

U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

STATION NUMBER 02186699 EIGHTEENMILE CREEK ABOVE PENDELTON, SC SOURCE AGENCY USGS STATE 45 COUNTY 007
 LATITUDE 343932 LONGITUDE 0824756 NAD27 DRAINAGE AREA 0824756 CONTRIBUTING DRAINAGE AREA DATUM 700. NGVD29
 Date Processed: 2003-08-12 10:59 By mishealy

APPROVED

DD #4, , PUBLISHED

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | 51 | 46 | 41 | 27 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | 65 | 45 | 34 | 26 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | 59 | 45 | 33 | 35 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | 58 | 56 | 32 | 49 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | 95 | 67 | 31 | 35 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | 68 | 50 | 32 | 33 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | 56 | 47 | 32 | 33 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | 52 | 46 | 71 | 31 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | 56 | 46 | 44 | 29 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | 76 | 45 | 42 | 29 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | 84 | 42 | 38 | 29 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | 62 | 43 | 45 | 28 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | 57 | 42 | 42 | 26 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | 51 | 41 | 41 | 26 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | 51 | 42 | 51 | 27 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | 59 | 41 | 64 | 27 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | 52 | 41 | 43 | 26 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | 49 | 40 | 37 | 26 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | 68 | 39 | 36 | 26 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | 72 | 38 | 35 | 27 |
| 21 | --- | --- | --- | --- | --- | --- | --- | 56 | 57 | 47 | 33 | 173 |
| 22 | --- | --- | --- | --- | --- | --- | --- | 55 | 66 | 42 | 33 | 68 |
| 23 | --- | --- | --- | --- | --- | --- | --- | 54 | 56 | 44 | 31 | 44 |
| 24 | --- | --- | --- | --- | --- | --- | --- | 49 | 54 | 54 | 32 | 32 |
| 25 | --- | --- | --- | --- | --- | --- | --- | 51 | 59 | 46 | 30 | 31 |
| 26 | --- | --- | --- | --- | --- | --- | --- | 50 | 54 | 49 | 29 | 31 |
| 27 | --- | --- | --- | --- | --- | --- | --- | 49 | 52 | 45 | 28 | 31 |
| 28 | --- | --- | --- | --- | --- | --- | --- | 56 | 50 | 45 | 27 | 32 |
| 29 | --- | --- | --- | --- | --- | --- | --- | 60 | 49 | 43 | 27 | 35 |
| 30 | --- | --- | --- | --- | --- | --- | --- | 55 | 47 | 40 | 28 | 49 |

| | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 17 | 35 | 63 | 46 | 58 | 60 | 52 | 52 | 67 | 30 | 17 | 21 |
| 18 | 33 | 48 | 44 | 65 | 79 | 51 | 48 | 41 | 29 | 16 | 21 |
| 19 | 34 | 45 | 47 | 61 | 124 | 53 | 49 | 35 | 29 | 15 | 22 |
| 20 | 35 | 45 | 56 | 58 | 101 | 52 | 50 | 34 | 28 | 19 | 23 |
| 21 | 33 | 45 | 54 | 60 | 68 | 54 | 49 | 34 | 27 | 22 | 30 |
| 22 | 33 | 38 | 54 | 56 | 62 | 59 | 49 | 35 | 28 | 20 | 56 |
| 23 | 33 | 40 | 58 | 180 | 61 | 52 | 48 | 35 | 26 | 18 | 33 |
| 24 | 35 | 42 | 233 | 230 | 61 | 52 | 48 | 37 | 24 | 67 | 29 |
| 25 | 35 | 42 | 125 | 106 | 59 | 53 | 48 | 61 | 23 | 38 | 28 |
| 26 | 35 | 42 | 80 | 84 | 58 | 61 | 49 | 50 | 21 | 28 | 27 |
| 27 | 35 | 41 | 67 | 78 | 56 | 60 | 67 | 42 | 21 | 25 | 42 |
| 28 | 35 | 40 | 66 | 76 | 57 | 57 | 102 | 42 | 23 | 24 | 98 |
| 29 | 35 | 34 | 71 | 72 | --- | 56 | 76 | 39 | 21 | 23 | 58 |
| 30 | 36 | 35 | 59 | 74 | --- | 55 | 113 | 39 | 21 | 23 | 46 |
| 31 | 37 | --- | 55 | 85 | --- | 67 | --- | --- | 20 | 22 | --- |
| TOTAL | 1552 | 1332 | 1832 | 2569 | 2504 | 1718 | 2148 | 1201 | 923 | 637 | 921 |
| MEAN | 50.1 | 44.4 | 59.1 | 82.9 | 89.4 | 55.4 | 71.6 | 40.0 | 29.8 | 20.5 | 30.7 |
| MAX | 244 | 72 | 233 | 237 | 404 | 67 | 293 | 67 | 44 | 67 | 98 |
| MIN | 31 | 34 | 36 | 52 | 56 | 47 | 48 | 32 | 20 | 14 | 20 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 50.1 | 44.4 | 59.1 | 82.9 | 89.4 | 55.4 | 71.6 | 49.8 | 37.4 | 28.8 | 34.0 |
| MAX | 50.1 | 44.4 | 59.1 | 82.9 | 89.4 | 55.4 | 71.6 | 59.5 | 45.1 | 37.1 | 37.4 |
| (WY) | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1998 | 1998 | 1998 | 1998 |
| MIN | 50.1 | 44.4 | 59.1 | 82.9 | 89.4 | 55.4 | 71.6 | 40.0 | 29.8 | 20.5 | 30.7 |
| (WY) | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 | 1999 |

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL

18963

ANNUAL MEAN

52.0

HIGHEST ANNUAL MEAN

52.0

LOWEST ANNUAL MEAN

52.0

HIGHEST DAILY MEAN

404

LOWEST DAILY MEAN

14

ANNUAL SEVEN-DAY MINIMUM

15

MAXIMUM PEAK FLOW

679

MAXIMUM PEAK STAGE

5.33

10 PERCENT EXCEEDS

76

50 PERCENT EXCEEDS

45

90 PERCENT EXCEEDS

22

STATION NUMBER 02186699 EIGHTEENMILE CREEK ABOVE PENDELTON, SC SOURCE AGENCY USGS STATE 45 COUNTY 007
 LATITUDE 343932 LONGITUDE 0824756 NAD27 DRAINAGE AREA 0824756 NAD27 DRAINAGE AREA CONTRIBUTING DRAINAGE AREA DATUM 700. NGVD29
 Date Processed: 2003-08-12 10:59 By mishealy

