

03178150 MIDDLE FORK BRUSH CREEK AT EDISON, WV
(Detention Reservoir)

LOCATION.--Lat 37°18'22", long 81°09'54", NAD 27, Mercer County, Hydrologic Unit 05050002.

DAM NAME.--Brush Creek No. 19-A.

SURFACE AREA.--68 acres.

DRAINAGE AREA.--2.05 mi².

PERIOD OF RECORD.--June 2002 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,461.0 ft above NGVD 29.

REMARKS.-- Normal Pool = 22.0 ft (Normal Storage = 968 acre-ft)

Top of Riser = 23.7 ft

Emergency Spillway = 28.0 ft

Top of Dam = 37.6 ft

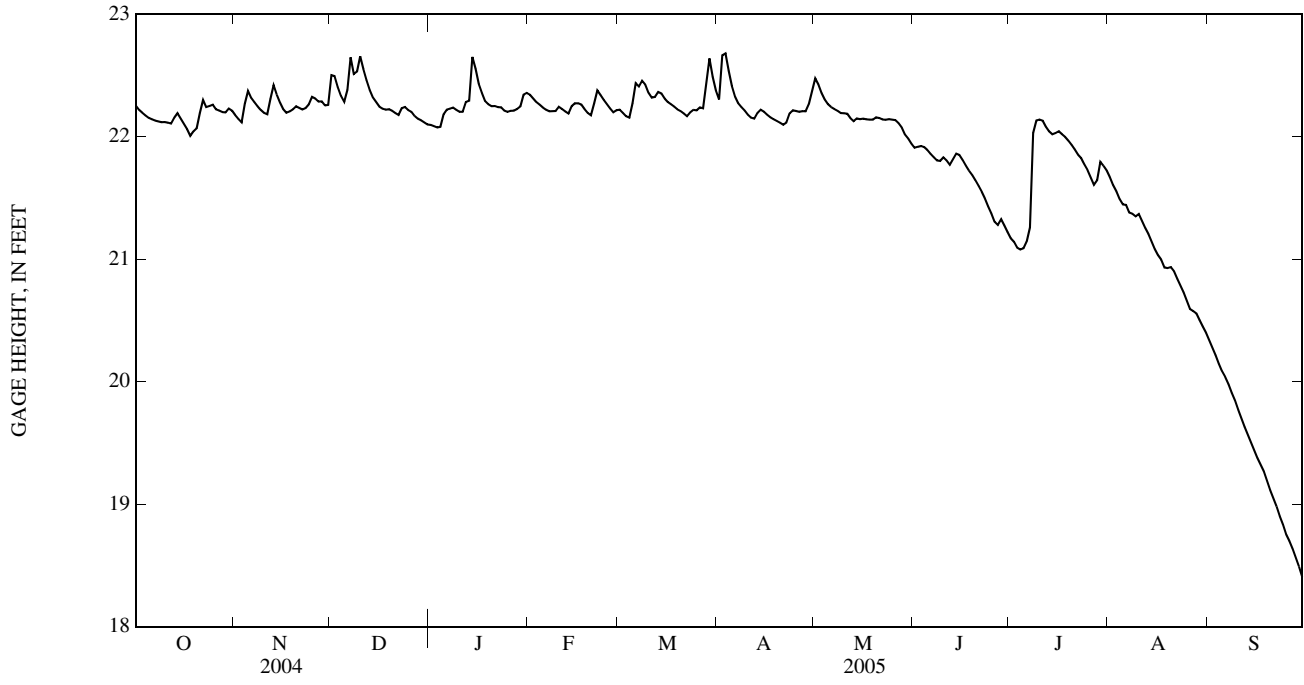
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 24.47 ft, Nov. 19, 2003; minimum gage height, 17.71 ft, Oct. 15, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 22.82 ft, Apr. 2; minimum gage height, 18.37 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 22.25 | 22.18 | 22.50 | 22.10 | 22.34 | 22.22 | 22.30 | 22.48 | 21.91 | 21.17 | 21.67 | 20.34 |
| 2 | 22.22 | 22.15 | 22.50 | 22.09 | 22.31 | 22.20 | 22.67 | 22.43 | 21.92 | 21.14 | 21.61 | 20.28 |
| 3 | 22.20 | 22.12 | 22.41 | 22.08 | 22.28 | 22.17 | 22.68 | 22.36 | 21.93 | 21.10 | 21.55 | 20.22 |
| 4 | 22.17 | 22.27 | 22.33 | 22.08 | 22.26 | 22.16 | 22.54 | 22.30 | 21.92 | 21.08 | 21.49 | 20.15 |
| 5 | 22.16 | 22.38 | 22.29 | 22.18 | 22.24 | 22.27 | 22.42 | 22.27 | 21.89 | 21.09 | 21.45 | 20.09 |
| 6 | 22.14 | 22.32 | 22.38 | 22.22 | 22.22 | 22.44 | 22.33 | 22.24 | 21.86 | 21.15 | 21.44 | 20.04 |
| 7 | 22.13 | 22.28 | 22.65 | 22.23 | 22.21 | 22.41 | 22.27 | 22.23 | 21.83 | 21.26 | 21.38 | 19.98 |
| 8 | 22.13 | 22.25 | 22.51 | 22.24 | 22.21 | 22.46 | 22.24 | 22.21 | 21.81 | 22.03 | 21.37 | 19.91 |
| 9 | 22.12 | 22.22 | 22.53 | 22.22 | 22.21 | 22.43 | 22.21 | 22.19 | 21.80 | 22.13 | 21.35 | 19.85 |
| 10 | 22.12 | 22.20 | 22.66 | 22.20 | 22.24 | 22.36 | 22.18 | 22.19 | 21.83 | 22.14 | 21.37 | 19.77 |
| 11 | 22.12 | 22.18 | 22.55 | 22.20 | 22.23 | 22.32 | 22.16 | 22.19 | 21.81 | 22.13 | 21.31 | 19.70 |
| 12 | 22.11 | 22.31 | 22.46 | 22.28 | 22.21 | 22.33 | 22.15 | 22.15 | 21.77 | 22.08 | 21.26 | 19.63 |
| 13 | 22.16 | 22.42 | 22.38 | 22.29 | 22.19 | 22.37 | 22.20 | 22.13 | 21.82 | 22.04 | 21.21 | 19.57 |
| 14 | 22.19 | 22.34 | 22.32 | 22.65 | 22.25 | 22.35 | 22.22 | 22.15 | 21.86 | 22.02 | 21.15 | 19.50 |
| 15 | 22.15 | 22.28 | 22.28 | 22.56 | 22.27 | 22.31 | 22.21 | 22.14 | 21.85 | 22.03 | 21.08 | 19.44 |
| 16 | 22.11 | 22.23 | 22.25 | 22.43 | 22.27 | 22.28 | 22.18 | 22.15 | 21.81 | 22.04 | 21.03 | 19.38 |
| 17 | 22.06 | 22.20 | 22.23 | 22.36 | 22.26 | 22.27 | 22.16 | 22.14 | 21.76 | 22.02 | 21.00 | 19.32 |
| 18 | 22.01 | 22.21 | 22.22 | 22.29 | 22.23 | 22.25 | 22.14 | 22.14 | 21.72 | 22.00 | 20.93 | 19.27 |
| 19 | 22.05 | 22.22 | 22.22 | 22.27 | 22.19 | 22.22 | 22.13 | 22.14 | 21.69 | 21.97 | 20.93 | 19.19 |
| 20 | 22.07 | 22.25 | 22.21 | 22.25 | 22.18 | 22.21 | 22.12 | 22.16 | 21.65 | 21.94 | 20.94 | 19.11 |
| 21 | 22.19 | 22.24 | 22.19 | 22.25 | 22.27 | 22.19 | 22.10 | 22.15 | 21.60 | 21.90 | 20.90 | 19.05 |
| 22 | 22.30 | 22.22 | 22.18 | 22.24 | 22.38 | 22.17 | 22.12 | 22.14 | 21.55 | 21.86 | 20.84 | 18.98 |
| 23 | 22.24 | 22.23 | 22.23 | 22.24 | 22.34 | 22.20 | 22.19 | 22.14 | 21.50 | 21.83 | 20.79 | 18.90 |
| 24 | 22.25 | 22.26 | 22.24 | 22.21 | 22.30 | 22.22 | 22.22 | 22.14 | 21.43 | 21.77 | 20.73 | 18.83 |
| 25 | 22.26 | 22.33 | 22.22 | 22.20 | 22.27 | 22.22 | 22.21 | 22.14 | 21.38 | 21.73 | 20.66 | 18.75 |
| 26 | 22.22 | 22.31 | 22.20 | 22.21 | 22.23 | 22.24 | 22.20 | 22.14 | 21.31 | 21.67 | 20.59 | 18.70 |
| 27 | 22.21 | 22.29 | 22.17 | 22.21 | 22.20 | 22.23 | 22.21 | 22.11 | 21.28 | 21.61 | 20.58 | 18.64 |
| 28 | 22.20 | 22.29 | 22.15 | 22.23 | 22.22 | 22.43 | 22.21 | 22.08 | 21.33 | 21.65 | 20.56 | 18.56 |
| 29 | 22.20 | 22.26 | 22.13 | 22.25 | --- | 22.64 | 22.27 | 22.02 | 21.28 | 21.80 | 20.50 | 18.49 |
| 30 | 22.23 | 22.26 | 22.12 | 22.34 | --- | 22.49 | 22.37 | 21.99 | 21.22 | 21.76 | 20.45 | 18.40 |
| 31 | 22.21 | --- | 22.10 | 22.36 | --- | 22.38 | --- | 21.95 | --- | 21.72 | 20.40 | --- |
| MEAN | 22.17 | 22.26 | 22.32 | 22.26 | 22.25 | 22.30 | 22.25 | 22.17 | 21.68 | 21.74 | 21.05 | 19.40 |
| MAX | 22.30 | 22.42 | 22.66 | 22.65 | 22.38 | 22.64 | 22.68 | 22.48 | 21.93 | 22.14 | 21.67 | 20.34 |
| MIN | 22.01 | 22.12 | 22.10 | 22.08 | 22.18 | 22.16 | 22.10 | 21.95 | 21.22 | 21.08 | 20.40 | 18.40 |

03178150 MIDDLE FORK BRUSH CREEK AT EDISON, WV—Continued



03179000 BLUESTONE RIVER NEAR PIPESTEM, WV

LOCATION.--Lat 37°32'38", long 81°00'38", NAD 27, Summers County, Hydrologic Unit 05050002, on left bank 1.2 mi downstream from Mountain Creek, 2.5 mi west of Pipestem, and at mile 10.6.

DRAINAGE AREA.--395 mi².

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WSP 1705: 1959. WDR WV-82-1: Drainage area. WDR WV-97-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,527.35 ft above NGVD 29 (U.S. Army Corps of Engineers bench mark).

REMARKS.--No estimated daily discharges. Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Dec 10 | 0400 | *4,510 | *9.14 | No other peak greater than base discharge. | | | |

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 | 478 | 511 | 2,740 | 323 | 974 | 659 | 1,030 | 1,800 | 135 | 188 | 344 | 129 |
| 2 | 369 | 434 | 2,490 | 308 | 853 | 582 | 2,290 | 1,540 | 153 | 280 | 216 | 111 |
| 3 | 332 | 375 | 1,430 | 285 | 818 | 512 | 2,860 | 1,030 | 238 | 181 | 163 | 95 |
| 4 | 279 | 1,070 | 979 | 277 | 852 | 502 | 2,410 | 766 | 226 | 126 | 137 | 84 |
| 5 | 237 | 1,690 | 754 | 530 | 824 | 994 | 1,700 | 608 | 200 | 102 | 120 | 76 |
| 6 | 207 | 1,050 | 811 | 738 | 779 | 2,060 | 1,210 | 518 | 165 | 113 | 119 | 70 |
| 7 | 185 | 747 | 2,590 | 720 | 759 | 1,760 | 947 | 461 | 144 | 195 | 135 | 65 |
| 8 | 168 | 573 | 2,020 | 808 | 856 | 2,040 | 812 | 414 | 138 | 1,590 | 133 | 63 |
| 9 | 156 | 464 | 2,290 | 891 | 1,000 | 2,050 | 743 | 364 | 156 | 788 | 170 | 60 |
| 10 | 149 | 412 | 4,050 | 790 | 1,070 | 1,450 | 604 | 331 | 217 | 370 | 238 | 57 |
| 11 | 141 | 362 | 2,550 | 711 | 931 | 1,160 | 524 | 340 | 215 | 242 | 177 | 55 |
| 12 | 134 | 589 | 1,840 | 1,080 | 792 | 1,130 | 485 | 307 | 158 | 187 | 132 | 53 |
| 13 | 258 | 1,080 | 1,400 | 1,030 | 709 | 1,500 | 576 | 272 | 211 | 158 | 106 | 50 |
| 14 | 587 | 927 | 1,060 | 2,770 | 1,000 | 1,490 | 575 | 301 | 403 | 255 | 92 | 49 |
| 15 | 417 | 711 | 837 | 2,530 | 1,260 | 1,260 | 552 | 338 | 310 | 317 | 84 | 48 |
| 16 | 307 | 578 | 694 | 1,470 | 1,090 | 1,050 | 497 | 300 | 214 | 593 | 89 | 47 |
| 17 | 250 | 489 | 615 | 1,040 | 963 | 942 | 442 | 258 | 161 | 516 | 102 | 47 |
| 18 | 206 | 435 | 549 | 762 | 798 | 836 | 406 | 234 | 135 | 566 | 96 | 45 |
| 19 | 493 | 404 | 507 | 639 | 677 | 745 | 377 | 221 | 120 | 557 | 1,100 | 44 |
| 20 | 704 | 417 | 419 | 603 | 600 | 707 | 347 | 291 | 115 | 432 | 627 | 43 |
| 21 | 694 | 392 | 390 | 553 | 910 | 666 | 321 | 283 | 104 | 349 | 417 | 42 |
| 22 | 897 | 355 | 398 | 496 | 1,800 | 605 | 330 | 238 | 96 | 258 | 253 | 40 |
| 23 | 608 | 351 | 446 | 458 | 1,380 | 711 | 464 | 216 | 90 | 200 | 180 | 39 |
| 24 | 575 | 477 | 627 | 366 | 1,060 | 1,080 | 455 | 232 | 84 | 174 | 146 | 38 |
| 25 | 761 | 1,090 | 584 | 406 | 879 | 1,030 | 466 | 234 | 78 | 142 | 120 | 37 |
| 26 | 616 | 1,330 | 518 | 443 | 715 | 1,020 | 443 | 212 | 73 | 124 | 107 | 38 |
| 27 | 569 | 993 | 449 | 529 | 613 | 909 | 425 | 190 | 170 | 116 | 233 | 39 |
| 28 | 666 | 804 | 375 | 533 | 613 | 1,490 | 399 | 174 | 342 | 130 | 370 | 41 |
| 29 | 673 | 636 | 367 | 519 | --- | 2,610 | 384 | 162 | 144 | 281 | 247 | 42 |
| 30 | 678 | 576 | 352 | 787 | --- | 2,030 | 791 | 149 | 119 | 641 | 174 | 41 |
| 31 | 613 | --- | 333 | 1,050 | --- | 1,380 | --- | 144 | --- | 718 | 148 | --- |
| TOTAL | 13,407 | 20,322 | 35,464 | 24,445 | 25,575 | 36,960 | 23,865 | 12,928 | 5,114 | 10,889 | 6,775 | 1,688 |
| MEAN | 432 | 677 | 1,144 | 789 | 913 | 1,192 | 796 | 417 | 170 | 351 | 219 | 56.3 |
| MAX | 897 | 1,690 | 4,050 | 2,770 | 1,800 | 2,610 | 2,860 | 1,800 | 403 | 1,590 | 1,100 | 129 |
| MIN | 134 | 351 | 333 | 277 | 600 | 502 | 321 | 144 | 73 | 102 | 84 | 37 |
| CFSM | 1.09 | 1.71 | 2.90 | 2.00 | 2.31 | 3.02 | 2.01 | 1.06 | 0.43 | 0.89 | 0.55 | 0.14 |
| IN. | 1.26 | 1.91 | 3.34 | 2.30 | 2.41 | 3.48 | 2.25 | 1.22 | 0.48 | 1.03 | 0.64 | 0.16 |

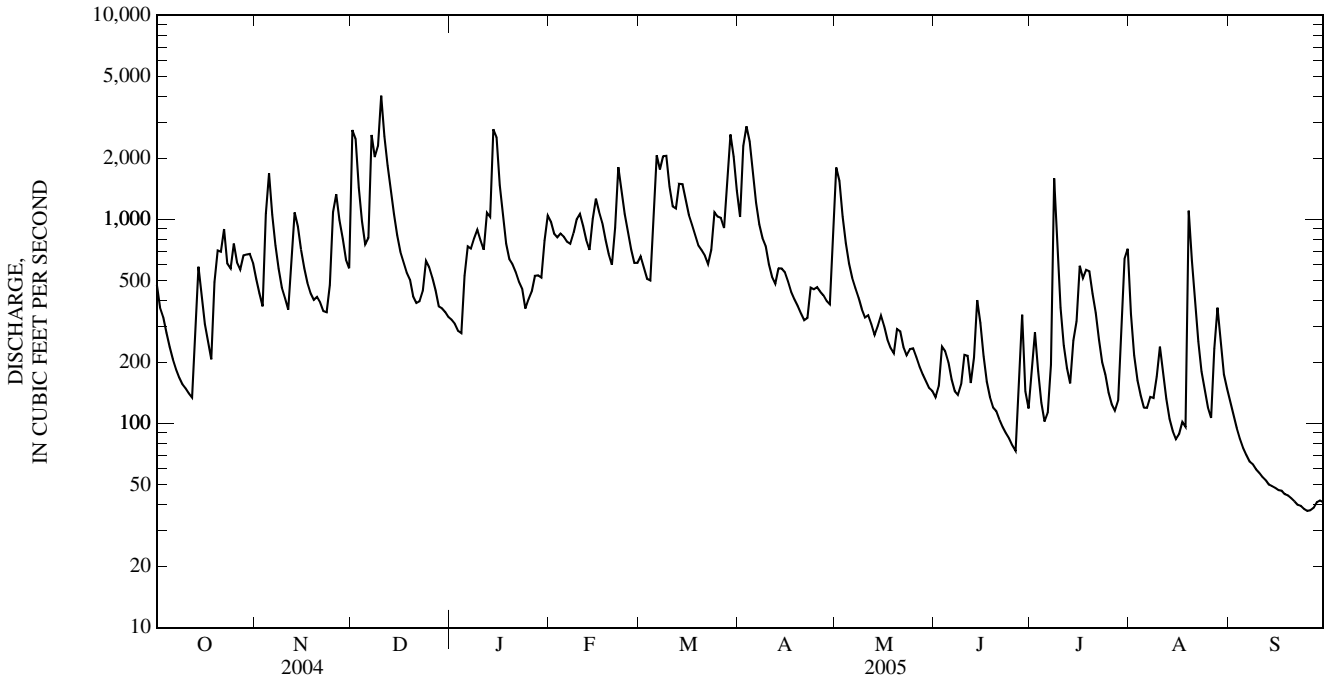
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 146 | 265 | 485 | 675 | 927 | 1,063 | 816 | 648 | 317 | 179 | 131 | 104 |
| MAX | 796 | 1,306 | 1,485 | 2,107 | 2,148 | 3,276 | 2,855 | 1,499 | 1,163 | 1,172 | 557 | 667 |
| (WY) | (1977) | (2004) | (1973) | (1957) | (1957) | (1955) | (1987) | (2001) | (1979) | (2001) | (2003) | (2004) |
| MIN | 16.7 | 20.0 | 33.8 | 53.7 | 187 | 188 | 174 | 154 | 54.2 | 40.5 | 23.8 | 13.9 |
| (WY) | (1954) | (1954) | (1966) | (1966) | (2002) | (1988) | (1986) | (1964) | (1999) | (1999) | (1988) | (1955) |

03179000 BLUESTONE RIVER NEAR PIPESTEM, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1950 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 272,076 | | 217,432 | | | |
| ANNUAL MEAN | 743 | | 596 | | 477 | |
| HIGHEST ANNUAL MEAN | | | | | 773 2003 | |
| LOWEST ANNUAL MEAN | | | | | 178 1988 | |
| HIGHEST DAILY MEAN | 7,310 | Apr 14 | 4,050 | Dec 10 | 15,900 | Apr 5, 1977 |
| LOWEST DAILY MEAN | 60 | Sep 6 | 37 | Sep 25 | 7.0 | Sep 22, 1955 |
| ANNUAL SEVEN-DAY MINIMUM | 68 | Sep 1 | 39 | Sep 22 | 8.5 | Sep 18, 1955 |
| MAXIMUM PEAK FLOW | | | 4,510 | Dec 10 | 19,300 | Apr 5, 1977 |
| MAXIMUM PEAK STAGE | | | 9.14 | Dec 10 | 15.82 | Apr 5, 1977 |
| INSTANTANEOUS LOW FLOW | | | 36 | Sep 26 | 7.0 | (a) |
| ANNUAL RUNOFF (CFSM) | 1.88 | | 1.51 | | 1.21 | |
| ANNUAL RUNOFF (INCHES) | 25.62 | | 20.48 | | 16.42 | |
| 10 PERCENT EXCEEDS | 1,660 | | 1,260 | | 1,120 | |
| 50 PERCENT EXCEEDS | 515 | | 435 | | 210 | |
| 90 PERCENT EXCEEDS | 159 | | 96 | | 38 | |

a Sept. 21-23, 30, 1955.



03180500 GREENBRIER RIVER AT DURBIN, WV

LOCATION.--Lat 38°32'37", long 79°50'00", NAD 27, Pocahontas County, Hydrologic Unit 05050003, on left bank at Durbin, 500 ft downstream from confluence of East and West Forks, and at mile 153.4.

DRAINAGE AREA.--133 mi².

PERIOD OF RECORD.--March 1943 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area. WDR WV-97-1: 1944-46(M), 1951(M), 1953(M), 1955(P), 1956(M), 1958(M), WDR WV-02-1: 1999(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,699.71 ft above NGVD 29.

REMARKS.--Records good except those for periods of estimated daily discharges (no gage-height record, ice effect), which are poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar 24 | 0230 | *3,990 | *5.63 | Mar 28 | 1700 | 3,520 | 5.33 |

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 | 306 | 203 | 1,080 | 181 | e83 | e240 | 541 | 1,300 | 163 | 38 | 97 | 64 |
| 2 | 237 | 188 | 1,060 | 162 | e80 | e200 | 814 | 910 | 148 | 58 | 90 | 48 |
| 3 | 195 | 192 | 703 | 159 | e77 | e180 | 976 | 613 | 182 | 38 | 71 | 39 |
| 4 | 157 | 589 | 481 | 210 | e73 | e170 | 835 | 431 | 160 | 25 | 59 | 33 |
| 5 | 132 | 986 | 360 | 281 | e71 | e160 | 726 | 331 | 129 | 21 | 50 | 29 |
| 6 | 109 | 690 | 324 | 339 | e80 | e170 | 580 | 279 | 112 | 20 | 48 | 26 |
| 7 | 95 | 484 | 360 | 379 | e100 | e200 | 461 | 244 | 103 | 26 | e47 | 23 |
| 8 | 83 | 356 | 447 | 498 | e220 | 906 | 609 | 213 | 94 | 619 | e70 | 21 |
| 9 | 75 | 280 | 552 | 557 | 462 | 697 | 527 | 184 | 97 | 255 | e360 | 20 |
| 10 | 71 | 234 | 892 | 494 | 575 | 493 | 438 | 166 | 139 | 161 | e260 | 19 |
| 11 | 64 | 206 | 831 | 391 | 490 | 394 | 357 | 197 | 109 | 111 | e200 | 18 |
| 12 | 58 | 302 | 645 | 327 | 395 | 336 | 304 | 195 | 93 | 83 | 154 | 16 |
| 13 | 80 | 331 | 519 | 281 | 320 | 289 | 268 | 170 | 80 | 81 | 121 | 15 |
| 14 | 100 | 318 | 404 | 860 | 355 | 258 | 226 | 164 | 81 | 215 | 95 | e15 |
| 15 | e86 | 292 | 329 | 838 | 482 | 243 | 194 | 261 | 64 | 193 | 78 | e14 |
| 16 | e180 | 264 | 293 | 618 | 533 | 238 | 168 | 233 | 57 | 239 | 110 | e14 |
| 17 | e200 | 234 | 292 | 441 | 500 | 228 | 153 | 216 | 56 | 423 | 114 | e13 |
| 18 | e150 | 225 | 242 | 343 | 419 | 223 | 143 | 194 | 49 | 342 | 77 | e13 |
| 19 | e130 | 222 | 225 | e240 | 347 | 273 | 134 | 178 | 48 | 345 | 93 | e14 |
| 20 | e260 | 246 | e200 | e200 | 295 | 368 | 124 | 1,290 | 41 | 393 | 89 | e14 |
| 21 | e240 | 246 | e160 | e160 | 315 | 386 | 117 | 1,450 | 37 | 308 | 84 | e13 |
| 22 | e200 | 246 | e260 | e140 | 592 | 410 | 239 | 790 | 34 | 337 | 68 | e13 |
| 23 | e220 | 240 | 627 | e120 | 544 | 1,190 | 514 | 541 | 31 | 276 | 55 | e13 |
| 24 | e350 | 296 | 928 | e100 | 476 | 2,770 | 527 | 587 | 28 | 200 | 49 | e14 |
| 25 | e310 | 540 | 654 | e110 | 381 | 1,280 | 460 | 596 | 25 | 157 | 42 | e14 |
| 26 | e280 | 548 | 462 | e120 | 311 | 858 | 484 | 541 | 23 | 137 | 38 | e15 |
| 27 | 247 | 470 | 346 | e96 | 265 | 834 | 471 | 425 | 21 | 109 | 87 | e17 |
| 28 | 226 | 550 | 308 | e80 | 256 | 2,230 | 388 | 337 | 23 | 126 | 125 | 17 |
| 29 | 218 | 513 | 313 | e90 | --- | 2,250 | 329 | 277 | 48 | 133 | 78 | e15 |
| 30 | 235 | 453 | 220 | e86 | --- | 1,200 | 938 | 226 | 34 | 118 | 60 | e13 |
| 31 | 220 | --- | 195 | e84 | --- | 766 | --- | 194 | --- | 116 | 59 | --- |
| TOTAL | 5,514 | 10,944 | 14,712 | 8,985 | 9,097 | 20,440 | 13,045 | 13,733 | 2,309 | 5,703 | 3,028 | 612 |
| MEAN | 178 | 365 | 475 | 290 | 325 | 659 | 435 | 443 | 77.0 | 184 | 97.7 | 20.4 |
| MAX | 350 | 986 | 1,080 | 860 | 592 | 2,770 | 976 | 1,450 | 182 | 619 | 360 | 64 |
| MIN | 58 | 188 | 160 | 80 | 71 | 160 | 117 | 164 | 21 | 20 | 38 | 13 |
| CFSM | 1.34 | 2.74 | 3.57 | 2.18 | 2.44 | 4.96 | 3.27 | 3.33 | 0.58 | 1.38 | 0.73 | 0.15 |
| IN. | 1.54 | 3.06 | 4.11 | 2.51 | 2.54 | 5.72 | 3.65 | 3.84 | 0.65 | 1.60 | 0.85 | 0.17 |

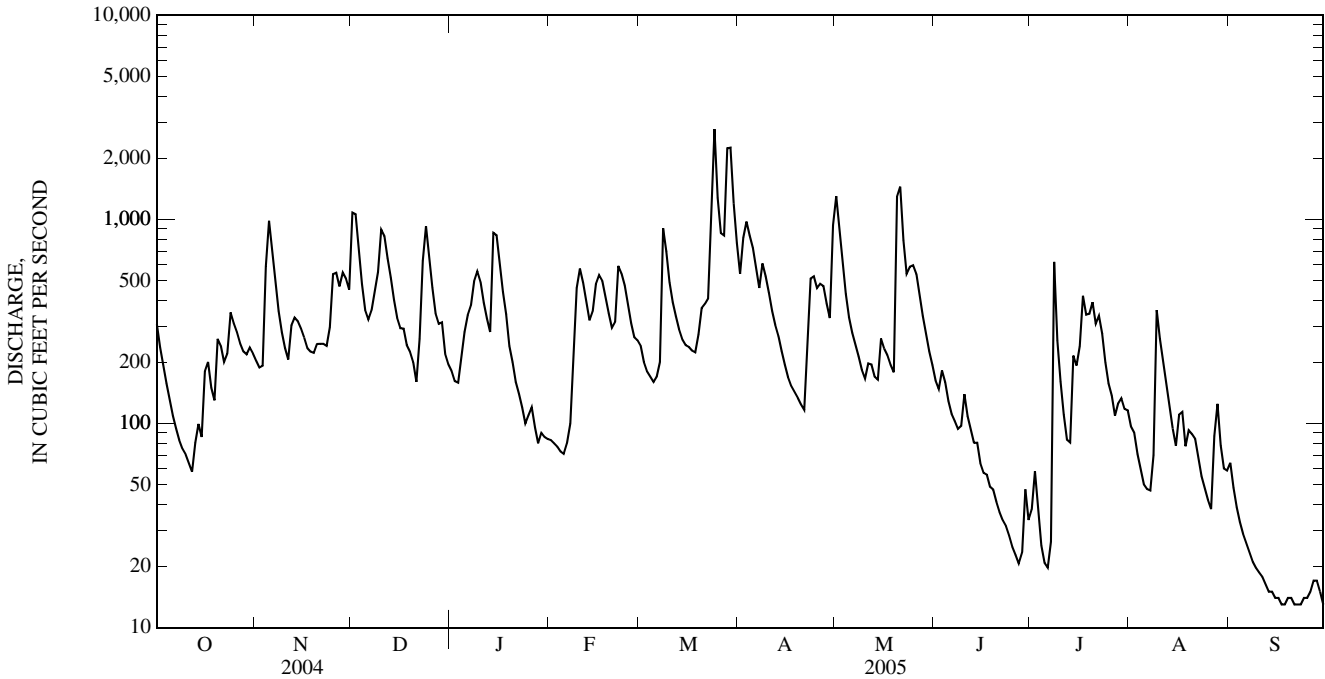
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

| MEAN | 106 | 226 | 324 | 366 | 429 | 575 | 429 | 334 | 162 | 101 | 88.2 | 72.2 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MAX | 665 | 1,336 | 796 | 1,023 | 1,033 | 1,255 | 1,041 | 1,153 | 652 | 541 | 515 | 427 |
| (WY) | (1977) | (1986) | (1973) | (1996) | (1994) | (1963) | (1958) | (1996) | (2003) | (1996) | (1996) | (1996) |
| MIN | 2.06 | 10.1 | 46.6 | 51.7 | 120 | 234 | 142 | 77.9 | 21.9 | 10.9 | 6.01 | 1.82 |
| (WY) | (1954) | (1954) | (1961) | (1981) | (1993) | (1957) | (1955) | (1976) | (1991) | (1988) | (1999) | (1953) |

03180500 GREENBRIER RIVER AT DURBIN, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1943 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 129,264 | | 108,122 | | | |
| ANNUAL MEAN | 353 | | 296 | | 267 | |
| HIGHEST ANNUAL MEAN | | | | | 472 1996 | |
| LOWEST ANNUAL MEAN | | | | | 164 1999 | |
| HIGHEST DAILY MEAN | 2,960 | Apr 14 | 2,770 | Mar 24 | 13,200 | Nov 4, 1985 |
| LOWEST DAILY MEAN | (e)13 | (a) | (e)13 | (b) | 0.50 | (c) |
| ANNUAL SEVEN-DAY MINIMUM | 14 | Sep 1 | 13 | Sep 17 | 0.51 | Sep 28, 1953 |
| MAXIMUM PEAK FLOW | | | 3,990 | Mar 24 | (d)37,100 | Nov 4, 1985 |
| MAXIMUM PEAK STAGE | | | 5.63 | Mar 24 | (f)15.82 | Nov 4, 1985 |
| INSTANTANEOUS LOW FLOW | | | (g) | (h) | 0.00 | (i) |
| ANNUAL RUNOFF (CFSM) | 2.66 | | 2.23 | | 2.01 | |
| ANNUAL RUNOFF (INCHES) | 36.16 | | 30.24 | | 27.30 | |
| 10 PERCENT EXCEEDS | 743 | | 615 | | 620 | |
| 50 PERCENT EXCEEDS | 246 | | 218 | | 140 | |
| 90 PERCENT EXCEEDS | 44 | | 32 | | 17 | |

- a Sept. 5-7.
- b Sept. 17, 18, 21, 22, 23, 30.
- c Sept. 29 to Oct. 4, 1953, Oct. 2, 3, 1968, and Sept. 11, 1995.
- d From rating curve extended above 5,000 ft³/s on basis of slope-area measurement of peak flow.
- e Estimated.
- f From floodmark.
- g Less than 13 ft³/s.
- h Not determined.
- i Oct. 2, 3, 1968.



KANAWHA RIVER BASIN

03182050 MARLIN RUN AT MARLINTON, WV
(Detention Reservoir)

LOCATION.--Lat 38°13'12", long 80°04'52", NAD 27, Pocahontas County, Hydrologic Unit 05050003.

DAM NAME.--Marlin Run No. 1.

SURFACE AREA.--2 acres.

DRAINAGE AREA.--1.02 mi², (corrected).

PERIOD OF RECORD.--November 2002 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,190.0 ft above NGVD 29.

