

MONONGAHELA RIVER BASIN

03076500 YOUGHIOGHENY RIVER AT FRIENDSVILLE, MD

LOCATION.--Lat 39°39'13", long 79°24'31", Garrett County, Hydrologic Unit 05020006, on left bank 0.7 mi upstream from bridge on State Highway 42 at Friendsville, and 1.5 mi upstream from Bear Creek.

DRAINAGE AREA.--295 mi².

PERIOD OF RECORD.--August 1898 to December 1904 and October 1940 to current year. Annual maximum, water years 1905, 1923-31, 1940, published in WSP 1675. October, November 1940 monthly discharge only, published in WSP 1305. September 1922 to September 1926 (gage heights only) in reports of Pennsylvania Department of Forests and Waters.

REVISED RECORDS.--WSP 1385: Drainage area at former site, 1898-1905, 1941(M), 1942, 1944-45, 1948-49, 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 1,487.33 ft above sea level. Aug. 17, 1898, to Dec. 31, 1904, and Sept. 1, 1922, to Sept. 30, 1926, nonrecording gages at bridge 0.7 mi downstream at datum 16.24 ft and 16.29 ft lower, respectively.

REMARKS.--Records good except those for estimated daily discharges (ice effect), which are poor. Low and medium flow regulated since July 1925 by Deep Creek Reservoir, 12 mi upstream from station (see station 03076000). U.S. Army Corps of Engineers satellite collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s, Feb 19, gage height, 8.63 ft; minimum discharge, 48 ft³/s, Sep 23.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 162 | 62 | 379 | e200 | e150 | 583 | 442 | 391 | 665 | 219 | 288 | 215 |
| 2 | 72 | 156 | 474 | e200 | e140 | 679 | 416 | 375 | 643 | 144 | 178 | 223 |
| 3 | 56 | 998 | 275 | e230 | e140 | 581 | 552 | 373 | 469 | 186 | 131 | 210 |
| 4 | 70 | 479 | 277 | e250 | e140 | 424 | 1630 | 363 | 314 | 174 | 345 | 229 |
| 5 | 69 | 355 | 279 | e270 | e140 | 373 | 2060 | 367 | 358 | 161 | 260 | 94 |
| 6 | 96 | 337 | 321 | e250 | e130 | 391 | 1300 | 353 | 3040 | 134 | 515 | 82 |
| 7 | 83 | 307 | 336 | e240 | e130 | 329 | 946 | 355 | 3050 | 178 | 695 | 70 |
| 8 | 125 | 240 | 332 | e230 | e130 | 295 | 875 | 498 | 2120 | 100 | 544 | 150 |
| 9 | 53 | 201 | 367 | e230 | e130 | 259 | 1080 | 307 | 1160 | 121 | 372 | 64 |
| 10 | 169 | 182 | 425 | 346 | e130 | 247 | 878 | 206 | 606 | 154 | 413 | 53 |
| 11 | 387 | 167 | 931 | 430 | e350 | 366 | 928 | 166 | 552 | 1270 | 461 | 201 |
| 12 | 201 | 177 | 580 | 404 | e650 | 1040 | 1050 | 236 | 487 | 1060 | 248 | 160 |
| 13 | 137 | 146 | 615 | e380 | e400 | 806 | 1020 | 158 | 322 | 420 | 122 | 89 |
| 14 | 131 | 133 | 1220 | e360 | 2130 | 610 | 763 | 172 | 341 | 392 | 183 | 67 |
| 15 | 188 | 125 | 1620 | e350 | 3050 | 530 | 629 | 224 | 597 | 275 | 220 | 139 |
| 16 | 100 | 119 | 1040 | e340 | 1750 | 522 | 587 | 141 | 446 | 219 | 246 | 62 |
| 17 | 83 | 145 | 844 | e350 | 1580 | 748 | 957 | 202 | 307 | 342 | 83 | 63 |
| 18 | 75 | 160 | 690 | 341 | 2700 | 584 | 826 | 270 | 326 | 237 | 164 | 129 |
| 19 | 76 | 114 | 548 | 321 | 11200 | 487 | 666 | 283 | 442 | 281 | 144 | 56 |
| 20 | 74 | 106 | 520 | e290 | 4660 | 656 | 745 | 411 | 308 | 1320 | 123 | 208 |
| 21 | 71 | 148 | 431 | e260 | 2790 | 699 | 676 | 325 | 272 | 852 | 167 | 74 |
| 22 | 69 | 155 | 415 | e280 | 2050 | 1100 | 659 | 323 | 402 | 430 | 77 | 131 |
| 23 | 69 | 142 | 342 | e260 | 1210 | 1220 | 878 | 243 | 394 | 305 | 78 | 51 |
| 24 | 86 | 132 | 253 | e230 | 1250 | 1000 | 923 | 801 | 284 | 319 | 85 | 79 |
| 25 | 101 | 222 | e240 | e190 | 1070 | 859 | 773 | 577 | 234 | 221 | 294 | 232 |
| 26 | 113 | 934 | e230 | e170 | 711 | 724 | 662 | 466 | 452 | 189 | 101 | 1310 |
| 27 | 95 | 1580 | e230 | e170 | 608 | 657 | 574 | 400 | 222 | 469 | 88 | 606 |
| 28 | 81 | 863 | e220 | e160 | 1330 | 535 | 509 | 570 | 230 | 448 | 152 | 348 |
| 29 | 73 | 622 | e210 | e160 | 713 | 576 | 372 | 1520 | 217 | 153 | 70 | 332 |
| 30 | 76 | 469 | e200 | e150 | --- | 563 | 330 | 969 | 250 | 170 | 65 | 196 |
| 31 | 65 | --- | e200 | e150 | --- | 507 | --- | 668 | --- | 385 | 217 | --- |
| TOTAL | 3306 | 9976 | 15044 | 8192 | 41562 | 18950 | 24706 | 12713 | 19510 | 11328 | 7129 | 5923 |
| MEAN | 107 | 333 | 485 | 264 | 1433 | 611 | 824 | 410 | 650 | 365 | 230 | 197 |
| MAX | 387 | 1580 | 1620 | 430 | 11200 | 1220 | 2060 | 1520 | 3050 | 1320 | 695 | 1310 |
| MIN | 53 | 62 | 200 | 150 | 130 | 247 | 330 | 141 | 217 | 100 | 65 | 51 |
| (†) | -6.50 | +6.71 | -29.3 | -9.78 | +122 | +83.2 | +99.3 | +25.2 | -6.71 | -60.0 | -65.0 | -55.5 |
| MEAN‡ | 100 | 340 | 456 | 254 | 1555 | 694 | 923 | 435 | 643 | 305 | 165 | 142 |
| CFSM‡ | 0.34 | 1.15 | 1.55 | 0.86 | 5.27 | 2.35 | 3.13 | 1.47 | 2.18 | 1.03 | 0.56 | 0.48 |
| IN‡ | 0.39 | 1.28 | 1.79 | 0.99 | 5.68 | 2.71 | 3.49 | 1.70 | 2.43 | 1.19 | 0.65 | 0.54 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2000, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 279 | 499 | 844 | 879 | 997 | 1220 | 940 | 689 | 480 | 367 | 297 | 238 |
| MAX | 1103 | 2190 | 2147 | 1886 | 2277 | 2644 | 2231 | 1888 | 1823 | 1335 | 1319 | 1059 |
| (WY) | 1955 | 1986 | 1903 | 1996 | 1903 | 1963 | 1901 | 1996 | 1903 | 1990 | 1956 | 1996 |
| MIN | 50.2 | 55.7 | 145 | 140 | 337 | 285 | 327 | 176 | 84.2 | 64.6 | 51.0 | 49.8 |
| (WY) | 1992 | 1905 | 1944 | 1981 | 1954 | 1990 | 1995 | 1982 | 1969 | 1991 | 1991 | 1991 |

