

EAST MAHANTANGO CREEK BASIN

01555500 EAST MAHANTANGO CREEK NEAR DALMATIA, PA

LOCATION.--Lat 40°36'40", long 76°54'44", Northumberland County, Hydrologic Unit 02050301, on right bank at bridge on SR 3017, 2.0 mi upstream from mouth, and 3.2 mi south of Dalmatia.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--October 1929 to current year. Prior to October 1945, published as Mahantango Creek East near Dalmatia.

REVISED RECORDS.--WSP 891: 1933(M). WSP 1302: 1930(M), 1938(M).

GAGE.--Water-stage recorder. Datum of gage is 401.22 ft above sea level. Oct. 1, 1929, to Feb. 11, 1930, nonrecording gage, and Feb. 12, 1930, to Nov. 18, 1973, water-stage recorder at present site at datum 0.72 ft lower. Nov. 19, 1973, to June 18, 1974, nonrecording gage at site 2 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Intermittent regulation evident during low flows. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,900 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|---------|------|---------------------------------|---------------------|---------|------|---------------------------------|---------------------|
| Feb. 15 | ---- | Unknown | Ice Jam | Mar. 22 | 0445 | *3510 | *7.47 |

**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 | 1190 | 58 | 146 | 118 | e90.0 | 695 | 411 | 180 | 173 | 143 | 105 | 67 |
| 2 | 596 | 61 | 134 | 102 | e90.0 | 555 | 362 | 177 | 173 | 125 | 95 | 134 |
| 3 | 382 | 232 | 129 | 106 | e80.0 | 444 | 333 | 163 | 155 | 116 | 129 | 99 |
| 4 | 323 | 165 | 123 | 108 | e80.0 | 373 | 445 | 145 | 134 | 117 | 176 | 68 |
| 5 | 356 | 127 | 117 | 135 | e85.0 | 326 | 422 | 142 | 128 | 108 | 117 | 53 |
| 6 | 276 | 113 | 120 | 112 | e85.0 | 278 | 356 | 142 | 423 | 95 | 93 | 44 |
| 7 | 225 | 103 | 128 | 98 | e80.0 | 242 | 316 | 128 | 443 | 84 | 95 | 40 |
| 8 | 185 | 93 | 108 | 94 | e68.0 | 224 | 308 | 120 | 299 | 75 | 84 | 37 |
| 9 | 163 | 86 | 98 | 88 | e65.0 | 209 | 1150 | 113 | 237 | 71 | 69 | 36 |
| 10 | 242 | 85 | 95 | 123 | e70.0 | 192 | 1090 | 134 | 197 | 72 | 61 | 35 |
| 11 | 333 | 82 | 102 | 397 | e80.0 | 200 | 773 | 398 | 170 | 68 | 54 | 35 |
| 12 | 267 | 75 | 95 | 340 | e90 | 589 | 598 | 220 | 229 | 61 | 48 | 36 |
| 13 | 224 | 71 | 85 | 278 | e70 | 536 | 470 | 192 | 425 | 56 | 50 | 255 |
| 14 | 243 | 70 | 361 | e200 | e270 | 436 | 399 | 308 | 412 | 57 | 57 | 157 |