REMARKS.-- Normal Pool = 29.5 ft (Normal Storage = 15 acre-ft)

Top of Riser = 31.3 ft

Emergency Spillway = 65.0 ft

Top of Dam = 71.6 ft

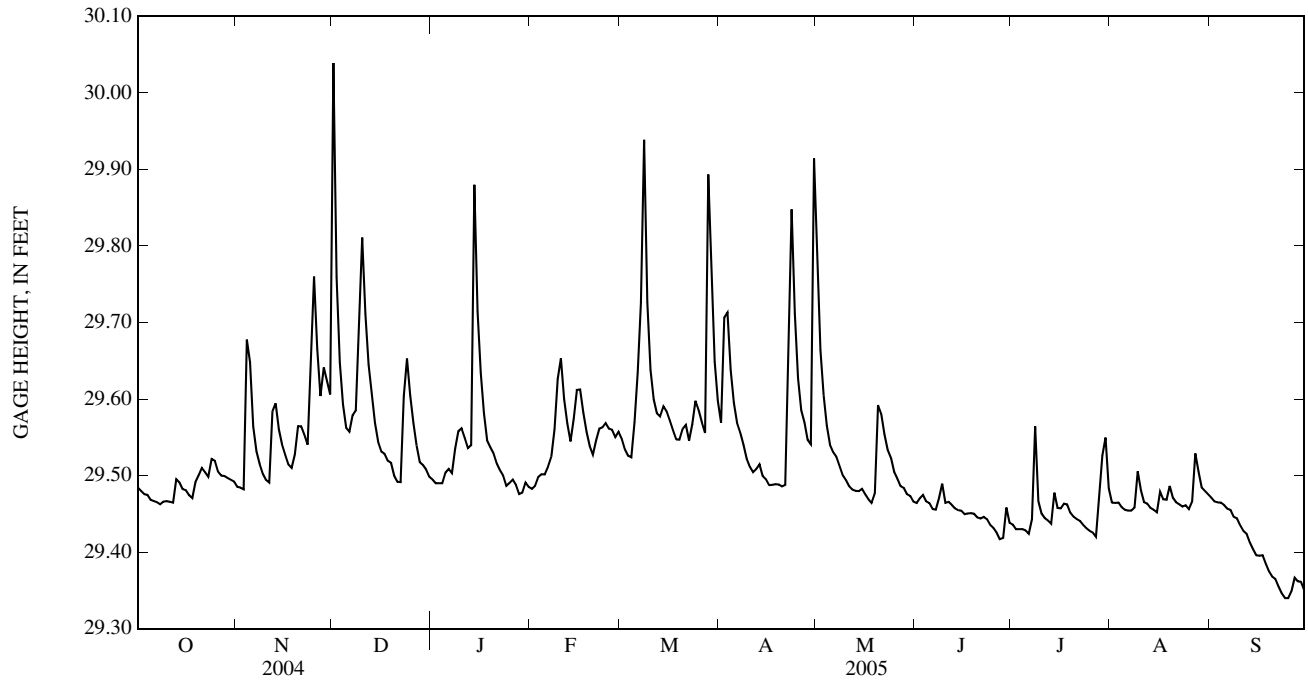
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 32.72 ft, Nov. 19, 2003; minimum gage height, 29.27 ft, Sept. 5, 6, 7, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 30.24 ft, Dec. 1; minimum gage height, 29.34 ft, Sept. 23-26, 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 29.48 | 29.49 | 30.04 | 29.49 | 29.48 | 29.55 | 29.57 | 29.79 | 29.46 | 29.44 | 29.46 | 29.47 |
| 2 | 29.48 | 29.48 | 29.76 | 29.49 | 29.49 | 29.53 | 29.71 | 29.66 | 29.47 | 29.43 | 29.46 | 29.47 |
| 3 | 29.48 | 29.48 | 29.65 | 29.49 | 29.50 | 29.53 | 29.71 | 29.61 | 29.47 | 29.43 | 29.46 | 29.46 |
| 4 | 29.47 | 29.68 | 29.59 | 29.49 | 29.50 | 29.52 | 29.64 | 29.57 | 29.47 | 29.43 | 29.46 | 29.46 |
| 5 | 29.47 | 29.65 | 29.56 | 29.50 | 29.50 | 29.57 | 29.59 | 29.54 | 29.46 | 29.43 | 29.46 | 29.46 |
| 6 | 29.47 | 29.56 | 29.56 | 29.51 | 29.51 | 29.63 | 29.57 | 29.53 | 29.46 | 29.42 | 29.45 | 29.46 |
| 7 | 29.47 | 29.53 | 29.58 | 29.50 | 29.52 | 29.73 | 29.56 | 29.52 | 29.46 | 29.44 | 29.45 | 29.45 |
| 8 | 29.46 | 29.52 | 29.59 | 29.54 | 29.56 | 29.94 | 29.54 | 29.51 | 29.47 | 29.56 | 29.46 | 29.45 |
| 9 | 29.47 | 29.50 | 29.70 | 29.56 | 29.63 | 29.73 | 29.52 | 29.50 | 29.49 | 29.47 | 29.51 | 29.44 |
| 10 | 29.47 | 29.49 | 29.81 | 29.56 | 29.65 | 29.64 | 29.51 | 29.49 | 29.46 | 29.45 | 29.48 | 29.43 |
| 11 | 29.47 | 29.49 | 29.71 | 29.55 | 29.60 | 29.60 | 29.50 | 29.49 | 29.47 | 29.44 | 29.47 | 29.43 |
| 12 | 29.46 | 29.58 | 29.64 | 29.54 | 29.57 | 29.58 | 29.51 | 29.48 | 29.46 | 29.44 | 29.46 | 29.42 |
| 13 | 29.50 | 29.59 | 29.61 | 29.54 | 29.54 | 29.58 | 29.51 | 29.48 | 29.46 | 29.44 | 29.46 | 29.41 |
| 14 | 29.49 | 29.56 | 29.57 | 29.88 | 29.57 | 29.59 | 29.50 | 29.48 | 29.45 | 29.48 | 29.46 | 29.40 |
| 15 | 29.48 | 29.54 | 29.54 | 29.71 | 29.61 | 29.58 | 29.50 | 29.48 | 29.45 | 29.46 | 29.45 | 29.40 |
| 16 | 29.48 | 29.53 | 29.53 | 29.63 | 29.61 | 29.57 | 29.49 | 29.48 | 29.45 | 29.46 | 29.48 | 29.40 |
| 17 | 29.47 | 29.51 | 29.53 | 29.58 | 29.58 | 29.56 | 29.49 | 29.47 | 29.45 | 29.46 | 29.47 | 29.40 |
| 18 | 29.47 | 29.51 | 29.52 | 29.55 | 29.56 | 29.55 | 29.49 | 29.46 | 29.45 | 29.46 | 29.47 | 29.38 |
| 19 | 29.49 | 29.53 | 29.52 | 29.54 | 29.54 | 29.55 | 29.49 | 29.48 | 29.45 | 29.45 | 29.49 | 29.37 |
| 20 | 29.50 | 29.56 | 29.50 | 29.53 | 29.53 | 29.56 | 29.49 | 29.59 | 29.45 | 29.45 | 29.47 | 29.37 |
| 21 | 29.51 | 29.56 | 29.49 | 29.52 | 29.55 | 29.57 | 29.49 | 29.58 | 29.44 | 29.44 | 29.47 | 29.36 |
| 22 | 29.50 | 29.55 | 29.49 | 29.51 | 29.56 | 29.55 | 29.62 | 29.55 | 29.45 | 29.44 | 29.46 | 29.35 |
| 23 | 29.50 | 29.54 | 29.60 | 29.50 | 29.56 | 29.57 | 29.85 | 29.53 | 29.44 | 29.44 | 29.46 | 29.35 |
| 24 | 29.52 | 29.63 | 29.65 | 29.49 | 29.57 | 29.60 | 29.71 | 29.52 | 29.44 | 29.43 | 29.46 | 29.34 |
| 25 | 29.52 | 29.76 | 29.60 | 29.49 | 29.56 | 29.59 | 29.63 | 29.50 | 29.43 | 29.43 | 29.46 | 29.34 |
| 26 | 29.51 | 29.67 | 29.57 | 29.49 | 29.56 | 29.57 | 29.59 | 29.50 | 29.43 | 29.43 | 29.47 | 29.35 |
| 27 | 29.50 | 29.60 | 29.54 | 29.49 | 29.55 | 29.56 | 29.57 | 29.49 | 29.42 | 29.42 | 29.53 | 29.37 |
| 28 | 29.50 | 29.64 | 29.52 | 29.48 | 29.56 | 29.89 | 29.55 | 29.48 | 29.42 | 29.47 | 29.51 | 29.36 |
| 29 | 29.50 | 29.62 | 29.51 | 29.48 | --- | 29.78 | 29.54 | 29.48 | 29.46 | 29.53 | 29.48 | 29.36 |
| 30 | 29.49 | 29.61 | 29.51 | 29.49 | --- | 29.65 | 29.91 | 29.47 | 29.44 | 29.55 | 29.48 | 29.35 |
| 31 | 29.49 | --- | 29.50 | 29.49 | --- | 29.60 | --- | 29.47 | --- | 29.48 | 29.48 | --- |
| MEAN | 29.49 | 29.57 | 29.60 | 29.54 | 29.55 | 29.61 | 29.58 | 29.52 | 29.45 | 29.45 | 29.47 | 29.40 |
| MAX | 29.52 | 29.76 | 30.04 | 29.88 | 29.65 | 29.94 | 29.91 | 29.79 | 29.49 | 29.56 | 29.53 | 29.47 |
| MIN | 29.46 | 29.48 | 29.49 | 29.48 | 29.48 | 29.52 | 29.49 | 29.46 | 29.42 | 29.42 | 29.45 | 29.34 |

03182050 MARLIN RUN AT MARLINTON, WV—Continued



03182500 GREENBRIER RIVER AT BUCKEYE, WV

LOCATION.--Lat 38°11'09", long 80°07'51", NAD 27, Pocahontas County, Hydrologic Unit 05050003, on right bank at upstream side of highway bridge at Buckeye, 1,000 ft upstream from Swago Creek, 3.5 mi downstream from Knapp Creek, and at mile 105.1. Records include flow of Swago Creek.

DRAINAGE AREA.--540 mi², includes that of Swago Creek.

PERIOD OF RECORD.--September 1929 to current year.

REVISED RECORDS.--WSP 758: 1933. WSP 953: 1930-32, 1934-35(M), 1936, 1937(M), 1938-39, 1940(M). WSP 1275: 1936.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,085.89 ft above NGVD 29. Prior to Feb. 27, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of estimated daily discharges (ice effect), which is poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Mar 28 | 2100 | *14,100 | *10.99 | No other peak greater than base discharge. | | | |

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 | 1,030 | 463 | 5,910 | 515 | 377 | 843 | 1,850 | 4,880 | 353 | 133 | 515 | 168 |
| 2 | 721 | 416 | 4,690 | 473 | 359 | 705 | 2,770 | 3,030 | 315 | 107 | 390 | 148 |
| 3 | 553 | 381 | 2,670 | 431 | 374 | 590 | 4,090 | 2,020 | 316 | 96 | 282 | 130 |
| 4 | 435 | 1,380 | 1,750 | 433 | 355 | 537 | 3,030 | 1,430 | 369 | 147 | 210 | 106 |
| 5 | 352 | 3,730 | 1,270 | 674 | 347 | 700 | 2,340 | 1,080 | 323 | 114 | 164 | 91 |
| 6 | 296 | 2,160 | 1,020 | 852 | 360 | 765 | 1,820 | 874 | 273 | 87 | 137 | 80 |
| 7 | 253 | 1,450 | 1,030 | 919 | 420 | 1,270 | 1,450 | 756 | 249 | 86 | 126 | 72 |
| 8 | 225 | 1,050 | 1,460 | 1,050 | 585 | 4,680 | 1,590 | 672 | 232 | 1,190 | 241 | 66 |
| 9 | 203 | 783 | 1,950 | 1,400 | 1,050 | 3,500 | 1,510 | 561 | 224 | 1,140 | 284 | 61 |
| 10 | 189 | 614 | 4,440 | 1,400 | 1,750 | 2,090 | 1,190 | 483 | 208 | 542 | 600 | 58 |
| 11 | 177 | 516 | 3,210 | 1,180 | 1,630 | 1,540 | 985 | 438 | 231 | 338 | 513 | 54 |
| 12 | 165 | 654 | 2,320 | 995 | 1,300 | 1,280 | 836 | 431 | 205 | 245 | 372 | 51 |
| 13 | 217 | 1,230 | 1,790 | 854 | 1,060 | 1,080 | 751 | 404 | 185 | 203 | 280 | 48 |
| 14 | 318 | 1,080 | 1,390 | 3,280 | 1,030 | 1,100 | 652 | 371 | 167 | 353 | 215 | 46 |
| 15 | 326 | 923 | 1,090 | 3,430 | 1,630 | 1,060 | 552 | 414 | 166 | 598 | 171 | 44 |
| 16 | 298 | 799 | 892 | 2,230 | 1,590 | 1,020 | 471 | 524 | 150 | 537 | 185 | 42 |
| 17 | 298 | 682 | 834 | 1,600 | 1,480 | 940 | 418 | 441 | 129 | 624 | 299 | 42 |
| 18 | 295 | 595 | 732 | 1,090 | 1,220 | 859 | 391 | 401 | 118 | 810 | 250 | 41 |
| 19 | 290 | 572 | 664 | 871 | 964 | 890 | 371 | 374 | 112 | 677 | 225 | 39 |
| 20 | 391 | 801 | 546 | 867 | 857 | 1,120 | 349 | 2,010 | 104 | 611 | 214 | 40 |
| 21 | 580 | 892 | 435 | 772 | 804 | 1,320 | 329 | 4,200 | 99 | 555 | 195 | 42 |
| 22 | 540 | 836 | 610 | 612 | 1,600 | 1,260 | 503 | 2,260 | 92 | 445 | 148 | 40 |
| 23 | 457 | 766 | 1,020 | 620 | 1,670 | 1,760 | 2,700 | 1,470 | 86 | 425 | 133 | 40 |
| 24 | 490 | 1,090 | 2,830 | e480 | 1,450 | 8,140 | 2,500 | 1,220 | 78 | 346 | 110 | 39 |
| 25 | 789 | 3,330 | 2,030 | e400 | 1,240 | 4,280 | 1,810 | 1,100 | 73 | 267 | 97 | 40 |
| 26 | 700 | 2,500 | 1,550 | e470 | 1,050 | 2,570 | 1,580 | 1,000 | 68 | 220 | 90 | 41 |
| 27 | 597 | 1,780 | 1,120 | 556 | 900 | 1,990 | 1,460 | 859 | 63 | 190 | 155 | 45 |
| 28 | 543 | 1,980 | 829 | 450 | 864 | 6,740 | 1,230 | 699 | 61 | 180 | 394 | 47 |
| 29 | 506 | 1,990 | 760 | 384 | --- | 8,470 | 1,020 | 581 | 161 | 427 | 342 | 48 |
| 30 | 515 | 1,620 | 684 | 389 | --- | 4,110 | 3,680 | 483 | 154 | 1,430 | 242 | 44 |
| 31 | 522 | --- | 565 | 420 | --- | 2,580 | --- | 408 | --- | 836 | 194 | --- |
| TOTAL | 13,271 | 37,063 | 52,091 | 30,097 | 28,316 | 69,789 | 44,228 | 35,874 | 5,364 | 13,959 | 7,773 | 1,853 |
| MEAN | 428 | 1,235 | 1,680 | 971 | 1,011 | 2,251 | 1,474 | 1,157 | 179 | 450 | 251 | 61.8 |
| MAX | 1,030 | 3,730 | 5,910 | 3,430 | 1,750 | 8,470 | 4,090 | 4,880 | 369 | 1,430 | 600 | 168 |
| MIN | 165 | 381 | 435 | 384 | 347 | 537 | 329 | 371 | 61 | 86 | 90 | 39 |
| CFSM | 0.79 | 2.29 | 3.11 | 1.80 | 1.87 | 4.17 | 2.73 | 2.14 | 0.33 | 0.83 | 0.46 | 0.11 |
| IN. | 0.91 | 2.55 | 3.59 | 2.07 | 1.95 | 4.81 | 3.05 | 2.47 | 0.37 | 0.96 | 0.54 | 0.13 |

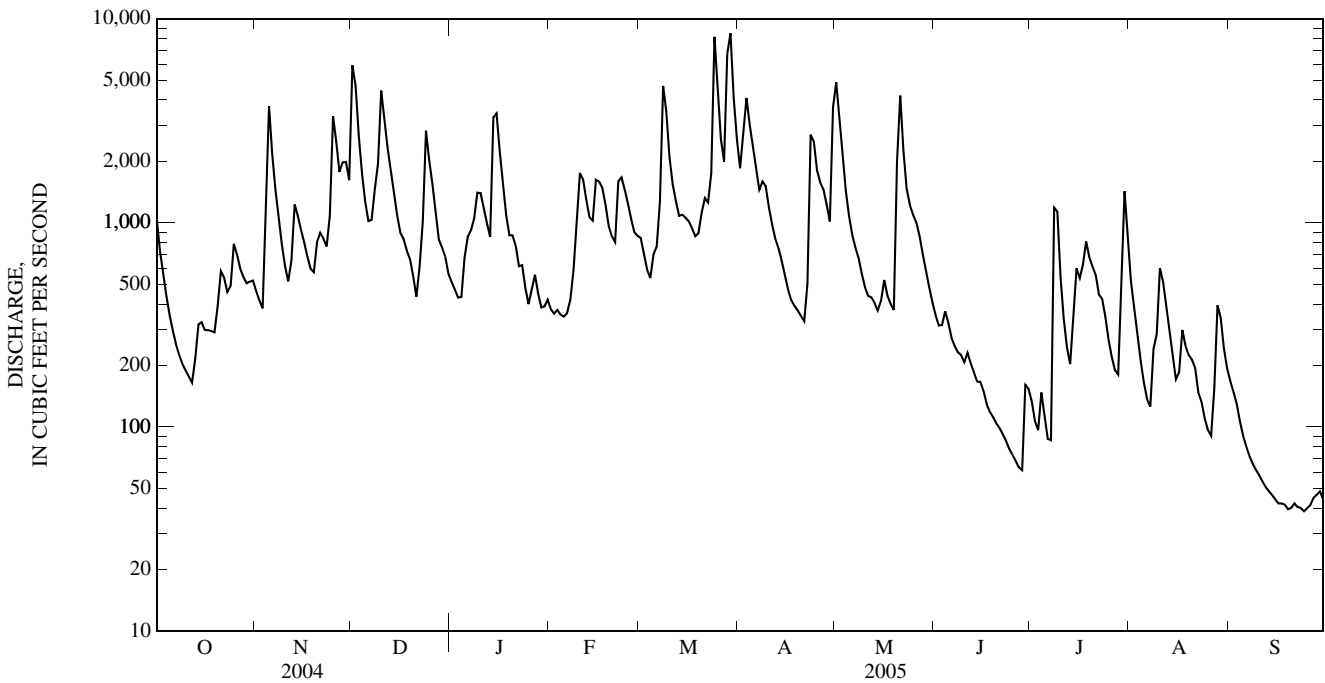
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 342 | 673 | 1,079 | 1,282 | 1,503 | 1,962 | 1,400 | 1,115 | 533 | 339 | 313 | 227 |
| MAX | 2,626 | 3,602 | 2,811 | 3,542 | 3,431 | 4,672 | 3,097 | 3,219 | 2,313 | 1,333 | 2,000 | 1,380 |
| (WY) | (1977) | (1986) | (1973) | (1996) | (1994) | (1963) | (1958) | (1996) | (2003) | (1972) | (1942) | (2003) |
| MIN | 11.8 | 20.7 | 115 | 101 | 273 | 764 | 508 | 224 | 67.9 | 27.8 | 21.5 | 13.5 |
| (WY) | (1931) | (1931) | (1931) | (1981) | (1934) | (1988) | (1963) | (1930) | (1991) | (1930) | (1930) | (1930) |

03182500 GREENBRIER RIVER AT BUCKEYE, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1930 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 409,962 | | 339,678 | | | |
| ANNUAL MEAN | 1,120 | | 931 | | 895 | |
| HIGHEST ANNUAL MEAN | | | | | 1,573 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 492 | 1941 |
| HIGHEST DAILY MEAN | 11,900 | Apr 14 | 8,470 | Mar 29 | 44,400 | Nov 5, 1985 |
| LOWEST DAILY MEAN | 65 | Sep 3 | 39 | (a) | 5.2 | Aug 13, 1930 |
| ANNUAL SEVEN-DAY MINIMUM | 68 | Sep 1 | 40 | Sep 19 | 7.3 | Sep 28, 1930 |
| MAXIMUM PEAK FLOW | | | 14,100 | Mar 28 | (b)82,000 | Nov 5, 1985 |
| MAXIMUM PEAK STAGE | | | 10.99 | Mar 28 | (c)23.20 | Nov 5, 1985 |
| INSTANTANEOUS LOW FLOW | | | 38 | (d) | 3.8 | Aug 13, 1930 |
| ANNUAL RUNOFF (CFSM) | 2.07 | | 1.72 | | 1.66 | |
| ANNUAL RUNOFF (INCHES) | 28.24 | | 23.40 | | 22.52 | |
| 10 PERCENT EXCEEDS | 2,560 | | 2,020 | | 2,100 | |
| 50 PERCENT EXCEEDS | 692 | | 556 | | 425 | |
| 90 PERCENT EXCEEDS | 128 | | 94 | | 56 | |

- a Sept. 19, 24.
- b From rating curve extended above 33,000 ft³/s on basis of slope-area measurement of peak flow.
- c From floodmarks.
- d Sept. 19, 20, 23, 24, 25, 26.
- e Estimated.



KANAWHA RIVER BASIN

03182888 DRY CREEK AT TUCKAHOE, WV
(Detention Reservoir)

LOCATION.--Lat 37°44'28"(corrected), long 80°16'42"(corrected), NAD 27, Greenbrier County, Hydrologic Unit 05050003.

DAM NAME.--Howard Creek No. 12.

SURFACE AREA.--39 acres.

DRAINAGE AREA.--13.5 mi², (corrected).

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,016.54 ft above NGVD 29.

REMARKS.-- Normal Pool = 46.46 ft (Normal Storage = 459 acre-ft)

Top of Riser = 51.13 ft

Emergency Spillway = 77.46 ft

Top of Dam = 98.56 ft

Gage orifice = 42.30 ft

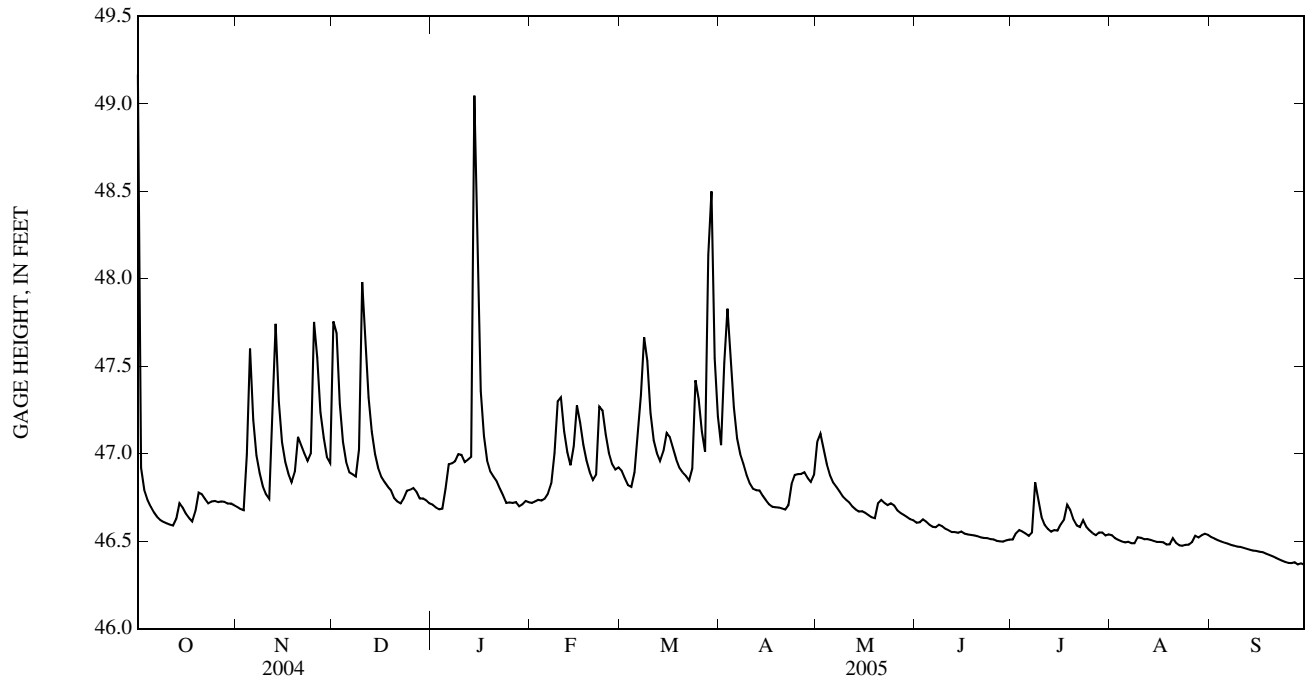
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 64.23 ft, Sept. 28, 2004; minimum gage height, 43.36 ft, Sept. 26, 28, 29, 30, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 52.84 ft, Oct. 1; minimum gage height, 43.36 ft, Sept. 26, 28, 29, 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 49.17 | 46.70 | 47.76 | 46.71 | 46.72 | 46.90 | 47.05 | 47.07 | 46.61 | 46.51 | 46.53 | 46.52 |
| 2 | 46.92 | 46.68 | 47.69 | 46.69 | 46.73 | 46.86 | 47.52 | 47.11 | 46.61 | 46.54 | 46.52 | 46.51 |
| 3 | 46.79 | 46.68 | 47.28 | 46.68 | 46.74 | 46.82 | 47.83 | 47.03 | 46.62 | 46.56 | 46.51 | 46.51 |
| 4 | 46.74 | 46.99 | 47.07 | 46.69 | 46.73 | 46.81 | 47.51 | 46.94 | 46.61 | 46.55 | 46.50 | 46.50 |
| 5 | 46.70 | 47.60 | 46.95 | 46.80 | 46.74 | 46.89 | 47.27 | 46.88 | 46.59 | 46.54 | 46.49 | 46.49 |
| 6 | 46.66 | 47.19 | 46.89 | 46.94 | 46.77 | 47.13 | 47.09 | 46.84 | 46.58 | 46.53 | 46.50 | 46.49 |
| 7 | 46.64 | 46.99 | 46.88 | 46.94 | 46.83 | 47.34 | 47.00 | 46.81 | 46.58 | 46.55 | 46.49 | 46.48 |
| 8 | 46.62 | 46.89 | 46.87 | 46.96 | 47.00 | 47.66 | 46.94 | 46.78 | 46.59 | 46.84 | 46.49 | 46.47 |
| 9 | 46.61 | 46.81 | 47.02 | 47.00 | 47.30 | 47.53 | 46.88 | 46.76 | 46.59 | 46.74 | 46.52 | 46.47 |
| 10 | 46.60 | 46.77 | 47.98 | 46.99 | 47.32 | 47.23 | 46.83 | 46.74 | 46.57 | 46.64 | 46.52 | 46.47 |
| 11 | 46.59 | 46.74 | 47.66 | 46.95 | 47.13 | 47.08 | 46.80 | 46.72 | 46.56 | 46.59 | 46.51 | 46.46 |
| 12 | 46.59 | 47.22 | 47.32 | 46.97 | 47.01 | 47.00 | 46.79 | 46.70 | 46.55 | 46.57 | 46.51 | 46.46 |
| 13 | 46.63 | 47.74 | 47.12 | 46.98 | 46.93 | 46.96 | 46.79 | 46.68 | 46.55 | 46.55 | 46.51 | 46.45 |
| 14 | 46.72 | 47.30 | 47.00 | 49.05 | 47.04 | 47.02 | 46.76 | 46.67 | 46.55 | 46.56 | 46.50 | 46.45 |
| 15 | 46.69 | 47.06 | 46.92 | 48.03 | 47.28 | 47.12 | 46.73 | 46.67 | 46.55 | 46.56 | 46.50 | 46.44 |
| 16 | 46.66 | 46.95 | 46.87 | 47.36 | 47.18 | 47.09 | 46.71 | 46.66 | 46.54 | 46.60 | 46.50 | 46.44 |
| 17 | 46.63 | 46.89 | 46.84 | 47.10 | 47.05 | 47.03 | 46.70 | 46.65 | 46.54 | 46.62 | 46.49 | 46.44 |
| 18 | 46.61 | 46.84 | 46.81 | 46.96 | 46.96 | 46.97 | 46.69 | 46.64 | 46.54 | 46.71 | 46.48 | 46.43 |
| 19 | 46.67 | 46.90 | 46.79 | 46.90 | 46.90 | 46.92 | 46.69 | 46.63 | 46.53 | 46.68 | 46.48 | 46.42 |
| 20 | 46.78 | 47.10 | 46.75 | 46.87 | 46.85 | 46.89 | 46.69 | 46.72 | 46.53 | 46.62 | 46.52 | 46.41 |
| 21 | 46.77 | 47.05 | 46.73 | 46.84 | 46.88 | 46.87 | 46.68 | 46.74 | 46.52 | 46.59 | 46.49 | 46.41 |
| 22 | 46.74 | 47.00 | 46.72 | 46.80 | 47.27 | 46.85 | 46.71 | 46.72 | 46.52 | 46.58 | 46.48 | 46.40 |
| 23 | 46.72 | 46.96 | 46.75 | 46.76 | 47.25 | 46.92 | 46.83 | 46.71 | 46.52 | 46.62 | 46.47 | 46.39 |
| 24 | 46.73 | 47.00 | 46.79 | 46.72 | 47.11 | 47.42 | 46.88 | 46.72 | 46.51 | 46.58 | 46.48 | 46.38 |
| 25 | 46.73 | 47.75 | 46.79 | 46.72 | 47.00 | 47.31 | 46.88 | 46.70 | 46.51 | 46.56 | 46.48 | 46.38 |
| 26 | 46.72 | 47.55 | 46.80 | 46.72 | 46.94 | 47.13 | 46.88 | 46.68 | 46.50 | 46.55 | 46.49 | 46.38 |
| 27 | 46.73 | 47.24 | 46.78 | 46.72 | 46.91 | 47.01 | 46.89 | 46.66 | 46.50 | 46.53 | 46.53 | 46.38 |
| 28 | 46.72 | 47.09 | 46.74 | 46.70 | 46.92 | 48.14 | 46.86 | 46.65 | 46.50 | 46.55 | 46.52 | 46.37 |
| 29 | 46.72 | 46.98 | 46.74 | 46.71 | --- | 48.50 | 46.84 | 46.64 | 46.50 | 46.55 | 46.53 | 46.37 |
| 30 | 46.71 | 46.95 | 46.73 | 46.73 | --- | 47.55 | 46.88 | 46.63 | 46.51 | 46.53 | 46.54 | 46.36 |
| 31 | 46.71 | --- | 46.72 | 46.72 | --- | 47.21 | --- | 46.62 | --- | 46.54 | 46.54 | --- |
| MEAN | 46.77 | 47.05 | 46.99 | 46.96 | 46.98 | 47.17 | 46.92 | 46.75 | 46.55 | 46.59 | 46.50 | 46.44 |
| MAX | 49.17 | 47.75 | 47.98 | 49.05 | 47.32 | 48.50 | 47.83 | 47.11 | 46.62 | 46.84 | 46.54 | 46.52 |
| MIN | 46.59 | 46.68 | 46.72 | 46.68 | 46.72 | 46.81 | 46.68 | 46.62 | 46.50 | 46.51 | 46.47 | 46.36 |

03182888 DRY CREEK AT TUCKAHOE, WV—Continued



03183500 GREENBRIER RIVER AT ALDERSON, WV

LOCATION.--Lat 37°43'27", long 80°38'30", NAD 27, Monroe County, Hydrologic Unit 05050003, on left bank 400 ft upstream from highway bridge at Alderson, 0.5 mi upstream from Muddy Creek, and at mile 29.2.

DRAINAGE AREA.--1,364 mi².

PERIOD OF RECORD.--July 1895 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 536: 1907-9. WSP 803: 1918(M). WSP 953: 1930-41. WSP 1275: 1897, 1905, 1910, 1914(M), 1915-16, 1917(M), 1919-20(M), 1924-25(M), 1927(M), 1929, 1949, WDR WV-82-1: Drainage area. WDR WV-97-1: 1930(M), 1932(M), 1935-37(M), 1939(P), 1943(P), 1946(M), 1955(P), 1963(M), 1967(M), 1974(M), 1977(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,529.42 ft above NGVD 29. Prior to Oct. 15, 1929, nonrecording gage at bridge 400 ft downstream at same datum.

REMARKS.--No estimated daily discharges. Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Mar 29 | 1000 | *23,700 | *11.14 | No other peak greater than base discharge. | | | |

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 | 4,130 | 1,220 | 8,550 | 1,220 | 1,040 | 2,330 | 4,670 | 10,400 | 788 | 582 | 2,310 | 481 |
| 2 | 2,550 | 1,090 | 13,600 | 1,140 | 1,030 | 2,130 | 4,560 | 7,430 | 689 | 506 | 1,320 | 421 |
| 3 | 1,850 | 976 | 7,540 | 1,070 | 1,030 | 1,850 | 8,340 | 5,180 | 650 | 401 | 920 | 371 |
| 4 | 1,460 | 1,320 | 5,060 | 1,000 | 1,070 | 1,630 | 7,280 | 3,780 | 648 | 314 | 740 | 333 |
| 5 | 1,160 | 6,910 | 3,650 | 1,190 | 1,120 | 1,790 | 5,680 | 2,840 | 630 | 254 | 527 | 299 |
| 6 | 935 | 6,090 | 2,830 | 1,830 | 1,190 | 3,370 | 4,530 | 2,280 | 635 | 243 | 451 | 243 |
| 7 | 779 | 4,000 | 2,560 | 2,200 | 1,380 | 4,380 | 3,660 | 1,950 | 584 | 265 | 377 | 218 |
| 8 | 657 | 2,860 | 2,690 | 2,370 | 1,800 | 6,920 | 3,060 | 1,750 | 585 | 515 | 348 | 200 |
| 9 | 564 | 2,140 | 3,560 | 2,980 | 2,870 | 9,850 | 2,990 | 1,570 | 514 | 2,330 | 318 | 188 |
| 10 | 502 | 1,660 | 10,200 | 3,340 | 4,260 | 6,130 | 2,660 | 1,380 | 469 | 2,040 | 433 | 177 |
| 11 | 456 | 1,370 | 9,090 | 3,020 | 4,550 | 4,420 | 2,230 | 1,250 | 494 | 1,150 | 771 | 178 |
| 12 | 421 | 1,810 | 6,500 | 2,680 | 3,550 | 3,560 | 1,950 | 1,180 | 446 | 733 | 936 | 137 |
| 13 | 475 | 3,930 | 4,970 | 2,330 | 2,900 | 3,080 | 1,800 | 1,070 | 455 | 513 | 672 | 127 |
| 14 | 691 | 3,670 | 3,930 | 6,410 | 2,720 | 2,910 | 1,670 | 985 | 471 | 425 | 511 | 119 |
| 15 | 969 | 2,820 | 3,070 | 9,750 | 4,520 | 3,140 | 1,480 | 959 | 461 | 582 | 412 | 117 |
| 16 | 939 | 2,310 | 2,480 | 6,470 | 4,880 | 3,090 | 1,280 | 974 | 391 | 1,250 | 363 | 114 |
| 17 | 843 | 1,960 | 2,090 | 4,610 | 4,110 | 2,860 | 1,130 | 1,080 | 355 | 1,580 | 365 | 113 |
| 18 | 783 | 1,690 | 1,920 | 3,360 | 3,420 | 2,570 | 1,040 | 1,020 | 335 | 1,990 | 389 | 108 |
| 19 | 833 | 1,530 | 1,760 | 2,510 | 2,760 | 2,330 | 981 | 852 | 319 | 2,100 | 487 | 106 |
| 20 | 1,280 | 1,700 | 1,570 | 2,260 | 2,270 | 2,280 | 938 | 1,060 | 292 | 1,680 | 443 | 111 |
| 21 | 1,450 | 2,120 | 1,200 | 2,080 | 2,170 | 2,560 | 891 | 4,510 | 273 | 1,380 | 446 | 92 |
| 22 | 1,500 | 2,120 | 1,060 | 1,850 | 3,130 | 2,670 | 946 | 4,930 | 262 | 1,210 | 406 | 87 |
| 23 | 1,350 | 1,950 | 1,310 | 1,560 | 4,490 | 2,580 | 2,470 | 3,260 | 257 | 1,000 | 357 | 87 |
| 24 | 1,170 | 1,900 | 3,030 | 1,150 | 3,900 | 5,850 | 5,540 | 2,430 | 250 | 826 | 309 | 87 |
| 25 | 1,550 | 6,600 | 4,240 | 983 | 3,370 | 8,840 | 4,370 | 2,060 | 245 | 652 | 265 | 88 |
| 26 | 1,940 | 7,630 | 3,140 | 1,130 | 2,840 | 5,590 | 3,500 | 1,820 | 233 | 532 | 266 | 81 |
| 27 | 1,690 | 5,220 | 2,540 | 1,270 | 2,500 | 4,190 | 3,210 | 1,640 | 229 | 436 | 344 | 78 |
| 28 | 1,470 | 4,220 | 1,910 | 1,100 | 2,340 | 6,580 | 2,870 | 1,450 | 323 | 523 | 791 | 74 |
| 29 | 1,320 | 4,730 | 1,580 | 855 | --- | 19,700 | 2,450 | 1,230 | 285 | 814 | 981 | 81 |
| 30 | 1,240 | 4,100 | 1,500 | 932 | --- | 10,400 | 3,210 | 1,060 | 952 | 723 | 939 | 89 |
| 31 | 1,240 | --- | 1,400 | 982 | --- | 6,470 | --- | 927 | --- | 3,370 | 640 | --- |
| TOTAL | 38,197 | 91,646 | 120,530 | 75,632 | 77,210 | 146,050 | 91,386 | 74,307 | 13,520 | 30,919 | 18,837 | 5,005 |
| MEAN | 1,232 | 3,055 | 3,888 | 2,440 | 2,758 | 4,711 | 3,046 | 2,397 | 451 | 997 | 608 | 167 |
| MAX | 4,130 | 7,630 | 13,600 | 9,750 | 4,880 | 19,700 | 8,340 | 10,400 | 952 | 3,370 | 2,310 | 481 |
| MIN | 421 | 976 | 1,060 | 855 | 1,030 | 1,630 | 891 | 852 | 229 | 243 | 265 | 74 |
| CFSM | 0.90 | 2.24 | 2.85 | 1.79 | 2.02 | 3.45 | 2.23 | 1.76 | 0.33 | 0.73 | 0.45 | 0.12 |
| IN. | 1.04 | 2.50 | 3.29 | 2.06 | 2.11 | 3.98 | 2.49 | 2.03 | 0.37 | 0.84 | 0.51 | 0.14 |

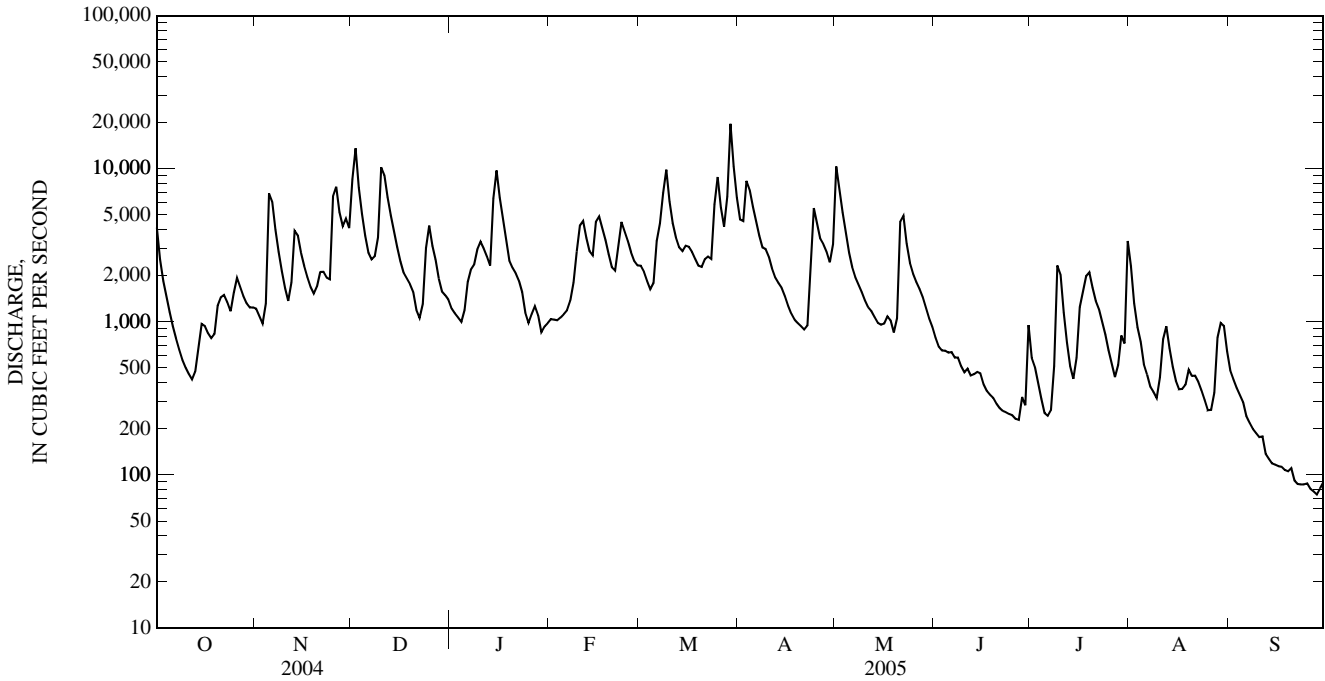
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 725 | 1,316 | 2,268 | 3,023 | 3,487 | 4,511 | 3,100 | 2,425 | 1,348 | 814 | 715 | 466 |
| MAX | 4,480 | 6,006 | 6,409 | 7,866 | 7,739 | 10,970 | 7,568 | 5,700 | 6,045 | 3,481 | 4,390 | 2,805 |
| (WY) | (1977) | (1986) | (1974) | (1996) | (1897) | (1963) | (1987) | (1996) | (1907) | (1919) | (1898) | (2003) |
| MIN | 35.6 | 68.9 | 172 | 242 | 411 | 1,332 | 802 | 489 | 203 | 68.9 | 43.2 | 33.8 |
| (WY) | (1931) | (1931) | (1931) | (1981) | (1934) | (1915) | (1915) | (1941) | (1991) | (1930) | (1930) | (1930) |

03183500 GREENBRIER RIVER AT ALDERSON, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1895 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 938,883 | | 783,239 | | | |
| ANNUAL MEAN | 2,565 | | 2,146 | | 2,011 | |
| HIGHEST ANNUAL MEAN | | | | | 3,606 | |
| LOWEST ANNUAL MEAN | | | | | 983 | |
| HIGHEST DAILY MEAN | 28,000 | Apr 14 | 19,700 | Mar 29 | 63,100 | Jan 20, 1996 |
| LOWEST DAILY MEAN | 143 | Sep 6 | 74 | Sep 28 | 26 | Aug 11, 1930 |
| ANNUAL SEVEN-DAY MINIMUM | 159 | Sep 1 | 82 | Sep 23 | 28 | Sep 29, 1930 |
| MAXIMUM PEAK FLOW | | | 23,700 | Mar 29 | (a)94,000 | Jan 20, 1996 |
| MAXIMUM PEAK STAGE | | | 11.14 | Mar 29 | 24.33 | Jan 20, 1996 |
| INSTANTANEOUS LOW FLOW | | | 72 | Sep 27 | 24 | (b) |
| ANNUAL RUNOFF (CFSM) | 1.88 | | 1.57 | | 1.47 | |
| ANNUAL RUNOFF (INCHES) | 25.61 | | 21.36 | | 20.03 | |
| 10 PERCENT EXCEEDS | 5,950 | | 4,690 | | 4,830 | |
| 50 PERCENT EXCEEDS | 1,700 | | 1,380 | | 957 | |
| 90 PERCENT EXCEEDS | 252 | | 270 | | 145 | |

a From rating curve extended above 37,000 ft³/s on basis of slope-area measurement of peak flow.
 b Aug. 12, Oct. 1, 2, 1930.