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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 | 36 | 24 | 33 | 37 | 57 | 42 | 29 | 40 | 25 | 23 | 26 | 27 |
| 2 | 34 | 39 | 34 | 36 | 53 | 42 | 48 | 41 | 25 | 21 | 26 | 39 |
| 3 | 33 | 34 | 33 | 36 | 51 | 42 | 153 | 41 | 24 | 19 | 72 | 49 |
| 4 | 142 | 29 | 34 | 46 | 50 | 51 | 115 | 42 | 25 | 18 | 44 | 33 |
| 5 | 87 | 27 | 34 | 46 | 47 | 52 | 63 | 41 | 33 | 17 | 51 | 32 |
| 6 | 47 | 27 | e49 | 38 | 45 | 45 | 51 | 39 | 35 | 17 | 30 | 26 |
| 7 | 37 | 25 | e43 | 38 | 44 | 44 | 46 | 38 | 27 | 17 | 26 | 25 |
| 8 | 35 | 24 | 39 | 37 | 44 | 46 | 44 | 36 | 25 | 16 | 24 | 24 |
| 9 | 36 | 24 | 37 | 42 | 43 | 45 | 42 | 36 | 24 | 15 | 23 | 24 |
| 10 | 295 | 25 | 44 | 211 | 43 | 43 | 41 | 35 | 24 | 15 | 22 | 24 |
| 11 | 307 | 26 | 44 | 83 | 43 | 51 | 40 | 33 | 23 | 14 | 24 | 23 |
| 12 | 68 | 27 | 39 | 52 | 58 | 56 | 42 | 34 | 22 | 15 | 21 | 22 |
| 13 | 54 | 27 | 62 | 45 | 59 | 45 | 49 | 33 | 21 | 26 | 20 | 22 |
| 14 | 43 | 27 | 157 | 41 | 207 | 43 | 59 | 32 | 20 | 33 | 19 | 21 |
| 15 | 36 | 28 | 72 | 39 | 85 | 43 | 113 | 31 | 22 | 20 | 19 | 21 |
| 16 | 31 | 28 | 55 | 38 | 59 | 126 | 65 | 30 | 22 | 18 | 18 | 20 |
| 17 | 22 | 28 | 50 | 37 | 52 | 137 | 53 | 31 | 29 | 16 | 18 | 19 |
| 18 | 25 | 28 | 47 | 41 | 51 | 67 | 48 | 32 | 30 | 15 | 17 | 21 |
| 19 | 23 | 29 | 45 | 41 | 50 | 54 | 45 | 30 | 25 | 15 | 17 | 26 |
| 20 | 24 | 30 | 46 | 46 | 47 | 625 | 44 | 29 | 24 | 15 | 19 | 23 |
| 21 | 28 | 29 | 63 | 39 | 45 | 116 | 44 | 30 | 26 | 14 | 35 | 44 |
| 22 | 25 | 27 | 66 | 38 | 44 | 63 | 42 | 30 | 28 | 14 | 23 | 36 |
| 23 | 24 | 28 | 47 | 83 | 43 | 49 | 41 | 29 | 24 | 16 | 21 | 86 |
| 24 | 19 | 29 | 32 | 75 | 43 | 42 | 46 | 29 | 22 | 25 | 22 | 36 |
| 25 | 20 | 41 | 32 | 62 | 43 | 39 | 68 | 29 | 20 | 95 | 23 | 27 |
| 26 | 20 | 64 | 34 | 53 | 43 | 36 | 47 | 29 | 20 | 33 | 20 | 35 |
| 27 | 21 | 45 | 34 | 48 | 48 | 34 | 41 | 28 | 20 | 24 | 20 | 21 |
| 28 | 21 | 36 | 34 | 47 | 50 | 34 | 47 | 27 | 20 | 23 | 20 | 18 |
| 29 | 21 | 35 | 34 | 49 | 42 | 30 | 43 | 27 | 32 | 20 | 19 | 17 |
| 30 | 22 | 34 | 34 | 67 | --- | 30 | 40 | 25 | 30 | 20 | 18 | 17 |
| 31 | 22 | --- | 36 | 70 | --- | 30 | --- | 25 | --- | 32 | 24 | --- |

TOTAL 1658 924 1443 1661 1589 2202 1649 1012 747 681 781 858
 MEAN 53.5 30.8 46.5 53.6 54.8 71.0 55.0 32.6 24.9 22.0 25.2 28.6
 MAX 307 64 157 211 207 625 153 42 35 95 72 86
 MIN 19 24 32 36 42 30 29 25 20 14 17 17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)

MEAN 51.8 37.6 52.8 68.2 71.8 63.2 63.3 42.5 41.5 32.3 27.6 32.2
 MAX 53.5 44.4 59.1 82.9 89.4 71.0 71.6 52.5 59.5 45.1 37.1 37.4
 (WY) 2000 1999 1999 1999 1999 2000 1999 1999 1998 1998 1998 1998
 MIN 50.1 30.8 46.5 53.6 54.8 55.4 55.0 32.6 24.9 22.0 20.5 28.6
 (WY) 1999 2000 2000 2000 2000 1999 2000 2000 2000 2000 1999 2000

SUMMARY STATISTICS FOR 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1998 - 2000

