

SANTEE RIVER BASIN

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°58'28", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050101, near right 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.

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

GAGE.--Water-stage recorder. Datum of gage is 568.92 ft above NGVD of 1929 (Mecklenburg County benchmark). Prior to October 1, 1999 at same site at datum 570.92 ft. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year also occurred Sept. 24, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|--------|--------|
| 1 | 0.73 | 0.11 | 0.39 | 0.83 | 0.74 | 0.84 | 18 | e3.4 | 7.7 | 0.58 | 0.41 | 6.0 |
| 2 | 0.70 | 0.10 | 0.38 | 0.82 | 0.78 | 46 | 5.4 | 3.1 | 10 | 3.7 | 0.48 | 1.5 |
| 3 | 0.70 | 0.14 | 0.42 | 0.93 | 0.78 | 45 | 4.2 | 3.4 | 4.2 | 7.6 | 0.53 | 0.86 |
| 4 | 0.66 | 0.16 | 0.38 | 1.3 | 0.77 | 14 | 3.5 | 32 | 3.3 | 1.2 | 0.53 | e0.66 |
| 5 | 0.63 | 0.22 | 0.39 | 1.3 | 0.77 | 7.4 | 3.2 | 41 | 3.6 | 0.81 | 0.56 | 0.28 |
| 6 | 1.1 | 0.14 | 0.41 | 21 | 1.1 | 5.1 | 3.2 | e4.8 | 19 | 0.75 | 0.49 | 0.23 |
| 7 | 0.94 | 0.15 | 0.47 | 4.2 | 34 | 4.4 | 3.4 | 2.0 | 9.5 | 0.91 | 0.40 | 0.14 |
| 8 | 0.64 | 0.19 | 0.41 | 2.1 | 26 | 4.1 | 3.3 | 1.8 | 2.6 | 0.74 | 0.38 | 0.19 |
| 9 | 0.57 | 0.24 | 0.40 | 1.4 | 3.6 | 4.1 | 3.2 | 2.3 | 2.1 | 0.95 | 0.34 | 0.24 |
| 10 | 0.54 | 0.23 | 19 | 1.2 | 5.6 | 3.8 | 3.7 | 1.7 | 1.9 | 0.93 | 0.45 | 0.22 |
| 11 | 0.50 | 0.26 | 15 | 1.2 | 2.6 | 3.4 | 3.3 | 14 | 1.7 | 0.68 | 0.55 | 0.22 |
| 12 | 0.55 | 0.34 | 1.9 | 1.1 | 1.2 | 15 | 3.7 | 3.2 | 1.7 | 0.70 | 0.48 | 0.15 |
| 13 | 0.52 | 0.25 | 1.3 | 1.8 | 0.94 | 13 | 4.3 | 22 | 1.6 | 0.76 | 0.40 | 0.12 |
| 14 | 1.6 | 0.29 | 1.0 | 1.3 | 0.87 | 5.8 | 3.2 | 9.7 | 1.3 | 42 | 0.43 | 20 |
| 15 | 1.7 | 0.38 | 0.81 | 1.1 | 0.85 | 4.2 | 3.1 | 4.2 | 1.2 | 4.5 | 3.2 | 41 |
| 16 | 0.65 | 0.41 | 0.75 | 0.97 | 0.85 | 3.3 | 3.2 | 3.3 | 1.2 | 2.8 | 32 | 21 |
| 17 | 0.76 | 0.45 | 2.3 | 0.95 | 0.86 | 21 | 3.0 | 3.1 | 1.1 | 1.1 | 21 | 9.0 |
| 18 | 0.59 | 0.46 | 12 | 0.92 | 0.87 | 9.2 | 2.9 | 8.1 | 1.0 | 0.98 | 1.5 | 1.1 |
| 19 | 0.57 | 0.52 | 1.6 | 54 | 0.85 | 5.3 | 2.8 | 4.1 | 0.89 | 0.72 | 0.87 | 0.55 |
| 20 | 0.58 | 0.45 | 1.5 | 21 | 0.83 | 4.7 | 2.7 | 3.3 | 0.89 | 0.69 | 0.56 | 1.2 |
| 21 | 0.64 | 0.49 | 0.97 | 8.7 | 0.82 | 21 | 3.0 | 2.8 | 0.78 | 0.69 | 0.51 | 0.43 |
| 22 | 0.74 | 0.40 | 0.84 | 3.0 | 0.84 | 7.0 | 3.2 | 3.0 | 0.79 | 0.72 | 1.3 | 0.38 |