03184000 GREENBRIER RIVER AT HILLDALE, WV

LOCATION.--Lat 37°38'24", long 80°48'19", NAD 27, Summers County, Hydrologic Unit 05050003, on left bank 100 ft downstream from State Highway 3 bridge at Hilldale, 0.1 mi upstream from Howard Creek, 0.9 mi upstream from Powley Creek, 5.0 mi southeast of Hinton, and at mile 5.5. Records include flow of Howard Creek.

DRAINAGE AREA.--1,619 mi², includes that of Howard Creek.

PERIOD OF RECORD.--June 1936 to current year.

REVISED RECORDS.--WSP 1435: 1955. WDR WV-82-1: Drainage area. WDR WV-97-1: 1937(P), 1938(M), 1939(P), 1940-42(M), 1953(M), 1955(M), 1960(M), 1962-64(M), 1967(P), 1969-70(M), 1972(P), 1974(M), 1977-78(P), 1984(M). WDR WV-05-1: 2004 (P).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,388.66 ft above NGVD 29 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 21.85 ft from data furnished by U.S. Army Corps of Engineers; discharge, 60,800 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 24,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Mar 29 | 1400 | *26,000 | *13.60 | No other peak greater than base discharge. | | | |

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 | 5,150 | 1,250 | 8,420 | 1,390 | 1,190 | 2,710 | 5,780 | 10,900 | 897 | 802 | 3,010 | 582 |
| 2 | 3,220 | 1,120 | 16,900 | 1,250 | 1,260 | 2,540 | 5,360 | 9,020 | 818 | 612 | 1,580 | 466 |
| 3 | 2,250 | 994 | 9,640 | 1,170 | 1,180 | 2,210 | 9,580 | 6,200 | 766 | 522 | 970 | 406 |
| 4 | 1,700 | 1,640 | 6,350 | 1,100 | 1,250 | 1,940 | 9,060 | 4,580 | 733 | 435 | 777 | 350 |
| 5 | 1,310 | 6,740 | 4,630 | 1,380 | 1,340 | 2,050 | 7,030 | 3,490 | 705 | 356 | 604 | 307 |
| 6 | 1,000 | 7,750 | 3,690 | 2,040 | 1,410 | 4,010 | 5,620 | 2,750 | 666 | 302 | 471 | 274 |
| 7 | 774 | 4,930 | 3,510 | 2,690 | 1,580 | 5,140 | 4,570 | 2,270 | 641 | 318 | 425 | 240 |
| 8 | 643 | 3,470 | 3,380 | 2,910 | 2,090 | 7,120 | 3,870 | 1,940 | 558 | 776 | 381 | 211 |
| 9 | 553 | 2,530 | 4,290 | 3,550 | 3,290 | 12,000 | 3,520 | 1,690 | 554 | 1,720 | 375 | 189 |
| 10 | 490 | 1,890 | 11,400 | 4,020 | 4,830 | 7,780 | 3,360 | 1,470 | 495 | 2,580 | 373 | 174 |
| 11 | 441 | 1,480 | 11,700 | 3,790 | 5,440 | 5,590 | 2,750 | 1,280 | 476 | 1,350 | 620 | 161 |
| 12 | 403 | 1,650 | 8,090 | 3,430 | 4,490 | 4,490 | 2,360 | 1,170 | 465 | 852 | 850 | 150 |
| 13 | 418 | 4,320 | 6,170 | 2,990 | 3,640 | 3,980 | 2,090 | 1,050 | 442 | 598 | 705 | 142 |
| 14 | 726 | 4,380 | 4,920 | 7,360 | 3,360 | 3,690 | 1,900 | 973 | 483 | 485 | 543 | 134 |
| 15 | 831 | 3,400 | 3,920 | 12,100 | 4,920 | 3,830 | 1,690 | 918 | 471 | 445 | 440 | 126 |
| 16 | 873 | 2,700 | 3,170 | 8,190 | 5,920 | 3,840 | 1,450 | 877 | 416 | 904 | 369 | 120 |
| 17 | 755 | 2,230 | 2,630 | 5,810 | 5,050 | 3,560 | 1,260 | 869 | 368 | 1,640 | 347 | 115 |
| 18 | 662 | 1,890 | 2,310 | 4,310 | 4,250 | 3,170 | 1,140 | 916 | 337 | 2,460 | 345 | 110 |
| 19 | 733 | 1,660 | 2,130 | 3,190 | 3,450 | 2,760 | 1,060 | 808 | 310 | 2,300 | 423 | 104 |
| 20 | 1,160 | 1,750 | 1,860 | 2,720 | 2,790 | 2,590 | 1,020 | 845 | 295 | 2,010 | 448 | 100 |
| 21 | 2,190 | 2,190 | 1,550 | 2,450 | 2,530 | 2,760 | 963 | 3,520 | 279 | 1,520 | 437 | 99 |
| 22 | 1,650 | 2,350 | 1,180 | 2,170 | 3,430 | 2,960 | 955 | 5,870 | 253 | 1,200 | 434 | 95 |
| 23 | 1,490 | 2,160 | 1,280 | 1,830 | 5,150 | 2,870 | 1,920 | 3,870 | 238 | 978 | 367 | 91 |
| 24 | 1,270 | 2,100 | 2,310 | 1,300 | 4,760 | 4,580 | 5,650 | 2,830 | 224 | 804 | 317 | 88 |
| 25 | 1,350 | 6,070 | 4,760 | 1,150 | 4,120 | 10,600 | 5,130 | 2,310 | 208 | 678 | 266 | 86 |
| 26 | 1,970 | 9,510 | 3,740 | 1,120 | 3,480 | 6,560 | 4,050 | 2,030 | 192 | 554 | 238 | 84 |
| 27 | 1,890 | 6,570 | 2,910 | 1,360 | 2,980 | 4,840 | 3,670 | 1,790 | 178 | 463 | 410 | 84 |
| 28 | 1,610 | 4,970 | 2,280 | 1,300 | 2,740 | 6,490 | 3,340 | 1,580 | 185 | 400 | 921 | 84 |
| 29 | 1,420 | 5,230 | 1,790 | 1,050 | --- | 21,800 | 2,860 | 1,330 | 253 | 1,670 | 1,160 | 86 |
| 30 | 1,310 | 4,870 | 1,630 | 1,000 | --- | 13,500 | 2,710 | 1,130 | 493 | 1,450 | 999 | 88 |
| 31 | 1,270 | --- | 1,570 | 1,050 | --- | 8,010 | --- | 1,010 | --- | 3,060 | 787 | --- |
| TOTAL | 41,512 | 103,794 | 144,110 | 91,170 | 91,920 | 169,970 | 105,718 | 81,286 | 13,399 | 34,244 | 20,392 | 5,346 |
| MEAN | 1,339 | 3,460 | 4,649 | 2,941 | 3,283 | 5,483 | 3,524 | 2,622 | 447 | 1,105 | 658 | 178 |
| MAX | 5,150 | 9,510 | 16,900 | 12,100 | 5,920 | 21,800 | 9,580 | 10,900 | 897 | 3,060 | 3,010 | 582 |
| MIN | 403 | 994 | 1,180 | 1,000 | 1,180 | 1,940 | 955 | 808 | 178 | 302 | 238 | 84 |
| CFSM | 0.83 | 2.14 | 2.87 | 1.82 | 2.03 | 3.39 | 2.18 | 1.62 | 0.28 | 0.68 | 0.41 | 0.11 |
| IN. | 0.95 | 2.38 | 3.31 | 2.09 | 2.11 | 3.91 | 2.43 | 1.87 | 0.31 | 0.79 | 0.47 | 0.12 |

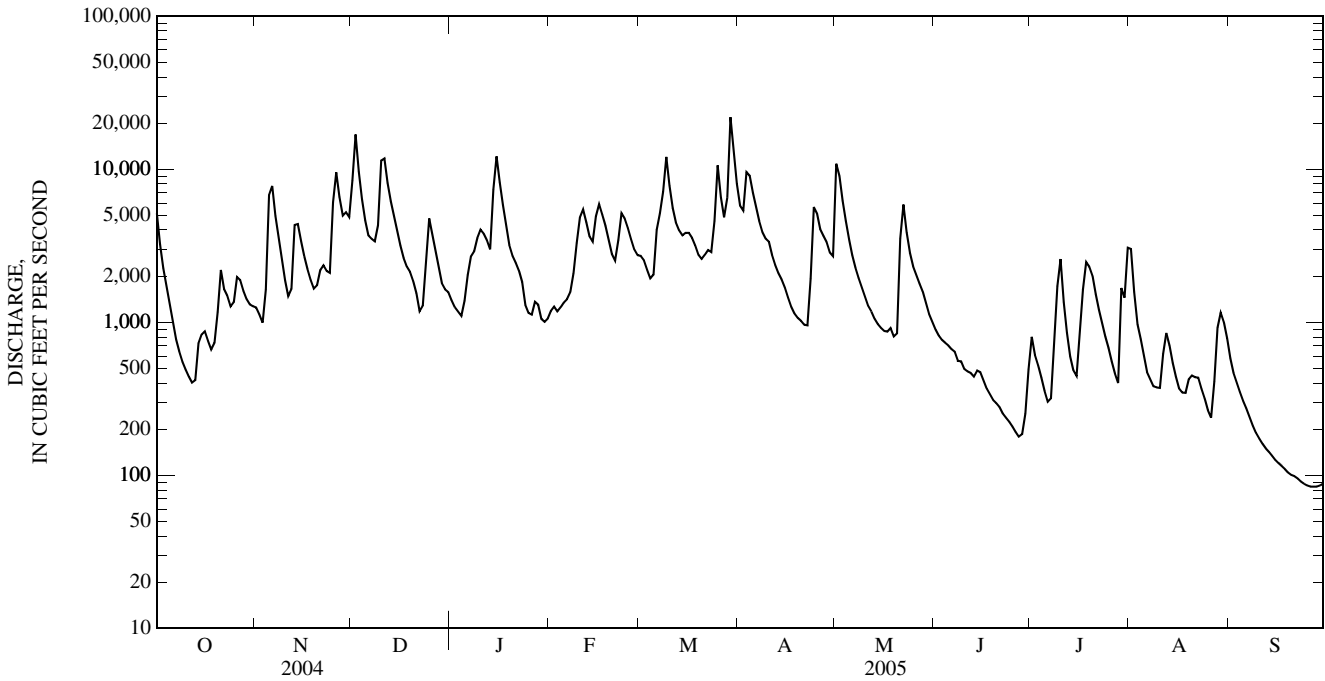
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 810 | 1,500 | 2,684 | 3,370 | 4,110 | 5,154 | 3,650 | 2,896 | 1,482 | 786 | 748 | 531 |
| MAX | 5,112 | 7,111 | 7,866 | 9,208 | 9,096 | 12,910 | 9,535 | 6,673 | 6,592 | 3,372 | 3,800 | 3,173 |
| (WY) | (1977) | (2004) | (1974) | (1996) | (1994) | (1963) | (1987) | (1989) | (2003) | (1972) | (1942) | (2003) |
| MIN | 46.4 | 76.8 | 260 | 302 | 731 | 1,436 | 901 | 586 | 219 | 84.4 | 72.1 | 59.6 |
| (WY) | (1954) | (1954) | (1961) | (1981) | (2002) | (1988) | (1986) | (1941) | (1999) | (1999) | (1987) | (1946) |

03184000 GREENBRIER RIVER AT HILLDALE, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1936 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 1,115,867 | | 902,861 | | | |
| ANNUAL MEAN | 3,049 | | 2,474 | | 2,304 | |
| HIGHEST ANNUAL MEAN | | | | | 4,360 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 1,189 | 1941 |
| HIGHEST DAILY MEAN | 31,100 | Apr 14 | 21,800 | Mar 29 | 79,400 | Jan 20, 1996 |
| LOWEST DAILY MEAN | 107 | Sep 7 | 84 | (a) | 39 | Sep 19, 1946 |
| ANNUAL SEVEN-DAY MINIMUM | 125 | Sep 1 | 86 | Sep 24 | 44 | Oct 17, 1953 |
| MAXIMUM PEAK FLOW | | | 26,000 | Mar 29 | 93,000 | Jan 20, 1996 |
| MAXIMUM PEAK STAGE | | | 13.60 | Mar 29 | 26.88 | Jan 20, 1996 |
| INSTANTANEOUS LOW FLOW | | | 84 | (b) | 39 | (c) |
| ANNUAL RUNOFF (CFSM) | 1.88 | | 1.53 | | 1.42 | |
| ANNUAL RUNOFF (INCHES) | 25.64 | | 20.75 | | 19.33 | |
| 10 PERCENT EXCEEDS | 6,880 | | 5,630 | | 5,590 | |
| 50 PERCENT EXCEEDS | 1,950 | | 1,580 | | 1,080 | |
| 90 PERCENT EXCEEDS | 294 | | 289 | | 152 | |

a Sept. 26-28.
 b Sept. 25, 26, 27, 28, 29.
 c Sept. 18-20, 1946, Sept. 16, 1964.



REVISIONS.--The peak discharges and associated stages for the 2004 water year have been revised, as shown in the following table.

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|---------------|------|--------------------------------|------------------|
| Nov 13, 2003 | 1900 | 39,000 | 17.15 |
| Nov 20, 2003 | 1400 | *48,800 | *19.51 |
| Feb 07, 2004 | 1700 | 25,100 | 13.34 |
| Apr 14, 2004 | 1500 | 36,100 | 16.41 |
| Sept 29, 2004 | 0400 | 29,400 | 14.62 |

03185000 PINEY CREEK AT RALEIGH, WV

LOCATION (REVISED).--Lat 37°45'38", long 81°09'45", NAD 27, Raleigh County, Hydrologic Unit 05050004, on left bank at Raleigh, 0.6 mi downstream from Whitestick Creek, 0.4 mi upstream from Beaver Creek, 1.5 mi southeast of Beckley, and at mile 11.9.

DRAINAGE AREA.--52.7 mi².

PERIOD OF RECORD.--August 1951 to September 1982, December 2002 to current year.

REVISED RECORDS.--WSP 1435: 1955(M). WDR WV-97-1: Drainage area, 1961(m), 1963(m), 1967(m), 1970(m) 1972(m), 1977(m), 1980(m). WDR WV-04-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is unknown. Prior to Dec. 4, 2002, gage located 500 ft upstream at a datum of 2,087.24 ft above NGVD 29.

REMARKS.--Records fair except those for period of estimated daily discharges (no gage-height record), which is poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|-------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Dec 1 | 1100 | *742 | *4.05 | No other peak greater than base discharge. | | | |

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 | 54 | 63 | 541 | 45 | 81 | 87 | 157 | 274 | 22 | 15 | 23 | 23 |
| 2 | 48 | 57 | 351 | 41 | 81 | 78 | 253 | 203 | 26 | 19 | 19 | 17 |
| 3 | 52 | 52 | 177 | 38 | 98 | 69 | 322 | 131 | 27 | 16 | 16 | 15 |
| 4 | 41 | 151 | 112 | 43 | 102 | 65 | 373 | 97 | 24 | 12 | 14 | 14 |
| 5 | 33 | 175 | 86 | 111 | 100 | 126 | 261 | 78 | 22 | 10 | 13 | 12 |
| 6 | 32 | 139 | 83 | 123 | 96 | 206 | 174 | 69 | e19 | 20 | 19 | 11 |
| 7 | 28 | 110 | 99 | 100 | 96 | 248 | 130 | 63 | e17 | 117 | 14 | 9.9 |
| 8 | 26 | 89 | 100 | 115 | 106 | 456 | 110 | 58 | e16 | 230 | 14 | 9.5 |
| 9 | 24 | 71 | 156 | 112 | 123 | 410 | 101 | 53 | e19 | 44 | 16 | 8.8 |
| 10 | 21 | 62 | 408 | 98 | 183 | 237 | 84 | 49 | e24 | 24 | 15 | 8.4 |
| 11 | 18 | 55 | 343 | 80 | 147 | 183 | 76 | 46 | e20 | 18 | 14 | 8.0 |
| 12 | 18 | 95 | 226 | 74 | 123 | 165 | 71 | 43 | e18 | 15 | 12 | 7.8 |
| 13 | 28 | 107 | 162 | 66 | 109 | 166 | 70 | 41 | e17 | 13 | 10 | 7.6 |
| 14 | 64 | 96 | 122 | 182 | 149 | 154 | 62 | 43 | 16 | 12 | 8.9 | 7.4 |
| 15 | 39 | 85 | 98 | 184 | 169 | 142 | 55 | 61 | 31 | 20 | 8.4 | 8.3 |
| 16 | 31 | 76 | 82 | 126 | 155 | 134 | 50 | 45 | 15 | 21 | 49 | 8.6 |
| 17 | 26 | 69 | 75 | 94 | 136 | 123 | 46 | 37 | 15 | 29 | 30 | 8.5 |
| 18 | 23 | 74 | 69 | 71 | 114 | 107 | 43 | 36 | 17 | 61 | 16 | 8.3 |
| 19 | 157 | 79 | 64 | 66 | 97 | 96 | 43 | 39 | 15 | 48 | 302 | 8.1 |
| 20 | 165 | 81 | 59 | 58 | 86 | 93 | 42 | 86 | 20 | 35 | 109 | 7.6 |
| 21 | 187 | 82 | 59 | 55 | 130 | 92 | 41 | 74 | 14 | 24 | 64 | 6.5 |
| 22 | 125 | 80 | 49 | 52 | 188 | 87 | 60 | 54 | 12 | 45 | 41 | 5.7 |
| 23 | 84 | 79 | 64 | 52 | 150 | 118 | 90 | 47 | 12 | 28 | 27 | 5.4 |
| 24 | 92 | 113 | 64 | 53 | 131 | 164 | 98 | 44 | 12 | 21 | 20 | 5.2 |
| 25 | 84 | 200 | 57 | 59 | 109 | 147 | 94 | 43 | 10 | 19 | 17 | 5.2 |
| 26 | 73 | 167 | 54 | 50 | 92 | 127 | 94 | 40 | 9.3 | 15 | 20 | 5.0 |
| 27 | 82 | 137 | 49 | 48 | 82 | 104 | 96 | 36 | 9.1 | 13 | 50 | 5.1 |
| 28 | 80 | 119 | 46 | 50 | 85 | 181 | 93 | 29 | 8.9 | 32 | 53 | 5.5 |
| 29 | 77 | 96 | 43 | 59 | --- | 354 | 88 | 24 | 8.6 | 66 | 35 | 7.4 |
| 30 | 78 | 95 | 42 | 89 | --- | 296 | 195 | 24 | 12 | 35 | 25 | 6.2 |
| 31 | 71 | --- | 41 | 81 | --- | 213 | --- | 24 | --- | 40 | 25 | --- |
| TOTAL | 1,961 | 2,954 | 3,981 | 2,475 | 3,318 | 5,228 | 3,472 | 1,991 | 507.9 | 1,117 | 1,099.3 | 266.0 |
| MEAN | 63.3 | 98.5 | 128 | 79.8 | 118 | 169 | 116 | 64.2 | 16.9 | 36.0 | 35.5 | 8.87 |
| MAX | 187 | 200 | 541 | 184 | 188 | 456 | 373 | 274 | 31 | 230 | 302 | 23 |
| MIN | 18 | 52 | 41 | 38 | 81 | 65 | 41 | 24 | 8.6 | 10 | 8.4 | 5.0 |
| CFSM | 1.20 | 1.87 | 2.44 | 1.51 | 2.25 | 3.20 | 2.20 | 1.22 | 0.32 | 0.68 | 0.67 | 0.17 |
| IN. | 1.38 | 2.09 | 2.81 | 1.75 | 2.34 | 3.69 | 2.45 | 1.41 | 0.36 | 0.79 | 0.78 | 0.19 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

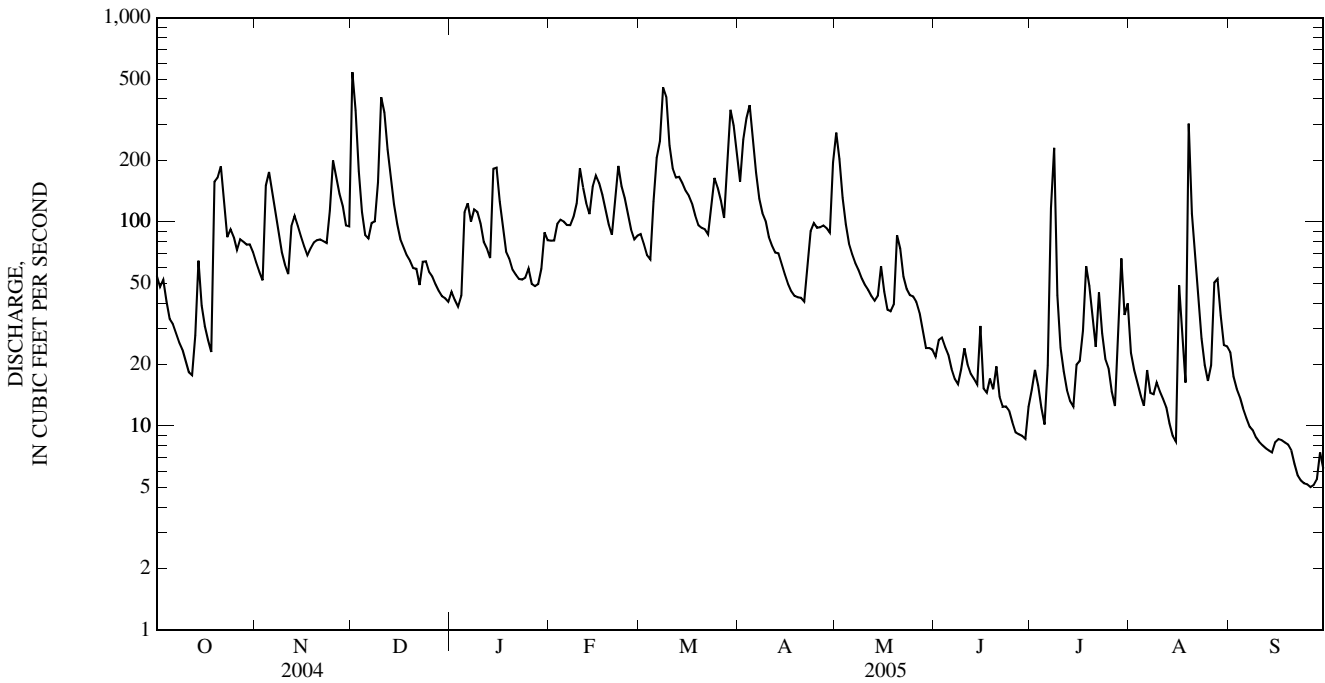
| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 20.2 | 40.9 | 74.4 | 99.0 | 122 | 140 | 108 | 84.1 | 47.9 | 29.7 | 25.8 | 18.3 |
| MAX | 108 | 246 | 156 | 231 | 342 | 352 | 271 | 236 | 211 | 95.4 | 85.8 | 103 |
| (WY) | (1977) | (2004) | (1958) | (1957) | (2003) | (1963) | (2003) | (2003) | (2003) | (1962) | (1980) | (2003) |
| MIN | 1.20 | 1.12 | 0.87 | 3.48 | 31.7 | 47.6 | 26.6 | 15.7 | 5.94 | 2.82 | 2.29 | 1.39 |
| (WY) | (1964) | (1966) | (1966) | (1966) | (1978) | (1969) | (1963) | (1964) | (1964) | (1966) | (1964) | (1965) |

03185000 PINEY CREEK AT RALEIGH, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1951 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 43,770 | | 28,370.2 | | 65.1 | |
| ANNUAL MEAN | 120 | | 77.7 | | 130 | |
| HIGHEST ANNUAL MEAN | | | | | 30.1 | |
| LOWEST ANNUAL MEAN | | | | | 2,210 | |
| HIGHEST DAILY MEAN | 1,960 | May 31 | 541 | Dec 1 | 30.1 | 1966 |
| LOWEST DAILY MEAN | 12 | Aug 27 | 5.0 | Sep 26 | 0.20 | (a) |
| ANNUAL SEVEN-DAY MINIMUM | 19 | Sep 1 | 5.3 | Sep 22 | 0.20 | Sep 5, 1964 |
| MAXIMUM PEAK FLOW | | | 742 | Dec 1 | 2,870 | Mar 12, 1963 |
| MAXIMUM PEAK STAGE | | | 4.05 | Dec 1 | 9.12 | May 31, 2004 |
| INSTANTANEOUS LOW FLOW | | | 4.3 | Sep 26 | 0.20 | (a) |
| ANNUAL RUNOFF (CFSM) | 2.27 | | 1.47 | | 1.23 | |
| ANNUAL RUNOFF (INCHES) | 30.90 | | 20.03 | | 16.78 | |
| 10 PERCENT EXCEEDS | 222 | | 165 | | 147 | |
| 50 PERCENT EXCEEDS | 76 | | 58 | | 33 | |
| 90 PERCENT EXCEEDS | 30 | | 12 | | 4.2 | |

a Sept. 5-18, 21-23, 1964.

e Estimated



03185400 NEW RIVER AT THURMOND, WV

LOCATION.--Lat 37°57'18", long 81°04'36", NAD 27, Fayette County, Hydrologic Unit 05050004, on right bank at Thurmond, at Chessie System pump house, 0.1 mi upstream from Dunloup Creek, 0.3 mi upstream from railroad/highway bridge, at New River mile 25.8 and Kanawha River mile 122.4.

DRAINAGE AREA.--6,687 mi², excluding that of Dunloup Creek.

PERIOD OF RECORD.--February 1981 to current year.

REVISED RECORDS.--WDR WV-97-1: 1981-92(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,030.71 ft above NGVD 29.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Claytor Lake and Bluestone Lake.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 60,700 ft³/s, Mar. 29, gage height, 16.75 ft.

