

## SANTEE RIVER BASIN

02167000 SALUDA RIVER AT CHAPPELLE, SC

LOCATION.--Lat 34°10'40"', long 81°51'40"', Newberry County, Hydrologic Unit 03050109, on left bank, on downstream side of bridge on State Highway 39 at Chappells, 6.7 mi downstream from dam at Lake Greenwood, 9.8 mi upstream from Little River, and at mile 52.3.

DRAINAGE AREA.--1,360 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected since 1905 are contained in reports of National Weather Service.

GAGE.--Data collection platform. Datum of gage is 362.89 ft above sea level. Oct. 1, 1926 to Sept. 30, 1939, nonrecording or recording gage at site 300 ft downstream at datum 363.79 ft above mean sea level. Oct. 1, 1939 to Oct. 7, 1964, recording gage at present site and at datum 363.89 ft above mean sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Lake Greenwood (see sta. 02166500).

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 26, 1908 reached a stage of 36.7 ft (present site and datum), from reports of National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 1530  | 594   | 607   | 604   | 1840  | 1130  | 618   | 1370  | 477   | 421   | 342   | 369   |
| 2     | 963   | 608   | 605   | 829   | 2100  | 672   | 616   | 968   | 463   | 423   | 456   | 362   |
| 3     | 538   | 673   | 1240  | 1180  | 1270  | 831   | 860   | 1220  | 469   | 417   | 551   | 403   |
| 4     | 526   | 653   | 1120  | 1500  | 1000  | 686   | 2300  | 1150  | 465   | 412   | 525   | 393   |
| 5     | 940   | 943   | 614   | 1690  | 716   | 762   | 1840  | 983   | 462   | 410   | 980   | 362   |
| 6     | 1860  | 615   | 612   | 1240  | 690   | 852   | 1730  | 1230  | 462   | 407   | 1090  | 381   |
| 7     | 1570  | 603   | 882   | 1240  | 676   | 698   | 1200  | 1070  | 464   | 356   | 481   | 418   |
| 8     | 528   | 603   | 1070  | 1240  | 667   | 682   | 666   | 643   | 464   | 351   | 381   | 420   |
| 9     | 524   | 603   | 607   | 1240  | 1080  | 787   | 891   | 612   | 462   | 348   | 474   | 416   |
| 10    | 525   | 605   | 677   | 3080  | 673   | 671   | 1230  | 725   | 464   | 346   | 504   | 410   |
| 11    | 1770  | 805   | 614   | 3880  | 656   | 675   | 1100  | 588   | 463   | 383   | 524   | 390   |
| 12    | 3630  | 619   | 614   | 2780  | 1040  | 816   | 764   | 712   | 462   | 392   | 526   | 727   |
| 13    | 3730  | 604   | 897   | 2380  | 686   | 711   | 873   | 581   | 461   | 363   | 526   | 829   |
| 14    | 3760  | 594   | 1210  | 1340  | 3270  | 970   | 1240  | 579   | 461   | 381   | 375   | 774   |
| 15    | 3220  | 605   | 1220  | 716   | 4630  | 1260  | 1290  | 878   | 471   | 344   | 368   | 365   |
| 16    | 630   | 605   | 1640  | 1240  | 2440  | 1190  | 1800  | 521   | 406   | 321   | 296   | 725   |
| 17    | 604   | 607   | 1680  | 2010  | 1740  | 908   | 1730  | 558   | 408   | 303   | 316   | 867   |
| 18    | 601   | 608   | 770   | 1390  | 1060  | 1390  | 1240  | 646   | 406   | 297   | 321   | 445   |
| 19    | 893   | 607   | 964   | 1620  | 1390  | 2000  | 1240  | 515   | 396   | 294   | 323   | 431   |
| 20    | 979   | 603   | 1210  | 1780  | 1050  | 2980  | 1230  | 496   | 330   | 294   | 322   | 444   |
| 21    | 597   | 603   | 1100  | 1070  | 699   | 3740  | 1230  | 619   | 381   | 293   | 322   | 811   |
| 22    | 602   | 602   | 1310  | 638   | 691   | 4530  | 1080  | 492   | 405   | 294   | 747   | 1650  |
| 23    | 600   | 602   | 1310  | 2380  | 687   | 4190  | 608   | 489   | 321   | 298   | 363   | 3430  |
| 24    | 597   | 605   | 1170  | 4950  | 820   | 4110  | 601   | 490   | 312   | 301   | 325   | 4090  |
| 25    | 594   | 609   | 632   | 4150  | 1170  | 4080  | 1980  | 492   | 305   | 343   | 349   | e2940 |
| 26    | 593   | 627   | 611   | 2560  | 678   | 4060  | 1270  | 490   | 303   | 510   | 389   | e2280 |
| 27    | 595   | 1380  | 608   | 2080  | 679   | 3630  | 1250  | 495   | 324   | 424   | 404   | e1030 |
| 28    | 595   | 1890  | 606   | 1250  | 694   | 2040  | 967   | 489   | 340   | 408   | 273   | 514   |
| 29    | 595   | 1330  | 607   | 1400  | 1000  | 945   | 625   | 483   | 329   | 400   | 333   | 889   |
| 30    | 594   | 965   | 826   | 2590  | ---   | 632   | 646   | 480   | 359   | 405   | 297   | 1050  |
| 31    | 594   | ---   | 1020  | 3000  | ---   | 725   | ---   | 473   | ---   | 368   | 347   | ---   |
| TOTAL | 35877 | 21970 | 28653 | 59047 | 35792 | 53353 | 34715 | 21537 | 12295 | 11307 | 13830 | 28615 |
| MEAN  | 1157  | 732   | 924   | 1905  | 1234  | 1721  | 1157  | 695   | 410   | 365   | 446   | 954   |
| MAX   | 3760  | 1890  | 1680  | 4950  | 4630  | 4530  | 2300  | 1370  | 477   | 510   | 1090  | 4090  |
| MIN   | 524   | 594   | 605   | 604   | 656   | 632   | 601   | 473   | 303   | 293   | 273   | 362   |
| CFSM  | .85   | .54   | .68   | 1.40  | .91   | 1.27  | .85   | .51   | .30   | .27   | .33   | .70   |
| IN.   | .98   | .60   | .78   | 1.62  | .98   | 1.46  | .95   | .59   | .34   | .31   | .38   | .78   |

