

02168504 SALUDA RIVER BELOW LAKE MURRAY NEAR COLUMBIA, SC

LOCATION.--Lat 34°03'03'', long 81°12'35'', Lexington County, Hydrologic Unit 03050109, on left bank, approximately 1000 ft downstream from Lake Murray Dam on Saluda River, and at mile 9.7.

DRAINAGE AREA.--2,420 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Data collection platform. Elevation of gage is 170 ft above NGVD of 1929 (from topographic map).

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Murray (see sta 02168500). Water diverted above station by City of Columbia for municipal supply.

Discharge, cubic feet per second  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR    | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|
| 1     | 2560  | 534   | 1280  | 2660  | 1020  | 5200  | 13100  | 1500  | 8610   | 3060  | 2920  | 5250  |
| 2     | 3660  | 531   | 2140  | 2410  | 1980  | 4110  | 11800  | 1850  | 13100  | 5240  | 2950  | 5260  |
| 3     | 3670  | 529   | 2300  | 2630  | 2590  | 2170  | 2240   | 565   | 13800  | 3530  | 2490  | 5260  |
| 4     | 3040  | 614   | 2410  | 1270  | 3390  | 905   | 4010   | 530   | 13600  | 6920  | 1700  | 5260  |
| 5     | 1320  | 795   | 2210  | 1230  | 3430  | 1560  | 5940   | 528   | 11500  | 1200  | 1370  | 5270  |
| 6     | 600   | 693   | 2800  | 2460  | 2630  | 1560  | 2920   | 529   | 484    | 5580  | 1380  | 4900  |
| 7     | 602   | 698   | 2550  | 1340  | 3310  | 2400  | 3650   | 4240  | 1640   | 9220  | 1350  | 4060  |
| 8     | 605   | 698   | 1600  | 1330  | 3280  | 2860  | 4770   | 626   | 2680   | 5850  | 748   | 3350  |
| 9     | 605   | 701   | 1910  | 1320  | 2680  | 2770  | 7030   | 549   | 2670   | 2490  | 1220  | 1370  |
| 10    | 606   | 701   | 1860  | 1320  | 1670  | 2640  | 5800   | 550   | 2660   | 2830  | 746   | 508   |
| 11    | 2980  | 700   | 2310  | 940   | 1840  | 2660  | 3550   | 525   | 2660   | 2990  | 747   | 506   |
| 12    | 590   | 703   | 2730  | 806   | 1490  | 2600  | 2180   | 537   | 2660   | 2970  | 748   | 505   |
| 13    | 648   | 701   | 3140  | 1930  | 1350  | 1620  | 3930   | 562   | 3120   | 2960  | 754   | 503   |
| 14    | 715   | 703   | 4810  | 2230  | 1230  | 1100  | 7670   | 562   | 1760   | 2950  | 1150  | 500   |
| 15    | 708   | 1360  | 5080  | 4270  | 1230  | 1100  | 7180   | 561   | 578    | 3230  | 1280  | 505   |
| 16    | 711   | 2200  | 4650  | 4110  | 1240  | 1100  | 4820   | 562   | 514    | 3170  | 1620  | 504   |
| 17    | 717   | 1870  | 2970  | 4440  | 1430  | 1750  | 1670   | 558   | 986    | 3010  | 1650  | 509   |
| 18    | 722   | 2170  | 2850  | 5130  | 1450  | 1060  | 927    | 509   | 502    | 2980  | 1660  | 509   |
| 19    | 971   | 2550  | 2670  | 2850  | 1480  | 1060  | 1280   | 487   | 501    | 3090  | 2280  | 532   |
| 20    | 718   | 2570  | 6470  | 2140  | 1500  | 1050  | 1450   | 2310  | 504    | 4260  | 1770  | 547   |
| 21    | 715   | 2220  | 3930  | 1700  | 1640  | 1030  | 1170   | 1540  | 883    | 3270  | 1440  | 548   |
| 22    | 693   | 2120  | 1490  | 1930  | 1150  | 1030  | 1120   | 823   | 1560   | 709   | 1580  | 551   |
| 23    | 614   | 2060  | 1470  | 4520  | 607   | 1020  | 2340   | 3270  | 1560   | 712   | 1650  | 553   |
| 24    | 586   | 1960  | 1460  | 5860  | 605   | 1010  | 2390   | 1140  | 1590   | 709   | 1600  | 556   |
| 25    | 567   | 2070  | 1480  | 695   | 777   | 1010  | 2450   | 742   | 1580   | 710   | 3580  | 559   |
| 26    | 570   | 2730  | 1650  | 649   | 564   | 1010  | 2450   | 383   | 1590   | 1710  | 5320  | 561   |
| 27    | 566   | 2500  | 1810  | 650   | 562   | 2860  | 2450   | 414   | 1820   | 791   | 3600  | 560   |
| 28    | 884   | 2240  | 2790  | 855   | 4190  | 8660  | 2450   | 454   | 2340   | 785   | 1500  | 565   |
| 29    | 556   | 3050  | 2390  | 645   | ---   | 10600 | 1650   | 462   | 4040   | 802   | 1490  | 548   |
| 30    | 543   | 3300  | 2890  | 643   | ---   | 11500 | 1470   | 6940  | 3360   | 801   | 1570  | 662   |
| 31    | 537   | ---   | 3350  | 779   | ---   | 13400 | ---    | 2790  | ---    | 1620  | 3490  | ---   |
| TOTAL | 33579 | 46271 | 83450 | 65742 | 50315 | 94405 | 115857 | 37598 | 104852 | 90149 | 57353 | 51271 |
| MEAN  | 1083  | 1542  | 2692  | 2121  | 1797  | 3045  | 3862   | 1213  | 3495   | 2908  | 1850  | 1709  |
| MAX   | 3670  | 3300  | 6470  | 5860  | 4190  | 13400 | 13100  | 6940  | 13800  | 9220  | 5320  | 5270  |
| MIN   | 537   | 529   | 1280  | 643   | 562   | 905   | 927    | 383   | 484    | 709   | 746   | 500   |
| CFSM  | 0.45  | 0.64  | 1.11  | 0.88  | 0.74  | 1.26  | 1.60   | 0.50  | 1.44   | 1.20  | 0.76  | 0.71  |
| IN.   | 0.52  | 0.71  | 1.28  | 1.01  | 0.77  | 1.45  | 1.78   | 0.58  | 1.61   | 1.39  | 0.88  | 0.79  |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