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 | 36,700 | 5,700 | 24,200 | 7,560 | 9,070 | 10,300 | 29,000 | 19,800 | 4,780 | 4,520 | 9,300 | 4,110 |
| 2 | 22,100 | 8,380 | 37,700 | 7,030 | 10,700 | 12,100 | 29,000 | 22,600 | 4,680 | 4,150 | 7,090 | 2,490 |
| 3 | 13,800 | 8,680 | 27,800 | 6,660 | 10,500 | 10,500 | 36,000 | 17,000 | 4,980 | 4,030 | 5,750 | 2,600 |
| 4 | 10,800 | 10,600 | 19,100 | 6,370 | 9,680 | 9,250 | 33,900 | 13,700 | 6,410 | 4,120 | 3,820 | 2,990 |
| 5 | 9,180 | 17,700 | 15,000 | 9,060 | 10,500 | 10,100 | 27,600 | 11,400 | 6,630 | 3,940 | 3,770 | 2,700 |
| 6 | 8,080 | 21,200 | 11,400 | 9,410 | 8,670 | 12,800 | 23,500 | 10,100 | 6,000 | 3,590 | 3,470 | 2,420 |
| 7 | 5,710 | 15,000 | 16,100 | 5,130 | 8,240 | 19,400 | 20,600 | 9,120 | 5,490 | 3,900 | 2,890 | 2,130 |
| 8 | 7,100 | 11,300 | 20,400 | 4,790 | 12,100 | 24,600 | 18,300 | 8,200 | 5,310 | 11,000 | 3,290 | 2,040 |
| 9 | 5,650 | 9,510 | 17,700 | 5,320 | 13,000 | 30,300 | 16,300 | 7,880 | 5,890 | 9,510 | 3,730 | 2,010 |
| 10 | 5,720 | 8,130 | 30,300 | 8,810 | 15,600 | 26,500 | 13,500 | 7,530 | 6,380 | 8,560 | 3,890 | 2,110 |
| 11 | 5,180 | 6,910 | 35,400 | 17,500 | 17,000 | 21,400 | 12,200 | 7,000 | 7,260 | 6,540 | 4,200 | 1,860 |
| 12 | 4,700 | 7,440 | 27,600 | 17,000 | 16,800 | 18,200 | 10,300 | 6,870 | 7,530 | 4,820 | 5,180 | 1,790 |
| 13 | 5,200 | 12,300 | 22,400 | 15,100 | 13,100 | 18,000 | 11,700 | 6,380 | 5,650 | 4,120 | 5,080 | 1,670 |
| 14 | 8,700 | 16,400 | 17,600 | 18,900 | 12,100 | 16,400 | 11,400 | 6,440 | 5,660 | 3,660 | 4,800 | 1,760 |
| 15 | 13,800 | 14,800 | 14,500 | 38,400 | 15,900 | 13,200 | 12,400 | 6,750 | 5,840 | 4,290 | 3,450 | 1,600 |
| 16 | 8,700 | 11,400 | 13,100 | 37,300 | 17,900 | 14,900 | 13,000 | 6,490 | 5,920 | 4,920 | 2,970 | 1,570 |
| 17 | 7,130 | 9,620 | 12,100 | 27,400 | 16,400 | 14,400 | 11,300 | 6,880 | 5,240 | 8,350 | 3,250 | 1,570 |
| 18 | 6,910 | 9,290 | 10,700 | 19,500 | 14,500 | 15,800 | 10,100 | 6,970 | 4,650 | 9,430 | 2,800 | 1,560 |
| 19 | 4,810 | 8,710 | 8,690 | 14,000 | 13,700 | 13,200 | 9,700 | 6,490 | 4,510 | 9,530 | 4,050 | 1,550 |
| 20 | 9,360 | 8,580 | 6,760 | 11,900 | 11,400 | 11,600 | 9,470 | 7,240 | 3,740 | 7,140 | 5,700 | 1,540 |
| 21 | 10,200 | 8,520 | 8,080 | 11,900 | 8,020 | 10,900 | 8,480 | 9,530 | 3,680 | 6,310 | 5,130 | 1,530 |
| 22 | 8,060 | 7,980 | 9,030 | 11,800 | 13,000 | 12,800 | 8,480 | 13,300 | 3,690 | 5,790 | 4,000 | 1,520 |
| 23 | 9,510 | 6,570 | 7,040 | 9,030 | 17,600 | 12,800 | 9,650 | 10,700 | 4,070 | 5,140 | 4,170 | 1,520 |
| 24 | 6,870 | 6,570 | 9,670 | 6,640 | 15,000 | 14,800 | 14,800 | 8,330 | 4,220 | 4,780 | 3,550 | 1,520 |
| 25 | 5,770 | 14,300 | 15,700 | 6,910 | 13,600 | 24,800 | 15,300 | 7,680 | 3,620 | 3,970 | 3,280 | 1,510 |
| 26 | 7,710 | 33,500 | 15,800 | 8,350 | 11,900 | 21,600 | 12,800 | 7,500 | 3,310 | 3,740 | 3,050 | 1,370 |
| 27 | 9,150 | 26,100 | 10,200 | 6,930 | 10,400 | 17,100 | 11,200 | 6,700 | 3,260 | 3,740 | 4,180 | 1,320 |
| 28 | 8,260 | 18,900 | 8,150 | 8,500 | 9,550 | 17,600 | 9,520 | 6,400 | 3,370 | 4,260 | 5,120 | 1,460 |
| 29 | 8,200 | 15,800 | 10,400 | 9,730 | --- | 47,700 | 9,780 | 5,590 | 4,060 | 5,370 | 5,350 | 1,560 |
| 30 | 8,210 | 15,900 | 7,830 | 8,210 | --- | 50,500 | 11,600 | 5,570 | 4,070 | 5,040 | 5,250 | 1,960 |
| 31 | 7,850 | --- | 7,770 | 6,740 | --- | 39,100 | --- | 5,050 | --- | 6,540 | 5,150 | --- |
| TOTAL | 289,120 | 375,790 | 498,220 | 381,880 | 355,930 | 592,650 | 470,880 | 281,190 | 149,900 | 174,800 | 136,710 | 57,340 |
| MEAN | 9,326 | 12,530 | 16,070 | 12,320 | 12,710 | 19,120 | 15,700 | 9,071 | 4,997 | 5,639 | 4,410 | 1,911 |
| MAX | 36,700 | 33,500 | 37,700 | 38,400 | 17,900 | 50,500 | 36,000 | 22,600 | 7,530 | 11,000 | 9,300 | 4,110 |
| MIN | 4,700 | 5,700 | 6,760 | 4,790 | 8,020 | 9,250 | 8,480 | 5,050 | 3,260 | 3,590 | 2,800 | 1,320 |

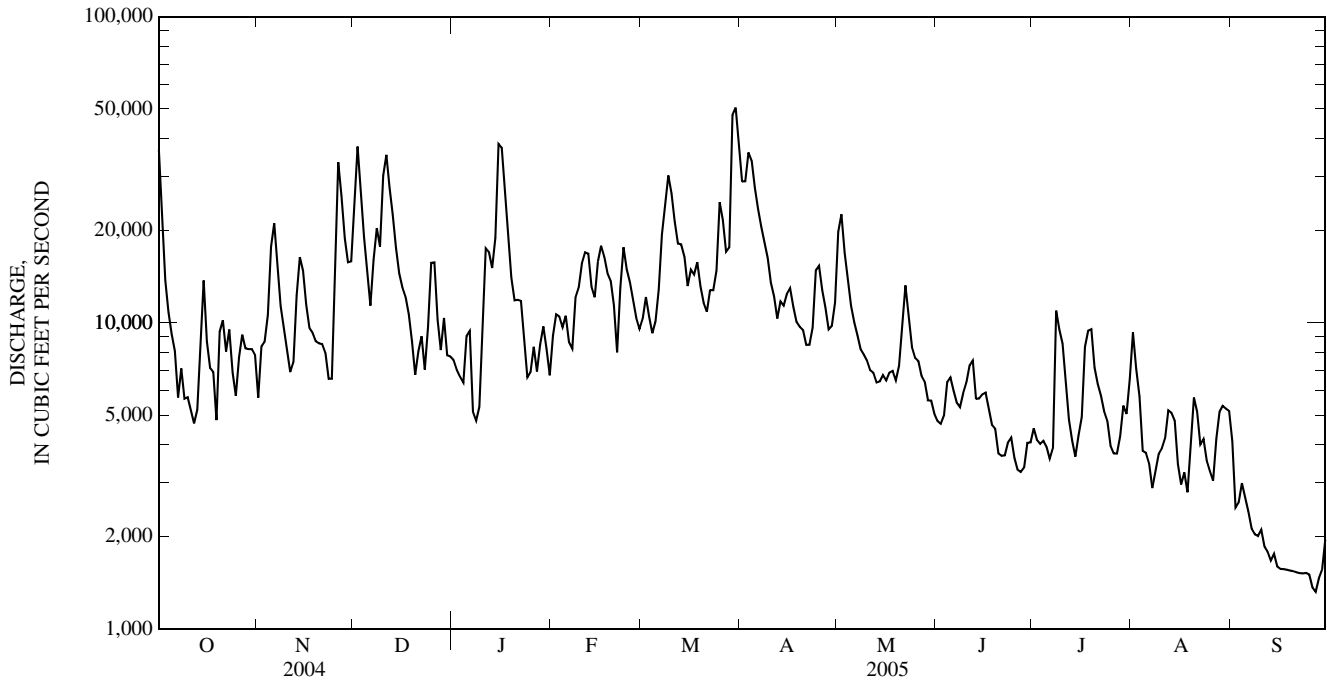
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 3,978 | 6,666 | 8,920 | 11,240 | 14,870 | 16,160 | 14,010 | 11,690 | 7,534 | 4,600 | 4,042 | 3,806 |
| MAX | 16,510 | 21,590 | 18,020 | 27,470 | 28,590 | 34,950 | 40,500 | 19,650 | 20,840 | 11,990 | 10,160 | 15,000 |
| (WY) | (1990) | (2004) | (1997) | (1996) | (1994) | (1993) | (1987) | (1989) | (2003) | (2003) | (2003) | (2004) |
| MIN | 1,388 | 1,499 | 2,366 | 3,517 | 3,631 | 4,154 | 3,958 | 5,033 | 2,010 | 1,532 | 1,393 | 1,626 |
| (WY) | (1992) | (2002) | (2002) | (2000) | (2002) | (1988) | (1986) | (2000) | (1988) | (1988) | (1988) | (1998) |

03185400 NEW RIVER AT THURMOND, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1981 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 4,361,260 | | 3,764,410 | | | |
| ANNUAL MEAN | 11,920 | | 10,310 | | 8,967 | |
| HIGHEST ANNUAL MEAN | | | | | 14,600 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 4,336 | 1988 |
| HIGHEST DAILY MEAN | 65,300 | Apr 14 | 50,500 | Mar 30 | 92,500 | Jan 20, 1996 |
| LOWEST DAILY MEAN | 1,960 | Aug 29 | 1,320 | Sep 27 | 808 | Jul 11, 1988 |
| ANNUAL SEVEN-DAY MINIMUM | 2,270 | Sep 1 | 1,460 | Sep 22 | 852 | Jul 6, 1988 |
| MAXIMUM PEAK FLOW | | | 60,700 | Mar 29 | (a)100,000 | Jan 20, 1996 |
| MAXIMUM PEAK STAGE | | | 16.75 | Mar 29 | 20.35 | Jan 20, 1996 |
| INSTANTANEOUS LOW FLOW | | | 1,310 | Sep 27 | 589 | Oct 20, 1994 |
| 10 PERCENT EXCEEDS | 22,800 | | 19,200 | | 19,300 | |
| 50 PERCENT EXCEEDS | 9,180 | | 8,350 | | 5,610 | |
| 90 PERCENT EXCEEDS | 3,710 | | 3,290 | | 1,820 | |

a From rating curve extended above 59,000 ft³/s.



03186500 WILLIAMS RIVER AT DYER, WV

LOCATION.--Lat 38°22'44", long 80°29'03", NAD 27, Webster County, Hydrologic Unit 05050005, on left bank at Dyer, 0.2 mi downstream from Craig Run, 7.0 mi southwest of Webster Springs, and at mile 2.3.

DRAINAGE AREA.--128 mi².

PERIOD OF RECORD.--September 1929 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1930.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 2,193.46 ft above NGVD 12. Prior to June 11, 1930, nonrecording gage at same site and datum.

REMARKS.--Records good except those for the period Oct. 1 to June 17 (lagging intakes) which are fair, and for period of estimated daily discharges (ice effect), which are poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Mar 23 | 2330 | 6,120 | 8.65 | Mar 28 | 1300 | *8,050 | *10.01 |

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 | 418 | 219 | 1,740 | 249 | e135 | 254 | 715 | 1,790 | 117 | 32 | 201 | 156 |
| 2 | 305 | 193 | 1,110 | 280 | e120 | 200 | 1,470 | 987 | 101 | 24 | 172 | 108 |
| 3 | 248 | 207 | 721 | 265 | 116 | 193 | 1,120 | 667 | 110 | 20 | 112 | 78 |
| 4 | 191 | 884 | 529 | 407 | 112 | 182 | 901 | 484 | 104 | 15 | 81 | 62 |
| 5 | 149 | 1,120 | 396 | 726 | 105 | 203 | 924 | 363 | 90 | 13 | 79 | 50 |
| 6 | 122 | 696 | 337 | 698 | 121 | 204 | 773 | 297 | 85 | 13 | 89 | 42 |
| 7 | 103 | 507 | 424 | 683 | 164 | 258 | 608 | 256 | 84 | 23 | 232 | 35 |
| 8 | 87 | 375 | 518 | 714 | 310 | 1,130 | 614 | 236 | 82 | 866 | 102 | 29 |
| 9 | 78 | 293 | 562 | 686 | 681 | 747 | 489 | 196 | 79 | 242 | 81 | 25 |
| 10 | 75 | 242 | 954 | 537 | 1,460 | 527 | 386 | 174 | 76 | 123 | 81 | 22 |
| 11 | 70 | 206 | 1,190 | 430 | 794 | 420 | 310 | 217 | 102 | 78 | 66 | 19 |
| 12 | 65 | 347 | 962 | 351 | 564 | 344 | 253 | 165 | 74 | 58 | 49 | 17 |
| 13 | 64 | 520 | 706 | 297 | 440 | 284 | 224 | 144 | 61 | 61 | 39 | 14 |
| 14 | 86 | 421 | 548 | 1,200 | 679 | 243 | 188 | 136 | 53 | 100 | 33 | 13 |
| 15 | 95 | 348 | 436 | 850 | 1,130 | 230 | 158 | 314 | 45 | 168 | 31 | 12 |
| 16 | 123 | 290 | 349 | 601 | 921 | 231 | 134 | 252 | 47 | 168 | 93 | 11 |
| 17 | 190 | 246 | 322 | 459 | 749 | 219 | 119 | 203 | 39 | 330 | 130 | 11 |
| 18 | 148 | 251 | 277 | 335 | 500 | 224 | 110 | 178 | 34 | 219 | 82 | 11 |
| 19 | 177 | 348 | 252 | 298 | 366 | 291 | 102 | 158 | 30 | 218 | 69 | 11 |
| 20 | 370 | 576 | 192 | 274 | 304 | 416 | 94 | 1,090 | 27 | 181 | 70 | 11 |
| 21 | 386 | 506 | 208 | 233 | 593 | 449 | 87 | 1,040 | 24 | 178 | 59 | 10 |
| 22 | 306 | 429 | 218 | 198 | 1,420 | 457 | 99 | 646 | 23 | 338 | 47 | 9.3 |
| 23 | 252 | 359 | 1,830 | e180 | 803 | 1,580 | 291 | 491 | 23 | 182 | 37 | 8.2 |
| 24 | 520 | 384 | 1,230 | e160 | 596 | 3,110 | 347 | 390 | 21 | 118 | 31 | 8.0 |
| 25 | 584 | 862 | 708 | e210 | 463 | 1,180 | 358 | 381 | 18 | 89 | 26 | 7.5 |
| 26 | 397 | 657 | 518 | e180 | 357 | 927 | 616 | 323 | 16 | 80 | 24 | 8.2 |
| 27 | 307 | 523 | 384 | e155 | 294 | 1,000 | 731 | 278 | 14 | 66 | 130 | 9.6 |
| 28 | 275 | 861 | 302 | e160 | 277 | 3,380 | 556 | 229 | 16 | 56 | 302 | 15 |
| 29 | 257 | 645 | 275 | e180 | --- | 2,420 | 444 | 194 | 24 | 58 | 140 | 16 |
| 30 | 309 | 499 | 232 | e190 | --- | 1,270 | 2,020 | 163 | 38 | 59 | 96 | 13 |
| 31 | 260 | --- | 210 | e150 | --- | 930 | --- | 139 | --- | 447 | 87 | --- |
| TOTAL | 7,017 | 14,014 | 18,640 | 12,336 | 14,574 | 23,503 | 15,241 | 12,581 | 1,657 | 4,623 | 2,871 | 841.8 |
| MEAN | 226 | 467 | 601 | 398 | 520 | 758 | 508 | 406 | 55.2 | 149 | 92.6 | 28.1 |
| MAX | 584 | 1,120 | 1,830 | 1,200 | 1,460 | 3,380 | 2,020 | 1,790 | 117 | 866 | 302 | 156 |
| MIN | 64 | 193 | 192 | 150 | 105 | 182 | 87 | 136 | 14 | 13 | 24 | 7.5 |
| CFSM | 1.77 | 3.65 | 4.70 | 3.11 | 4.07 | 5.92 | 3.97 | 3.17 | 0.43 | 1.17 | 0.72 | 0.22 |
| IN. | 2.04 | 4.07 | 5.42 | 3.59 | 4.24 | 6.83 | 4.43 | 3.66 | 0.48 | 1.34 | 0.83 | 0.24 |

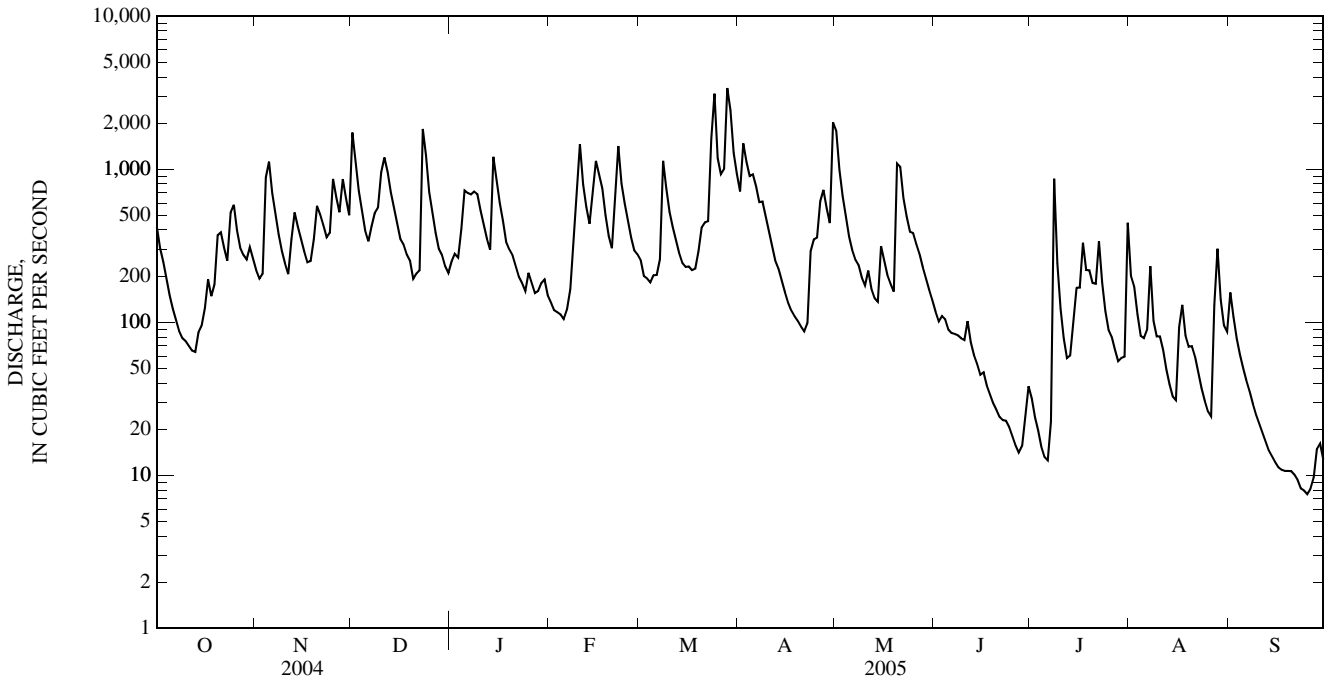
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 165 | 307 | 415 | 454 | 515 | 660 | 494 | 370 | 211 | 187 | 165 | 102 |
| MAX | 852 | 1,085 | 934 | 985 | 1,005 | 1,518 | 1,421 | 845 | 769 | 803 | 710 | 580 |
| (WY) | (1930) | (1986) | (1979) | (1996) | (1939) | (1963) | (1958) | (1996) | (1940) | (1954) | (1989) | (2003) |
| MIN | 1.07 | 8.87 | 94.9 | 75.7 | 118 | 326 | 160 | 66.1 | 19.5 | 5.85 | 6.97 | 2.34 |
| (WY) | (1954) | (1954) | (1940) | (1940) | (1978) | (1976) | (1995) | (1964) | (1965) | (1930) | (1944) | (1953) |

03186500 WILLIAMS RIVER AT DYER, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1929 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 150,373.8 | | 127,898.8 | | | |
| ANNUAL MEAN | 411 | | 350 | | 336 | |
| HIGHEST ANNUAL MEAN | | | | | 483 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 187 | 1941 |
| HIGHEST DAILY MEAN | 3,510 | Sep 28 | 3,380 | Mar 28 | 10,000 | Jul 4, 1932 |
| LOWEST DAILY MEAN | 6.4 | Sep 5 | 7.5 | Sep 25 | 0.50 | (a) |
| ANNUAL SEVEN-DAY MINIMUM | 10 | Sep 1 | 8.7 | Sep 21 | 0.54 | Oct 11, 1953 |
| MAXIMUM PEAK FLOW | | | 8,050 | Mar 28 | (b)22,000 | Jul 4, 1932 |
| MAXIMUM PEAK STAGE | | | 10.01 | Mar 28 | (c)18.45 | Jul 4, 1932 |
| INSTANTANEOUS LOW FLOW | | | 7.5 | (d) | 0.49 | (f) |
| ANNUAL RUNOFF (CFSM) | 3.21 | | 2.74 | | 2.63 | |
| ANNUAL RUNOFF (INCHES) | 43.70 | | 37.17 | | 35.71 | |
| 10 PERCENT EXCEEDS | 984 | | 854 | | 768 | |
| 50 PERCENT EXCEEDS | 250 | | 219 | | 183 | |
| 90 PERCENT EXCEEDS | 21 | | 24 | | 20 | |

- a Oct. 13-16, 21, 1953.
- b From rating curve extended above 7,000 ft³/s on basis of slope-area measurements at gage heights 12.33 ft and 18.45 ft.
- c From floodmarks.
- d Sept. 25, 26.
- e Estimated
- f Sept. 12, 13, 1995.



03187500 CRANBERRY RIVER NEAR RICHWOOD, WV

LOCATION.--Lat 38°17'43", long 80°31'36", NAD 27, Nicholas County, Hydrologic Unit 05050005, Monongahela National Forest, on left bank 30 ft downstream from U.S. Forest Service highway bridge, 0.6 mi upstream from Barrenshe Run, 5.0 mi north of Richwood, and at mile 5.6.

DRAINAGE AREA.--80.4 mi².

PERIOD OF RECORD.--October 1944 to December 1951, June 1964 to September 1982 (gage-height data for water years 1972-79 provided by U.S. Forest Service, and discharge computations made from average rating without measurement verification), March 1984 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area. WDR WV-97-1: 1946(M), 1948(M), 1954(M), 1967(P), 1970(M), 1972-79(M), 1980-81(P), 1986(P), 1989(P), 1991-92(M), 1994(P).

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is approximately 2,100 ft above NGVD 29, from topographic map.

REMARKS.--Records good except those for periods of estimated daily discharges (ice effect), which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 19, 1954, reached a stage of 12.22 ft; discharge, 12,200 ft³/s, from floodmarks, present site and datum.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar 23 | 2400 | 3,230 | 7.02 | Mar 28 | 1300 | *5,360 | (a)*8.37 |

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 | 303 | 196 | 1,030 | 200 | 98 | 183 | 517 | 1,260 | 92 | 19 | 215 | 168 |
| 2 | 232 | 172 | 713 | 236 | 92 | e130 | 981 | 690 | 80 | 15 | 145 | 117 |
| 3 | 205 | 175 | 451 | 229 | 91 | e125 | 805 | 461 | 90 | 13 | 165 | 86 |
| 4 | 165 | 531 | 330 | 345 | 87 | e110 | 625 | 337 | 81 | 9.8 | 98 | 66 |
| 5 | 135 | 748 | 259 | 666 | 80 | e135 | 635 | 263 | 67 | 7.6 | 66 | 52 |
| 6 | 112 | 454 | 229 | 591 | 93 | e130 | 541 | 219 | 55 | 6.5 | 49 | 41 |
| 7 | 96 | 329 | 330 | 541 | 119 | 155 | 418 | 189 | 49 | 9.8 | 77 | 32 |
| 8 | 81 | 255 | 365 | 505 | 207 | 583 | 368 | 171 | 49 | 559 | 52 | 26 |
| 9 | 69 | 207 | 377 | 474 | 416 | 452 | 306 | 142 | 42 | 202 | 45 | 21 |
| 10 | 63 | 174 | 596 | 370 | 966 | 329 | 248 | 123 | 42 | 101 | 72 | 17 |
| 11 | 55 | 151 | 754 | 301 | 547 | 277 | 208 | 269 | 68 | 63 | 52 | 15 |
| 12 | 49 | 241 | 575 | 256 | 386 | 236 | 181 | 163 | 44 | 45 | 34 | 13 |
| 13 | 48 | 322 | 427 | 221 | 300 | 212 | 177 | 135 | 32 | 47 | 25 | 11 |
| 14 | 84 | 253 | 332 | 867 | 469 | 184 | 154 | 123 | 28 | 56 | 19 | 9.4 |
| 15 | 89 | 218 | 269 | 603 | 836 | 166 | 130 | 264 | 63 | 118 | 18 | 8.2 |
| 16 | 118 | 192 | 231 | 424 | 686 | 165 | 113 | 219 | 56 | 96 | 118 | 7.4 |
| 17 | 158 | 172 | 211 | 325 | 594 | 155 | 100 | 179 | 35 | 137 | 147 | 7.6 |
| 18 | 126 | 182 | 186 | 250 | 400 | 157 | 92 | 154 | 27 | 110 | 77 | 7.7 |
| 19 | 180 | 251 | 174 | 220 | 304 | 192 | 85 | 135 | 21 | 122 | e59 | 7.7 |
| 20 | 377 | 382 | 142 | 205 | 253 | 255 | 78 | 680 | 19 | 177 | e60 | 6.6 |
| 21 | 364 | 326 | 145 | 176 | 427 | 263 | 73 | 711 | 17 | 150 | 61 | 6.0 |
| 22 | 264 | 275 | 159 | 154 | 986 | 269 | 89 | 444 | 17 | 302 | 44 | 5.4 |
| 23 | 213 | 236 | 1,100 | 135 | 569 | 943 | 255 | 328 | 16 | 171 | 33 | 4.9 |
| 24 | 302 | 245 | 913 | 120 | 419 | 1,950 | 287 | 300 | 15 | 110 | 26 | 4.6 |
| 25 | 364 | 559 | 500 | 163 | 323 | 824 | 279 | 313 | 12 | 80 | 21 | 4.1 |
| 26 | 268 | 408 | 359 | 136 | 258 | 654 | 422 | 264 | 9.9 | 72 | 20 | 4.1 |
| 27 | 229 | 317 | 274 | 119 | 217 | 734 | 584 | 219 | 8.2 | 53 | 180 | 6.2 |
| 28 | 220 | 550 | 224 | 121 | 202 | 2,250 | 424 | 181 | 8.8 | 44 | 343 | 21 |
| 29 | 216 | 441 | 208 | 140 | --- | 1,630 | 334 | 154 | 15 | 66 | 169 | 14 |
| 30 | 277 | 335 | 178 | 143 | --- | 908 | 1,470 | 128 | 17 | 63 | 119 | 11 |
| 31 | 229 | --- | 163 | 111 | --- | 671 | --- | 109 | --- | 326 | 109 | --- |
| TOTAL | 5,691 | 9,297 | 12,204 | 9,347 | 10,425 | 15,427 | 10,979 | 9,327 | 1,175.9 | 3,350.7 | 2,718 | 800.9 |
| MEAN | 184 | 310 | 394 | 302 | 372 | 498 | 366 | 301 | 39.2 | 108 | 87.7 | 26.7 |
| MAX | 377 | 748 | 1,100 | 867 | 986 | 2,250 | 1,470 | 1,260 | 92 | 559 | 343 | 168 |
| MIN | 48 | 151 | 142 | 111 | 80 | 110 | 73 | 109 | 8.2 | 6.5 | 18 | 4.1 |
| CFSM | 2.28 | 3.85 | 4.90 | 3.75 | 4.63 | 6.19 | 4.55 | 3.74 | 0.49 | 1.34 | 1.09 | 0.33 |
| IN. | 2.63 | 4.30 | 5.65 | 4.32 | 4.82 | 7.14 | 5.08 | 4.32 | 0.54 | 1.55 | 1.26 | 0.37 |

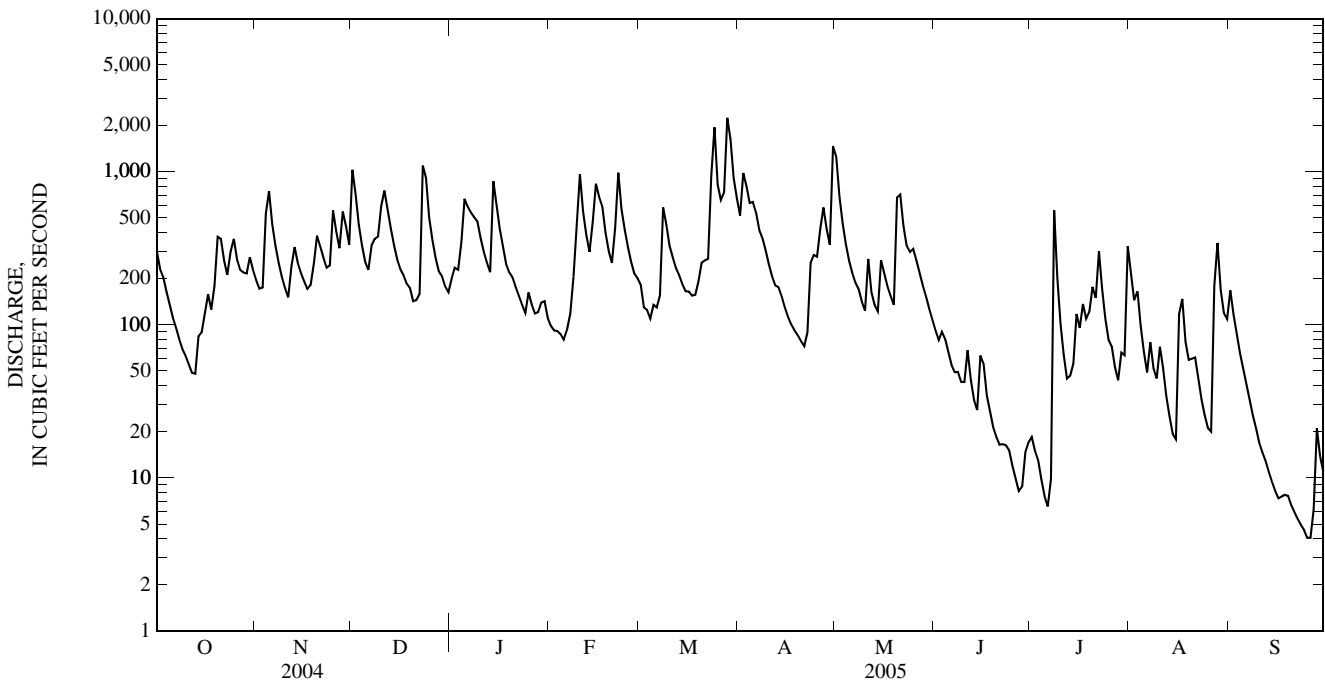
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 121 | 228 | 305 | 312 | 341 | 435 | 316 | 274 | 156 | 125 | 107 | 94.7 |
| MAX | 613 | 746 | 632 | 636 | 642 | 954 | 570 | 567 | 470 | 389 | 562 | 381 |
| (WY) | (1977) | (1986) | (1979) | (1974) | (1982) | (1984) | (1987) | (1996) | (2003) | (2001) | (1989) | (2003) |
| MIN | 6.65 | 12.7 | 63.0 | 40.3 | 68.2 | 232 | 114 | 86.1 | 12.7 | 7.64 | 8.56 | 2.50 |
| (WY) | (1999) | (2002) | (1966) | (1977) | (1978) | (2001) | (1995) | (1991) | (1966) | (1993) | (1946) | (1946) |

03187500 CRANBERRY RIVER NEAR RICHWOOD, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1945 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 104,088.6 | | 90,742.5 | | | |
| ANNUAL MEAN | 284 | | 249 | | 234 | |
| HIGHEST ANNUAL MEAN | | | | | 318 1979 | |
| LOWEST ANNUAL MEAN | | | | | 126 1999 | |
| HIGHEST DAILY MEAN | 2,350 | May 28 | 2,250 | Mar 28 | 6,770 | Mar 21, 1984 |
| LOWEST DAILY MEAN | 7.3 | Sep 5 | 4.1 | (b) | 0.16 | Aug 21, 1987 |
| ANNUAL SEVEN-DAY MINIMUM | 10 | Sep 1 | 5.0 | Sep 21 | 0.28 | Aug 15, 1987 |
| MAXIMUM PEAK FLOW | | | 5,360 | Mar 28 | (c)12,200 | Nov 19, 2003 |
| MAXIMUM PEAK STAGE | | | (a)8.37 | Mar 28 | (d)11.93 | Aug 21, 1989 |
| INSTANTANEOUS LOW FLOW | | | 3.6 | Sep 26 | 0.14 | Aug 22, 1987 |
| ANNUAL RUNOFF (CFSM) | 3.54 | | 3.09 | | 2.91 | |
| ANNUAL RUNOFF (INCHES) | 48.16 | | 41.99 | | 39.50 | |
| 10 PERCENT EXCEEDS | 635 | | 578 | | 530 | |
| 50 PERCENT EXCEEDS | 184 | | 172 | | 136 | |
| 90 PERCENT EXCEEDS | 29 | | 18 | | 17 | |

- a From crest-stage gage.
- b Sept. 25, 26.
- c From rating curve extended above 9,000 ft³/s on basis of slope-area measurement at gage height 11.00 ft.
- d From floodmarks.
- e Estimated.



03189100 GAULEY RIVER NEAR CRAIGSVILLE, WV

LOCATION.--Lat 38°17'27", long 80°38'28", NAD 27, Nicholas County, Hydrologic Unit 05050005, on right bank at downstream side of highway bridge on State Highway 20, 200 ft downstream from Cherry River, 1.8 mi downstream from Cranberry River, 2.7 mi south of Craigs ville, and at mile 61.5.

DRAINAGE AREA.--529 mi².

PERIOD OF RECORD.--October 1964 to September 1982, October 1982 to September 1983 (gauge heights, discharge measurements, and annual maximum discharge only), October 1985 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,870.00 ft above NGVD 29.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of 1932 and 1954 were about 105,000 ft³/s and 67,500 ft³/s, respectively.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Mar 24 | 0400 | 19,600 | 17.98 | Apr 30 | 1900 | 12,200 | 16.06 |
| Mar 28 | 1700 | *20,100 | *18.10 | | | | |

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 | 1,830 | 1,090 | 5,340 | 947 | 709 | 1,230 | 2,660 | 8,930 | 578 | 473 | 1,370 | 711 |
| 2 | 1,400 | 975 | 4,400 | 1,130 | 688 | 1,060 | 4,680 | 4,410 | 494 | 286 | 994 | 635 |
| 3 | 1,300 | 994 | 2,810 | 1,040 | 693 | 941 | 4,670 | 2,800 | 498 | 187 | 726 | 463 |
| 4 | 1,040 | 2,670 | 2,100 | 1,330 | 684 | 847 | 3,830 | 2,050 | 494 | 122 | 519 | 359 |
| 5 | 827 | 4,750 | 1,660 | 2,670 | 650 | 1,070 | 3,750 | 1,620 | 414 | 92 | 389 | 286 |
| 6 | 669 | 2,840 | 1,420 | 2,760 | 701 | 1,110 | 3,040 | 1,350 | 343 | 73 | 330 | 229 |
| 7 | 563 | 2,100 | 1,720 | 2,760 | 895 | 1,450 | 2,390 | 1,160 | 395 | 93 | 690 | 193 |
| 8 | 472 | 1,640 | 1,990 | 2,640 | 1,450 | 4,840 | 2,250 | 1,050 | 368 | 4,560 | 513 | 164 |
| 9 | 400 | 1,300 | 2,060 | 2,610 | 2,430 | 3,480 | 1,940 | 899 | 299 | 1,920 | 402 | 141 |
| 10 | 358 | 1,080 | 3,310 | 2,130 | 5,200 | 2,410 | 1,590 | 786 | 293 | 1,050 | 548 | 121 |
| 11 | 318 | 927 | 4,510 | 1,750 | 3,250 | 1,990 | 1,340 | 1,130 | 388 | 668 | 394 | 107 |
| 12 | 284 | 1,300 | 3,980 | 1,490 | 2,340 | 1,700 | 1,160 | 847 | 354 | 480 | 296 | 95 |
| 13 | 276 | 2,070 | 2,860 | 1,280 | 1,890 | 1,480 | 1,080 | 710 | 258 | 399 | 238 | 84 |
| 14 | 403 | 1,740 | 2,250 | 4,240 | 2,510 | 1,290 | 953 | 657 | 221 | 425 | 194 | 76 |
| 15 | 481 | 1,480 | 1,830 | 3,530 | 4,340 | 1,210 | 816 | 1,210 | 266 | 775 | 153 | 67 |
| 16 | 544 | 1,270 | 1,540 | 2,480 | 3,400 | 1,240 | 709 | 1,210 | 245 | 1,110 | 257 | 62 |
| 17 | 810 | 1,110 | 1,400 | 1,950 | 3,030 | 1,190 | 634 | 979 | 196 | 1,430 | 521 | 60 |
| 18 | 741 | 1,110 | 1,230 | 1,520 | 2,260 | 1,230 | 583 | 861 | 157 | 1,150 | 388 | 56 |
| 19 | 958 | 1,460 | 1,150 | 1,290 | 1,790 | 1,470 | 542 | 758 | 133 | 1,430 | 320 | 52 |
| 20 | 1,670 | 2,250 | 910 | 1,230 | 1,540 | 1,910 | 503 | 2,880 | 117 | 1,790 | 365 | 49 |
| 21 | 1,820 | 2,070 | 869 | 1,050 | 1,950 | 1,990 | 469 | 4,120 | 106 | 1,270 | 306 | 45 |
| 22 | 1,430 | 1,790 | 1,010 | 897 | 5,580 | 1,900 | 540 | 2,540 | 100 | 2,010 | 243 | 43 |
| 23 | 1,180 | 1,540 | 4,610 | 719 | 3,300 | 4,220 | 1,190 | 1,900 | 104 | 1,390 | 185 | 41 |
| 24 | 1,690 | 1,470 | 4,890 | 586 | 2,470 | 13,500 | 1,660 | 1,690 | 91 | 915 | 151 | 39 |
| 25 | 2,510 | 2,850 | 2,750 | 759 | 1,980 | 5,200 | 1,750 | 1,840 | 77 | 662 | 130 | 38 |
| 26 | 1,860 | 2,610 | 2,050 | 752 | 1,610 | 3,610 | 2,860 | 1,590 | 65 | 585 | 126 | 35 |
| 27 | 1,540 | 2,080 | 1,620 | 673 | 1,370 | 3,550 | 3,120 | 1,320 | 55 | 460 | 772 | 35 |
| 28 | 1,400 | 2,680 | 1,270 | 509 | 1,270 | 10,300 | 2,380 | 1,100 | 72 | 390 | 1,450 | 55 |
| 29 | 1,280 | 2,460 | 1,190 | 576 | --- | 9,980 | 1,900 | 945 | 260 | 438 | 878 | 61 |
| 30 | 1,420 | 1,980 | 1,020 | 738 | --- | 5,320 | 7,370 | 794 | 250 | 386 | 591 | 58 |
| 31 | 1,280 | --- | 915 | 737 | --- | 3,530 | --- | 676 | --- | 1,760 | 510 | --- |
| TOTAL | 32,754 | 55,686 | 70,664 | 48,773 | 59,980 | 96,248 | 62,359 | 54,812 | 7,691 | 28,779 | 14,949 | 4,460 |
| MEAN | 1,057 | 1,856 | 2,279 | 1,573 | 2,142 | 3,105 | 2,079 | 1,768 | 256 | 928 | 482 | 149 |
| MAX | 2,510 | 4,750 | 5,340 | 4,240 | 5,580 | 13,500 | 7,370 | 8,930 | 578 | 4,560 | 1,450 | 711 |
| MIN | 276 | 927 | 869 | 509 | 650 | 847 | 469 | 657 | 55 | 73 | 126 | 35 |
| CFSM | 2.00 | 3.51 | 4.31 | 2.97 | 4.05 | 5.87 | 3.93 | 3.34 | 0.48 | 1.75 | 0.91 | 0.28 |
| IN. | 2.30 | 3.92 | 4.97 | 3.43 | 4.22 | 6.77 | 4.39 | 3.85 | 0.54 | 2.02 | 1.05 | 0.31 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