| 23 | 0.73 | 0.45 | 0.82 | 113 | 0.85 | 4.8 | e3.2 | 2.9 | 0.92 | 0.84 | 0.62 | 0.33 |
| 24 | 0.68 | 7.7 | 1.2 | 9.9 | 0.85 | 3.8 | e2.8 | 2.9 | 1.1 | 0.81 | 1.0 | 0.31 |
| 25 | 3.7 | 1.0 | 0.97 | 20 | 0.84 | 3.4 | e3.9 | 2.5 | 0.89 | 0.81 | 4.5 | 0.42 |
| 26 | 0.42 | 0.60 | 0.83 | 3.2 | 0.83 | 4.1 | e2.0 | 2.6 | 2.8 | 1.1 | 5.4 | 16 |
| 27 | 0.17 | 0.42 | 0.80 | 1.6 | 0.85 | 4.4 | e3.1 | 2.6 | 2.5 | 0.84 | 3.7 | e12 |
| 28 | 0.18 | 0.38 | 0.80 | 1.1 | 0.85 | 2.9 | e2.6 | 2.6 | 1.1 | 0.46 | 1.0 | e5.0 |
| 29 | 0.14 | 0.42 | 0.80 | 0.99 | --- | 2.8 | e2.3 | 2.5 | 0.62 | 0.44 | 0.54 | e2.1 |
| 30 | 0.06 | 0.41 | 0.79 | 0.83 | --- | 5.9 | e1.7 | 15 | 0.62 | 0.45 | 0.33 | e0.95 |
| 31 | 0.08 | --- | 0.80 | 0.79 | --- | 11 | --- | 11 | --- | 0.38 | 47 | --- |
| TOTAL | 22.77 | 17.76 | 70.43 | 282.53 | 91.59 | 290.74 | 111.1 | 220.9 | 88.60 | 80.64 | 131.46 | 142.58 |
| MEAN | 0.735 | 0.592 | 2.272 | 9.114 | 3.271 | 9.379 | 3.703 | 7.126 | 2.953 | 2.601 | 4.241 | 4.753 |
| MAX | 3.7 | 7.7 | 19 | 113 | 34 | 46 | 18 | 41 | 19 | 42 | 47 | 41 |
| MIN | 0.06 | 0.10 | 0.38 | 0.79 | 0.74 | 0.84 | 1.7 | 1.7 | 0.62 | 0.38 | 0.33 | 0.12 |
| CFSM | 0.07 | 0.05 | 0.21 | 0.84 | 0.30 | 0.87 | 0.34 | 0.66 | 0.27 | 0.24 | 0.39 | 0.44 |
| IN. | 0.08 | 0.06 | 0.24 | 0.97 | 0.32 | 1.00 | 0.38 | 0.76 | 0.31 | 0.28 | 0.45 | 0.49 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 6.790 | 7.165 | 6.404 | 14.43 | 16.10 | 14.61 | 11.97 | 6.077 |
| MAX | 23.0 | 26.1 | 14.0 | 28.9 | 33.4 | 18.9 | 22.0 | 13.2 |
| (WY) | 1996 | 1996 | 1998 | 1998 | 1995 | 2001 | 1998 | 1995 |
| MIN | 0.73 | 0.59 | 2.27 | 2.79 | 3.27 | 4.54 | 3.29 | 3.21 |
| (WY) | 2002 | 2002 | 2002 | 2001 | 2002 | 1999 | 2001 | 2000 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1995 - 2002

| | | | |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL | 1343.83 | 1551.10 | |
| ANNUAL MEAN | 3.682 | 4.250 | 8.784 |
| HIGHEST ANNUAL MEAN | | | 13.6 |
| LOWEST ANNUAL MEAN | | | 3.93 |
| HIGHEST DAILY MEAN | 179 | Mar 29 | 835 |
| LOWEST DAILY MEAN | 0.06 | Oct 30 | 0.06 |
| ANNUAL SEVEN-DAY MINIMUM | 0.11 | Oct 29 | 0.11 |
| MAXIMUM PEAK FLOW | | | 383 |
| MAXIMUM PEAK STAGE | | | 7.17 |
| INSTANTANEOUS LOW FLOW | | | 0.03* |
| ANNUAL RUNOFF (CFSM) | 0.34 | | 0.39 |
| ANNUAL RUNOFF (INCHES) | 4.63 | | 5.34 |
| 10 PERCENT EXCEEDS | 6.5 | | 9.9 |
| 50 PERCENT EXCEEDS | 1.3 | | 1.1 |
| 90 PERCENT EXCEEDS | 0.30 | | 0.38 |

e Estimated.
* See REMARKS.

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC--Continued

