

BEAVER RIVER BASIN

03106500 SLIPPERY ROCK CREEK AT WURTEMBERG, PA

LOCATION.--Lat 40°53'02", long 80°14'02", Lawrence County, Hydrologic Unit 05030105, on left bank at downstream side of highway bridge at Camp Allegheny, 2 mi north of Wurtemburg, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--398 mi².

PERIOD OF RECORD.--October 1911 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: Drainage area. WSP 1305: 1914-18, 1920-22, 1923-24 (M), 1925-28, 1930. WSP 1385: 1932, 1935, 1936 (M), 1937-39. WSP 1625: 1955.

GAGE.--Water-stage recorder. Datum of gage is 832.06 ft above sea level. Jan. 1, 1912 to Sept. 30, 1922, nonrecording gage at site 1.5 mi downstream at datum 13.77 ft lower and Oct. 1, 1922 to Sept. 30, 1940, nonrecording gage at site 2 mi downstream at datum 18.92 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation since May 1969 by Lake Arthur (station 03106280) 13 mi upstream. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 3,500 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|----------------------------------|------|---------------------------------|---------------------|---------|------|---------------------------------|---------------------|
| Jan. 31 | 0200 | Unknown | *a5.16 | Apr. 10 | 0100 | *3,130 | 4.72 |
| (No peaks above base discharge.) | | | | | | | |

a Ice jam.

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

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1 | 85 | 107 | 383 | e280 | 1570 | 334 | 423 | 387 | 208 | 282 | 50 | 129 |
| 2 | 82 | 101 | 362 | e280 | 1090 | 262 | 392 | 371 | 214 | 459 | 49 | 153 |
| 3 | 79 | 100 | 319 | e270 | 734 | 262 | 370 | 356 | 276 | 217 | 50 | 90 |
| 4 | 76 | 101 | 278 | e260 | 597 | 265 | 365 | 342 | 278 | 129 | 54 | 70 |
| 5 | 89 | 96 | 296 | e260 | 518 | 292 | 350 | 328 | 240 | 109 | 55 | 60 |
| 6 | 246 | 94 | 270 | e250 | 490 | 299 | 478 | 311 | 238 | 96 | 52 | 55 |
| 7 | 319 | 92 | 260 | e250 | 476 | 282 | 1520 | 285 | 237 | 91 | 50 | 51 |
| 8 | 209 | 92 | 175 | e240 | 463 | 246 | 1200 | 266 | 229 | 129 | 49 | 49 |
| 9 | 171 | 94 | 172 | e240 | 889 | 243 | 1120 | 268 | 201 | 154 | 46 | 48 |
| 10 | 152 | 140 | 185 | e240 | 1490 | 240 | 2110 | 268 | 152 | 118 | 44 | 45 |
| 11 | 145 | 276 | 175 | e235 | 1100 | 232 | 1390 | 259 | 144 | 96 | 44 | 44 |
| 12 | 143 | 258 | 369 | e235 | 726 | 233 | 1100 | 351 | 146 | 86 | 41 | 42 |
| 13 | 124 | 193 | 456 | e230 | 645 | 635 | 830 | 390 | 134 | 81 | 41 | 41 |
| 14 | 114 | 163 | 406 | e230 | 643 | 1220 | 654 | 303 | 122 | 76 | 41 | 49 |
| 15 | 104 | 145 | 404 | e240 | 1250 | 855 | 620 | 262 | 115 | 72 | 39 | 56 |
| 16 | 99 | 135 | 434 | e250 | 1160 | 639 | 1700 | 247 | 111 | 70 | 38 | 55 |
| 17 | 98 | 126 | 1970 | e270 | 1040 | 894 | 1680 | 232 | 108 | 67 | 38 | 52 |
| 18 | 99 | 120 | 1700 | e260 | 757 | 789 | 1310 | 215 | 99 | 64 | 39 | 49 |
| 19 | 99 | 118 | 1070 | e250 | 576 | 588 | 992 | 204 | 92 | 63 | 40 | 47 |
| 20 | 100 | 113 | 696 | e240 | 556 | 486 | 890 | 199 | 85 | 68 | 47 | 50 |
| 21 | 101 | 110 | 555 | e230 | 546 | 493 | 1130 | 187 | 94 | 119 | 56 | 54 |
| 22 | 94 | 107 | 463 | e220 | 463 | 1300 | 999 | 379 | 107 | 90 | 52 | 57 |
| 23 | 93 | e105 | e340 | e210 | 421 | 1070 | 845 | 691 | 123 | 67 | 51 | 59 |
| 24 | 98 | e100 | e330 | e200 | 391 | 813 | 731 | 470 | 115 | 64 | 52 | 62 |
| 25 | 118 | e98 | e320 | e190 | 400 | 645 | 658 | 451 | 103 | 61 | 50 | 77 |
| 26 | 112 | 118 | e310 | e190 | 438 | 566 | 597 | 711 | 95 | 66 | 50 | 78 |
| 27 | 109 | 240 | e310 | e185 | 416 | 506 | 539 | 579 | 88 | 65 | 49 | 77 |
| 28 | 111 | 398 | e300 | e185 | 380 | 469 | 494 | 396 | 83 | 61 | 78 | 91 |
| 29 | 131 | 343 | e295 | e185 | --- | 444 | 440 | 315 | 78 | 58 | 97 | 109 |
| 30 | 125 | 385 | e290 | e400 | --- | 434 | 409 | 268 | 89 | 56 | 74 | 83 |
| 31 | 111 | --- | e280 | e1000 | --- | 439 | --- | 226 | --- | 54 | 69 | --- |
| TOTAL | 3836 | 4668 | 14173 | 8205 | 20225 | 16475 | 26336 | 10517 | 4404 | 3288 | 1585 | 1982 |
| MEAN | 124 | 156 | 457 | 265 | 722 | 531 | 878 | 339 | 147 | 106 | 51.1 | 66.1 |
| MAX | 319 | 398 | 1970 | 1000 | 1570 | 1300 | 2110 | 711 | 278 | 459 | 97 | 153 |
| MIN | 76 | 92 | 172 | 185 | 380 | 232 | 350 | 187 | 78 | 54 | 38 | 41 |
| CFM | .31 | .39 | 1.15 | .67 | 1.81 | 1.34 | 2.21 | .85 | .37 | .27 | .13 | .17 |
| IN. | .36 | .44 | 1.32 | .77 | 1.89 | 1.54 | 2.46 | .98 | .41 | .31 | .15 | .19 |