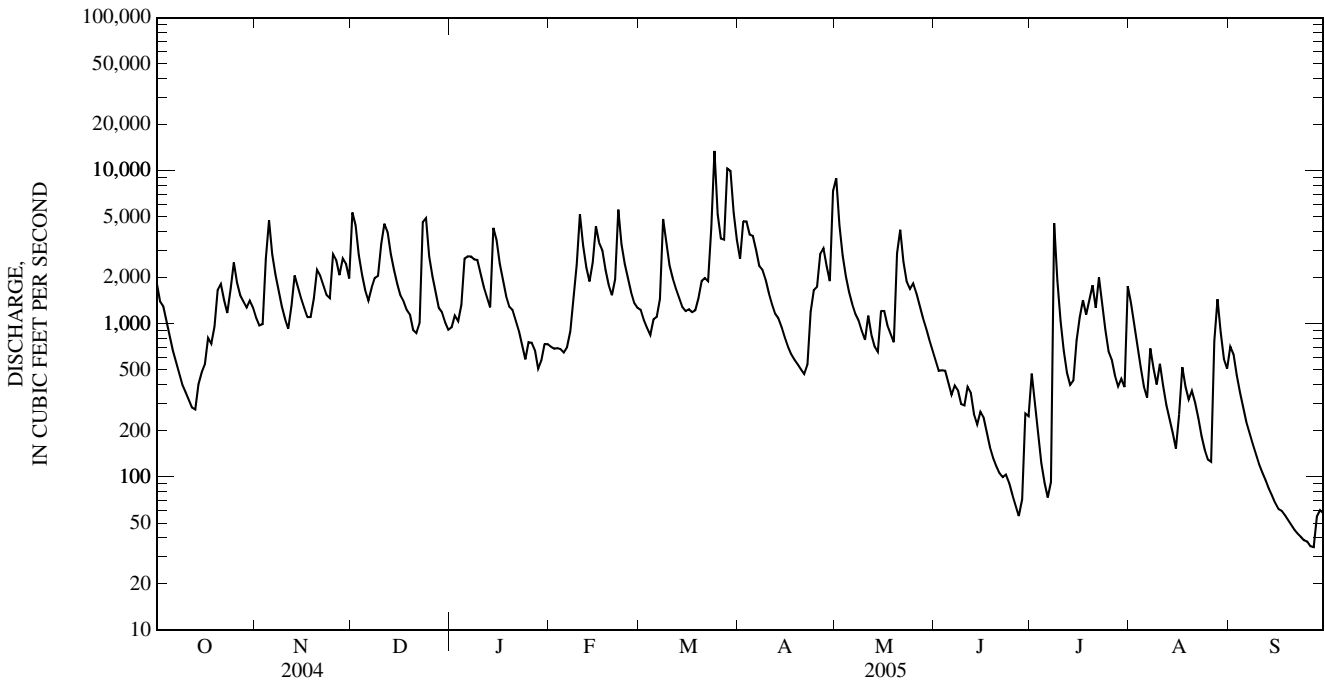
| | 742 | 1,400 | 1,868 | 1,884 | 2,099 | 2,639 | 2,018 | 1,697 | 955 | 763 | 661 | 538 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MAX | 3,531 | 4,464 | 3,561 | 3,722 | 3,928 | 4,968 | 3,525 | 3,575 | 2,730 | 2,270 | 2,819 | 2,056 |
| (WY) | (1977) | (1986) | (1979) | (1996) | (1994) | (1967) | (1987) | (1996) | (1974) | (2001) | (1989) | (2003) |
| MIN | 49.1 | 78.7 | 341 | 464 | 551 | 1,433 | 676 | 463 | 100 | 58.3 | 67.9 | 54.3 |
| (WY) | (1993) | (2002) | (1966) | (1977) | (1978) | (1976) | (1995) | (1991) | (1991) | (1999) | (1988) | (1995) |

03189100 GAULEY RIVER NEAR CRAIGSVILLE, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1965 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 626,003 | | 537,155 | | | |
| ANNUAL MEAN | 1,710 | | 1,472 | | 1,436 | |
| HIGHEST ANNUAL MEAN | | | | | 1,944 | 1996 |
| LOWEST ANNUAL MEAN | | | | | 854 | 1999 |
| HIGHEST DAILY MEAN | 14,500 | May 28 | 13,500 | Mar 24 | 29,800 | Oct 9, 1976 |
| LOWEST DAILY MEAN | 38 | Sep 5 | 35 | (a) | 8.2 | Sep 12, 1995 |
| ANNUAL SEVEN-DAY MINIMUM | 56 | Sep 1 | 39 | Sep 21 | 9.0 | Sep 10, 1995 |
| MAXIMUM PEAK FLOW | | | 20,100 | Mar 28 | (b)63,500 | Nov 19, 2003 |
| MAXIMUM PEAK STAGE | | | 18.10 | Mar 28 | 25.94 | Nov 19, 2003 |
| INSTANTANEOUS LOW FLOW | | | 29 | Sep 26 | 7.6 | Aug 22, 1987 |
| ANNUAL RUNOFF (CFSM) | 3.23 | | 2.78 | | 2.71 | |
| ANNUAL RUNOFF (INCHES) | 44.02 | | 37.77 | | 36.88 | |
| 10 PERCENT EXCEEDS | 3,750 | | 3,170 | | 3,260 | |
| 50 PERCENT EXCEEDS | 1,220 | | 1,110 | | 840 | |
| 90 PERCENT EXCEEDS | 163 | | 132 | | 112 | |

a Sept. 26, 27.

b From rating curve extended above 35,000 ft³/s.



03190400 MEADOW RIVER NEAR MOUNT LOOKOUT, WV

LOCATION.--Lat 38°11'23", long 80°56'49", NAD 27, Nicholas County, Hydrologic Unit 05050005, on right bank 1,000 ft upstream from mouth, and 2.5 mi northwest of Mount Lookout.

DRAINAGE AREA.--365 mi².

PERIOD OF RECORD.--September 1966 to September 1983, October 1985 to current year.

REVISED RECORDS.--WDR WV-99-1: 1998 (m). WDR WV-04-1: 2001 (M).

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is approximately 1,200 ft above NGVD 29, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Apr 30 | 2300 | *5,380 | *8.51 | No other peak greater than base discharge. | | | |

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 | 1,230 | 588 | 2,110 | 414 | 406 | 737 | 1,600 | 4,620 | 319 | 198 | 1,140 | 417 |
| 2 | 867 | 512 | 2,850 | 419 | 402 | 656 | 2,230 | 3,000 | 276 | 205 | 536 | 308 |
| 3 | 638 | 463 | 2,170 | 400 | 426 | 543 | 3,160 | 2,000 | 259 | 156 | 298 | 228 |
| 4 | 446 | 747 | 1,580 | 387 | 428 | 500 | 3,230 | 1,400 | 257 | 114 | 188 | 176 |
| 5 | 327 | 1,920 | 1,150 | 588 | 406 | 1,150 | 2,560 | 999 | 233 | 79 | 137 | 140 |
| 6 | 262 | 1,510 | 885 | 1,020 | 439 | 1,640 | 1,910 | 747 | 200 | 66 | 108 | 115 |
| 7 | 216 | 1,180 | 842 | 1,280 | 560 | 1,870 | 1,410 | 617 | 185 | 71 | 91 | 97 |
| 8 | 183 | 932 | 871 | 1,300 | 893 | 3,890 | 1,090 | 527 | 168 | 1,330 | 118 | 85 |
| 9 | 157 | 713 | 938 | 1,400 | 1,520 | 3,340 | 1,070 | 450 | 154 | 909 | 146 | 76 |
| 10 | 144 | 531 | 1,840 | 1,270 | 2,630 | 2,220 | 917 | 393 | 223 | 566 | 270 | 69 |
| 11 | 129 | 426 | 2,770 | 1,060 | 2,350 | 1,660 | 750 | 353 | 170 | 494 | 263 | 64 |
| 12 | 118 | 532 | 2,840 | 881 | 1,750 | 1,350 | 638 | 327 | 135 | 367 | 227 | 58 |
| 13 | 122 | 1,070 | 2,160 | 725 | 1,390 | 1,120 | 578 | 289 | 118 | 201 | 180 | 54 |
| 14 | 231 | 1,030 | 1,610 | 1,630 | 1,560 | 995 | 518 | 288 | 105 | 139 | 118 | 50 |
| 15 | 307 | 895 | 1,230 | 2,190 | 2,440 | 1,040 | 440 | 509 | 109 | 155 | 89 | 47 |
| 16 | 297 | 762 | 934 | 1,730 | 2,160 | 1,090 | 375 | 469 | 106 | 259 | 75 | 45 |
| 17 | 313 | 612 | 800 | 1,360 | 1,840 | 1,030 | 329 | 374 | 97 | 427 | 125 | 43 |
| 18 | 315 | 561 | 679 | 978 | 1,430 | 961 | 303 | 313 | 84 | 444 | 221 | 39 |
| 19 | 746 | 697 | 613 | 689 | 1,070 | 1,010 | 283 | 275 | 76 | 475 | 187 | 37 |
| 20 | 1,300 | 939 | 476 | 685 | 823 | 1,150 | 268 | 1,610 | 70 | 520 | 270 | 35 |
| 21 | 992 | 1,000 | 428 | 603 | 856 | 1,180 | 255 | 1,890 | 66 | 427 | 693 | 33 |
| 22 | 767 | 891 | 499 | 509 | 2,190 | 1,060 | 320 | 1,300 | 63 | 421 | 639 | 32 |
| 23 | 600 | 782 | 624 | 382 | 1,990 | 1,340 | 1,000 | 991 | 63 | 389 | 389 | 30 |
| 24 | 614 | 729 | 1,520 | 338 | 1,580 | 3,280 | 1,320 | 1,110 | 61 | 270 | 287 | 29 |
| 25 | 891 | 1,550 | 1,310 | 384 | 1,250 | 2,510 | 1,380 | 2,030 | 60 | 191 | 185 | 28 |
| 26 | 814 | 1,790 | 986 | 395 | 960 | 1,810 | 2,010 | 1,460 | 55 | 163 | 234 | 28 |
| 27 | 696 | 1,480 | 801 | 381 | 768 | 1,440 | 1,730 | 1,000 | 49 | 132 | 812 | 29 |
| 28 | 660 | 1,230 | 566 | 326 | 707 | 1,770 | 1,320 | 729 | 45 | 121 | 1,380 | 28 |
| 29 | 610 | 1,090 | 574 | 323 | --- | 3,760 | 1,050 | 561 | 47 | 146 | 888 | 29 |
| 30 | 671 | 923 | 489 | 389 | --- | 3,330 | 3,070 | 444 | 64 | 259 | 683 | 43 |
| 31 | 673 | --- | 439 | 390 | --- | 2,290 | --- | 368 | --- | 696 | 552 | --- |
| TOTAL | 16,336 | 28,085 | 37,584 | 24,826 | 35,224 | 51,722 | 37,114 | 31,443 | 3,917 | 10,390 | 11,529 | 2,492 |
| MEAN | 527 | 936 | 1,212 | 801 | 1,258 | 1,668 | 1,237 | 1,014 | 131 | 335 | 372 | 83.1 |
| MAX | 1,300 | 1,920 | 2,850 | 2,190 | 2,630 | 3,890 | 3,230 | 4,620 | 319 | 1,330 | 1,380 | 417 |
| MIN | 118 | 426 | 428 | 323 | 402 | 500 | 255 | 275 | 45 | 66 | 75 | 28 |
| CFSM | 1.44 | 2.56 | 3.32 | 2.19 | 3.45 | 4.57 | 3.39 | 2.78 | 0.36 | 0.92 | 1.02 | 0.23 |
| IN. | 1.66 | 2.86 | 3.83 | 2.53 | 3.59 | 5.27 | 3.78 | 3.20 | 0.40 | 1.06 | 1.18 | 0.25 |

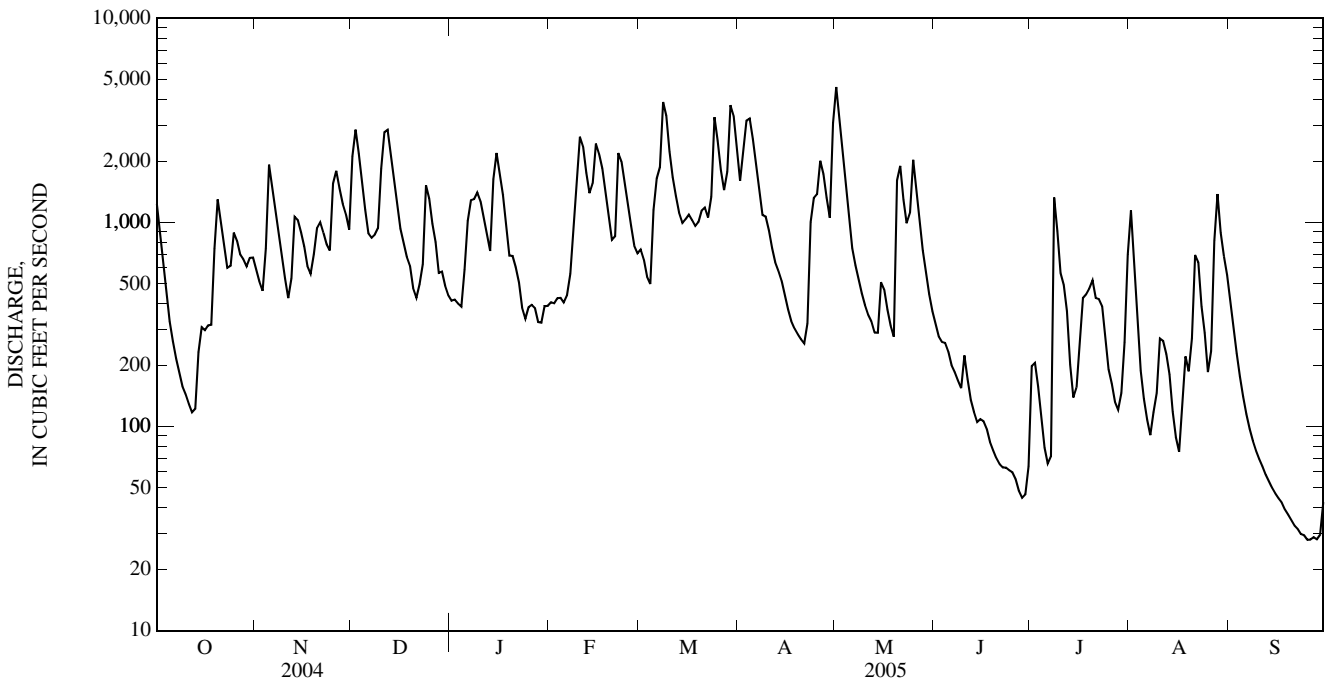
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 297 | 638 | 920 | 1,036 | 1,235 | 1,432 | 1,114 | 946 | 502 | 331 | 296 | 189 |
| MAX | 1,574 | 2,383 | 1,710 | 2,246 | 2,366 | 2,583 | 2,687 | 1,944 | 1,642 | 1,241 | 1,074 | 793 |
| (WY) | (1977) | (2004) | (1973) | (1996) | (1998) | (1993) | (1987) | (1996) | (2003) | (2001) | (1969) | (2003) |
| MIN | 8.18 | 25.4 | 158 | 140 | 355 | 599 | 368 | 271 | 53.7 | 32.2 | 12.9 | 13.1 |
| (WY) | (1992) | (2002) | (2002) | (1977) | (2002) | (1988) | (1995) | (1976) | (1999) | (1991) | (1987) | (1983) |

03190400 MEADOW RIVER NEAR MOUNT LOOKOUT, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1966 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 326,526 | | 290,662 | | | |
| ANNUAL MEAN | 892 | | 796 | | 740 | |
| HIGHEST ANNUAL MEAN | | | | | 1,055 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 410 | 1988 |
| HIGHEST DAILY MEAN | 7,250 | Apr 14 | 4,620 | May 1 | 14,200 | Feb 26, 1972 |
| LOWEST DAILY MEAN | 26 | Sep 7 | 28 | (a) | 4.1 | (b) |
| ANNUAL SEVEN-DAY MINIMUM | 33 | Sep 2 | 29 | Sep 23 | 5.7 | Oct 8, 1991 |
| MAXIMUM PEAK FLOW | | | 5,380 | Apr 30 | (c)27,200 | Nov 19, 2003 |
| MAXIMUM PEAK STAGE | | | 8.51 | Apr 30 | (d)16.31 | Nov 19, 2003 |
| INSTANTANEOUS LOW FLOW | | | 27 | (f) | 3.0 | Aug 22, 1987 |
| ANNUAL RUNOFF (CFSM) | 2.44 | | 2.18 | | 2.03 | |
| ANNUAL RUNOFF (INCHES) | 33.28 | | 29.62 | | 27.56 | |
| 10 PERCENT EXCEEDS | 2,040 | | 1,840 | | 1,840 | |
| 50 PERCENT EXCEEDS | 615 | | 561 | | 410 | |
| 90 PERCENT EXCEEDS | 92 | | 76 | | 44 | |

a Sept. 25, 26, 28.
 b Aug. 21, 22, 1987.
 c From rating curve extended above 15,000 ft³/s on basis of slope-conveyance study.
 d From floodmarks.
 f Sept. 25, 26, 28, 29.



03191500 PETERS CREEK NEAR LOCKWOOD, WV

LOCATION.--Lat 38°15'45", long 81°01'24", NAD 27, Nicholas County, Hydrologic Unit 05050005, on left bank, along State Route 39, 0.8 mi downstream from Tate Run, 1.6 mi upstream from Line Creek and Lockwood, and at mile 5.3.

DRAINAGE AREA.--40.2 mi².

PERIOD OF RECORD.--October 1945 to September 1971, October 1979 to September 1982, October 1996 to September 1998. February 2003 to current year.

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

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 1,064.70 ft above NGVD 29. Prior to February 2003 at site 0.1 mi downstream at datum 0.07 ft higher. Prior to September 30, 1971, at site 0.6 mi downstream at datum 1,059.52 ft above sea level. Prior to November 2, 1945, nonrecording gage and November 2, 1945, to Aug. 2, 1955, water-stage recorder near present site at datum 1,072.19 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------------------------------------|------|--------------------------------|------------------|
| Feb 21 | 1930 | *707 | *8.07 | No peak greater than base discharge. | | | |

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 | 37 | 42 | 291 | 45 | 83 | 197 | 118 | 409 | 30 | 60 | 11 | 21 |
| 2 | 33 | 39 | 223 | 41 | 82 | 154 | 250 | 208 | 29 | 22 | 9.9 | 15 |
| 3 | 41 | 41 | 142 | 41 | 88 | 119 | 317 | 137 | 30 | 14 | 9.5 | 13 |
| 4 | 31 | 274 | 102 | 52 | 89 | 103 | 272 | 102 | 25 | 11 | 8.2 | 11 |
| 5 | 27 | 281 | 79 | 156 | 83 | 232 | 171 | 82 | 23 | 9.9 | 8.1 | 9.7 |
| 6 | 23 | 145 | 74 | 176 | 74 | 254 | 125 | 71 | 21 | 8.7 | 8.4 | 8.4 |
| 7 | 21 | 97 | 78 | 157 | 69 | 212 | 109 | 63 | 41 | 63 | 7.8 | 7.4 |
| 8 | 19 | 70 | 67 | 182 | 75 | 409 | 102 | 56 | 24 | 154 | 9.2 | 6.7 |
| 9 | 18 | 53 | 102 | 170 | 81 | 270 | 86 | 47 | 20 | 45 | 9.6 | 6.0 |
| 10 | 17 | 45 | 197 | 133 | 154 | 181 | 75 | 43 | 19 | 25 | 7.9 | 6.1 |
| 11 | 16 | 41 | 348 | 103 | 137 | 166 | 67 | 39 | 17 | 18 | 7.4 | 6.1 |
| 12 | 16 | 117 | 312 | 86 | 111 | 179 | 65 | 34 | 15 | 14 | 6.9 | 5.4 |
| 13 | 67 | 162 | 201 | 74 | 92 | 203 | 61 | 30 | 14 | 13 | 6.4 | 5.4 |
| 14 | 176 | 120 | 139 | 247 | 128 | 173 | 53 | 37 | 14 | 15 | 6.0 | 5.3 |
| 15 | 105 | 90 | 107 | 184 | 146 | 153 | 46 | 76 | 14 | 16 | 5.7 | 5.0 |
| 16 | 100 | 72 | 90 | 128 | 137 | 134 | 40 | 45 | 12 | 17 | 9.9 | 4.9 |
| 17 | 98 | 59 | 82 | 95 | 111 | 116 | 37 | 37 | 12 | 20 | 12 | 5.0 |
| 18 | 72 | 75 | 74 | 73 | 93 | 101 | 35 | 31 | 11 | 26 | 8.1 | 5.0 |
| 19 | 182 | 149 | 69 | 70 | 77 | 91 | 34 | 31 | 11 | 43 | 11 | 4.1 |
| 20 | 192 | 205 | 56 | 60 | 67 | 86 | 31 | 155 | 9.2 | 68 | 12 | 3.7 |
| 21 | 123 | 149 | 60 | 54 | 222 | 77 | 32 | 113 | 8.8 | 49 | 14 | 4.5 |
| 22 | 82 | 113 | 55 | 60 | 367 | 68 | 58 | 78 | 12 | 35 | 7.9 | 4.7 |
| 23 | 60 | 92 | 89 | 60 | 192 | 152 | 147 | 63 | 11 | 29 | 7.1 | 4.3 |
| 24 | 181 | 87 | 105 | 52 | 143 | 358 | 187 | 110 | 8.7 | 20 | 6.7 | 4.2 |
| 25 | 152 | 156 | 92 | 56 | 112 | 198 | 215 | 176 | 8.3 | 20 | 5.3 | 4.2 |
| 26 | 97 | 155 | 78 | 58 | 95 | 136 | 170 | 116 | 8.0 | 29 | 113 | 4.1 |
| 27 | 78 | 121 | 63 | 65 | 84 | 110 | 124 | 82 | 6.8 | 19 | 315 | 6.6 |
| 28 | 66 | 102 | 53 | 61 | 118 | 239 | 91 | 63 | 7.3 | 22 | 104 | 4.7 |
| 29 | 59 | 77 | 51 | 63 | --- | 361 | 82 | 51 | 14 | 19 | 41 | 8.0 |
| 30 | 55 | 72 | 48 | 78 | --- | 241 | 483 | 42 | 65 | 15 | 29 | 7.6 |
| 31 | 48 | --- | 45 | 79 | --- | 157 | --- | 35 | --- | 13 | 23 | --- |
| TOTAL | 2,292 | 3,301 | 3,572 | 2,959 | 3,310 | 5,630 | 3,683 | 2,662 | 541.1 | 932.6 | 841.0 | 207.1 |
| MEAN | 73.9 | 110 | 115 | 95.5 | 118 | 182 | 123 | 85.9 | 18.0 | 30.1 | 27.1 | 6.90 |
| MAX | 192 | 281 | 348 | 247 | 367 | 409 | 483 | 409 | 65 | 154 | 315 | 21 |
| MIN | 16 | 39 | 45 | 41 | 67 | 68 | 31 | 30 | 6.8 | 8.7 | 5.3 | 3.7 |
| CFSM | 1.84 | 2.74 | 2.87 | 2.37 | 2.94 | 4.52 | 3.05 | 2.14 | 0.45 | 0.75 | 0.67 | 0.17 |
| IN. | 2.12 | 3.05 | 3.31 | 2.74 | 3.06 | 5.21 | 3.41 | 2.46 | 0.50 | 0.86 | 0.78 | 0.19 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2005, BY WATER YEAR (WY)

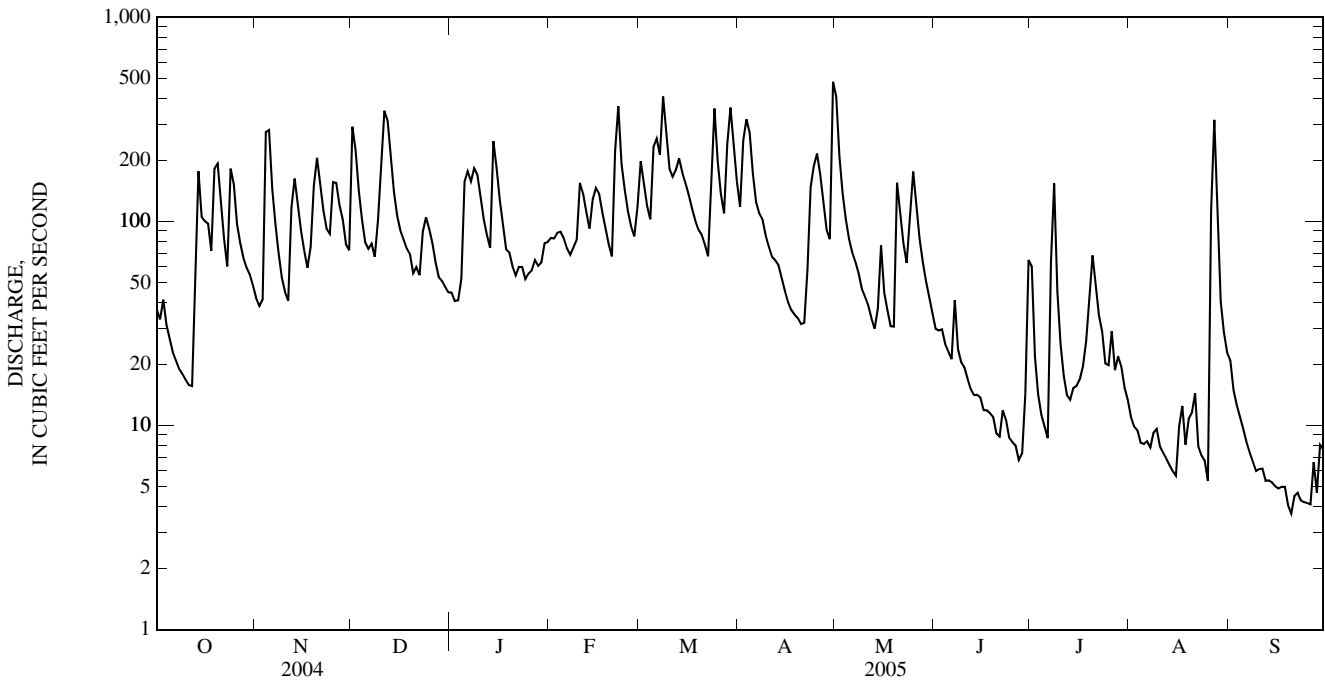
| | 19.6 | 50.0 | 80.0 | 96.1 | 115 | 134 | 97.8 | 73.8 | 45.8 | 33.4 | 30.8 | 17.0 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 19.6 | 50.0 | 80.0 | 96.1 | 115 | 134 | 97.8 | 73.8 | 45.8 | 33.4 | 30.8 | 17.0 |
| MAX | 105 | 230 | 168 | 191 | 204 | 297 | 191 | 171 | 219 | 134 | 172 | 115 |
| (WY) | (1980) | (2004) | (1951) | (1950) | (1955) | (1963) | (2004) | (1967) | (2003) | (1958) | (1958) | (2003) |
| MIN | 0.12 | 0.52 | 4.60 | 22.0 | 30.8 | 52.6 | 23.5 | 13.3 | 2.32 | 1.85 | 0.24 | 0.29 |
| (WY) | (1954) | (1954) | (1966) | (1966) | (1954) | (1966) | (1963) | (1964) | (1966) | (1957) | (1957) | (1946) |

03191500 PETERS CREEK NEAR LOCKWOOD, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1946 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 33,839.4 | | 29,930.8 | | 65.2 | |
| ANNUAL MEAN | 92.5 | | 82.0 | | 108 | |
| HIGHEST ANNUAL MEAN | | | | | 1950 | |
| LOWEST ANNUAL MEAN | | | | | 29.3 | |
| HIGHEST DAILY MEAN | 1,010 | Feb 6 | 483 | Apr 30 | 3,000 | Aug 2, 1958 |
| LOWEST DAILY MEAN | 6.3 | Jul 21 | 3.7 | Sep 20 | 0.00 | (a) |
| ANNUAL SEVEN-DAY MINIMUM | 7.5 | Jul 15 | 4.2 | Sep 19 | 0.00 | Sep 3, 1957 |
| MAXIMUM PEAK FLOW | | | 707 | Feb 21 | (b)8,340 | Jun 16, 2003 |
| MAXIMUM PEAK STAGE | | | 8.07 | Feb 21 | 18.35 | Jun 16, 2003 |
| INSTANTANEOUS LOW FLOW | | | 3.2 | Sep 26 | 0.00 | (a) |
| ANNUAL RUNOFF (CFSM) | 2.30 | | 2.04 | | 1.62 | |
| ANNUAL RUNOFF (INCHES) | 31.31 | | 27.70 | | 22.05 | |
| 10 PERCENT EXCEEDS | 198 | | 183 | | 154 | |
| 50 PERCENT EXCEEDS | 53 | | 63 | | 28 | |
| 90 PERCENT EXCEEDS | 14 | | 8.0 | | 3.3 | |

a Sept. 6-9, 1957.

b From rating curve extended above 7,800 ft³/s on basis of step-backwater analysis.



03192000 GAULEY RIVER ABOVE BELVA, WV

LOCATION.--Lat 38°14'00", long 81°10'52", NAD 27, Nicholas County, Hydrologic Unit 05050005, on right bank 0.5 mi upstream from Belva, 1.0 mi upstream from Twentymile Creek, and at mile 6.3.

DRAINAGE AREA.--1,317 mi².

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 873: 1938. WSP 1275: 1929-30. WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 669.00 ft above NGVD 12.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since May 1965 by Summersville Lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1918 reached a stage of about 30 ft; discharge of about 112,000 ft³/s.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 22,900 ft³/s, May 1, gage height, 11.97 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

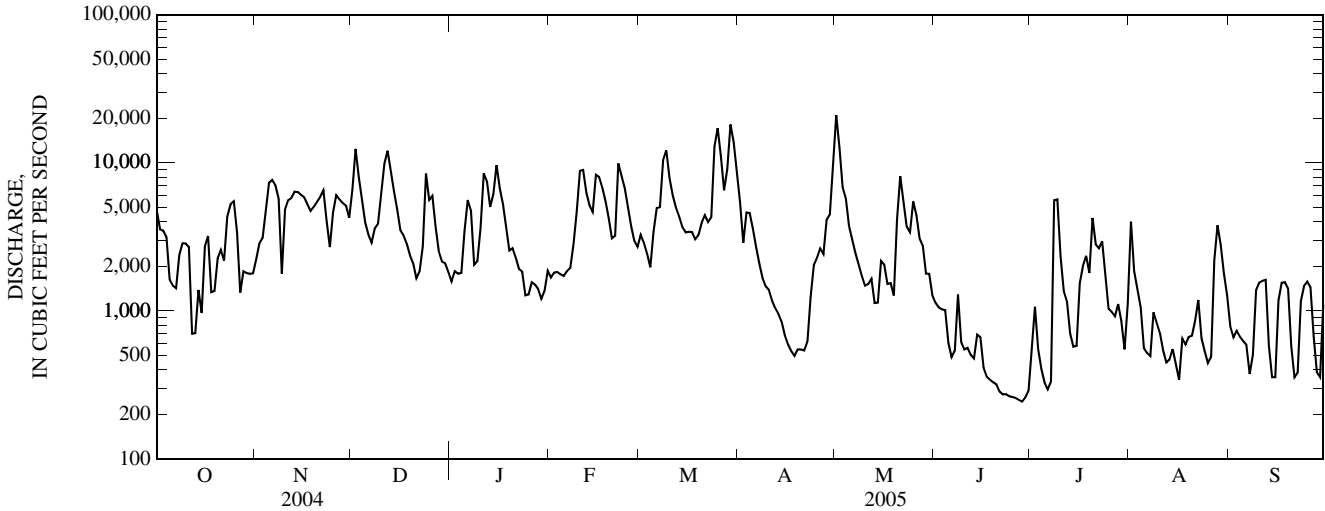
| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|---------|---------|---------|---------|---------|--------|---------|--------|--------|--------|--------|
| 1 | 4,730 | 2,240 | 6,580 | 1,580 | 1,680 | 3,270 | 5,400 | 21,000 | 1,130 | 596 | 4,010 | 785 |
| 2 | 3,540 | 2,870 | 12,400 | 1,850 | 1,820 | 2,890 | 2,880 | 12,700 | 1,060 | 1,070 | 1,850 | 662 |
| 3 | 3,480 | 3,110 | 8,000 | 1,780 | 1,830 | 2,440 | 4,620 | 6,850 | 1,030 | 552 | 1,370 | 732 |
| 4 | 3,150 | 4,820 | 5,670 | 1,810 | 1,770 | 1,970 | 4,570 | 5,750 | 1,010 | 406 | 1,050 | 670 |
| 5 | 1,620 | 7,330 | 3,960 | 3,500 | 1,720 | 3,410 | 3,590 | 3,740 | 607 | 329 | 560 | 627 |
| 6 | 1,480 | 7,670 | 3,280 | 5,600 | 1,860 | 4,940 | 2,700 | 3,040 | 487 | 295 | 520 | 592 |
| 7 | 1,420 | 7,050 | 2,900 | 4,770 | 1,960 | 5,010 | 2,100 | 2,450 | 537 | 332 | 495 | 375 |
| 8 | 2,380 | 5,720 | 3,600 | 2,050 | 2,820 | 10,400 | 1,680 | 2,060 | 1,290 | 5,580 | 978 | 504 |
| 9 | 2,860 | 1,790 | 3,880 | 2,170 | 4,670 | 12,100 | 1,470 | 1,730 | 618 | 5,650 | 829 | 1,380 |
| 10 | 2,860 | 4,840 | 6,330 | 3,620 | 8,820 | 7,870 | 1,390 | 1,480 | 549 | 2,340 | 709 | 1,550 |
| 11 | 2,700 | 5,580 | 9,880 | 8,490 | 8,950 | 6,030 | 1,180 | 1,520 | 562 | 1,370 | 542 | 1,590 |
| 12 | 702 | 5,780 | 12,000 | 7,500 | 6,320 | 4,990 | 1,040 | 1,650 | 506 | 1,160 | 448 | 1,620 |
| 13 | 707 | 6,380 | 8,860 | 5,040 | 5,160 | 4,350 | 953 | 1,130 | 478 | 704 | 469 | 582 |
| 14 | 1,390 | 6,340 | 6,410 | 6,150 | 4,660 | 3,680 | 844 | 1,140 | 692 | 574 | 551 | 357 |
| 15 | 968 | 6,080 | 4,830 | 9,640 | 8,310 | 3,390 | 683 | 2,170 | 665 | 580 | 432 | 357 |
| 16 | 2,720 | 5,850 | 3,500 | 6,730 | 8,030 | 3,430 | 594 | 2,050 | 413 | 1,530 | 343 | 1,170 |
| 17 | 3,200 | 5,270 | 3,230 | 5,270 | 6,810 | 3,410 | 535 | 1,520 | 360 | 2,010 | 650 | 1,550 |
| 18 | 1,340 | 4,730 | 2,840 | 3,670 | 5,500 | 3,040 | 496 | 1,540 | 343 | 2,350 | 593 | 1,560 |
| 19 | 1,360 | 5,040 | 2,380 | 2,550 | 4,230 | 3,250 | 551 | 1,270 | 329 | 1,800 | 667 | 1,410 |
| 20 | 2,260 | 5,450 | 2,090 | 2,650 | 3,080 | 3,930 | 549 | 4,150 | 320 | 4,240 | 679 | 575 |
| 21 | 2,580 | 5,880 | 1,660 | 2,290 | 3,210 | 4,420 | 539 | 8,120 | 285 | 2,810 | 859 | 357 |
| 22 | 2,190 | 6,500 | 1,850 | 1,920 | 9,900 | 3,990 | 620 | 5,470 | 273 | 2,640 | 1,180 | 383 |
| 23 | 4,330 | 4,030 | 2,730 | 1,840 | 8,180 | 4,290 | 1,240 | 3,720 | 274 | 2,960 | 654 | 1,170 |
| 24 | 5,260 | 2,700 | 8,440 | 1,280 | 6,750 | 12,900 | 2,030 | 3,400 | 265 | 1,680 | 533 | 1,470 |
| 25 | 5,490 | 4,610 | 5,600 | 1,290 | 5,100 | 17,100 | 2,280 | 5,480 | 262 | 1,030 | 444 | 1,580 |
| 26 | 3,400 | 6,030 | 5,980 | 1,560 | 3,740 | 11,100 | 2,630 | 4,430 | 258 | 983 | 488 | 1,450 |
| 27 | 1,330 | 5,670 | 3,700 | 1,510 | 2,970 | 6,530 | 2,420 | 3,090 | 251 | 920 | 2,210 | 673 |
| 28 | 1,850 | 5,340 | 2,530 | 1,400 | 2,710 | 9,060 | 4,140 | 2,770 | 244 | 1,110 | 3,780 | 386 |
| 29 | 1,800 | 5,130 | 2,150 | 1,210 | --- | 18,100 | 4,480 | 1,790 | 260 | 851 | 2,790 | 357 |
| 30 | 1,780 | 4,270 | 2,100 | 1,360 | --- | 13,800 | 10,300 | 1,780 | 289 | 550 | 1,790 | 1,110 |
| 31 | 1,790 | --- | 1,830 | 1,870 | --- | 8,570 | --- | 1,270 | --- | 1,120 | 1,270 | --- |
| TOTAL | 76,667 | 154,100 | 151,190 | 103,950 | 132,560 | 203,660 | 68,504 | 120,260 | 15,647 | 50,122 | 33,743 | 27,584 |
| MEAN | 2,473 | 5,137 | 4,877 | 3,353 | 4,734 | 6,570 | 2,283 | 3,879 | 522 | 1,617 | 1,088 | 919 |
| MAX | 5,490 | 7,670 | 12,400 | 9,640 | 9,900 | 18,100 | 10,300 | 21,000 | 1,290 | 5,650 | 4,010 | 1,620 |
| MIN | 702 | 1,790 | 1,660 | 1,210 | 1,680 | 1,970 | 496 | 1,130 | 244 | 295 | 343 | 357 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 1,961 | 3,414 | 3,688 | 3,865 | 4,406 | 5,000 | 2,789 | 3,375 | 1,969 | 1,476 | 1,427 | 1,481 |
| MAX | 7,547 | 10,490 | 7,270 | 8,493 | 9,534 | 9,591 | 7,050 | 7,802 | 6,640 | 4,779 | 5,053 | 5,078 |
| (WY) | (1977) | (2004) | (1973) | (1974) | (1994) | (1993) | (1987) | (1996) | (2003) | (2001) | (1989) | (2003) |
| MIN | 124 | 70.8 | 85.6 | 276 | 1,471 | 2,187 | 611 | 538 | 236 | 187 | 36.8 | 72.5 |
| (WY) | (1966) | (1966) | (1966) | (1966) | (2002) | (2000) | (1986) | (1991) | (1991) | (1999) | (1965) | (1965) |

