

## SANTEE RIVER BASIN

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'27", long 80°49'12", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, Charlotte, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--6.95 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 592.31 ft above North American Vertical Datum of 1988. Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970, to Dec. 30, 1971, at site 154 ft downstream at 590.91 ft above NGVD of 1929. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for the current water year also occurred periodically in Oct., Nov., June, July, Aug. Maximum discharge for period of record from rating curve extended above 2,650 ft<sup>3</sup>/s on basis of computation of peak flow through culvert. No flow occurred periodically from 1962 to 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of 7.5 ft, former site and datum, from floodmarks; discharge, 1,040 ft<sup>3</sup>/s.

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     | 0.31  | 0.43  | 0.61  | e0.75  | 4.3   | 1.4   | 16    | 3.6    | 1.2   | 0.87   | 0.51   | 6.8   |
| 2     | 0.28  | 19    | 0.45  | e0.80  | 1.7   | 56    | 3.4   | 1.4    | 0.94  | 0.69   | 6.3    | 1.9   |
| 3     | 0.26  | 1.6   | 0.40  | e1.6   | 1.6   | 26    | 6.4   | 5.8    | 0.80  | 0.44   | 1.5    | 1.4   |
| 4     | 0.27  | 0.47  | 0.38  | e2.3   | 1.5   | 4.2   | 3.2   | 31     | 0.65  | 1.1    | 0.53   | 1.2   |
| 5     | 0.27  | 0.39  | 0.54  | e2.0   | 1.5   | 2.5   | 2.1   | 2.4    | 0.66  | 0.59   | 0.40   | 0.84  |
| 6     | 8.8   | 0.48  | 0.55  | e48    | 8.9   | 2.2   | 1.9   | 1.3    | 25    | 0.34   | 0.36   | 0.64  |
| 7     | 0.94  | 0.29  | 0.49  | e3.2   | 34    | 2.0   | 1.7   | 1.1    | 5.7   | 0.34   | 0.38   | 0.58  |
| 8     | 0.40  | 0.31  | 0.46  | e1.3   | 10    | 1.8   | 1.6   | 1.0    | 1.2   | 0.31   | 0.32   | 0.65  |
| 9     | 0.35  | 0.42  | 0.47  | e1.1   | 2.9   | 1.8   | 2.2   | 1.1    | 0.86  | 0.41   | 0.35   | 0.63  |
| 10    | 0.30  | 0.25  | 48    | e1.0   | 5.6   | 1.8   | 3.9   | 1.2    | 0.73  | 0.43   | 0.31   | 0.58  |
| 11    | 0.32  | 0.37  | 8.5   | 1.2    | 2.5   | 1.6   | 1.8   | 2.0    | 0.63  | 0.48   | 0.32   | 0.51  |
| 12    | 0.34  | 0.45  | 1.2   | 2.0    | 1.9   | 18    | 2.8   | 1.1    | 0.59  | 0.52   | 0.32   | 0.46  |
| 13    | 0.36  | 0.44  | 1.3   | 3.3    | 1.8   | 11    | 2.4   | 33     | 0.66  | 33     | 0.31   | 0.41  |
| 14    | 4.6   | 0.36  | 1.1   | 1.2    | 1.7   | 2.9   | 1.6   | 3.2    | 0.66  | 81     | 0.34   | 8.6   |
| 15    | 1.2   | 0.39  | 0.61  | 1.1    | 1.7   | 2.2   | 1.7   | 1.1    | 0.63  | 1.6    | 1.1    | 33    |
| 16    | 0.44  | 0.42  | 0.49  | 0.95   | 1.7   | 2.0   | 1.6   | 0.94   | 0.83  | 0.88   | 18     | 9.2   |
| 17    | 0.31  | 0.39  | 10    | 0.98   | 1.6   | 24    | 1.6   | 0.96   | 0.98  | 0.72   | 27     | 5.4   |
| 18    | 0.32  | 0.38  | 6.4   | 1.0    | 1.4   | 3.9   | 1.5   | 8.6    | 0.86  | 0.72   | 2.8    | 0.96  |
| 19    | 0.48  | 0.42  | e0.98 | 89     | 1.4   | 2.5   | 1.4   | 1.3    | 1.0   | 0.67   | 5.8    | 0.73  |
| 20    | 0.45  | 0.43  | e0.87 | 13     | 1.7   | 5.0   | 1.4   | 0.87   | 1.4   | 0.62   | 1.5    | 0.67  |
| 21    | 0.47  | 0.39  | e0.74 | 13     | 1.7   | 29    | 1.4   | 0.89   | 0.78  | 0.72   | 0.87   | 0.88  |
| 22    | 0.37  | 0.37  | e0.66 | 3.0    | 1.5   | 3.9   | 1.3   | 0.95   | 0.43  | 2.8    | 0.45   | 0.63  |
| 23    | 0.38  | 1.6   | e0.72 | 86     | 1.4   | 2.6   | 1.3   | 0.90   | 0.60  | 0.85   | 0.40   | 0.58  |
| 24    | 0.37  | 10    | e1.2  | 12     | 1.4   | 2.3   | 1.2   | 0.96   | 0.35  | 16     | 1.5    | 0.73  |
| 25    | 19    | 0.96  | e0.80 | 31     | 1.5   | 2.0   | 2.7   | 0.91   | 0.39  | 3.5    | 5.5    | 0.68  |
| 26    | 0.63  | 0.56  | e0.62 | 3.7    | 1.4   | 9.1   | 1.3   | 0.91   | 18    | 1.8    | 2.0    | 9.8   |
| 27    | 0.43  | 0.50  | e0.66 | 2.5    | 1.4   | 3.3   | 1.1   | 0.56   | 2.2   | 0.82   | 5.0    | 3.9   |
| 28    | 0.50  | 0.47  | e0.68 | 2.1    | 1.4   | 2.1   | 1.5   | 0.47   | 0.69  | 0.55   | 25     | 1.5   |
| 29    | 0.74  | 0.46  | e0.73 | 2.0    | ---   | 1.8   | 1.4   | 0.54   | 0.58  | 0.51   | 1.3    | 0.67  |
| 30    | 0.39  | 0.81  | e0.70 | 1.8    | ---   | 5.8   | 1.4   | 41     | 0.73  | 0.49   | 0.91   | 0.48  |
| 31    | 0.92  | ---   | e0.76 | 3.6    | ---   | 35    | ---   | 3.7    | ---   | 0.48   | 269    | ---   |
| TOTAL | 45.20 | 43.81 | 92.07 | 336.48 | 101.1 | 269.7 | 74.8  | 154.76 | 70.73 | 154.25 | 380.38 | 95.01 |
| MEAN  | 1.458 | 1.460 | 2.970 | 10.85  | 3.611 | 8.700 | 2.493 | 4.992  | 2.358 | 4.976  | 12.27  | 3.167 |
| MAX   | 19    | 19    | 48    | 89     | 34    | 56    | 16    | 41     | 25    | 81     | 269    | 33    |
| MIN   | 0.26  | 0.25  | 0.38  | 0.75   | 1.4   | 1.4   | 1.1   | 0.47   | 0.35  | 0.31   | 0.31   | 0.41  |
| CFSM  | 0.21  | 0.21  | 0.43  | 1.56   | 0.52  | 1.25  | 0.36  | 0.72   | 0.34  | 0.72   | 1.77   | 0.46  |
| IN.   | 0.24  | 0.23  | 0.49  | 1.80   | 0.54  | 1.44  | 0.40  | 0.83   | 0.38  | 0.83   | 2.04   | 0.51  |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

