

BEAVER RIVER BASIN

03101500 SHENANGO RIVER AT PYMATUNING DAM, PA

LOCATION.--Lat 41°29'53", long 80°27'37", Crawford County, Hydrologic Unit 05030102, on left bank 500 ft downstream from Sugar Run, 900 ft downstream from Pymatuning Dam, 1.5 mi northwest of Jamestown, at mile 84.9.

DRAINAGE AREA.--167 mi².

PERIOD OF RECORD.--June 1934 to current year.

REVISED RECORDS.--WSP 823: 1934-36. WSP 1083: 1936 (M), 1937, 1940 (M), 1941-45. WSP 1335: 1940.

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 970.00 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since December 1933 by Pymatuning Reservoir (station 03100500). Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

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 | 87 | 242 | 204 | 182 | 208 | 246 | 331 | 85 | 46 | 105 | 100 | 105 |
| 2 | 87 | 417 | 201 | 182 | 197 | 245 | 330 | 85 | 52 | 100 | 100 | 105 |
| 3 | 87 | 420 | 198 | 179 | 191 | 247 | 330 | 85 | 44 | 97 | 102 | 105 |
| 4 | 87 | 416 | 197 | 179 | 190 | 245 | 289 | 85 | 41 | 97 | 101 | 104 |
| 5 | 88 | 417 | 196 | 179 | 190 | 247 | 236 | 85 | 40 | 97 | 100 | 102 |
| 6 | 95 | 366 | 196 | 182 | 193 | 246 | 242 | 85 | 39 | 99 | 100 | 102 |
| 7 | 89 | 339 | 196 | 182 | 190 | 244 | 173 | 85 | 41 | 100 | 100 | 102 |
| 8 | 91 | 300 | 196 | 182 | 192 | 300 | 130 | 71 | 39 | 123 | 100 | 102 |
| 9 | 94 | 196 | 196 | 182 | 234 | 330 | 162 | 63 | 38 | 103 | 100 | 102 |
| 10 | 94 | 198 | 196 | 182 | 220 | 330 | 148 | 63 | 38 | 100 | 100 | 102 |
| 11 | 90 | 200 | 198 | 182 | 194 | 330 | 133 | 64 | 45 | 100 | 100 | 102 |
| 12 | 87 | 200 | 233 | 181 | 191 | 332 | 130 | 78 | 42 | 100 | 100 | 102 |
| 13 | 87 | 196 | 203 | 182 | 190 | 398 | 128 | 66 | 39 | 100 | 100 | 103 |
| 14 | 87 | 196 | 200 | 182 | 221 | 363 | 127 | 64 | 39 | 100 | 100 | 104 |
| 15 | 87 | 196 | 200 | 187 | 242 | 342 | 132 | 63 | 38 | 100 | 100 | 104 |
| 16 | 87 | 196 | 246 | 201 | 237 | 341 | 184 | 63 | 38 | 100 | 100 | 104 |
| 17 | 87 | 196 | 317 | 194 | 257 | 345 | 154 | 59 | 37 | 100 | 100 | 105 |
| 18 | 87 | 196 | 227 | 193 | 253 | 340 | 136 | 59 | 36 | 100 | 100 | 105 |
| 19 | 87 | 196 | 259 | 191 | 252 | 336 | 130 | 59 | 37 | 100 | 101 | 105 |
| 20 | 85 | 196 | 257 | 188 | 252 | 334 | 134 | 59 | 36 | 100 | 102 | 105 |
| 21 | 85 | 196 | 253 | 184 | 248 | 342 | 140 | 47 | 36 | 100 | 102 | 105 |
| 22 | 85 | 196 | 253 | 182 | 247 | 350 | 133 | 48 | 36 | 100 | 102 | 107 |
| 23 | 85 | 196 | 249 | 180 | 249 | 338 | 130 | 51 | 36 | 100 | 102 | 107 |
| 24 | 85 | 196 | 249 | 182 | 247 | 334 | 130 | 42 | 36 | 100 | 103 | 107 |
| 25 | 85 | 196 | 249 | 180 | 249 | 334 | 129 | 56 | 36 | 100 | 102 | 107 |
| 26 | 85 | 211 | 249 | 179 | 249 | 334 | 127 | 60 | 35 | 100 | 103 | 100 |
| 27 | 85 | 212 | 217 | 179 | 249 | 334 | 127 | 46 | 35 | 100 | 105 | 97 |
| 28 | 85 | 203 | 182 | 179 | 247 | 336 | 127 | 44 | 73 | 100 | 105 | 99 |
| 29 | 85 | 200 | 182 | 179 | --- | 338 | 127 | 42 | 97 | 100 | 105 | 97 |
| 30 | 85 | 203 | 182 | 207 | --- | 334 | 100 | 40 | 99 | 100 | 105 | 97 |
| 31 | 84 | --- | 182 | 259 | --- | 334 | --- | 39 | --- | 100 | 105 | --- |
| TOTAL | 2704 | 7288 | 6763 | 5782 | 6279 | 9849 | 5029 | 1941 | 1324 | 3121 | 3145 | 3093 |
| MEAN | 87.2 | 243 | 218 | 187 | 224 | 318 | 168 | 62.6 | 44.1 | 101 | 101 | 103 |
| MAX | 95 | 420 | 317 | 259 | 257 | 398 | 331 | 85 | 99 | 123 | 105 | 107 |
| MIN | 84 | 196 | 182 | 179 | 190 | 244 | 100 | 39 | 35 | 97 | 100 | 97 |
| CFSM | .52 | 1.45 | 1.31 | 1.12 | 1.34 | 1.90 | 1.00 | .37 | .26 | .60 | .61 | .62 |
| IN. | .60 | 1.62 | 1.51 | 1.29 | 1.40 | 2.19 | 1.12 | .43 | .29 | .70 | .70 | .69 |