03192000 GAULEY RIVER ABOVE BELVA, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1965 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 1,311,652 | | 1,137,987 | | | |
| ANNUAL MEAN | 3,584 | | 3,118 | | 2,898 | |
| HIGHEST ANNUAL MEAN | | | | | 4,048 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 1,452 | 1966 |
| HIGHEST DAILY MEAN | 20,200 | May 29 | 21,000 | May 1 | 32,000 | Jul 29, 2001 |
| LOWEST DAILY MEAN | 168 | Aug 31 | 244 | Jun 28 | 11 | Sep 10, 1965 |
| ANNUAL SEVEN-DAY MINIMUM | 249 | Aug 27 | 259 | Jun 23 | 17 | Sep 4, 1965 |
| MAXIMUM PEAK FLOW | | | 22,900 | May 1 | 47,800 | Nov 19, 2003 |
| MAXIMUM PEAK STAGE | | | 11.97 | May 1 | 19.23 | Nov 19, 2003 |
| INSTANTANEOUS LOW FLOW | | | 237 | Jun 29 | 9.6 | Sep 11, 1965 |
| 10 PERCENT EXCEEDS | 7,770 | | 6,640 | | 6,900 | |
| 50 PERCENT EXCEEDS | 2,400 | | 2,090 | | 1,700 | |
| 90 PERCENT EXCEEDS | 417 | | 501 | | 382 | |



STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1964, BY WATER YEAR (WY) [UNREGULATED]

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 819 | 1,785 | 3,027 | 4,022 | 4,542 | 5,790 | 3,963 | 2,903 | 1,552 | 1,524 | 1,264 | 532 |
| MAX | 4,859 | 5,609 | 6,421 | 7,870 | 8,926 | 11,660 | 8,691 | 5,737 | 6,164 | 6,141 | 4,871 | 2,824 |
| (WY) | (1938) | (1930) | (1943) | (1937) | (1939) | (1963) | (1958) | (1929) | (1940) | (1932) | (1958) | (1950) |
| MIN | 5.90 | 23.1 | 410 | 437 | 1,084 | 3,000 | 1,166 | 547 | 156 | 22.4 | 26.7 | 13.3 |
| (WY) | (1954) | (1931) | (1940) | (1940) | (1934) | (1937) | (1942) | (1964) | (1936) | (1930) | (1930) | (1930) |

| SUMMARY STATISTICS | WATER YEARS 1929 - 1964 | |
|--------------------------|-------------------------|--------------|
| ANNUAL MEAN | 2,631 | |
| HIGHEST ANNUAL MEAN | 3,803 | 1950 |
| LOWEST ANNUAL MEAN | 1,606 | 1941 |
| HIGHEST DAILY MEAN | 60,900 | Jul 5, 1932 |
| LOWEST DAILY MEAN | 3.2 | Oct 21, 1953 |
| ANNUAL SEVEN-DAY MINIMUM | 3.6 | Oct 20, 1953 |
| INSTANTANEOUS PEAK FLOW | (*)105,000 | Jul 5, 1932 |
| INSTANTANEOUS PEAK STAGE | 28.60 | Jul 5, 1932 |
| INSTANTANEOUS LOW FLOW | 3.2 | Oct 21, 1953 |
| 10 PERCENT EXCEEDS | 6,280 | |
| 50 PERCENT EXCEEDS | 1,390 | |
| 90 PERCENT EXCEEDS | 129 | |

* From rating curve extended above 65,000 ft³/s on basis of velocity-area studies and inflow and storage adjustment to record for Kanawha River at Kanawha Falls.

03193000 KANAWHA RIVER AT KANAWHA FALLS, WV

LOCATION.--Lat 38°08'17", long 81°12'52", NAD 27, Fayette County, Hydrologic Unit 05050006, on right bank 150 ft downstream from bridge, 0.8 mi downstream from village of Kanawha Falls, 2.0 mi downstream from Gauley Bridge, 2.0 mi downstream from confluence of New River and Gauley River, and at mile 94.3.

DRAINAGE AREA.--8,371 mi².

PERIOD OF RECORD.--March 1877 to current year. October 1916 to September 1918 and October 1927 to October 1928, published as at Lock 2, Montgomery.

REVISED RECORDS.--WSP 923: 1878, 1886, 1897, 1899, 1901-03. WSP 1305: 1902(M), 1940. WSP 1335: 1931. WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 621.20 ft above NGVD 29. Prior to Oct. 27, 1928, nonrecording gages at several sites within 9.0 mi of present site at various datums. Oct. 27, 1928, to Sept. 30, 1964, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1939 by Claytor Lake, since 1949 by Bluestone Lake, and since 1965 by Summersville Lake.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 81,400 ft³/s, Mar. 29, gage height, 15.42 ft.

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 | 46,300 | 7,940 | 29,100 | 9,470 | 10,500 | 13,500 | 37,000 | 42,600 | 6,250 | 5,240 | 13,900 | 5,050 |
| 2 | 27,300 | 10,700 | 51,200 | 8,980 | 12,600 | 15,700 | 32,500 | 40,000 | 6,030 | 5,310 | 9,600 | 3,570 |
| 3 | 19,800 | 12,700 | 39,200 | 8,780 | 12,800 | 14,000 | 42,700 | 26,500 | 5,990 | 4,610 | 7,650 | 3,360 |
| 4 | 15,200 | 14,500 | 26,300 | 7,880 | 11,500 | 11,400 | 42,100 | 21,800 | 7,410 | 4,520 | 5,120 | 3,560 |
| 5 | 11,400 | 25,000 | 20,800 | 12,500 | 12,700 | 14,800 | 33,500 | 16,900 | 7,550 | 4,280 | 4,290 | 3,070 |
| 6 | 9,880 | 30,500 | 15,000 | 15,500 | 11,500 | 18,100 | 27,900 | 14,200 | 6,750 | 3,910 | 4,000 | 2,810 |
| 7 | 7,500 | 23,800 | 17,000 | 12,100 | 9,960 | 24,200 | 23,700 | 12,400 | 6,220 | 3,930 | 3,520 | 2,560 |
| 8 | 9,670 | 18,600 | 24,200 | 7,640 | 14,500 | 35,700 | 20,800 | 10,800 | 6,500 | 15,300 | 4,170 | 2,380 |
| 9 | 8,770 | 12,100 | 21,700 | 8,200 | 18,000 | 43,200 | 18,500 | 10,000 | 6,570 | 17,300 | 4,590 | 3,410 |
| 10 | 8,800 | 13,000 | 34,900 | 9,950 | 25,300 | 36,400 | 15,500 | 9,430 | 6,970 | 11,400 | 4,620 | 3,740 |
| 11 | 8,300 | 12,800 | 49,100 | 26,500 | 26,800 | 29,100 | 14,200 | 8,650 | 7,610 | 8,410 | 4,540 | 3,690 |
| 12 | 5,840 | 13,400 | 43,000 | 25,300 | 24,600 | 24,200 | 11,300 | 8,710 | 8,650 | 6,400 | 5,480 | 3,580 |
| 13 | 5,990 | 17,600 | 33,900 | 21,400 | 20,200 | 23,100 | 12,800 | 7,700 | 6,200 | 5,090 | 5,050 | 2,640 |
| 14 | 9,510 | 23,100 | 26,000 | 22,300 | 16,700 | 21,900 | 12,200 | 7,680 | 6,390 | 4,330 | 4,430 | 2,000 |
| 15 | 16,300 | 22,000 | 21,200 | 48,500 | 24,800 | 17,300 | 12,300 | 9,010 | 6,550 | 4,870 | 3,710 | 1,930 |
| 16 | 12,700 | 18,600 | 17,600 | 46,700 | 27,100 | 18,900 | 13,600 | 8,780 | 6,550 | 6,230 | 3,230 | 2,490 |
| 17 | 11,000 | 15,300 | 16,100 | 35,000 | 24,600 | 18,300 | 12,300 | 8,420 | 5,770 | 10,500 | 4,430 | 3,220 |
| 18 | 8,860 | 14,600 | 14,600 | 24,700 | 21,200 | 19,400 | 10,900 | 8,590 | 5,040 | 11,800 | 3,580 | 3,260 |
| 19 | 8,230 | 14,600 | 11,900 | 17,700 | 18,700 | 17,700 | 10,100 | 8,010 | 4,970 | 12,200 | 4,030 | 3,110 |
| 20 | 11,500 | 15,000 | 9,250 | 15,200 | 16,400 | 16,300 | 9,500 | 11,200 | 4,120 | 12,300 | 7,220 | 2,420 |
| 21 | 13,900 | 15,400 | 9,600 | 14,200 | 11,500 | 15,600 | 8,620 | 19,000 | 3,920 | 9,810 | 7,360 | 1,810 |
| 22 | 10,600 | 15,700 | 11,700 | 14,500 | 22,700 | 16,900 | 8,900 | 19,100 | 3,870 | 8,870 | 5,770 | 1,870 |
| 23 | 14,600 | 11,500 | 9,490 | 11,700 | 27,100 | 17,700 | 10,500 | 16,000 | 4,170 | 8,470 | 4,960 | 2,470 |
| 24 | 13,100 | 9,550 | 18,300 | 8,410 | 23,500 | 27,800 | 15,500 | 12,400 | 4,370 | 6,910 | 4,050 | 3,010 |
| 25 | 12,000 | 15,400 | 20,400 | 7,900 | 19,900 | 42,100 | 18,600 | 14,100 | 3,980 | 5,370 | 3,470 | 3,200 |
| 26 | 11,400 | 39,800 | 23,200 | 10,600 | 16,700 | 35,500 | 16,800 | 13,100 | 3,550 | 5,050 | 3,230 | 3,030 |
| 27 | 11,300 | 33,400 | 15,600 | 8,450 | 14,100 | 25,000 | 15,000 | 10,500 | 3,430 | 4,780 | 6,210 | 2,330 |
| 28 | 10,600 | 25,400 | 10,800 | 9,810 | 12,600 | 26,400 | 14,300 | 9,990 | 3,440 | 5,320 | 9,220 | 1,800 |
| 29 | 10,500 | 21,700 | 12,500 | 11,200 | --- | 62,900 | 15,200 | 7,760 | 4,160 | 6,290 | 7,910 | 1,800 |
| 30 | 10,400 | 20,100 | 10,700 | 10,500 | --- | 69,700 | 23,400 | 7,780 | 4,300 | 5,710 | 6,860 | 2,680 |
| 31 | 10,500 | --- | 9,640 | 8,760 | --- | 52,100 | --- | 6,790 | --- | 6,940 | 6,650 | --- |
| TOTAL | 391,750 | 543,790 | 673,980 | 500,330 | 508,560 | 824,900 | 560,220 | 427,900 | 167,280 | 231,450 | 172,850 | 85,850 |
| MEAN | 12,640 | 18,130 | 21,740 | 16,140 | 18,160 | 26,610 | 18,670 | 13,800 | 5,576 | 7,466 | 5,576 | 2,862 |
| MAX | 46,300 | 39,800 | 51,200 | 48,500 | 27,100 | 69,700 | 42,700 | 42,600 | 8,650 | 17,300 | 13,900 | 5,050 |
| MIN | 5,840 | 7,940 | 9,250 | 7,640 | 9,960 | 11,400 | 8,620 | 6,790 | 3,430 | 3,910 | 3,230 | 1,800 |

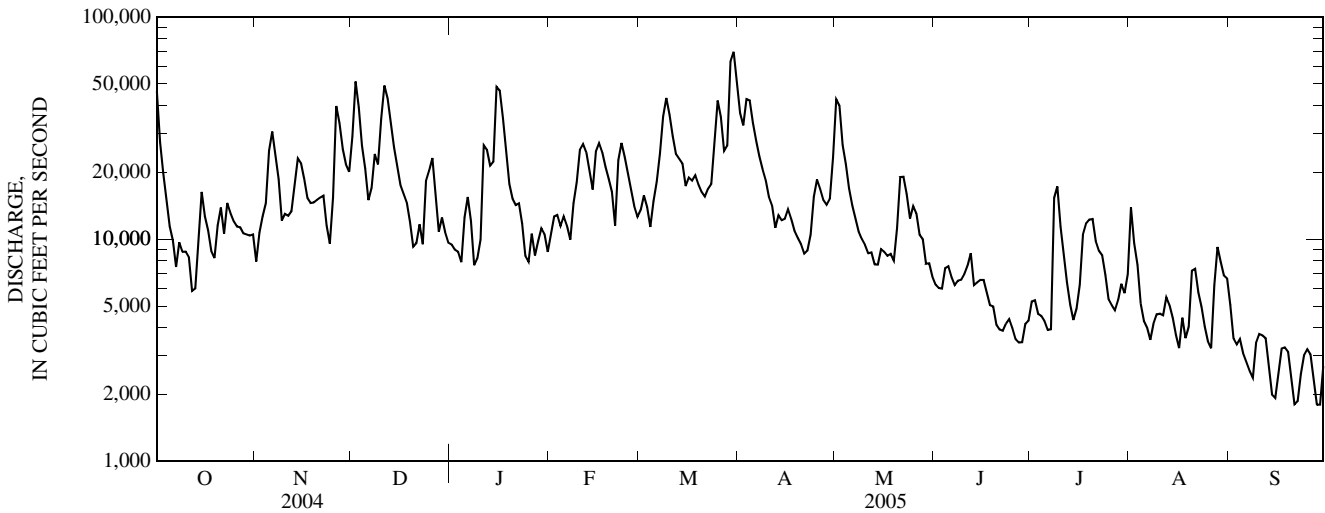
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 5,894 | 9,164 | 12,970 | 15,980 | 20,130 | 23,520 | 18,020 | 14,640 | 9,309 | 6,412 | 5,889 | 4,969 |
| MAX | 24,980 | 35,220 | 29,690 | 38,490 | 42,410 | 50,300 | 50,240 | 29,510 | 30,120 | 16,040 | 23,350 | 18,960 |
| (WY) | (1977) | (2004) | (1973) | (1996) | (1957) | (1955) | (1987) | (1996) | (2003) | (2001) | (1940) | (2004) |
| MIN | 1,452 | 1,669 | 2,174 | 2,412 | 5,457 | 7,583 | 5,065 | 4,051 | 2,450 | 2,167 | 1,945 | 1,510 |
| (WY) | (1954) | (1954) | (1966) | (1940) | (2002) | (1988) | (1986) | (1941) | (1999) | (1966) | (1944) | (1953) |

03193000 KANAWHA RIVER AT KANAWHA FALLS, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1939 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 6,111,310 | | 5,088,860 | | 12,200 | |
| ANNUAL MEAN | 16,700 | | 13,940 | | 19,960 | |
| HIGHEST ANNUAL MEAN | | | | | 1988 | |
| LOWEST ANNUAL MEAN | | | | | 1988 | |
| HIGHEST DAILY MEAN | 84,900 | Apr 14 | 69,700 | Mar 30 | 163,000 | Aug 15, 1940 |
| LOWEST DAILY MEAN | 2,320 | Aug 29 | 1,800 | (a) | 970 | Sep 30, 1953 |
| ANNUAL SEVEN-DAY MINIMUM | 2,570 | Aug 28 | 2,520 | Sep 23 | 1,230 | Sep 23, 1963 |
| MAXIMUM PEAK FLOW | | | 81,400 | Mar 29 | 248,000 | Aug 15, 1940 |
| MAXIMUM PEAK STAGE | | | 15.42 | Mar 29 | (b)29.60 | Aug 15, 1940 |
| INSTANTANEOUS LOW FLOW | | | 1,380 | Sep 23 | (c) | (c) |
| 10 PERCENT EXCEEDS | 35,300 | | 26,600 | | 27,000 | |
| 50 PERCENT EXCEEDS | 13,100 | | 11,300 | | 7,640 | |
| 90 PERCENT EXCEEDS | 4,500 | | 3,700 | | 2,590 | |

a Sept. 28, 29.
 b 31.60 ft gage height at current datum.
 c Not determined.



STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1877 - 1938, BY WATER YEAR (WY) [UNREGULATED]

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| MEAN | 6,529 | 8,513 | 12,670 | 19,170 | 21,700 | 24,400 | 19,440 | 14,670 | 10,260 | 7,556 | 6,486 | 5,279 |
| MAX (WY) | 23,470 (1938) | 23,460 (1878) | 34,030 (1902) | 38,890 (1882) | 52,880 (1884) | 52,620 (1899) | 46,930 (1901) | 38,140 (1901) | 35,870 (1901) | 20,210 (1916) | 22,440 (1901) | 21,070 (1888) |
| MIN (WY) | 1,133 (1931) | 1,514 (1923) | 2,691 (1931) | 5,600 (1931) | 3,181 (1934) | 10,160 (1925) | 8,151 (1915) | 4,797 (1930) | 2,546 (1930) | 1,290 (1930) | 1,394 (1925) | 1,308 (1930) |

SUMMARY STATISTICS

| | |
|--------------------------|------------|
| ANNUAL MEAN | 13,020 |
| HIGHEST ANNUAL MEAN | 21,210 |
| LOWEST ANNUAL MEAN | 7,591 |
| HIGHEST DAILY MEAN | 266,000 |
| LOWEST DAILY MEAN | 690 |
| ANNUAL SEVEN-DAY MINIMUM | 984 |
| INSTANTANEOUS PEAK FLOW | (*)320,000 |
| INSTANTANEOUS PEAK STAGE | (#)37.80 |
| INSTANTANEOUS LOW FLOW | 640 |
| 10 PERCENT EXCEEDS | 27,900 |
| 50 PERCENT EXCEEDS | 8,330 |
| 90 PERCENT EXCEEDS | 2,550 |

WATER YEARS 1877 - 1938

| | |
|------------|--------------|
| 13,020 | |
| 21,210 | 1901 |
| 7,591 | 1904 |
| 266,000 | May 23, 1901 |
| 690 | Oct 29, 1921 |
| 984 | Oct 7, 1930 |
| (*)320,000 | Sep 14, 1878 |
| (#)37.80 | Sep 14, 1878 |
| 640 | Aug 15, 1930 |
| 27,900 | |
| 8,330 | |
| 2,550 | |

* From gage-height relationship and rating curve extended above 150,000 ft³/s.
 # Site then in use, 39.80 ft gage height at current datum.

03194700 ELK RIVER BELOW WEBSTER SPRINGS, WV

LOCATION.--Lat 38°35'50", long 80°29'26", NAD 27, Webster County, Hydrologic Unit 05050007, on right bank 200 ft upstream from bridge on County Highway 7, 6.5 mi upstream from town of Centralia, 8.9 mi southwest of Salisburg Station, 8.9 mi northwest of Webster Springs, and at mile 125.2.

DRAINAGE AREA.--266 mi².

PERIOD OF RECORD.--October 1929 to September 1959 (estimated annual maximum discharge only), October 1959 to September 1983, October 1985 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is approximately 1,020.1 ft above NGVD 29, from barometric leveling.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1861, probably in September, reached a stage of 26.34 ft and flood of July 26, 1896, reached a stage of 25.87 ft, present datum, at site 0.2 mi upstream, from levels to floodmarks pointed out by a local resident.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Mar 24 | 0300 | *10,400 | *10.06 | No other peak greater than base discharge. | | | |

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 | 639 | 432 | 2,160 | 343 | 309 | 517 | 1,090 | 4,220 | 253 | 93 | 447 | 182 |
| 2 | 437 | 378 | 2,200 | 381 | 309 | 460 | 1,490 | 2,210 | 218 | 87 | 321 | 194 |
| 3 | 360 | 406 | 1,390 | 371 | 320 | 400 | 1,980 | 1,360 | 201 | 76 | 197 | 140 |
| 4 | 301 | 1,330 | 952 | 731 | 333 | 354 | 1,760 | 910 | 193 | 59 | 141 | 106 |
| 5 | 246 | 2,680 | 705 | 1,610 | 315 | 422 | 1,800 | 672 | 184 | 44 | 107 | 84 |
| 6 | 206 | 1,520 | 576 | 1,610 | 310 | 433 | 1,410 | 536 | 161 | 38 | 85 | 69 |
| 7 | 178 | 989 | 645 | 1,600 | 376 | 584 | 1,050 | 457 | 164 | 44 | 93 | 58 |
| 8 | 155 | 703 | 872 | 1,480 | 617 | 2,740 | 2,130 | 420 | 159 | 1,470 | 107 | 50 |
| 9 | 137 | 522 | 868 | 1,480 | 1,150 | 2,010 | 1,650 | 361 | 130 | 741 | 94 | 43 |
| 10 | 124 | 419 | 1,520 | 1,120 | 2,400 | 1,250 | 1,110 | 317 | 144 | 403 | 81 | 38 |
| 11 | 112 | 357 | 2,020 | 839 | 1,680 | 918 | 815 | 296 | 151 | 241 | 117 | 34 |
| 12 | 105 | 454 | 2,080 | 681 | 1,130 | 758 | 640 | 286 | 121 | 161 | 96 | 31 |
| 13 | 104 | 868 | 1,460 | 575 | 847 | 651 | 524 | 253 | 107 | 142 | 71 | 28 |
| 14 | 121 | 755 | 1,070 | 1,760 | 921 | 554 | 435 | 234 | 93 | 316 | 58 | 26 |
| 15 | 149 | 615 | 815 | 1,800 | 1,830 | 528 | 366 | 335 | 87 | 417 | 52 | 24 |
| 16 | 160 | 510 | 656 | 1,190 | 1,520 | 543 | 322 | 460 | 79 | 456 | 62 | 22 |
| 17 | 221 | 434 | 581 | 882 | 1,370 | 518 | 291 | 361 | 72 | 457 | 105 | 21 |
| 18 | 267 | 412 | 514 | 630 | 993 | 513 | 267 | 311 | 67 | 435 | 122 | 19 |
| 19 | 236 | 521 | 474 | 518 | 742 | 616 | 250 | 275 | 63 | 537 | 98 | 18 |
| 20 | 286 | 916 | 413 | 484 | 612 | 881 | 233 | 1,030 | 58 | 781 | 113 | 17 |
| 21 | 558 | 928 | 370 | 420 | 615 | 977 | 218 | 1,870 | 53 | 509 | 129 | 16 |
| 22 | 449 | 787 | 402 | 372 | 2,280 | 894 | 231 | 1,160 | 50 | 769 | 105 | 16 |
| 23 | 362 | 657 | 1,400 | 335 | 1,550 | 1,660 | 365 | 819 | 48 | 475 | 79 | 17 |
| 24 | 484 | 583 | 2,280 | 294 | 1,120 | 6,670 | 630 | 782 | 46 | 322 | 62 | 15 |
| 25 | 1,040 | 1,450 | 1,340 | 313 | 861 | 2,630 | 694 | 954 | 41 | 240 | 51 | 15 |
| 26 | 713 | 1,530 | 922 | 305 | 667 | 1,690 | 1,250 | 844 | 37 | 205 | 45 | 20 |
| 27 | 539 | 1,080 | 690 | 303 | 551 | 1,490 | 1,550 | 663 | 33 | 174 | 66 | 20 |
| 28 | 475 | 1,170 | 507 | 300 | 504 | 3,230 | 1,180 | 522 | 31 | 152 | 179 | 22 |
| 29 | 439 | 1,160 | 465 | 274 | --- | 4,180 | 862 | 439 | 40 | 190 | 231 | 39 |
| 30 | 529 | 893 | 405 | 293 | --- | 2,470 | 2,300 | 355 | 80 | 164 | 174 | 37 |
| 31 | 503 | --- | 363 | 313 | --- | 1,550 | --- | 300 | --- | 267 | 129 | --- |
| TOTAL | 10,635 | 25,459 | 31,115 | 23,607 | 26,232 | 43,091 | 28,893 | 24,012 | 3,164 | 10,465 | 3,817 | 1,421 |
| MEAN | 343 | 849 | 1,004 | 762 | 937 | 1,390 | 963 | 775 | 105 | 338 | 123 | 47.4 |
| MAX | 1,040 | 2,680 | 2,280 | 1,800 | 2,400 | 6,670 | 2,300 | 4,220 | 253 | 1,470 | 447 | 194 |
| MIN | 104 | 357 | 363 | 274 | 309 | 354 | 218 | 234 | 31 | 38 | 45 | 15 |
| CFSM | 1.29 | 3.19 | 3.77 | 2.86 | 3.52 | 5.23 | 3.62 | 2.91 | 0.40 | 1.27 | 0.46 | 0.18 |
| IN. | 1.49 | 3.56 | 4.35 | 3.30 | 3.67 | 6.03 | 4.04 | 3.36 | 0.44 | 1.46 | 0.53 | 0.20 |

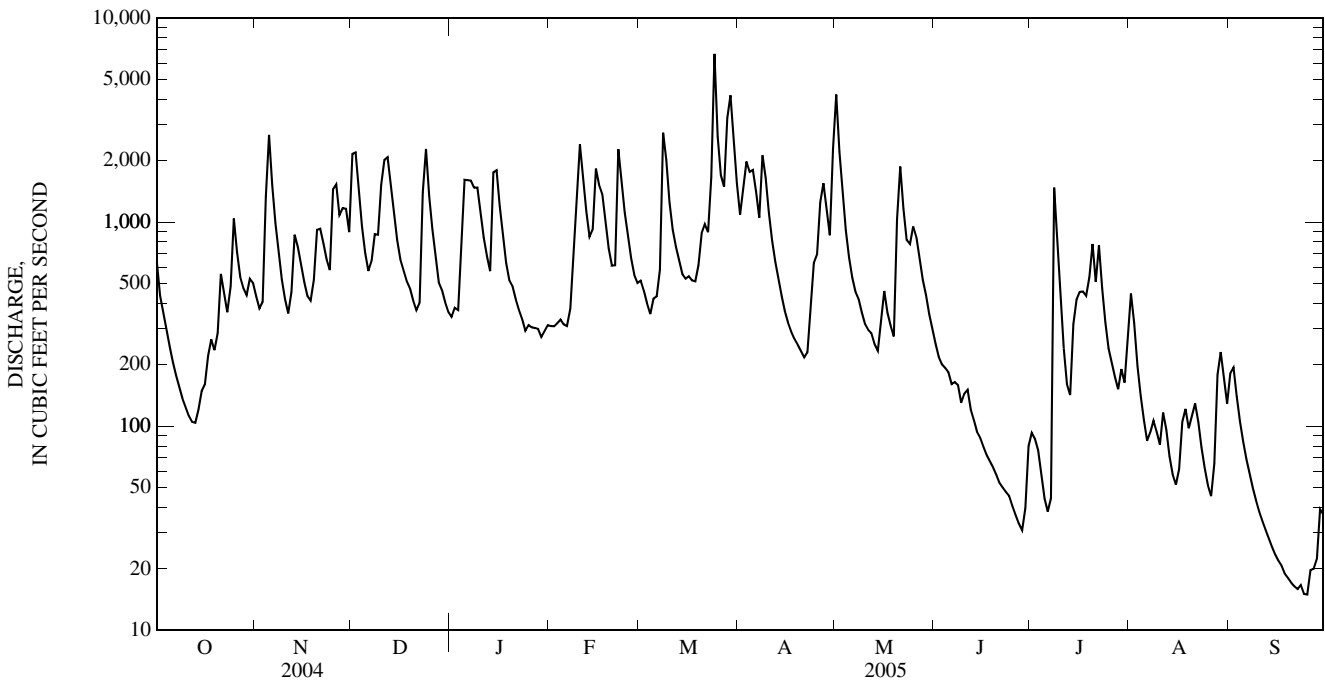
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 330 | 687 | 886 | 890 | 1,037 | 1,337 | 1,047 | 799 | 471 | 358 | 301 | 234 |
| MAX | 1,376 | 2,293 | 1,940 | 1,866 | 2,124 | 2,820 | 1,784 | 2,077 | 1,435 | 958 | 1,171 | 1,090 |
| (WY) | (1977) | (1986) | (1973) | (1996) | (1994) | (1963) | (2002) | (1996) | (1974) | (1996) | (1989) | (2003) |
| MIN | 15.1 | 45.1 | 199 | 202 | 227 | 731 | 312 | 137 | 48.9 | 31.6 | 23.3 | 16.4 |
| (WY) | (1964) | (2002) | (1966) | (1977) | (1978) | (2000) | (1963) | (1964) | (1965) | (1999) | (1993) | (1999) |

03194700 ELK RIVER BELOW WEBSTER SPRINGS, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1960 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 277,999 | | 231,911 | | 695 | |
| ANNUAL MEAN | 760 | | 635 | | 415 | |
| HIGHEST ANNUAL MEAN | | | | | 997 | 1996 |
| LOWEST ANNUAL MEAN | | | | | 415 | 1999 |
| HIGHEST DAILY MEAN | 7,160 | May 28 | 6,670 | Mar 24 | 15,200 | Apr 26, 1989 |
| LOWEST DAILY MEAN | 29 | Sep 6 | 15 | (a) | 4.9 | Sep 12, 1995 |
| ANNUAL SEVEN-DAY MINIMUM | 43 | Sep 2 | 16 | Sep 19 | 5.2 | Sep 9, 1995 |
| MAXIMUM PEAK FLOW | | | 10,400 | Mar 24 | (b)38,000 | Nov 4, 1985 |
| MAXIMUM PEAK STAGE | | | 10.06 | Mar 24 | (c)17.20 | Nov 4, 1985 |
| INSTANTANEOUS LOW FLOW | | | 14 | Sep 25 | 4.8 | (d) |
| ANNUAL RUNOFF (CFSM) | 2.86 | | 2.39 | | 2.61 | |
| ANNUAL RUNOFF (INCHES) | 38.88 | | 32.43 | | 35.51 | |
| 10 PERCENT EXCEEDS | 1,780 | | 1,540 | | 1,630 | |
| 50 PERCENT EXCEEDS | 474 | | 419 | | 388 | |
| 90 PERCENT EXCEEDS | 71 | | 52 | | 59 | |

- a Sept. 24, 25.
- b From rating curve extended above 24,000 ft³/s.
- c From floodmarks.
- d Sept. 11-13, 1995.



03197000 ELK RIVER AT QUEEN SHOALS, WV

LOCATION.--Lat 38°28'15", long 81°17'03", NAD 27, Kanawha County, Hydrologic Unit 05050007, on right bank 50 ft upstream from Queen Shoals Creek, 100 ft downstream from highway bridge at Queen Shoals, 4.0 mi upstream from Big Sandy Creek, and at mile 26.2. Records include flow of Queen Shoals Creek.

DRAINAGE AREA.--1,145 mi², includes that of Queen Shoals Creek.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October, November 1928, published in WSP 1305.

REVISED RECORDS.--WSP 783: Drainage area. WSP 1335: 1929-32, 1935(M), 1936, 1939, 1943(M). WDR WV-04-1: 1981-2003(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 604.09 ft above NGVD 29. Prior to June 19, 1932, nonrecording gage. June 19, 1932, to Sept. 30, 1946, water-stage recorder, at bridge 100 ft upstream at same datum.

REMARKS.--Records good except those above 10,000 ft³/s, which are fair. Flow regulated since April 1959 by Sutton Lake.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 9,440 ft³/s, Mar. 9, gage height, 9.98 ft.