† Change in contents in Deep Creek Reservoir, equivalent in cubic feet per second, provided by Reliant Energy.

‡ Adjusted for change in reservoir contents.

e Estimated.

MONONGAHELA RIVER BASIN

03076500 YOUGHIOGHENY RIVER AT FRIENDSVILLE, MD--Continued

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | | FOR 2000 WATER YEAR | | WATER YEARS 1898 - 2000 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 171238 | | 178339 | | | |
| ANNUAL MEAN | 469 | | 487 | | 641 | |
| ANNUAL MEAN† | 475 | | 495 | | 644 | |
| HIGHEST ANNUAL MEAN | | | | | 1052 | |
| LOWEST ANNUAL MEAN | | | | | 375 | |
| HIGHEST DAILY MEAN | 3150 | Jan 24 | 11200 | Feb 19 | 11200 | Jan 19 1996 |
| LOWEST DAILY MEAN | 49 | Aug 16 | 51 | Sep 23 | 8.2 | Sep 11 1966 |
| ANNUAL SEVEN-DAY MINIMUM | 64 | Sep 11 | 74 | Oct 17 | 29 | Sep 21 1972 |
| INSTANTANEOUS PEAK FLOW | | | 13100 | Feb 19 | a16100 | Jan 19 1996 |
| INSTANTANEOUS PEAK STAGE | | | 8.63 | Feb 19 | b14.20 | Mar 29 1924 |
| INSTANTANEOUS LOW FLOW | | | 48 | Sep 23 | UNKNOWN | |
| ANNUAL RUNOFF (CFSM) | 1.59 | | 1.65 | | 2.17 | |
| ANNUAL RUNOFF (CFSM)† | 1.61 | | 1.68 | | 2.18 | |
| ANNUAL RUNOFF (INCHES) | 21.59 | | 22.49 | | 29.51 | |
| ANNUAL RUNOFF (INCHES)† | 21.88 | | 22.79 | | 29.84 | |
| 10 PERCENT EXCEEDS | 1380 | | 999 | | 1430 | |
| 50 PERCENT EXCEEDS | 191 | | 307 | | 406 | |
| 90 PERCENT EXCEEDS | 67 | | 87 | | 102 | |

† Adjusted for change in reservoir contents since October 1940.

a From rating curve extended above 5,800 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