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2000, BY WATER YEAR (WY)

|      |      |      |      |      |      |      |       |      |      |      |      |      |
|------|------|------|------|------|------|------|-------|------|------|------|------|------|
| MEAN | 1482 | 1418 | 1887 | 2604 | 2674 | 2957 | 2562  | 1792 | 1472 | 1236 | 1393 | 1293 |
| MAX  | 8243 | 3417 | 5486 | 8844 | 5564 | 9236 | 10480 | 3970 | 3576 | 2855 | 9626 | 6709 |
| (WY) | 1930 | 1958 | 1933 | 1936 | 1960 | 1929 | 1936  | 1929 | 1965 | 1943 | 1928 | 1929 |
| MIN  | 243  | 265  | 536  | 679  | 866  | 475  | 646   | 218  | 58.2 | 52.8 | 337  | 324  |
| (WY) | 1955 | 1954 | 1956 | 1956 | 1941 | 1988 | 1986  | 1940 | 1940 | 1940 | 1988 | 1999 |

| SUMMARY STATISTICS       | 02167000 SALUDA RIVER AT CHAPPELLES, SC--Continued |        |                     |        | WATER YEARS 1927 - 2000 |             |
|--------------------------|--|--------|---------------------|--------|-------------------------|-------------|
|                          | FOR 1999 CALENDAR YEAR                             |        | FOR 2000 WATER YEAR |        |                         |             |
| ANNUAL TOTAL             | 349522   |        | 356991              |        | 1894                    |             |
| ANNUAL MEAN              | 958  |        | 975                 |        | 3110                    | 1929        |
| HIGHEST ANNUAL MEAN      |  |        |                     |        | 732                     | 1988        |
| LOWEST ANNUAL MEAN       |  |        |                     |        | 56700                   | Oct 3 1929  |
| HIGHEST DAILY MEAN       | 5410   | Feb 2  | 4950                | Jan 24 | 8.0                     | Oct 29 1939 |
| LOWEST DAILY MEAN        | 279  | Aug 31 | 273                 | Aug 28 | 23                      | Jun 29 1940 |
| ANNUAL SEVEN-DAY MINIMUM | 290  | Sep 7  | 296                 | Jul 18 | a 63700                 | Oct 2 1929  |
| INSTANTANEOUS PEAK FLOW  |  |        | 5540                | Jan 24 | a 32.50                 | Oct 2 1929  |
| INSTANTANEOUS PEAK STAGE |  |        | 11.16               | Jan 24 |                         |             |
| ANNUAL RUNOFF (CFSM)     | .70  |        | .72                 |        | 1.39                    |             |
| ANNUAL RUNOFF (INCHES)   | 9.56   |        | 9.76                |        | 18.92                   |             |
| 10 PERCENT EXCEEDS       | 1870   |        | 1920                |        | 3830                    |             |
| 50 PERCENT EXCEEDS       | 673  |        | 632                 |        | 1390                    |             |
| 90 PERCENT EXCEEDS       | 305  |        | 358                 |        | 498                     |             |

a Present datum, from rating curve extended above 27,000 ft<sup>3</sup>/s on basis of velocity-area studies.

e Estimated