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 | 3,580 | 1,590 | 5,100 | 1,310 | 1,960 | 5,140 | 5,930 | 8,460 | 876 | 265 | 257 | 777 |
| 2 | 2,040 | 1,460 | 5,790 | 1,230 | 2,100 | 4,160 | 4,000 | 9,100 | 825 | 265 | 259 | 420 |
| 3 | 1,340 | 1,280 | 5,840 | 1,150 | 2,040 | 3,510 | 4,920 | 7,010 | 804 | 202 | 483 | 270 |
| 4 | 1,090 | 1,990 | 5,110 | 1,100 | 1,900 | 2,920 | 5,100 | 4,440 | 731 | 177 | 512 | 221 |
| 5 | 985 | 5,430 | 3,670 | 1,930 | 1,710 | 2,790 | 6,030 | 2,830 | 513 | 160 | 402 | 194 |
| 6 | 757 | 5,330 | 2,670 | 3,460 | 1,640 | 3,770 | 6,000 | 2,100 | 453 | 149 | 357 | 177 |
| 7 | 713 | 5,000 | 2,130 | 3,370 | 1,620 | 3,680 | 3,910 | 1,810 | 436 | 147 | 349 | 163 |
| 8 | 661 | 4,260 | 2,090 | 2,780 | 1,710 | 5,670 | 4,960 | 1,620 | 387 | 311 | 307 | 153 |
| 9 | 626 | 3,480 | 2,070 | 3,240 | 2,010 | 9,100 | 6,120 | 1,410 | 331 | 2,530 | 227 | 145 |
| 10 | 537 | 2,270 | 3,670 | 2,440 | 3,040 | 7,660 | 5,340 | 1,230 | 264 | 2,150 | 185 | 145 |
| 11 | 514 | 1,540 | 5,890 | 4,200 | 4,540 | 5,930 | 3,770 | 1,100 | 275 | 1,000 | 160 | 151 |
| 12 | 501 | 1,920 | 7,740 | 5,000 | 4,770 | 4,280 | 2,610 | 795 | 273 | 602 | 153 | 148 |
| 13 | 523 | 3,200 | 6,790 | 4,390 | 3,790 | 3,640 | 2,010 | 750 | 275 | 407 | 146 | 141 |
| 14 | 1,230 | 3,570 | 5,480 | 5,610 | 3,340 | 3,590 | 1,290 | 983 | 255 | 358 | 137 | 139 |
| 15 | 2,190 | 3,220 | 3,870 | 6,670 | 3,310 | 3,830 | 968 | 1,270 | 250 | 337 | 130 | 158 |
| 16 | 2,370 | 2,520 | 2,830 | 5,750 | 4,330 | 3,060 | 816 | 1,090 | 296 | 281 | 157 | 287 |
| 17 | 2,190 | 2,080 | 2,450 | 4,860 | 4,540 | 2,930 | 726 | 1,050 | 282 | 704 | 167 | 296 |
| 18 | 1,920 | 1,930 | 2,180 | 4,230 | 3,660 | 2,810 | 673 | 1,140 | 259 | 942 | 162 | 322 |
| 19 | 2,030 | 2,570 | 1,880 | 3,390 | 2,770 | 2,600 | 644 | 879 | 215 | 1,010 | 189 | 294 |
| 20 | 2,150 | 4,870 | 1,580 | 2,560 | 2,440 | 2,490 | 613 | 3,080 | 177 | 1,350 | 183 | 286 |
| 21 | 2,720 | 5,940 | 1,400 | 2,090 | 2,160 | 2,980 | 583 | 4,620 | 158 | 1,700 | 237 | 267 |
| 22 | 2,350 | 4,680 | 1,500 | 1,770 | 3,040 | 3,130 | 572 | 4,920 | 156 | 1,470 | 308 | 226 |
| 23 | 1,450 | 3,560 | 1,620 | 2,110 | 4,820 | 2,900 | 687 | 3,180 | 165 | 1,380 | 251 | 226 |
| 24 | 1,410 | 2,820 | 2,340 | 1,790 | 4,910 | 5,360 | 1,200 | 2,460 | 167 | 1,450 | 173 | 261 |
| 25 | 2,180 | 2,640 | 3,390 | 1,650 | 4,280 | 8,560 | 3,280 | 2,430 | 153 | 968 | 145 | 302 |
| 26 | 3,110 | 2,910 | 3,710 | 1,570 | 2,980 | 8,270 | 4,260 | 2,210 | 147 | 805 | 158 | 303 |
| 27 | 2,540 | 4,070 | 3,360 | 1,870 | 2,510 | 6,010 | 4,990 | 2,030 | 142 | 757 | 313 | 307 |
| 28 | 2,070 | 4,290 | 3,050 | 1,790 | 2,810 | 5,520 | 5,050 | 1,900 | 138 | 613 | 496 | 298 |
| 29 | 1,900 | 3,450 | 1,950 | 1,700 | --- | 7,970 | 3,490 | 1,480 | 146 | 519 | 646 | 274 |
| 30 | 1,600 | 3,090 | 1,060 | 1,680 | --- | 8,990 | 4,870 | 1,010 | 184 | 364 | 1,940 | 235 |
| 31 | 1,530 | --- | 1,330 | 1,770 | --- | 8,210 | --- | 931 | --- | 283 | 1,500 | --- |
| TOTAL | 50,807 | 96,960 | 103,540 | 88,460 | 84,730 | 151,460 | 95,412 | 79,318 | 9,733 | 23,656 | 11,089 | 7,586 |
| MEAN | 1,639 | 3,232 | 3,340 | 2,854 | 3,026 | 4,886 | 3,180 | 2,559 | 324 | 763 | 358 | 253 |
| MAX | 3,580 | 5,940 | 7,740 | 6,670 | 4,910 | 9,100 | 6,120 | 9,100 | 876 | 2,530 | 1,940 | 777 |
| MIN | 501 | 1,280 | 1,060 | 1,100 | 1,620 | 2,490 | 572 | 750 | 138 | 147 | 130 | 139 |

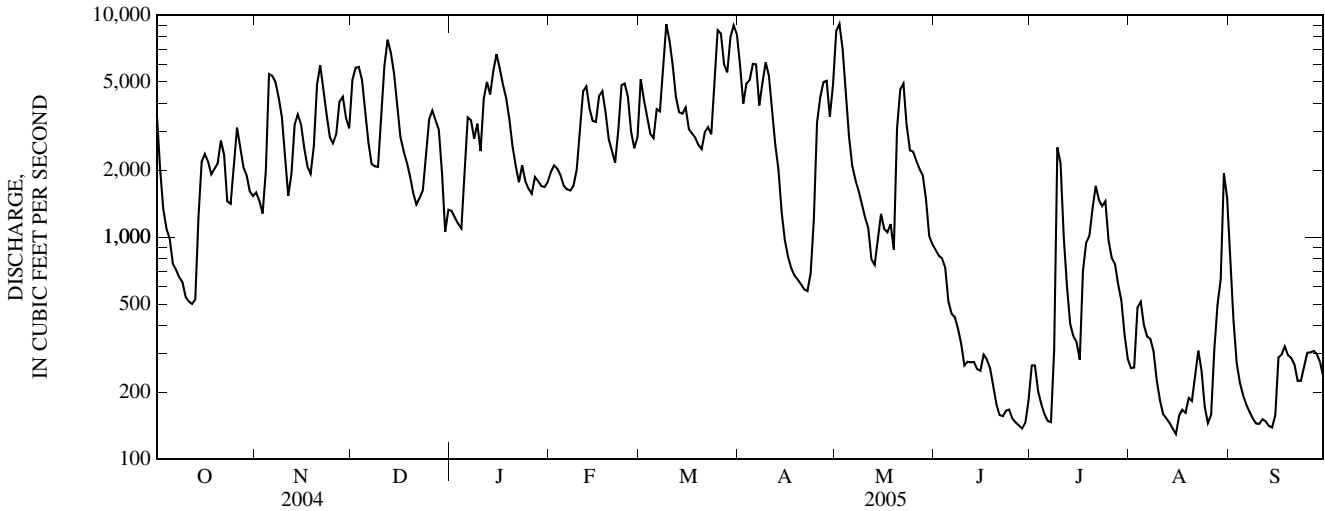
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 1,018 | 2,092 | 2,837 | 2,995 | 3,535 | 4,164 | 2,857 | 2,624 | 1,376 | 884 | 909 | 685 |
| MAX | 5,017 | 6,700 | 7,402 | 6,743 | 7,296 | 9,051 | 5,649 | 6,601 | 4,745 | 2,735 | 3,487 | 3,072 |
| (WY) | (1977) | (2004) | (1973) | (1994) | (1994) | (1967) | (1987) | (1989) | (1981) | (1992) | (1972) | (1971) |
| MIN | 142 | 352 | 244 | 594 | 955 | 1,633 | 562 | 409 | 132 | 120 | 83.7 | 111 |
| (WY) | (1959) | (2002) | (1966) | (1977) | (2002) | (1987) | (1963) | (1964) | (1965) | (1964) | (1965) | (1959) |

03197000 ELK RIVER AT QUEEN SHOALS, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1959 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 942,419 | | 802,751 | | | |
| ANNUAL MEAN | 2,575 | | 2,199 | | 2,159 | |
| HIGHEST ANNUAL MEAN | | | | | 3,249 | 1994 |
| LOWEST ANNUAL MEAN | | | | | 1,063 | 1966 |
| HIGHEST DAILY MEAN | 14,900 | Apr 14 | 9,100 | (a) | 35,300 | Mar 15, 1967 |
| LOWEST DAILY MEAN | 136 | Sep 7 | 130 | Aug 15 | 9.0 | Sep 27, 1959 |
| ANNUAL SEVEN-DAY MINIMUM | 156 | Sep 1 | 146 | Sep 8 | 12 | Sep 24, 1959 |
| MAXIMUM PEAK FLOW | | | 9,440 | Mar 9 | (b)47,000 | Mar 2, 1997 |
| MAXIMUM PEAK STAGE | | | 9.98 | Mar 9 | 25.36 | Mar 2, 1997 |
| INSTANTANEOUS LOW FLOW | | | 126 | Aug 15 | (c) | (c) |
| 10 PERCENT EXCEEDS | 5,990 | | 5,070 | | 5,590 | |
| 50 PERCENT EXCEEDS | 1,840 | | 1,710 | | 1,150 | |
| 90 PERCENT EXCEEDS | 280 | | 184 | | 225 | |

a Mar. 9, May 2.
 b From rating curve extended above 40,000 ft³/s.
 c Not determined.



STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1958, BY WATER YEAR (WY) [UNREGULATED]

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 557 | 1,093 | 2,233 | 3,130 | 3,578 | 4,210 | 2,995 | 2,149 | 1,061 | 1,279 | 980 | 408 |
| MAX | 3,510 | 3,488 | 5,245 | 6,482 | 7,715 | 7,339 | 5,307 | 4,352 | 3,111 | 6,268 | 4,453 | 2,398 |
| (WY) | (1938) | (1930) | (1943) | (1937) | (1939) | (1936) | (1958) | (1940) | (1932) | (1958) | (1950) | |
| MIN | 3.46 | 7.50 | 204 | 402 | 759 | 2,154 | 799 | 384 | 113 | 17.1 | 13.1 | 7.21 |
| (WY) | (1931) | (1931) | (1931) | (1940) | (1934) | (1937) | (1942) | (1930) | (1936) | (1930) | (1930) | (1930) |

| SUMMARY STATISTICS | WATER YEARS 1929 - 1958 | |
|--------------------------|-------------------------|--------------|
| ANNUAL MEAN | 1,967 | |
| HIGHEST ANNUAL MEAN | 2,821 | 1950 |
| LOWEST ANNUAL MEAN | 1,214 | 1941 |
| HIGHEST DAILY MEAN | 58,100 | Jul 5, 1932 |
| LOWEST DAILY MEAN | .30 | (*) |
| ANNUAL SEVEN-DAY MINIMUM | .86 | Oct 30, 1953 |
| INSTANTANEOUS PEAK FLOW | (#)72,000 | Jul 5, 1932 |
| INSTANTANEOUS PEAK STAGE | 29.20 | Jul 5, 1932 |
| INSTANTANEOUS LOW FLOW | .30 | (&) |
| 10 PERCENT EXCEEDS | 4,650 | |
| 50 PERCENT EXCEEDS | 955 | |
| 90 PERCENT EXCEEDS | 90 | |

* Nov. 3, 4, 1953.
 # From rating curve extended above 40,000 ft³/s.
 & Nov. 4, 5, 1953.

03197910 UNNAMED TRIBUTARY TO ELK TWOMILE CREEK NEAR CHARLESTON, WV
(Detention Reservoir)

LOCATION.--Lat 38°21'39", long 81°30'46", NAD 83, Kanawha County, Hydrologic Unit 05050007.

DAM NAME.--Elk Twomile No. 14.

SURFACE AREA.--3.4 acres.

DRAINAGE AREA.--0.65 mi².

PERIOD OF RECORD.--May 2004 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 831.67 ft above NGVD 29.

REMARKS.-- Normal Pool = 40.13 ft (Normal Storage = 39.8 acre-ft)

Top of Riser = 50.00 ft

Emergency Spillway = 57.73 ft

Top of Dam = 66.03 ft

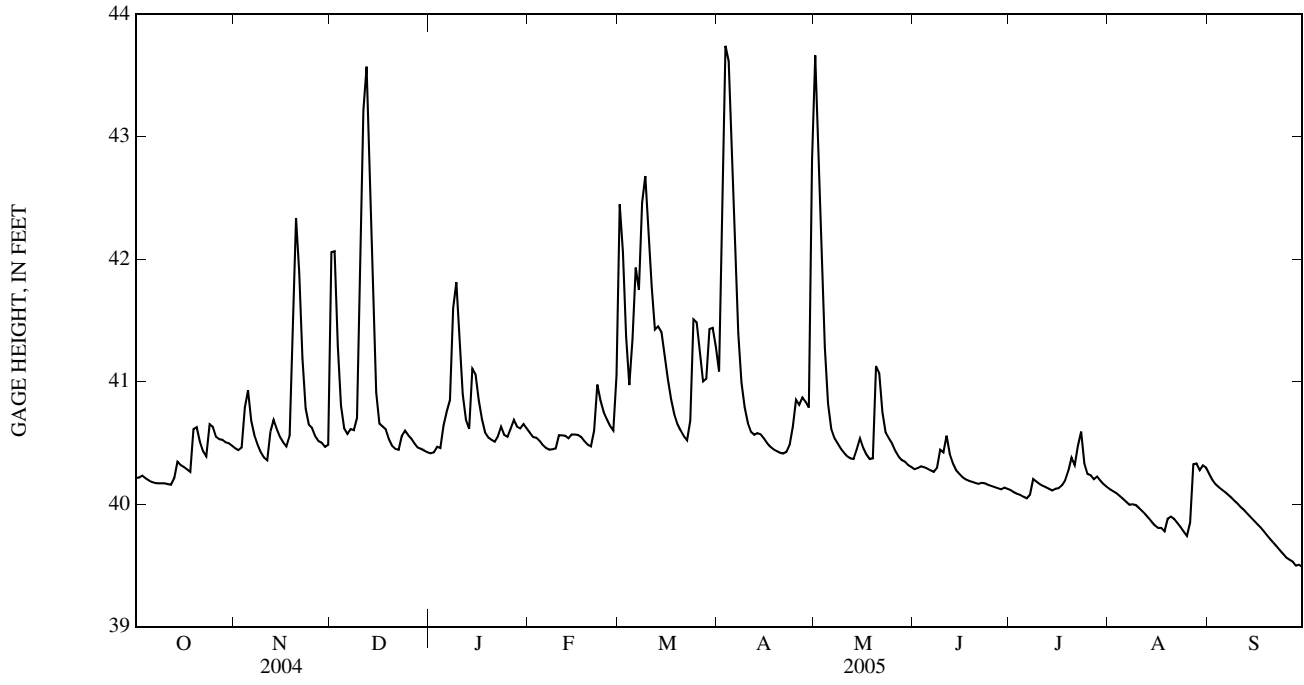
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 48.26 ft, Sept. 18, 2004; minimum gage height, 39.47 ft, Sept. 30, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 43.94 ft, Apr. 3; minimum gage height, 39.47 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 40.21 | 40.46 | 42.06 | 40.41 | 40.58 | 42.45 | 41.08 | 43.66 | 40.29 | 40.11 | 40.12 | 40.25 |
| 2 | 40.22 | 40.44 | 42.06 | 40.42 | 40.55 | 42.06 | 42.14 | 42.88 | 40.29 | 40.10 | 40.11 | 40.20 |
| 3 | 40.23 | 40.46 | 41.29 | 40.47 | 40.54 | 41.37 | 43.74 | 42.00 | 40.31 | 40.08 | 40.09 | 40.16 |
| 4 | 40.21 | 40.79 | 40.80 | 40.46 | 40.52 | 40.97 | 43.62 | 41.28 | 40.30 | 40.08 | 40.07 | 40.14 |
| 5 | 40.20 | 40.93 | 40.62 | 40.64 | 40.48 | 41.35 | 42.85 | 40.82 | 40.29 | 40.06 | 40.04 | 40.12 |
| 6 | 40.18 | 40.68 | 40.57 | 40.76 | 40.46 | 41.93 | 42.04 | 40.62 | 40.28 | 40.05 | 40.02 | 40.10 |
| 7 | 40.17 | 40.56 | 40.61 | 40.85 | 40.44 | 41.75 | 41.39 | 40.54 | 40.26 | 40.08 | 40.00 | 40.07 |
| 8 | 40.17 | 40.49 | 40.60 | 41.60 | 40.45 | 42.46 | 40.99 | 40.50 | 40.30 | 40.21 | 40.00 | 40.05 |
| 9 | 40.17 | 40.42 | 40.70 | 41.81 | 40.46 | 42.68 | 40.79 | 40.45 | 40.45 | 40.18 | 39.99 | 40.02 |
| 10 | 40.17 | 40.38 | 41.53 | 41.31 | 40.56 | 42.27 | 40.66 | 40.42 | 40.42 | 40.16 | 39.97 | 40.00 |
| 11 | 40.16 | 40.36 | 43.22 | 40.89 | 40.56 | 41.78 | 40.59 | 40.39 | 40.56 | 40.15 | 39.94 | 39.97 |
| 12 | 40.16 | 40.59 | 43.57 | 40.69 | 40.56 | 41.43 | 40.57 | 40.37 | 40.41 | 40.14 | 39.92 | 39.95 |
| 13 | 40.21 | 40.69 | 42.64 | 40.62 | 40.54 | 41.45 | 40.58 | 40.37 | 40.33 | 40.12 | 39.89 | 39.92 |
| 14 | 40.35 | 40.61 | 41.59 | 41.11 | 40.57 | 41.41 | 40.57 | 40.45 | 40.28 | 40.11 | 39.86 | 39.89 |
| 15 | 40.32 | 40.55 | 40.91 | 41.06 | 40.57 | 41.22 | 40.54 | 40.54 | 40.25 | 40.13 | 39.83 | 39.86 |
| 16 | 40.30 | 40.51 | 40.66 | 40.85 | 40.57 | 41.02 | 40.50 | 40.46 | 40.22 | 40.13 | 39.81 | 39.84 |
| 17 | 40.28 | 40.47 | 40.63 | 40.69 | 40.55 | 40.86 | 40.47 | 40.41 | 40.20 | 40.15 | 39.81 | 39.81 |
| 18 | 40.26 | 40.56 | 40.61 | 40.59 | 40.51 | 40.73 | 40.45 | 40.37 | 40.19 | 40.19 | 39.78 | 39.78 |
| 19 | 40.61 | 41.38 | 40.53 | 40.54 | 40.49 | 40.65 | 40.43 | 40.37 | 40.18 | 40.27 | 39.88 | 39.75 |
| 20 | 40.63 | 42.34 | 40.48 | 40.53 | 40.47 | 40.60 | 40.42 | 41.13 | 40.17 | 40.38 | 39.90 | 39.72 |
| 21 | 40.51 | 41.89 | 40.45 | 40.51 | 40.60 | 40.55 | 40.41 | 41.07 | 40.16 | 40.32 | 39.88 | 39.69 |
| 22 | 40.43 | 41.19 | 40.44 | 40.55 | 40.98 | 40.52 | 40.43 | 40.75 | 40.17 | 40.48 | 39.85 | 39.66 |
| 23 | 40.39 | 40.78 | 40.56 | 40.63 | 40.85 | 40.68 | 40.48 | 40.59 | 40.17 | 40.59 | 39.81 | 39.62 |
| 24 | 40.65 | 40.65 | 40.60 | 40.56 | 40.75 | 41.51 | 40.63 | 40.54 | 40.16 | 40.33 | 39.78 | 39.60 |
| 25 | 40.63 | 40.62 | 40.56 | 40.55 | 40.69 | 41.49 | 40.85 | 40.49 | 40.15 | 40.25 | 39.74 | 39.56 |
| 26 | 40.55 | 40.56 | 40.53 | 40.62 | 40.64 | 41.24 | 40.81 | 40.43 | 40.14 | 40.24 | 39.85 | 39.55 |
| 27 | 40.53 | 40.52 | 40.49 | 40.69 | 40.60 | 41.00 | 40.87 | 40.39 | 40.13 | 40.20 | 40.33 | 39.53 |
| 28 | 40.53 | 40.50 | 40.46 | 40.63 | 41.05 | 41.02 | 40.84 | 40.36 | 40.12 | 40.23 | 40.33 | 39.50 |
| 29 | 40.51 | 40.47 | 40.45 | 40.62 | --- | 41.43 | 40.79 | 40.35 | 40.14 | 40.19 | 40.28 | 39.51 |
| 30 | 40.50 | 40.49 | 40.44 | 40.65 | --- | 41.44 | 42.81 | 40.32 | 40.12 | 40.16 | 40.32 | 39.49 |
| 31 | 40.48 | --- | 40.42 | 40.62 | --- | 41.28 | --- | 40.30 | --- | 40.14 | 40.30 | --- |
| MEAN | 40.35 | 40.71 | 41.00 | 40.74 | 40.59 | 41.37 | 41.11 | 40.76 | 40.25 | 40.19 | 39.98 | 39.84 |
| MAX | 40.65 | 42.34 | 43.57 | 41.81 | 41.05 | 42.68 | 43.74 | 43.66 | 40.56 | 40.59 | 40.33 | 40.25 |
| MIN | 40.16 | 40.36 | 40.42 | 40.41 | 40.44 | 40.52 | 40.41 | 40.30 | 40.12 | 40.05 | 39.74 | 39.49 |

03197910 UNNAMED TRIBUTARY TO ELK TWOMILE CREEK NEAR CHARLESTON, WV—Continued



03198000 KANAWHA RIVER AT CHARLESTON, WV

LOCATION.--Lat 38°22'17", long 81°42'08", NAD 27, Kanawha County, Hydrologic Unit 05050008, on left bank at old lock 6, 1.0 mi upstream from Davis Creek, 1.5 mi downstream from Twomile Creek, 2.0 mi downstream from Patrick Street Bridge at Charleston, 3.5 mi downstream from Elk River, and at mile 54.5.

DRAINAGE AREA.--10,448 mi².

PERIOD OF RECORD.--June 1939 to current year. Monthly discharge only September 1939 to February 1940, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1943.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 548.00 ft above NGVD 29 (levels by U.S. Army Corps of Engineers). Auxiliary water-stage recorder 2.3 mi upstream from base gage at datum 547.00 ft, U.S. Army Corps of Engineers datum. Prior to Oct. 1, 1955, auxiliary gages at different sites and datum.

REMARKS.--Records good above 30,000 ft³/s, fair 10,000 to 30,000 ft³/s, and poor less than 10,000 ft³/s. The rating lacks sensitivity at flows less than 10,000 ft³/s, and records for flows less than 10,000 ft³/s are estimated based on stations 03193000 Kanawha River at Kanawha Falls, 03197000 Elk River at Queen Shoals, and 03200500 Coal River at Tornado. Flow regulated since 1939 by increasing number of reservoirs upstream from station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1861, reached a stage of about 54.3 ft.

PEAK DISCHARGE FOR CURRENT YEAR.--Maximum discharge, 86,300 ft³/s, Mar. 30, gage height, 27.81 ft.

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 | 52,900 | e10,700 | 36,400 | 13,800 | 16,000 | 27,200 | 48,900 | 55,700 | e7,970 | e5,700 | 15,700 | e6,620 |
| 2 | 31,200 | 10,100 | 58,500 | 12,100 | 18,200 | 26,200 | 42,600 | 55,700 | e7,640 | e5,700 | e9,460 | e4,590 |
| 3 | 21,100 | 12,900 | 51,600 | 10,900 | 16,900 | 22,800 | 54,600 | 38,400 | e7,650 | e4,990 | 10,800 | e4,030 |
| 4 | 17,200 | 17,800 | 35,700 | 10,200 | 15,000 | 17,500 | 54,100 | 30,500 | 10,300 | e4,710 | e6,100 | e4,070 |
| 5 | 11,900 | 31,000 | 27,700 | 18,100 | 16,600 | 23,900 | 45,100 | 22,700 | e8,610 | e4,510 | e5,000 | e3,600 |
| 6 | 11,000 | 37,000 | 20,400 | 22,500 | 14,500 | 28,700 | 37,200 | 18,500 | e7,730 | e4,180 | e4,590 | e3,280 |
| 7 | e8,750 | 30,300 | 20,100 | 20,800 | 13,700 | 32,300 | 31,400 | 16,800 | e7,210 | e4,220 | e4,180 | e2,990 |
| 8 | 12,200 | 24,000 | 27,900 | 18,500 | 16,900 | 46,500 | 27,000 | 14,400 | e7,310 | 15,700 | e4,730 | e2,800 |
| 9 | e9,680 | 18,300 | 26,700 | 18,000 | 20,700 | 56,400 | 26,700 | 13,300 | e7,290 | 20,100 | e4,930 | e3,600 |
| 10 | 11,400 | 15,300 | 39,300 | 16,600 | 29,900 | 50,700 | 22,300 | 10,000 | e7,350 | 14,100 | e4,800 | e3,930 |
| 11 | e8,950 | 14,800 | 59,100 | 30,800 | 33,600 | 41,100 | 20,800 | e11,000 | e7,920 | e9,870 | e4,630 | e3,880 |
| 12 | e6,840 | 18,000 | 57,800 | 33,700 | 32,800 | 33,900 | 15,100 | 12,500 | e8,670 | e7,390 | e5,280 | e3,780 |
| 13 | e6,820 | 22,100 | 47,900 | 29,300 | 27,300 | 31,900 | 15,600 | e9,460 | e6,820 | e5,860 | e4,960 | e2,970 |
| 14 | 10,700 | 27,500 | 36,700 | 29,000 | 22,700 | 31,700 | 15,400 | 12,300 | e6,750 | e5,060 | e4,400 | e2,360 |
| 15 | 18,800 | 26,200 | 28,400 | 54,800 | 29,600 | 26,100 | 13,300 | 13,500 | e6,860 | 10,700 | e3,800 | e2,330 |
| 16 | 15,500 | 22,300 | 23,500 | 56,000 | 35,000 | 25,800 | 15,400 | 12,900 | e6,940 | 10,300 | e3,490 | e3,040 |
| 17 | 14,200 | 18,700 | 20,500 | 45,000 | 33,100 | 25,000 | 11,500 | 11,900 | e6,290 | 14,000 | e4,790 | e3,770 |
| 18 | 10,400 | 16,800 | 18,700 | 32,800 | 28,500 | 25,400 | 11,600 | e10,900 | e5,540 | 15,200 | e3,960 | e3,870 |
| 19 | 14,200 | 21,400 | 17,000 | 24,500 | 24,000 | 22,900 | 11,300 | e9,970 | e5,290 | 16,600 | e4,490 | e3,650 |
| 20 | 16,600 | 24,300 | 11,300 | 20,300 | 21,900 | 21,100 | 10,600 | 18,300 | e4,490 | 16,700 | 10,800 | e3,010 |
| 21 | 18,100 | 25,000 | 12,200 | 18,300 | 16,900 | 20,200 | 11,000 | 27,800 | e4,210 | 11,400 | 11,700 | e2,340 |
| 22 | 13,900 | 23,200 | 15,800 | 19,200 | 28,700 | 21,000 | 10,700 | 24,900 | e4,190 | 12,000 | 11,300 | e2,360 |
| 23 | 16,800 | 19,600 | 14,000 | 18,400 | 36,100 | 24,000 | 14,400 | 21,900 | e4,440 | e10,400 | 10,200 | e2,920 |
| 24 | 16,300 | 15,300 | 22,100 | 12,900 | 33,900 | 37,700 | 20,100 | 17,600 | e4,620 | 11,900 | e4,420 | e3,520 |
| 25 | 14,900 | 18,000 | 23,900 | 12,400 | 28,400 | 51,800 | 24,800 | 18,100 | e4,240 | e6,880 | e3,750 | e3,750 |
| 26 | 14,800 | 41,900 | 30,100 | 15,500 | 22,800 | 50,100 | 24,300 | 17,300 | e3,850 | e6,280 | 10,500 | e3,650 |
| 27 | 14,000 | 39,500 | 21,800 | 12,700 | 18,900 | 34,100 | 22,800 | 12,200 | e3,710 | e6,000 | e7,350 | e2,980 |
| 28 | 15,400 | 31,900 | 16,300 | 15,000 | 21,600 | 33,300 | 22,600 | 11,500 | e3,690 | e6,490 | 10,900 | e2,420 |
| 29 | 14,200 | 26,300 | 17,000 | 14,400 | --- | 62,400 | 20,800 | e10,300 | e4,320 | 11,200 | 13,300 | e2,370 |
| 30 | 14,000 | 23,900 | 13,900 | 16,500 | --- | 81,800 | 36,300 | 11,800 | e4,660 | e6,300 | e9,880 | e3,160 |
| 31 | 14,700 | --- | 12,700 | 12,100 | --- | 64,900 | --- | e8,640 | --- | 11,400 | e9,060 | --- |
| TOTAL | 477,440 | 684,100 | 865,000 | 685,100 | 674,200 | 1,097,500 | 738,300 | 580,770 | 186,560 | 295,840 | 223,250 | 101,640 |
| MEAN | 15,400 | 22,800 | 27,900 | 22,100 | 24,080 | 35,400 | 24,610 | 18,730 | 6,219 | 9,543 | 7,202 | 3,388 |
| MAX | 52,900 | 41,900 | 59,100 | 56,000 | 36,100 | 81,800 | 54,600 | 55,700 | 10,300 | 20,100 | 15,700 | 6,620 |
| MIN | 6,820 | 10,100 | 11,300 | 10,200 | 13,700 | 17,500 | 10,600 | 8,640 | 3,690 | 4,180 | 3,490 | 2,330 |

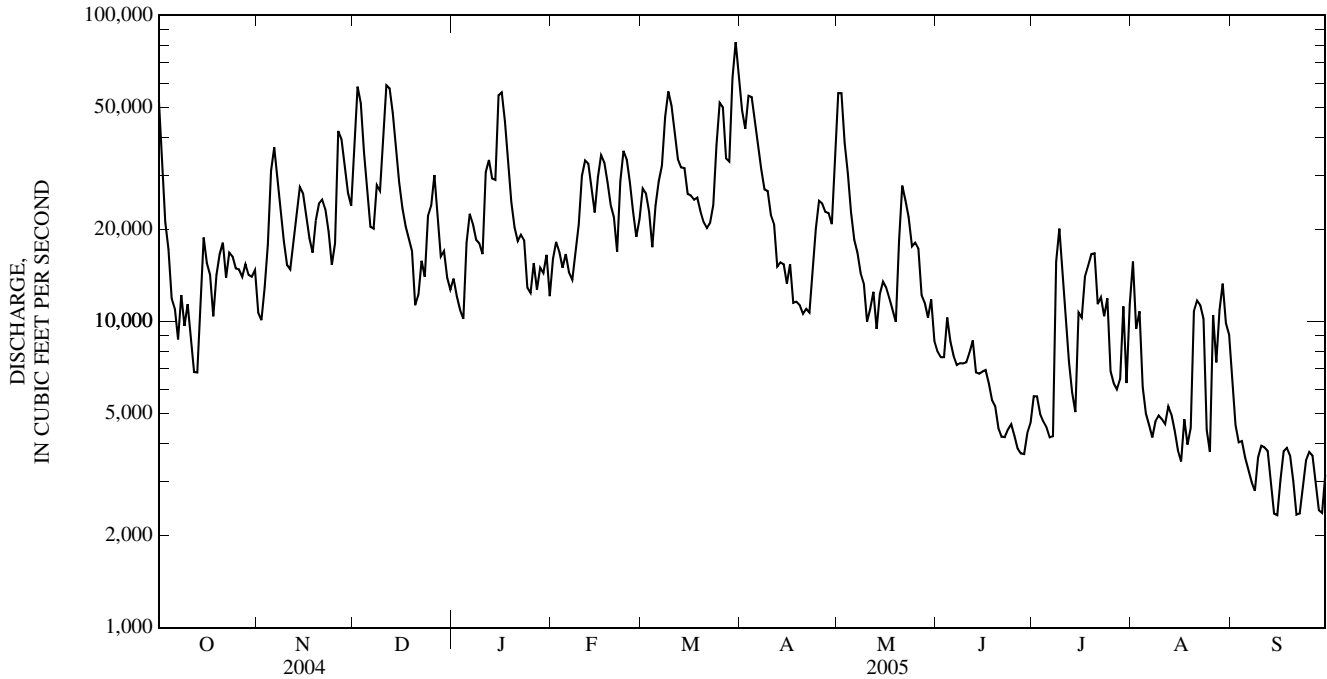
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 7,018 | 11,620 | 16,920 | 20,790 | 25,450 | 30,050 | 22,580 | 18,280 | 10,970 | 7,718 | 6,889 | 5,722 |
| MAX | 30,780 | 45,580 | 40,920 | 46,440 | 52,020 | 62,900 | 59,000 | 38,550 | 33,350 | 19,030 | 19,030 | 20,820 |
| (WY) | (1977) | (2004) | (1973) | (1996) | (1994) | (1963) | (1987) | (1989) | (2003) | (2001) | (1958) | (2004) |
| MIN | 1,465 | 1,703 | 2,461 | 4,226 | 7,122 | 10,680 | 6,553 | 4,894 | 2,745 | 2,394 | 2,080 | 1,553 |
| (WY) | (1954) | (1954) | (1966) | (1966) | (2002) | (1988) | (1986) | (1941) | (1999) | (1966) | (1944) | (1953) |

03198000 KANAWHA RIVER AT CHARLESTON, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1941 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 7,763,160 | | 6,609,700 | | 15,290 | |
| ANNUAL MEAN | 21,210 | | 18,110 | | 8,649 | |
| HIGHEST ANNUAL MEAN | | | | | 22,790 | 2004 |
| LOWEST ANNUAL MEAN | | | | | 8,649 | 1988 |
| HIGHEST DAILY MEAN | 109,000 | Apr 14 | 81,800 | Mar 30 | 160,000 | Mar 7, 1967 |
| LOWEST DAILY MEAN | (e)2,760 | Sep 7 | (e)2,330 | Sep 15 | 1,100 | Jul 30, 1966 |
| ANNUAL SEVEN-DAY MINIMUM | 2,990 | Sep 1 | 3,070 | Sep 21 | 1,250 | Sep 26, 1953 |
| MAXIMUM PEAK FLOW | | | 86,300 | Mar 30 | 216,000 | Aug 15, 1940 |
| MAXIMUM PEAK STAGE | | | 27.81 | Mar 30 | 39.72 | Mar 7, 1955 |
| INSTANTANEOUS LOW FLOW | | | (a) | (a) | 1,030 | (b) |
| 10 PERCENT EXCEEDS | 45,400 | | 35,900 | | 33,900 | |
| 50 PERCENT EXCEEDS | 16,800 | | 15,000 | | 9,640 | |
| 90 PERCENT EXCEEDS | 5,260 | | 4,180 | | 3,100 | |

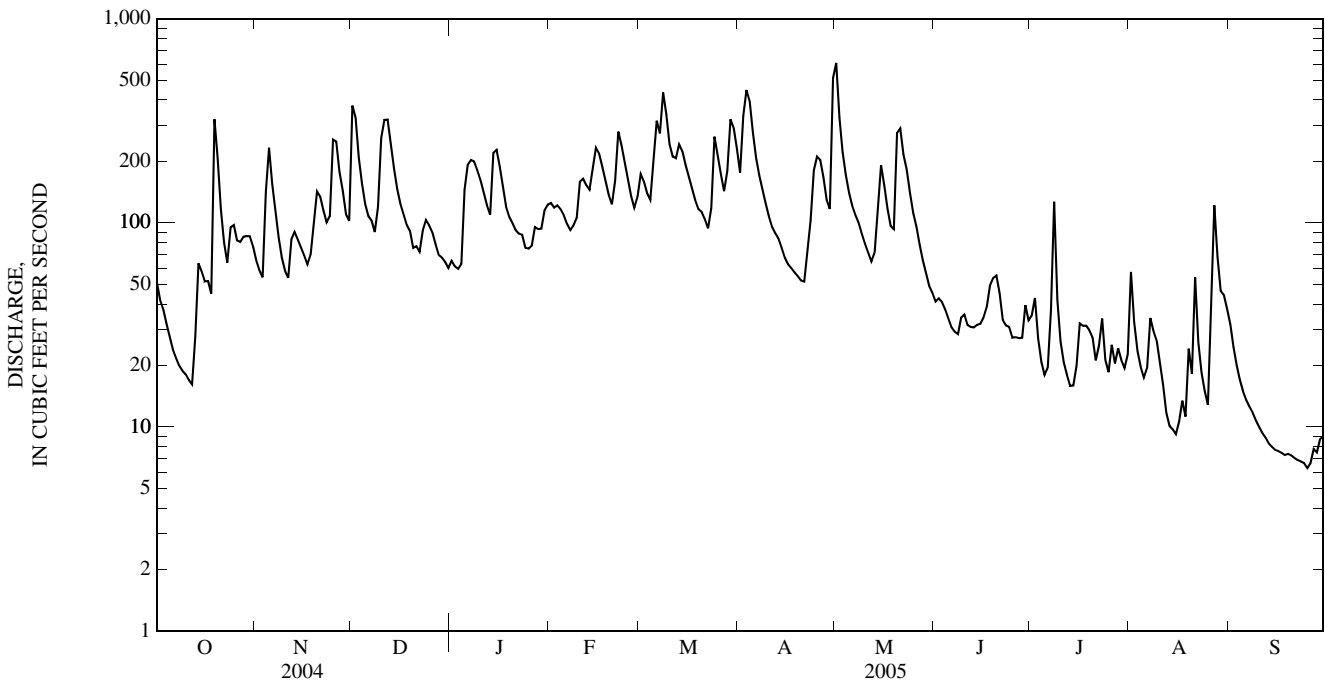
a Not determined.
 b Minimum discharge less than 1,030 ft³/s during Oct. 1-5, 1953.
 c Estimated.