|      |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 6.093 | 5.638 | 7.449 | 12.56 | 13.12 | 14.78 | 7.670 | 6.269 | 6.452 | 6.349 | 5.915 | 5.632 |
| MAX  | 30.4  | 21.3  | 24.3  | 33.5  | 28.1  | 38.8  | 25.1  | 31.3  | 27.3  | 27.7  | 32.1  | 23.8  |
| (WY) | 1991  | 1986  | 1977  | 1978  | 1979  | 1977  | 1998  | 1975  | 1992  | 1997  | 1995  | 1987  |
| MIN  | 0.21  | 0.54  | 0.86  | 1.02  | 1.77  | 1.74  | 1.13  | 1.08  | 0.75  | 0.61  | 0.24  | 0.084 |
| (WY) | 1964  | 1970  | 1966  | 1981  | 1968  | 1985  | 1981  | 1962  | 1966  | 1963  | 1968  | 1970  |

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| SUMMARY STATISTICS       | FOR 2001 CALENDAR YEAR |        | FOR 2002 WATER YEAR |        | WATER YEARS 1962 - 2002 |             |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL             | 1536.36                |        | 1818.29             |        | 8.156                   |             |
| ANNUAL MEAN              | 4.209                  |        | 4.982               |        | 13.8                    |             |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 3.19                    |             |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 1970                    |             |
| HIGHEST DAILY MEAN       | 141                    | Mar 29 | 269                 | Aug 31 | 868                     | Aug 27 1995 |
| LOWEST DAILY MEAN        | 0.25                   | Nov 10 | 0.25                | Nov 10 | 0.00                    | Aug 31 1962 |
| ANNUAL SEVEN-DAY MINIMUM | 0.29                   | Sep 29 | 0.32                | Aug 8  | 0.01                    | Sep 19 1968 |
| MAXIMUM PEAK FLOW        |                        |        | 1250                | Aug 31 | 3470*                   | Aug 27 1995 |
| MAXIMUM PEAK STAGE       |                        |        | 7.25                | Aug 31 | 11.03                   | Aug 27 1995 |
| INSTANTANEOUS LOW FLOW   |                        |        | 0.25*               | Oct 1  | 0.00*                   | Aug 31 1962 |
| ANNUAL RUNOFF (CFSM)     | 0.61                   |        | 0.72                |        | 1.17                    |             |
| ANNUAL RUNOFF (INCHES)   | 8.22                   |        | 9.73                |        | 15.94                   |             |
| 10 PERCENT EXCEEDS       | 8.4                    |        | 9.4                 |        | 15                      |             |
| 50 PERCENT EXCEEDS       | 0.90                   |        | 1.1                 |        | 1.6                     |             |
| 90 PERCENT EXCEEDS       | 0.37                   |        | 0.39                |        | 0.32                    |             |

e Estimated.  
 \* See REMARKS.