ANNUAL TOTAL 15205
 ANNUAL MEAN 41.5 46.7
 HIGHEST ANNUAL MEAN 52.0 1999
 LOWEST ANNUAL MEAN 41.5 2000
 HIGHEST DAILY MEAN 625 Mar 20 625 Mar 20 2000
 LOWEST DAILY MEAN 14 Jul 11 14 Aug 10 1999
 ANNUAL SEVEN-DAY MINIMUM 15 Jul 17 15 Jul 17 2000
 MAXIMUM PEAK FLOW 1300 Mar 20 1300 Mar 20 2000
 MAXIMUM PEAK STAGE 6.81 Mar 20 6.81 Mar 20 2000
 10 PERCENT EXCEEDS 59 67
 50 PERCENT EXCEEDS 34 41
 90 PERCENT EXCEEDS 20 21

e Estimated

1 U.S. DEPARTMENT OF THE INTERIOR - U.S. GEOLOGICAL SURVEY - WATER RESOURCES

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DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 17 | 18 | 39 | 32 | 34 | 47 | 62 | 35 | 144 | 23 | 27 | e14 |
| 2 | 16 | 18 | 38 | 34 | 34 | 46 | 53 | 34 | 76 | 22 | 25 | e18 |
| 3 | 17 | 18 | 37 | 36 | 33 | 46 | 54 | 32 | 37 | 26 | 23 | 28 |
| 4 | 17 | 18 | 37 | 37 | 32 | 99 | 53 | 31 | 31 | 35 | 55 | 159 |

| | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 5 | 17 | 21 | 36 | 35 | 32 | 63 | 53 | 31 | 29 | 37 | 34 | 44 |
| 6 | 17 | 19 | 36 | 36 | 32 | 51 | 54 | 32 | 28 | 26 | 29 | 24 |
| 7 | 18 | 20 | 36 | 35 | 31 | 47 | 52 | 31 | 28 | 22 | 26 | 19 |
| 8 | 16 | 24 | 36 | 51 | 31 | 47 | 45 | 31 | 27 | 22 | 23 | 16 |
| 9 | 16 | 72 | 36 | 45 | 31 | 44 | 44 | 31 | 34 | 32 | 23 | 18 |
| 10 | 17 | 72 | 35 | 39 | 37 | 43 | 43 | 30 | 29 | 25 | 23 | 21 |
| 11 | 17 | 34 | 34 | 38 | 32 | 41 | 42 | 29 | 28 | 32 | 22 | 21 |
| 12 | 17 | 29 | 35 | 50 | 33 | 65 | 41 | 28 | 27 | 29 | 22 | 18 |
| 13 | 17 | 27 | 33 | 47 | 34 | 113 | 41 | 28 | 26 | 23 | 197 | 17 |
| 14 | 17 | 28 | 47 | 42 | 36 | 60 | 39 | 26 | 26 | 22 | 48 | 17 |
| 15 | 17 | 26 | 41 | 42 | 34 | 195 | 42 | 26 | 26 | 21 | 20 | 16 |
| 16 | 17 | 26 | 116 | 41 | 34 | 120 | 45 | 25 | 25 | 20 | 16 | 14 |
| 17 | 16 | 34 | 271 | 40 | 48 | 74 | 40 | 25 | 24 | 19 | 15 | 15 |
| 18 | 16 | 30 | 85 | 52 | 38 | 51 | 39 | 26 | 23 | 19 | 16 | 15 |
| 19 | 17 | 36 | 68 | 214 | 36 | 48 | 38 | 25 | 22 | 19 | 15 | 15 |
| 20 | 17 | 41 | 61 | 189 | 35 | 138 | 38 | 28 | 23 | 28 | 14 | 18 |
| 21 | 18 | 33 | 55 | 70 | 35 | 125 | 37 | 34 | 22 | 35 | 13 | 20 |
| 22 | 17 | 32 | 53 | 49 | 59 | 74 | 37 | 37 | 28 | 24 | 13 | 17 |
| 23 | 17 | 30 | 48 | 44 | 48 | 59 | 37 | 34 | 34 | 21 | 13 | 12 |
| 24 | 17 | 30 | 45 | 41 | 41 | 53 | 40 | 28 | 26 | 26 | 13 | 48 |
| 25 | 18 | 124 | 42 | 38 | 65 | 50 | 40 | 38 | 24 | 131 | e13 | 34 |
| 26 | 19 | 84 | 38 | 36 | 66 | 47 | 38 | 38 | 26 | 55 | 13 | 21 |
| 27 | 20 | 54 | 36 | 36 | 50 | 45 | 36 | 30 | 34 | 35 | 12 | 17 |
| 28 | 20 | 46 | 32 | 34 | 47 | 43 | 35 | 35 | 26 | 43 | 12 | 17 |
| 29 | 19 | 43 | 34 | 33 | --- | 132 | 34 | 41 | 23 | 42 | 27 | 15 |
| 30 | 18 | 40 | 30 | 43 | --- | 152 | 34 | 33 | 23 | 37 | 14 | 14 |
| 31 | 18 | --- | 31 | 38 | --- | 78 | --- | 28 | --- | 28 | 14 | --- |
| TOTAL | 537 | 1127 | 1601 | 1597 | 1098 | 2296 | 1286 | 960 | 979 | 979 | 830 | 742 |
| MEAN | 17.3 | 37.6 | 51.6 | 51.5 | 39.2 | 74.1 | 42.9 | 31.0 | 32.6 | 31.6 | 26.8 | 24.7 |
| MAX | 20 | 124 | 271 | 214 | 66 | 195 | 62 | 41 | 144 | 131 | 197 | 159 |
| MIN | 16 | 18 | 30 | 32 | 31 | 41 | 34 | 25 | 22 | 19 | 12 | 12 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2001, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|--------------------|------|------|------------------------|------|------|---------------------|------|------|-------------------------|------|------|------|
| MEAN | 40.3 | 37.6 | 52.4 | 62.7 | 61.1 | 66.8 | 56.5 | 38.7 | 39.3 | 32.1 | 27.4 | 30.3 |
| MAX | 53.5 | 44.4 | 59.1 | 82.9 | 89.4 | 74.1 | 71.6 | 52.5 | 59.5 | 45.1 | 37.1 | 37.4 |
| (WY) | 2000 | 1999 | 1999 | 1999 | 1999 | 2001 | 1999 | 1999 | 1998 | 1998 | 1998 | 1998 |
| MIN | 17.3 | 30.8 | 46.5 | 51.5 | 39.2 | 55.4 | 42.9 | 31.0 | 24.9 | 22.0 | 20.5 | 24.7 |
| (WY) | 2001 | 2000 | 2000 | 2001 | 2001 | 1999 | 2001 | 2001 | 2000 | 2000 | 1999 | 2001 |
| SUMMARY STATISTICS | | | FOR 2000 CALENDAR YEAR | | | FOR 2001 WATER YEAR | | | WATER YEARS 1998 - 2001 | | | |

| | | | |
|--------------------------|-------|------|-------------|
| ANNUAL TOTAL | 14032 | | |
| ANNUAL MEAN | 38.4 | | |
| HIGHEST ANNUAL MEAN | | 44.0 | 1999 |
| LOWEST ANNUAL MEAN | | 52.0 | 2001 |
| HIGHEST DAILY MEAN | | 38.4 | |
| LOWEST DAILY MEAN | 271 | 625 | Mar 20 2000 |
| ANNUAL SEVEN-DAY MINIMUM | 12 | 12 | Aug 27 2001 |
| MAXIMUM PEAK FLOW | 13 | 13 | Aug 22 2001 |
| MAXIMUM PEAK STAGE | 1380 | 1380 | Aug 13 2001 |
| 10 PERCENT EXCEEDS | 6.96 | 6.96 | Aug 13 2001 |
| 50 PERCENT EXCEEDS | 57 | 66 | |
| 90 PERCENT EXCEEDS | 33 | 37 | |
| | 17 | 19 | |

e Estimated