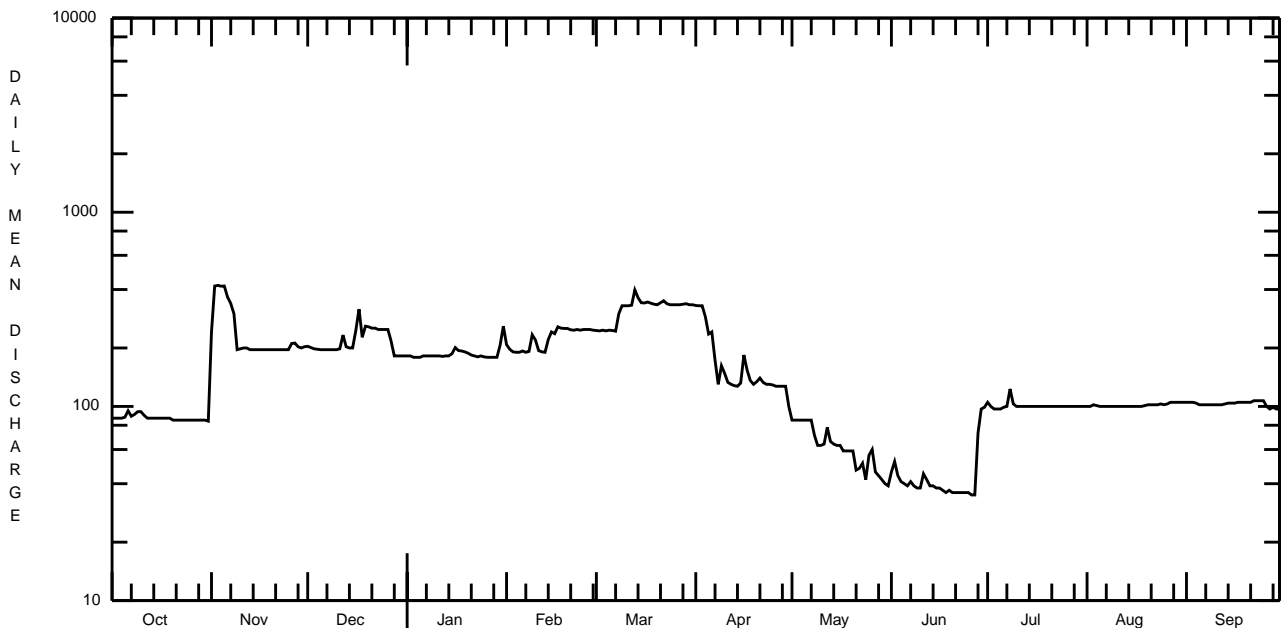
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2001, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 167 | 182 | 297 | 279 | 279 | 258 | 194 | 161 | 159 | 149 | 160 | 182 |
| MAX | 601 | 588 | 753 | 728 | 783 | 682 | 608 | 548 | 773 | 408 | 587 | 558 |
| (WY) | 1982 | 1997 | 1987 | 1943 | 1952 | 1956 | 1950 | 1956 | 1947 | 1987 | 1956 | 1956 |
| MIN | 17.3 | 6.27 | 3.79 | 10.4 | 13.2 | 17.0 | 2.78 | 5.78 | 5.37 | 20.0 | 31.6 | 40.2 |
| (WY) | 1935 | 1935 | 1945 | 1936 | 1935 | 1992 | 1935 | 1935 | 1935 | 1968 | 1935 | 1935 |

BEAVER RIVER BASIN

03101500 SHENANGO RIVER AT PYMATUNING DAM, PA--Continued

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | | FOR 2001 WATER YEAR | | WATER YEARS 1935 - 2001 | |
|--------------------------|------------------------|--------|---------------------|-----------|-------------------------|-------------|
| ANNUAL TOTAL | 52574 | | 56318 | | 205 | |
| ANNUAL MEAN | 144 | | 154 | | 330 | |
| HIGHEST ANNUAL MEAN | | | | | 16.6 | 1956 |
| LOWEST ANNUAL MEAN | | | | | 1240 | 1935 |
| HIGHEST DAILY MEAN | 524 | Jan 11 | 420 | Nov 3 | .40 | Jan 28 1937 |
| LOWEST DAILY MEAN | 21 | Feb 2 | 35 | Jun 26,27 | .73 | Aug 25 1935 |
| ANNUAL SEVEN-DAY MINIMUM | 27 | Feb 2 | 36 | Jun 21 | 1540 | Jun 6 1935 |
| MAXIMUM PEAK FLOW | | | 452 | Dec 17 | 9.20 | Sep 4 1937 |
| MAXIMUM PEAK STAGE | | | 5.68 | Dec 17 | 1.23 | Sep 4 1937 |
| ANNUAL RUNOFF (CFMS) | .86 | | .92 | | 1.23 | |
| ANNUAL RUNOFF (INCHES) | 11.71 | | 12.55 | | 16.71 | |
| 10 PERCENT EXCEEDS | 350 | | 271 | | 552 | |
| 50 PERCENT EXCEEDS | 86 | | 107 | | 134 | |
| 90 PERCENT EXCEEDS | 35 | | 54 | | 26 | |



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001