|      | 1989 | 1990 | 1991 | 1992 | 1993 | 1994  | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 2273 | 2077 | 2340 | 2794 | 3395 | 3756  | 2469 | 1771 | 1864 | 2197 | 2430 | 2623 |      |      |      |      |      |
| MAX  | 5467 | 4579 | 5773 | 8890 | 8396 | 10150 | 6748 | 5466 | 3495 | 4321 | 5805 | 7837 |      |      |      |      |      |
| (WY) | 1991 | 1993 | 1993 | 1993 | 1998 | 2003  | 2003 | 2003 | 2005 | 2003 | 1994 | 1996 |      |      |      |      |      |
| MIN  | 923  | 421  | 370  | 396  | 590  | 518   | 497  | 470  | 466  | 556  | 618  | 675  |      |      |      |      |      |
| (WY) | 2004 | 2000 | 1991 | 1989 | 2001 | 2001  | 1995 | 1999 | 1999 | 2004 | 2004 | 1999 |      |      |      |      |      |

SANTEE RIVER BASIN

02168504 SALUDA RIVER BELOW LAKE MURRAY NEAR COLUMBIA, SC--Continued

| SUMMARY STATISTICS       | FOR 2004 CALENDAR YEAR |        | FOR 2005 WATER YEAR |        | WATER YEARS 1989 - 2005 |  |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--|
| ANNUAL TOTAL             | 520401                 |        | 830842              |        | 2495                    |  |
| ANNUAL MEAN              | 1422                   |        | 2276                |        | 4328                    |  |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 1037                    |  |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 21800                   |  |
| HIGHEST DAILY MEAN       | 12200                  | Sep 29 | 13800               | Jun 3  | Jan 16 1995             |  |
| LOWEST DAILY MEAN        | 214                    | May 31 | 383                 | May 26 | 155 a Sep 24 1989       |  |
| ANNUAL SEVEN-DAY MINIMUM | 345                    | May 26 | 504                 | Sep 10 | 168 Jan 12 1989         |  |
| MAXIMUM PEAK FLOW        |                        |        | 15900               |        | 22400                   |  |
| MAXIMUM PEAK STAGE       |                        |        | 13.96               |        | b 16.01                 |  |
| ANNUAL RUNOFF (CFSM)     | 0.588                  |        | 0.941               |        | 1.03                    |  |
| ANNUAL RUNOFF (INCHES)   | 8.00                   |        | 12.77               |        | 14.01                   |  |
| 10 PERCENT EXCEEDS       | 3080                   |        | 4790                |        | 5720                    |  |
| 50 PERCENT EXCEEDS       | 766                    |        | 1590                |        | 1580                    |  |
| 90 PERCENT EXCEEDS       | 532                    |        | 551                 |        | 454                     |  |

a Also occurred Sep. 25, 29, 1989.  
 b Caused by backwater from spillway floodgates.