| 15 | 196 | 69 | 1350 | e170 | e550 | 378 | 351 | 214 | 348 | 105 | 49 | 104 |
| 16 | 165 | 64 | 796 | e180 | e450 | 334 | 317 | 180 | 293 | 140 | 83 | 79 |
| 17 | 152 | 63 | 521 | 133 | e400 | 505 | 327 | 160 | 234 | 98 | 66 | 65 |
| 18 | 140 | 59 | 393 | e105 | e340 | 486 | 391 | 147 | 209 | 76 | 48 | 55 |
| 19 | 121 | 57 | 317 | e175 | 330 | 434 | 349 | 166 | 201 | 66 | 46 | 56 |
| 20 | 124 | 56 | 277 | e275 | 269 | 385 | 315 | 213 | 167 | 64 | 44 | 126 |
| 21 | 118 | 57 | 285 | e200 | 228 | 719 | 337 | 212 | 182 | 61 | 40 | 109 |
| 22 | 104 | 58 | 238 | e145 | 220 | 2910 | 469 | 192 | 793 | 60 | 36 | 79 |
| 23 | 100 | 54 | 207 | e145 | 332 | 1510 | 425 | 199 | 428 | 62 | 35 | 65 |
| 24 | 89 | 53 | 188 | e140 | 464 | 1010 | 371 | 318 | 298 | 52 | 39 | 60 |
| 25 | 82 | 74 | e130 | e120 | 541 | 743 | 324 | 617 | 238 | 49 | 43 | 57 |
| 26 | 76 | 105 | e140 | e140 | 604 | 609 | 289 | 436 | 238 | 46 | 37 | 69 |
| 27 | 72 | 228 | e150 | e105 | 511 | 484 | 272 | 338 | 258 | 45 | 34 | 73 |
| 28 | 67 | 249 | e130 | e75.0 | 1170 | 823 | 246 | 291 | 204 | 45 | 43 | 60 |
| 29 | 64 | 197 | e130 | e75.0 | 971 | 715 | 222 | 248 | 184 | 70 | 60 | 49 |
| 30 | 61 | 168 | 135 | e80.0 | --- | 574 | 200 | 213 | 172 | 93 | 42 | 47 |
| 31 | 59 | --- | 118 | e90.0 | --- | 479 | --- | 185 | --- | 76 | 37 | --- |
| TOTAL | 6795 | 3032 | 7346 | 4652.0 | 8683.0 | 18397 | 12638 | 6891 | 8045 | 2456 | 2015 | 2249 |
| MEAN | 219 | 101 | 237 | 150 | 299 | 593 | 421 | 222 | 268 | 79.2 | 65.0 | 75.0 |
| MAX | 1190 | 249 | 1350 | 397 | 1170 | 2910 | 1150 | 617 | 793 | 143 | 176 | 255 |
| MIN | 59 | 53 | 85 | 75 | 65 | 192 | 200 | 113 | 128 | 45 | 34 | 35 |
| CFSM | 1.35 | .62 | 1.46 | .93 | 1.85 | 3.66 | 2.60 | 1.37 | 1.66 | .49 | .40 | .46 |
| IN. | 1.56 | .70 | 1.69 | 1.07 | 1.99 | 4.22 | 2.90 | 1.58 | 1.85 | .56 | .46 | .52 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 126 | 210 | 282 | 281 | 311 | 429 | 368 | 280 | 176 | 99.8 | 75.9 | 98.3 |
| MAX | 1025 | 553 | 852 | 1259 | 831 | 1212 | 1160 | 986 | 2361 | 504 | 585 | 1112 |
| (WY) | 1977 | 1951 | 1997 | 1996 | 1981 | 1994 | 1993 | 1989 | 1972 | 1947 | 1933 | 1975 |
| MIN | 5.14 | 8.65 | 14.0 | 12.4 | 54.3 | 111 | 126 | 67.5 | 29.7 | 13.5 | 9.36 | 3.98 |
| (WY) | 1931 | 1931 | 1931 | 1981 | 1934 | 1931 | 1965 | 1941 | 1965 | 1965 | 1957 | 1932 |

