	1.6	15	4.4
30	0.61	0.71	56	0.91	---	5.8	4.3	2.9	0.89	0.85	8.8	3.0
31	0.58	---	19	0.90	---	5.0	---	2.1	---	31	7.6	---
Total	49.39	28.54	187.95	95.29	161.69	556.6	236.4	99.6	108.67	267.54	893.98	280.6
Mean	1.59	0.95	6.06	3.07	5.58	18.0	7.88	3.21	3.62	8.63	28.8	9.35
Max	19	4.9	56	34	75	141	59	33	43	77	603	42
Min	0.20	0.48	0.72	0.66	0.81	1.4	1.7	1.1	0.60	0.63	0.26	1.7
Cfsm	0.15	0.09	0.56	0.28	0.52	1.66	0.73	0.30	0.34	0.80	2.67	0.87
In.	0.17	0.10	0.65	0.33	0.56	1.92	0.81	0.34	0.37	0.92	3.08	0.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.71	8.48	8.76	11.6	14.0	16.8	13.3	8.71	8.99	8.60	9.06	7.21
Max	23.0	26.6	23.7	28.9	33.4	39.7	44.9	55.8	29.6	35.2	28.8	23.7
(WY)	(1996)	(2007)	(2003)	(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 2007		Water Year 2008		Water Years 1995 - 2008	
Annual total	3,028.59		2,966.25			
Annual mean	8.30		8.10		10.2	
Highest annual mean					25.1	2003
Lowest annual mean					3.93	2001
Highest daily mean	365	Mar 2	603	Aug 27	835	Jul 23, 1997
Lowest daily mean	0.20	Sep 28	0.20	Oct 3	0.06	Oct 30, 2001
Annual seven-day minimum	0.21	Sep 27	0.26	Oct 1	0.11	Oct 29, 2001
Maximum peak flow			2,680	Aug 27	2,740	Jul 23, 1997
Maximum peak stage			11.71	Aug 27	11.71	Aug 27, 2008
Instantaneous low flow			^a 0.14	Oct 1	^a 0.03	Sep 12, 2002
Annual runoff (cfs)	0.768		0.750		0.941	
Annual runoff (inches)	10.43		10.22		12.79	
10 percent exceeds	15		15		18	
50 percent exceeds	2.6		1.6		3.4	
90 percent exceeds	0.50		0.55		0.85	

^aSee Remarks.