03198350 CLEAR FORK AT WHITESVILLE, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1997 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 46,227.7 | | 36,865.2 | | 89.4 | |
| ANNUAL MEAN | 126 | | 101 | | 141 | |
| HIGHEST ANNUAL MEAN | | | | | 2004 | |
| LOWEST ANNUAL MEAN | | | | | 1999 | |
| HIGHEST DAILY MEAN | 1,430 | May 31 | 607 | May 1 | 2,760 | Jul 8, 2001 |
| LOWEST DAILY MEAN | 7.6 | (a) | 6.3 | Sep 25 | 2.5 | (b) |
| ANNUAL SEVEN-DAY MINIMUM | 8.2 | Sep 1 | 6.8 | Sep 20 | 2.8 | Sep 21, 1999 |
| MAXIMUM PEAK FLOW | | | 838 | Apr 30 | (c)12,000 | Jul 8, 2001 |
| MAXIMUM PEAK STAGE | | | 14.48 | Apr 30 | (d)28.47 | Jul 8, 2001 |
| INSTANTANEOUS LOW FLOW | | | 5.9 | (f) | 2.1 | Sep 27, 1999 |
| ANNUAL RUNOFF (CFSM) | 2.01 | | 1.61 | | 1.42 | |
| ANNUAL RUNOFF (INCHES) | 27.38 | | 21.84 | | 19.34 | |
| 10 PERCENT EXCEEDS | 252 | | 219 | | 195 | |
| 50 PERCENT EXCEEDS | 84 | | 79 | | 50 | |
| 90 PERCENT EXCEEDS | 18 | | 16 | | 8.7 | |

- a Sept. 6, 7.
- b Sept. 26, 27, 1999.
- c From rating curve extended above 3,300 ft³/s based on slope-area measurement of flow made July 10, 2001.
- d From floodmarks.
- f Sept. 25, 26.



03198500 BIG COAL RIVER AT ASHFORD, WV

LOCATION.--Lat 38°10'47", long 81°42'42", NAD 27, Boone County, Hydrologic Unit 05050009, on left bank at downstream side of highway bridge at Ashford, 300 ft upstream from Lick Creek, 1.0 mi downstream from Brush Creek, 1.8 mi upstream from Bull Creek, and at mile 30.2 upstream from Kanawha River.

DRAINAGE AREA.--391 mi².

PERIOD OF RECORD.--June 1908 to September 1916, May 1930 to current year. Published as Coal River at Brushton, June 1908 to September 1916 and as Coal River at Ashford, May 1930 to September 1960.

REVISED RECORDS.--WSP 1305: 1913-14(M). WSP 1335: 1912, 1916(M). WDR WV-82-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 622.46 ft above NGVD 29. Prior to Aug. 9, 1916, nonrecording gage at site 1.0 mi upstream at different datum. May 7, 1930, to Feb. 10, 1939, nonrecording gage at present site and datum.

REMARKS.--No estimated daily discharges. Records good.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|-----------------------------------|---------------------|--|------|-----------------------------------|---------------------|
| Apr 30 | 1430 | *5,550 | *10.22 | No other peak greater than base discharge. | | | |

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 | 432 | 394 | 2,040 | 376 | 943 | 1,330 | 1,120 | 3,940 | 244 | 95 | 147 | 218 |
| 2 | 324 | 348 | 2,510 | 388 | 880 | 1,220 | 1,680 | 2,100 | 233 | 98 | 144 | 180 |
| 3 | 300 | 324 | 1,540 | 366 | 828 | 1,020 | 2,850 | 1,470 | 250 | 93 | 122 | 150 |
| 4 | 248 | 481 | 1,110 | 361 | 829 | 902 | 2,430 | 1,110 | 233 | 84 | 95 | 130 |
| 5 | 196 | 1,300 | 876 | 693 | 769 | 1,100 | 1,830 | 887 | 213 | 87 | 81 | 117 |
| 6 | 167 | 964 | 728 | 1,130 | 704 | 1,760 | 1,380 | 738 | 200 | 87 | 71 | 108 |
| 7 | 141 | 714 | 687 | 1,310 | 636 | 1,670 | 1,120 | 640 | 205 | 122 | 76 | 100 |
| 8 | 127 | 559 | 631 | 1,540 | 605 | 2,260 | 969 | 580 | 222 | 524 | 97 | 93 |
| 9 | 115 | 445 | 638 | 1,520 | 612 | 2,380 | 825 | 509 | 226 | 368 | 91 | 89 |
| 10 | 109 | 377 | 1,360 | 1,280 | 794 | 1,790 | 708 | 449 | 207 | 191 | 83 | 81 |
| 11 | 107 | 343 | 1,780 | 1,050 | 899 | 1,480 | 621 | 403 | 193 | 140 | 76 | 74 |
| 12 | 98 | 419 | 1,880 | 885 | 873 | 1,440 | 568 | 367 | 179 | 117 | 71 | 69 |
| 13 | 118 | 635 | 1,590 | 749 | 848 | 1,680 | 531 | 335 | 177 | 103 | 65 | 65 |
| 14 | 254 | 596 | 1,220 | 1,120 | 899 | 1,650 | 492 | 511 | 159 | 95 | 63 | 66 |
| 15 | 319 | 531 | 960 | 1,420 | 1,380 | 1,400 | 435 | 694 | 143 | 107 | 62 | 66 |
| 16 | 274 | 473 | 791 | 1,220 | 1,310 | 1,190 | 391 | 724 | 142 | 134 | 79 | 61 |
| 17 | 258 | 417 | 693 | 1,010 | 1,130 | 1,040 | 367 | 542 | 141 | 171 | 134 | 62 |
| 18 | 226 | 421 | 619 | 794 | 960 | 911 | 349 | 437 | 126 | 145 | 85 | 59 |
| 19 | 1,140 | 617 | 568 | 671 | 821 | 792 | 324 | 391 | 122 | 201 | 161 | 60 |
| 20 | 1,490 | 999 | 493 | 627 | 717 | 732 | 305 | 1,010 | 116 | 348 | 358 | 55 |
| 21 | 912 | 966 | 444 | 589 | 806 | 676 | 293 | 1,190 | 116 | 190 | 297 | 50 |
| 22 | 695 | 814 | 436 | 551 | 1,440 | 612 | 407 | 908 | 116 | 144 | 228 | 50 |
| 23 | 503 | 693 | 496 | 617 | 1,470 | 747 | 582 | 735 | 108 | 160 | 151 | 49 |
| 24 | 536 | 622 | 613 | 543 | 1,220 | 1,880 | 897 | 624 | 98 | 163 | 117 | 47 |
| 25 | 575 | 1,270 | 591 | 554 | 1,040 | 1,530 | 1,180 | 548 | 92 | 127 | 94 | 47 |
| 26 | 497 | 1,580 | 548 | 563 | 868 | 1,220 | 1,100 | 473 | 90 | 113 | 142 | 48 |
| 27 | 458 | 1,030 | 500 | 620 | 749 | 1,010 | 996 | 401 | 86 | 110 | 573 | 47 |
| 28 | 469 | 808 | 433 | 633 | 872 | 1,010 | 807 | 357 | 85 | 129 | 490 | 48 |
| 29 | 443 | 651 | 411 | 630 | --- | 1,550 | 710 | 332 | 99 | 106 | 330 | 51 |
| 30 | 460 | 561 | 396 | 776 | --- | 1,710 | 3,940 | 299 | 106 | 108 | 328 | 61 |
| 31 | 444 | --- | 378 | 929 | --- | 1,380 | --- | 272 | --- | 121 | 255 | --- |
| TOTAL | 12,435 | 20,352 | 27,960 | 25,515 | 25,902 | 41,072 | 30,207 | 23,976 | 4,727 | 4,781 | 5,166 | 2,401 |
| MEAN | 401 | 678 | 902 | 823 | 925 | 1,325 | 1,007 | 773 | 158 | 154 | 167 | 80.0 |
| MAX | 1,490 | 1,580 | 2,510 | 1,540 | 1,470 | 2,380 | 3,940 | 3,940 | 250 | 524 | 573 | 218 |
| MIN | 98 | 324 | 378 | 361 | 605 | 612 | 293 | 272 | 85 | 84 | 62 | 47 |
| CFSM | 1.03 | 1.74 | 2.31 | 2.11 | 2.37 | 3.39 | 2.58 | 1.98 | 0.40 | 0.39 | 0.43 | 0.20 |
| IN. | 1.18 | 1.94 | 2.66 | 2.43 | 2.46 | 3.91 | 2.87 | 2.28 | 0.45 | 0.45 | 0.49 | 0.23 |

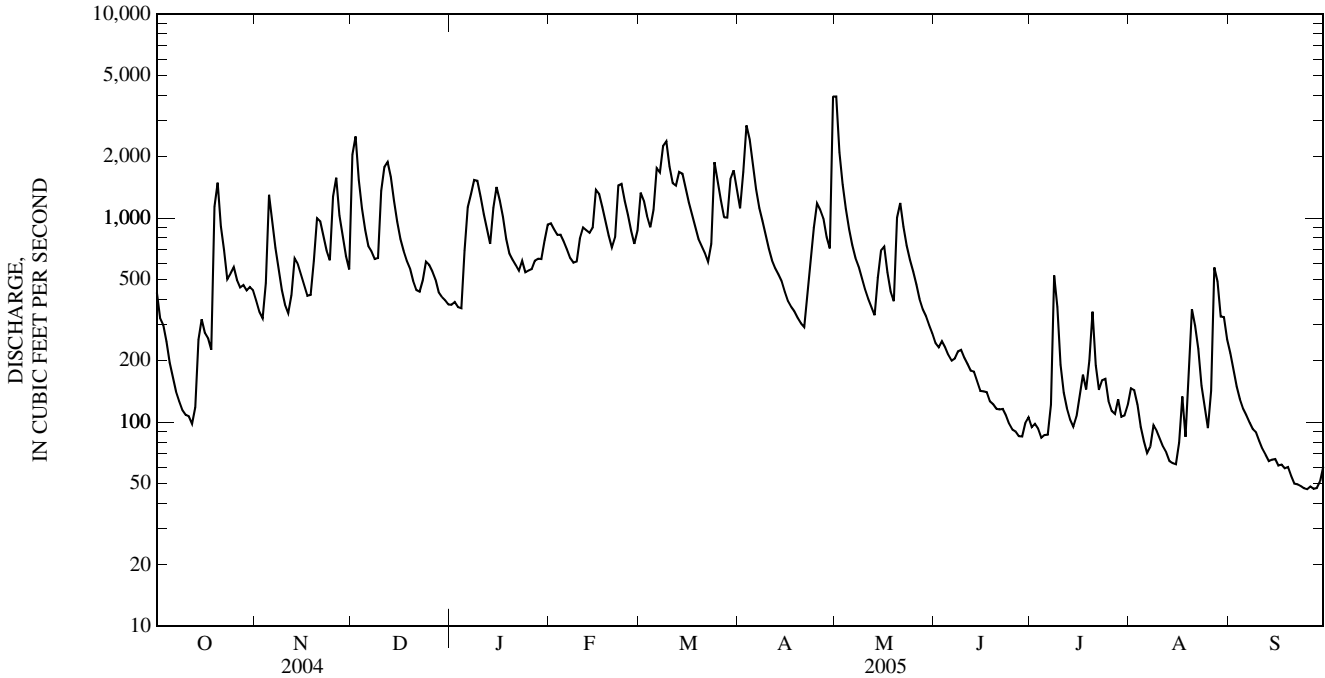
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2005, BY WATER YEAR (WY)

| | 126 | 268 | 562 | 822 | 1,010 | 1,188 | 912 | 623 | 323 | 237 | 175 | 111 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 126 | 268 | 562 | 822 | 1,010 | 1,188 | 912 | 623 | 323 | 237 | 175 | 111 |
| MAX | 1,086 | 1,994 | 2,043 | 2,241 | 2,294 | 2,866 | 2,448 | 2,169 | 1,208 | 1,457 | 1,570 | 651 |
| (WY) | (1990) | (2004) | (1943) | (1974) | (2003) | (1955) | (1987) | (1996) | (1981) | (2001) | (1916) | (2003) |
| MIN | 1.11 | 5.94 | 16.7 | 29.4 | 142 | 366 | 173 | 89.2 | 19.6 | 6.41 | 11.9 | 1.13 |
| (WY) | (1931) | (1931) | (1931) | (1940) | (1941) | (1988) | (1942) | (1941) | (1936) | (1930) | (1957) | (1930) |

03198500 BIG COAL RIVER AT ASHFORD, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1908 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 281,414 | | 224,494 | | | |
| ANNUAL MEAN | 769 | | 615 | | 529 | |
| HIGHEST ANNUAL MEAN | | | | | 872 | 2004 |
| LOWEST ANNUAL MEAN | | | | | 206 | 1941 |
| HIGHEST DAILY MEAN | 7,180 | Apr 14 | 3,940 | (a) | 20,400 | Mar 7, 1967 |
| LOWEST DAILY MEAN | 78 | Sep 7 | 47 | (b) | 0.00 | (c) |
| ANNUAL SEVEN-DAY MINIMUM | 88 | Sep 1 | 48 | Sep 22 | 0.00 | Oct 6, 1930 |
| MAXIMUM PEAK FLOW | | | 5,550 | Apr 30 | (d)35,800 | Aug 9, 1916 |
| MAXIMUM PEAK STAGE | | | 10.22 | Apr 30 | (f)36.30 | Aug 9, 1916 |
| INSTANTANEOUS LOW FLOW | | | 45 | (g) | 0.00 | (c) |
| ANNUAL RUNOFF (CFSM) | 1.97 | | 1.57 | | 1.35 | |
| ANNUAL RUNOFF (INCHES) | 26.77 | | 21.36 | | 18.38 | |
| 10 PERCENT EXCEEDS | 1,580 | | 1,380 | | 1,260 | |
| 50 PERCENT EXCEEDS | 520 | | 481 | | 233 | |
| 90 PERCENT EXCEEDS | 151 | | 87 | | 30 | |

- a Apr. 30, May 1.
- b Sept. 24, 25, 27.
- c Sept. 18-21, 24, Oct. 6-12, 1930.
- d From rating curve extended above 25,000 ft³/s.
- f Observed. From floodmark, site and datum then in use. The peak stage is 35.66 ft at present site and datum.
- g Sept. 25, 28, 29.



03200500 COAL RIVER AT TORNADO, WV

LOCATION.--Lat 38°20'20", long 81°50'30", NAD 27, Kanawha County, Hydrologic Unit 05050009, on downstream side of highway bridge at Tornado, 0.2 mi upstream from Falls Creek, and at mile 11.5.

DRAINAGE AREA.--862 mi², includes that of Falls Creek.

PERIOD OF RECORD.--June 1908 to September 1911, November 1928 to September 1931, August 1961 to current year.

REVISED RECORDS.--WDR WV-82-1: Drainage area. WDR WV-97-1: 1962-63(M), 1967(M), 1970(M).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 570.46 ft above NGVD 29. Aug. 1, 1961, to Jan. 9, 1973, nonrecording gage at same site and datum. Prior to Aug. 1, 1961, nonrecording gage at same site at different datum.

REMARKS.--Records good except those for period of estimated discharge (ice effect), which is poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--|------|--------------------------------|------------------|
| Apr 30 | 2200 | *16,200 | *19.47 | No other peak greater than base discharge. | | | |

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 | 652 | 770 | 4,030 | 844 | 1,910 | 4,440 | 2,510 | 11,500 | 584 | 286 | 257 | 544 |
| 2 | 545 | 683 | 5,770 | 865 | 1,800 | 3,490 | 3,730 | 5,270 | 537 | 227 | 272 | 445 |
| 3 | 597 | 635 | 3,430 | 834 | 1,680 | 2,640 | 6,890 | 3,470 | 595 | 257 | 271 | 360 |
| 4 | 490 | 934 | 2,390 | 823 | 1,630 | 2,200 | 5,640 | 2,550 | 574 | 217 | 217 | 297 |
| 5 | 421 | 2,420 | 1,850 | 1,720 | 1,490 | 2,790 | 4,210 | 2,040 | 544 | 229 | 192 | 265 |
| 6 | 368 | 2,040 | 1,560 | 2,530 | 1,380 | 3,680 | 3,140 | 1,720 | 496 | 237 | 162 | 242 |
| 7 | 344 | 1,510 | 1,530 | 2,950 | 1,270 | 3,620 | 2,530 | 1,500 | 488 | 273 | 162 | 212 |
| 8 | 316 | 1,200 | 1,410 | 3,990 | 1,210 | 5,020 | 2,200 | 1,360 | 490 | 1,030 | 214 | 210 |
| 9 | 307 | 966 | 1,390 | 3,940 | 1,210 | 5,660 | 1,900 | 1,210 | 521 | 952 | 216 | 194 |
| 10 | 298 | 807 | 3,100 | 3,040 | 1,530 | 4,150 | 1,640 | 1,070 | 485 | 493 | 194 | 175 |
| 11 | 293 | 721 | 4,010 | 2,380 | 1,700 | 3,320 | 1,450 | 988 | 474 | 348 | 177 | 151 |
| 12 | 280 | 1,060 | 4,050 | 1,980 | 1,670 | 3,140 | 1,330 | 900 | 414 | 295 | 166 | 151 |
| 13 | 263 | 1,350 | 3,400 | 1,700 | 1,630 | 3,610 | 1,260 | 844 | 399 | 274 | 148 | 140 |
| 14 | 521 | 1,260 | 2,590 | 2,320 | 1,710 | 3,670 | 1,170 | 1,090 | 403 | 254 | 132 | 134 |
| 15 | 582 | 1,130 | 2,030 | 3,100 | 2,310 | 3,070 | 1,060 | 1,260 | 374 | 233 | 129 | 147 |
| 16 | 545 | 1,030 | 1,690 | 2,660 | 2,500 | 2,580 | 959 | 1,330 | 313 | 305 | 129 | 143 |
| 17 | 537 | 941 | 1,470 | 2,200 | 2,300 | 2,250 | 880 | 1,070 | 308 | 398 | 348 | 147 |
| 18 | 487 | 960 | 1,330 | 1,750 | 1,970 | 1,980 | 844 | 928 | 286 | 469 | 234 | 144 |
| 19 | 2,100 | 1,900 | 1,220 | 1,490 | 1,710 | 1,740 | 790 | 870 | 268 | 905 | 341 | 131 |
| 20 | 3,530 | 2,680 | 1,090 | 1,400 | 1,530 | 1,600 | 728 | 1,960 | 259 | 1,350 | 628 | 131 |
| 21 | 1,970 | 2,450 | 930 | 1,330 | 1,720 | 1,480 | 689 | 2,370 | 254 | 607 | 476 | 115 |
| 22 | 1,450 | 2,000 | 965 | 1,270 | 3,160 | 1,340 | 824 | 1,750 | 265 | 428 | 456 | 132 |
| 23 | 1,070 | 1,670 | 1,110 | 1,480 | 3,090 | 1,510 | 1,090 | 1,440 | 250 | 387 | 296 | 131 |
| 24 | 1,210 | 1,450 | 1,390 | 1,250 | 2,580 | 4,000 | 1,560 | 1,310 | 241 | 383 | 280 | 123 |
| 25 | 1,190 | 1,790 | 1,330 | e1,330 | 2,240 | 3,350 | 2,190 | 1,120 | 225 | 302 | 224 | 103 |
| 26 | 1,040 | 2,600 | 1,240 | 1,330 | 1,870 | 2,650 | 2,040 | 999 | 220 | 258 | 255 | 110 |
| 27 | 948 | 1,910 | 1,140 | 1,400 | 1,650 | 2,200 | 2,050 | 874 | 219 | 249 | 1,300 | 101 |
| 28 | 935 | 1,560 | 1,010 | 1,350 | 2,400 | 2,200 | 1,780 | 791 | 209 | 352 | 1,350 | 102 |
| 29 | 877 | 1,330 | 953 | 1,340 | --- | 3,330 | 1,580 | 740 | 226 | 307 | 1,160 | 107 |
| 30 | 866 | 1,180 | 927 | 1,620 | --- | 3,780 | 9,230 | 674 | 255 | 245 | 927 | 121 |
| 31 | 829 | --- | 874 | 1,890 | --- | 3,120 | --- | 631 | --- | 246 | 689 | --- |
| TOTAL | 25,861 | 42,937 | 61,209 | 58,106 | 52,850 | 93,610 | 67,894 | 55,629 | 11,176 | 12,796 | 12,002 | 5,508 |
| MEAN | 834 | 1,431 | 1,974 | 1,874 | 1,888 | 3,020 | 2,263 | 1,794 | 373 | 413 | 387 | 184 |
| MAX | 3,530 | 2,680 | 5,770 | 3,990 | 3,160 | 5,660 | 9,230 | 11,500 | 595 | 1,350 | 1,350 | 544 |
| MIN | 263 | 635 | 874 | 823 | 1,210 | 1,340 | 689 | 631 | 209 | 217 | 129 | 101 |
| CFSM | 0.97 | 1.66 | 2.29 | 2.17 | 2.19 | 3.50 | 2.63 | 2.08 | 0.43 | 0.48 | 0.45 | 0.21 |
| IN. | 1.12 | 1.85 | 2.64 | 2.51 | 2.28 | 4.04 | 2.93 | 2.40 | 0.48 | 0.55 | 0.52 | 0.24 |

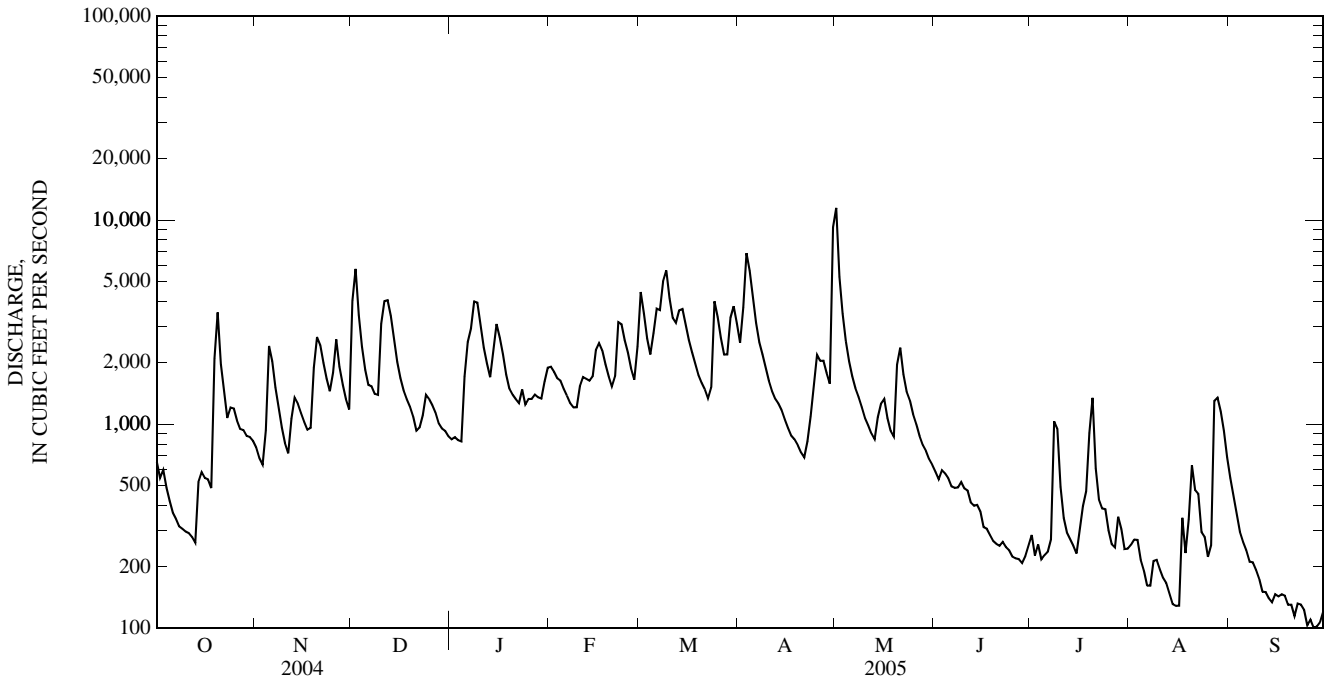
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2005, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 367 | 834 | 1,326 | 1,709 | 2,188 | 2,463 | 2,027 | 1,598 | 870 | 574 | 437 | 325 |
| MAX | 1,832 | 4,457 | 3,723 | 4,433 | 5,296 | 5,634 | 4,812 | 5,122 | 2,840 | 2,248 | 1,394 | 1,484 |
| (WY) | (1990) | (2004) | (1973) | (1979) | (2003) | (1963) | (1987) | (1996) | (2003) | (2001) | (1968) | (2003) |
| MIN | 3.05 | 10.5 | 46.7 | 209 | 479 | 757 | 509 | 234 | 47.2 | 8.67 | 26.1 | 7.00 |
| (WY) | (1931) | (1931) | (1931) | (1931) | (2002) | (1910) | (1986) | (1930) | (1930) | (1930) | (1930) | (1930) |

03200500 COAL RIVER AT TORNADO, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1908 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 593,983 | | 499,578 | | 1,223 | |
| ANNUAL MEAN | 1,623 | | 1,369 | | 1,859 | |
| HIGHEST ANNUAL MEAN | | | | | 2004 | |
| LOWEST ANNUAL MEAN | | | | | 1988 | |
| HIGHEST DAILY MEAN | 16,600 | Apr 14 | 11,500 | May 1 | 32,000 | Dec 31, 1969 |
| LOWEST DAILY MEAN | 182 | Sep 7 | 101 | Sep 27 | (e)2.0 | (a) |
| ANNUAL SEVEN-DAY MINIMUM | 209 | Sep 1 | 110 | Sep 24 | 2.0 | Oct 1, 1930 |
| MAXIMUM PEAK FLOW | | | 16,200 | Apr 30 | 35,500 | Mar 7, 1967 |
| MAXIMUM PEAK STAGE | | | 19.47 | Apr 30 | 31.98 | Mar 7, 1967 |
| INSTANTANEOUS LOW FLOW | | | 93 | (b) | 2.0 | Oct 1, 1930 |
| ANNUAL RUNOFF (CFSM) | 1.88 | | 1.59 | | 1.42 | |
| ANNUAL RUNOFF (INCHES) | 25.63 | | 21.56 | | 19.28 | |
| 10 PERCENT EXCEEDS | 3,340 | | 3,100 | | 2,740 | |
| 50 PERCENT EXCEEDS | 1,120 | | 1,070 | | 656 | |
| 90 PERCENT EXCEEDS | 327 | | 215 | | 116 | |

a Oct. 1-10, 1930.
 b Sept. 27, 28.
 e Estimated



03201405 HURRICANE CREEK AT HURRICANE, WV

LOCATION.--Lat 38°26'43", long 82°00'25", NAD 27, Putnam County, Hydrologic Unit 05050008, on right bank at Interstate 64 bridge over Hurricane Creek and just upstream from the Hurricane Waste Water Treatment Plant chain-linked fence.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--October 1998 to current year.

REVISED RECORDS.--WDR WV-04-1: 1999-2003(P).

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 600.00 ft above NGVD 29.

REMARKS.--Records good, except those for periods of estimated daily discharges (no gage-height record, ice effect), which are poor.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) | Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|--------|------|--------------------------------|------------------|
| Oct 20 | 0400 | 1,420 | 13.35 | Jul 27 | 2200 | *1,820 | *14.38 |
| Nov 12 | 1100 | 835 | 11.10 | Aug 26 | 1300 | 1,020 | 11.98 |
| Apr 30 | 1100 | 1,140 | 12.45 | Aug 29 | 2000 | 1,490 | 13.55 |

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 | 3.5 | 9.7 | 341 | 11 | 30 | 247 | 30 | 98 | 2.5 | 1.0 | 3.0 | 23 |
| 2 | 4.2 | 8.5 | 87 | 11 | 25 | 77 | 265 | 45 | 2.0 | 1.4 | 2.3 | 13 |
| 3 | 5.0 | 11 | 41 | 14 | 28 | 47 | 222 | 27 | 17 | 0.93 | 1.9 | 8.1 |
| 4 | 4.0 | 319 | 27 | 56 | 25 | 37 | 69 | 19 | 9.3 | 0.83 | 1.7 | 5.5 |
| 5 | 3.3 | 101 | 20 | 284 | 21 | 214 | 41 | 15 | 4.1 | 1.4 | 1.6 | 3.3 |
| 6 | 3.0 | 36 | 27 | 132 | 18 | 109 | 29 | 13 | 2.9 | 2.8 | 1.3 | 2.6 |
| 7 | 3.1 | 21 | 109 | 92 | 17 | 62 | 26 | 11 | 2.1 | 2.3 | 1.3 | 2.1 |
| 8 | 3.0 | 14 | 64 | 359 | 22 | 271 | 31 | 9.9 | 1.9 | 13 | 1.8 | 5.1 |
| 9 | 3.0 | 9.7 | 122 | 99 | 45 | 95 | 21 | 8.1 | 1.6 | 9.4 | 1.5 | 2.3 |
| 10 | 3.2 | 8.0 | 299 | 55 | 122 | 59 | 17 | 6.9 | 3.7 | 2.4 | 1.3 | 1.6 |
| 11 | 3.1 | 8.4 | e220 | 39 | 56 | 46 | 15 | 6.3 | 52 | 1.4 | 1.2 | 1.5 |
| 12 | 3.2 | 369 | e110 | 32 | 38 | 56 | 15 | 5.3 | 6.7 | 1.1 | 1.1 | 1.8 |
| 13 | 6.1 | 107 | e58 | 26 | 29 | 102 | 15 | 5.6 | 3.7 | 0.99 | 1.2 | 1.3 |
| 14 | 14 | 38 | 34 | 109 | 124 | 80 | 12 | 10 | 4.0 | 0.92 | 2.1 | 1.2 |
| 15 | 4.8 | 23 | 23 | 47 | 86 | 67 | 9.8 | 10 | 6.6 | 1.0 | 1.8 | 1.3 |
| 16 | 4.7 | 17 | 18 | 33 | 52 | 46 | 8.1 | 5.1 | 2.5 | 1.7 | 2.0 | 1.4 |
| 17 | 4.3 | 14 | 16 | 24 | 36 | 35 | 7.6 | 3.9 | 1.6 | 11 | 2.1 | 3.1 |
| 18 | 4.8 | 29 | 14 | 17 | 26 | 27 | 7.4 | 3.2 | 1.4 | 33 | 2.5 | 2.5 |
| 19 | 100 | 274 | 13 | 17 | 21 | 23 | 7.0 | 9.3 | 1.3 | 24 | 6.4 | 1.7 |
| 20 | 551 | 156 | 9.0 | 19 | 20 | 21 | 6.3 | 70 | 1.2 | 38 | 2.5 | 1.7 |
| 21 | 55 | 66 | 9.1 | 19 | 66 | 17 | 6.9 | 15 | 1.2 | 6.5 | 1.7 | 1.6 |
| 22 | 23 | 38 | 11 | 44 | 81 | 15 | 23 | 7.9 | 1.6 | 9.6 | 1.2 | 1.5 |
| 23 | 14 | 27 | 118 | e41 | 41 | 71 | 99 | 10 | 1.4 | 6.2 | 1.0 | 1.6 |
| 24 | 140 | 27 | 55 | e28 | 38 | 116 | 127 | 20 | 1.2 | 2.5 | 1.0 | 1.7 |
| 25 | 42 | 26 | 27 | 24 | 34 | 48 | 120 | 8.6 | 1.1 | 1.8 | 0.95 | 1.8 |
| 26 | 18 | 17 | 20 | 37 | 30 | 33 | 47 | 5.8 | 1.0 | 1.4 | 393 | 2.7 |
| 27 | 15 | 14 | 15 | 37 | 25 | 26 | 64 | 6.3 | 0.98 | 442 | 216 | 3.3 |
| 28 | 12 | 17 | 13 | e21 | 403 | 72 | 34 | 5.5 | 0.89 | 233 | 28 | 2.7 |
| 29 | 10 | 13 | 13 | 25 | --- | 134 | 27 | 4.5 | 0.88 | 16 | 659 | 5.9 |
| 30 | 9.8 | 42 | 12 | 40 | --- | 57 | 527 | 3.1 | 0.90 | 7.3 | 164 | 2.7 |
| 31 | 7.9 | --- | 11 | 36 | --- | 38 | --- | 2.9 | --- | 4.6 | 50 | --- |
| TOTAL | 1,078.0 | 1,860.3 | 1,956.1 | 1,828 | 1,559 | 2,348 | 1,929.1 | 471.2 | 139.25 | 879.47 | 1,556.45 | 109.6 |
| MEAN | 34.8 | 62.0 | 63.1 | 59.0 | 55.7 | 75.7 | 64.3 | 15.2 | 4.64 | 28.4 | 50.2 | 3.65 |
| MAX | 551 | 369 | 341 | 359 | 403 | 271 | 527 | 98 | 52 | 442 | 659 | 23 |
| MIN | 3.0 | 8.0 | 9.0 | 11 | 17 | 15 | 6.3 | 2.9 | 0.88 | 0.83 | 0.95 | 1.2 |
| CFSM | 1.30 | 2.31 | 2.35 | 2.20 | 2.08 | 2.83 | 2.40 | 0.57 | 0.17 | 1.06 | 1.87 | 0.14 |
| IN. | 1.50 | 2.58 | 2.72 | 2.54 | 2.16 | 3.26 | 2.68 | 0.65 | 0.19 | 1.22 | 2.16 | 0.15 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

| | 12.2 | 42.2 | 30.7 | 39.8 | 63.3 | 61.5 | 51.4 | 47.2 | 21.9 | 30.4 | 21.7 | 20.9 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MEAN | 12.2 | 42.2 | 30.7 | 39.8 | 63.3 | 61.5 | 51.4 | 47.2 | 21.9 | 30.4 | 21.7 | 20.9 |
| MAX | 34.8 | 161 | 63.1 | 76.3 | 157 | 104 | 85.2 | 116 | 66.3 | 80.6 | 50.2 | 102 |
| (WY) | (2005) | (2004) | (2005) | (2004) | (2003) | (2002) | (2004) | (2001) | (2003) | (2000) | (2005) | (2004) |
| MIN | 1.50 | 1.96 | 6.79 | 9.18 | 10.3 | 24.9 | 11.5 | 2.25 | 0.79 | 0.42 | 6.08 | 0.69 |
| (WY) | (2002) | (2002) | (2002) | (2000) | (2002) | (2003) | (1999) | (1999) | (1999) | (1999) | (2002) | (1999) |

03201405 HURRICANE CREEK AT HURRICANE, WV—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1998 - 2005 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|--------------|
| ANNUAL TOTAL | 20,779.97 | | 15,714.47 | | 36.8 | |
| ANNUAL MEAN | 56.8 | | 43.1 | | 62.2 | |
| HIGHEST ANNUAL MEAN | | | | | 17.8 | |
| LOWEST ANNUAL MEAN | | | | | 1,660 | |
| HIGHEST DAILY MEAN | 1,270 | May 28 | 659 | Aug 29 | | Nov 19, 2003 |
| LOWEST DAILY MEAN | (e)0.90 | Sep 7 | 0.83 | Jul 4 | 0.08 | (a) |
| ANNUAL SEVEN-DAY MINIMUM | 1.1 | Jul 15 | 0.96 | Jun 25 | 0.09 | Jul 13, 1999 |
| MAXIMUM PEAK FLOW | | | 1,820 | Jul 27 | 3,690 | Nov 19, 2003 |
| MAXIMUM PEAK STAGE | | | 14.38 | Jul 27 | 18.01 | Nov 19, 2003 |
| INSTANTANEOUS LOW FLOW | | | 0.76 | (b) | 0.06 | (a) |
| ANNUAL RUNOFF (CFSM) | 2.12 | | 1.61 | | 1.37 | |
| ANNUAL RUNOFF (INCHES) | 28.84 | | 21.81 | | 18.64 | |
| 10 PERCENT EXCEEDS | 121 | | 109 | | 83 | |
| 50 PERCENT EXCEEDS | 16 | | 14 | | 8.1 | |
| 90 PERCENT EXCEEDS | 2.8 | | 1.4 | | 1.1 | |

a July 18, 19, 1999.
 b July 4, 5.
 e Estimated