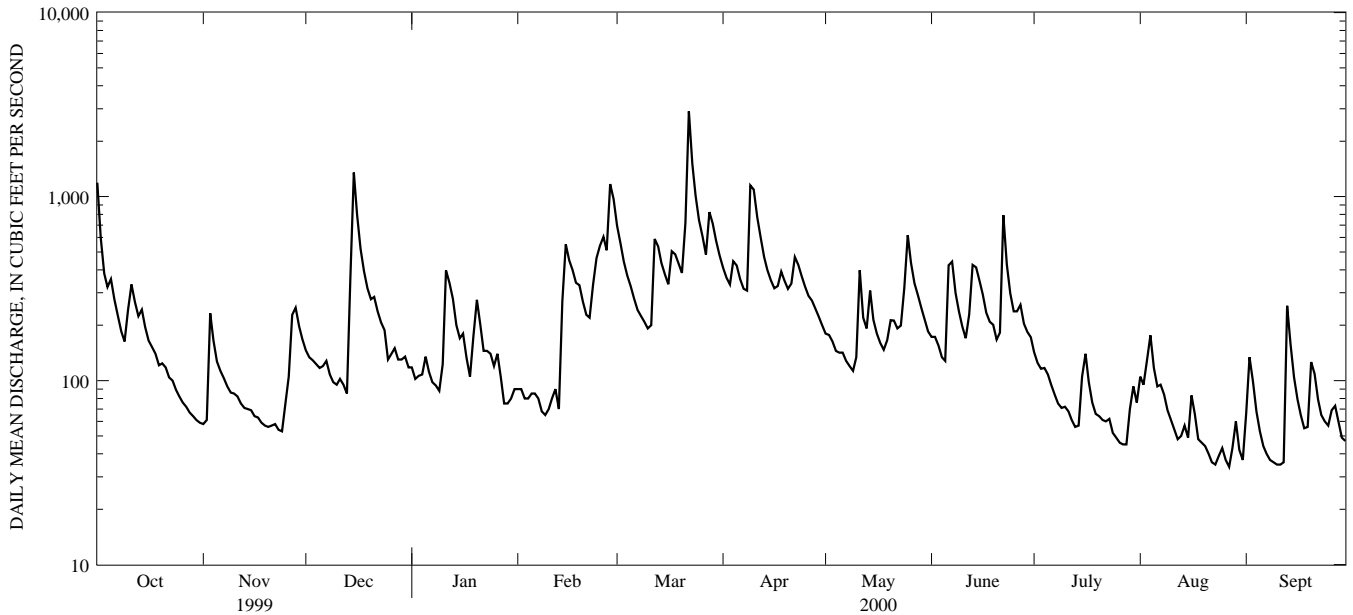
e Estimated.

EAST MAHANTANGO CREEK BASIN

01555500 EAST MAHANTANGO CREEK NEAR DALMATIA, PA--Continued

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | | FOR 2000 WATER YEAR | | WATER YEARS 1930 - 2000 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 65328.6 | | 83199.0 | | 228 | |
| ANNUAL MEAN | 179 | | 227 | | 454 | |
| HIGHEST ANNUAL MEAN | | | | | 1972 | |
| LOWEST ANNUAL MEAN | | | | | 70.7 | |
| HIGHEST DAILY MEAN | 2400 | Sep 17 | 2910 | Mar 22 | 39000 | Jun 22 1972 |
| LOWEST DAILY MEAN | 5.3 | Aug 8 | 34 | Aug 27 | 1.5 | Sep 21 1932 |
| ANNUAL SEVEN-DAY MINIMUM | 6.3 | Aug 6 | 38 | Sep 6 | 1.7 | Sep 16 1932 |
| INSTANTANEOUS PEAK FLOW | | | 3510 | Mar 22 | a69900 | Jun 22 1972 |
| INSTANTANEOUS PEAK STAGE | | | 7.47 | Mar 22 | b26.62 | Jun 22 1972 |
| INSTANTANEOUS LOW FLOW | | | 33 | Aug 27 | 1.3 | Oct 7 1957c |
| ANNUAL RUNOFF (CFSM) | 1.10 | | 1.40 | | 1.41 | |
| ANNUAL RUNOFF (INCHES) | 15.00 | | 19.10 | | 19.09 | |
| 10 PERCENT EXCEEDS | 352 | | 466 | | 497 | |
| 50 PERCENT EXCEEDS | 115 | | 141 | | 120 | |
| 90 PERCENT EXCEEDS | 16 | | 56 | | 23 | |

- a Ice jam.
- b From rating curve extended above 5,000 ft³/s on basis of slope-area measurement of peak flow.
- c From floodmark in gage.
- d Also Nov. 3, 1964.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000