e Estimated.

BEAVER RIVER BASIN

03106500 SLIPPERY ROCK CREEK AT WURTEMBERG, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 267 | 542 | 788 | 688 | 877 | 1037 | 965 | 620 | 514 | 330 | 259 | 238 |
| MAX (WY) | 1976 | 1986 | 1978 | 1999 | 1981 | 1972 | 1987 | 1983 | 1989 | 1990 | 1980 | 1975 |
| MIN (WY) | 1992 | 1992 | 1990 | 1977 | 1987 | 1969 | 1971 | 1976 | 1992 | 1998 | 2001 | 1999 |

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1969 - 2001

| | | | |
|--------------------------|--------|---------|-------|
| ANNUAL TOTAL | 153826 | 115694 | |
| ANNUAL MEAN | 420 | 317 | 592 |
| HIGHEST ANNUAL MEAN | | | 813 |
| LOWEST ANNUAL MEAN | | | 317 |
| HIGHEST DAILY MEAN | 4850 | Apr 4 | 2110 |
| LOWEST DAILY MEAN | 60 | Sep 8,9 | 38 |
| ANNUAL SEVEN-DAY MINIMUM | 65 | Sep 4 | 39 |
| MAXIMUM PEAK FLOW | | | b3130 |
| MAXIMUM PEAK STAGE | | | a5.16 |
| INSTANTANEOUS LOW FLOW | | | 37 |
| ANNUAL RUNOFF (CFSM) | 1.06 | .80 | 1.49 |
| ANNUAL RUNOFF (INCHES) | 14.38 | 10.81 | 20.21 |
| 10 PERCENT EXCEEDS | 842 | 732 | 1350 |
| 50 PERCENT EXCEEDS | 277 | 220 | 360 |
| 90 PERCENT EXCEEDS | 93 | 53 | 92 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1968, BY WATER YEAR (WY) (PRIOR TO REGULATION)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 237 | 379 | 589 | 839 | 856 | 1203 | 911 | 653 | 386 | 237 | 191 | 160 |
| MAX (WY) | 1912 | 1922 | 1928 | 1937 | 1956 | 1913 | 1940 | 1924 | 1956 | 1958 | 1956 | 1926 |
| MIN (WY) | 1964 | 1931 | 1931 | 1931 | 1934 | 1931 | 1925 | 1934 | 1936 | 1944 | 1930 | 1944 |

SUMMARY STATISTICS WATER YEARS 1912 - 1968

| | |
|--------------------------|--------|
| ANNUAL MEAN | 552 |
| HIGHEST ANNUAL MEAN | 917 |
| LOWEST ANNUAL MEAN | 216 |
| HIGHEST DAILY MEAN | 16700 |
| LOWEST DAILY MEAN | 20 |
| ANNUAL SEVEN-DAY MINIMUM | 24 |
| MAXIMUM PEAK FLOW | c19000 |
| MAXIMUM PEAK STAGE | d12.05 |
| INSTANTANEOUS LOW FLOW | f16 |
| ANNUAL RUNOFF (CFSM) | 1.39 |
| ANNUAL RUNOFF (INCHES) | 18.85 |
| 10 PERCENT EXCEEDS | 1390 |
| 50 PERCENT EXCEEDS | 248 |
| 90 PERCENT EXCEEDS | 58 |

- a Ice jam.
- b Gage height, 4.72 ft.
- c From rating curve extended above 14,000 ft³/s.
- d From floodmark, site and datum then in use.
- f Minimum observed.

