

CONODOGUINET CREEK BASIN

01569800 LETORT SPRING RUN NEAR CARLISLE, PA

LOCATION.--Lat 40°14'05", long 77°08'23", Cumberland County, Hydrologic Unit 02050305, on right bank 320 ft downstream from bridge on U.S. Highway 11, 0.2 mi upstream from mouth, 3.1 mi west of New Kingstown, and 3.7 mi east of Carlisle.

DRAINAGE AREA.--21.6 mi².

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 402.05 ft above sea level, using NAVD 1988 datum.

REMARKS.--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of 8.8 ft, discharge not determined, and flood in June 1972 reached a stage of 8.4 ft, from information by local resident, discharge not determined.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 180 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|---------|------|---------------------------------|---------------------|----------------------------------|------|---------------------------------|---------------------|
| Mar. 30 | 0415 | *167 | *4.57 | (No peaks above base discharge.) | | | |

**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 | 30 | 20 | 23 | 32 | 38 | 33 | 66 | 44 | 36 | 33 | 22 | 21 |
| 2 | 29 | 20 | 22 | 32 | 40 | 32 | 62 | 43 | 40 | 30 | 22 | 21 |
| 3 | 28 | 21 | 21 | 29 | 39 | 32 | 59 | 43 | 37 | 29 | 22 | 21 |
| 4 | 27 | 24 | 21 | 26 | 38 | 35 | 57 | 43 | 34 | 36 | 42 | 20 |
| 5 | 27 | 24 | 24 | 28 | 38 | 36 | 56 | 42 | 31 | 37 | 36 | 20 |
| 6 | 26 | 24 | 23 | 29 | 37 | 34 | 58 | 42 | 31 | 31 | 27 | 19 |
| 7 | 26 | 23 | 23 | 30 | 38 | 35 | 54 | 40 | 30 | 30 | 25 | 20 |
| 8 | 25 | 24 | 23 | 30 | 37 | 36 | 52 | 40 | 31 | 39 | 24 | 19 |
| 9 | 25 | 25 | 22 | 29 | 36 | 37 | 57 | 40 | 32 | 31 | 23 | 19 |
| 10 | 25 | 38 | 22 | 27 | 36 | 37 | 54 | 39 | 32 | 31 | 32 | 18 |
| 11 | 24 | 25 | 22 | 25 | 36 | 36 | 58 | 38 | 32 | 30 | 26 | 19 |
| 12 | 24 | 24 | 20 | 24 | 35 | 36 | 54 | 38 | 36 | 30 | 25 | 18 |
| 13 | 24 | 24 | 19 | 24 | 35 | 49 | 52 | 37 | 34 | 29 | 27 | 18 |
| 14 | 24 | 23 | 24 | 24 | 36 | 40 | 51 | 35 | 32 | 29 | 26 | 19 |
| 15 | 24 | 23 | 24 | 25 | 36 | 40 | 54 | 35 | 32 | 28 | 24 | 19 |
| 16 | 24 | 22 | 32 | 28 | 37 | 42 | 70 | 35 | 32 | 27 | 24 | 19 |
| 17 | 26 | 22 | 109 | 27 | 36 | 41 | 63 | 35 | 32 | 25 | 23 | 18 |
| 18 | 36 | 22 | 66 | 27 | 35 | 40 | 60 | 34 | 31 | 26 | 22 | 18 |
| 19 | 26 | 22 | 57 | 38 | 34 | 39 | 58 | 35 | 31 | 26 | 22 | 18 |
| 20 | 25 | 21 | 50 | 38 | 33 | 38 | 59 | 35 | 31 | 25 | 23 | 22 |
| 21 | 25 | 21 | 46 | 36 | 33 | 57 | 59 | 44 | 31 | 25 | 23 | 19 |
| 22 | 25 | 21 | 43 | 35 | 33 | 57 | 57 | 41 | 44 | 25 | 21 | 19 |
| 23 | 24 | 21 | 42 | 34 | 33 | 53 | 54 | 61 | 38 | 24 | 21 | 19 |
| 24 | 24 | 21 | 40 | 33 | 32 | 50 | 53 | 39 | 34 | 24 | 21 | 33 |
| 25 | 24 | 21 | 39 | 32 | 34 | 48 | 51 | 38 | 32 | 24 | 21 | 45 |
| 26 | 24 | 37 | 37 | 32 | 33 | 46 | 50 | 39 | 32 | 24 | 21 | 24 |
| 27 | 24 | 25 | 36 | 31 | 34 | 44 | 50 | 38 | 29 | 23 | 26 | 22 |
| 28 | 22 | 24 | 35 | 29 | 34 | 43 | 48 | 36 | 28 | 24 | 22 | 21 |
| 29 | 22 | 29 | 32 | 28 | --- | 48 | 46 | 35 | 28 | 24 | 21 | 20 |
| 30 | 22 | 25 | 33 | 40 | --- | 101 | 45 | 35 | 28 | 25 | 22 | 20 |
| 31 | 23 | --- | 32 | 38 | --- | 72 | --- | 35 | --- | 25 | 22 | --- |
| TOTAL | 784 | 716 | 1062 | 940 | 996 | 1367 | 1667 | 1214 | 981 | 869 | 758 | 628 |
| MEAN | 25.3 | 23.9 | 34.3 | 30.3 | 35.6 | 44.1 | 55.6 | 39.2 | 32.7 | 28.0 | 24.5 | 20.9 |
| MAX | 36 | 38 | 109 | 40 | 40 | 101 | 70 | 61 | 44 | 39 | 42 | 45 |
| MIN | 22 | 20 | 19 | 24 | 32 | 32 | 45 | 34 | 28 | 23 | 21 | 18 |
| CFSM | 1.17 | 1.10 | 1.59 | 1.40 | 1.65 | 2.04 | 2.57 | 1.81 | 1.51 | 1.30 | 1.13 | .97 |
| IN. | 1.35 | 1.23 | 1.83 | 1.62 | 1.72 | 2.35 | 2.87 | 2.09 | 1.69 | 1.50 | 1.31 | 1.08 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 34.9 | 35.4 | 41.3 | 44.1 | 49.4 | 58.8 | 61.3 | 52.0 | 44.3 | 39.2 | 34.2 | 33.6 |
| MAX | 79.6 | 62.2 | 94.5 | 92.0 | 93.9 | 123 | 126 | 90.9 | 71.3 | 68.3 | 54.5 | 68.4 |
| (WY) | 1977 | 1997 | 1995 | 1979 | 1998 | 1994 | 1993 | 1998 | 1996 | 1996 | 1989 | 1996 |
| MIN | 20.0 | 23.0 | 22.4 | 24.2 | 22.3 | 30.4 | 29.3 | 32.9 | 25.8 | 23.4 | 20.7 | 20.9 |
| (WY) | 1993 | 1992 | 1982 | 1989 | 1989 | 1989 | 1989 | 1999 | 1999 | 1987 | 1992 | 2001 |

CONODOGUINET CREEK BASIN

01569800 LETORT SPRING RUN NEAR CARLISLE, PA--Continued

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | | FOR 2001 WATER YEAR | | WATER YEARS 1976 - 2001 | |
|--------------------------|------------------------|--------|---------------------|---------------------|-------------------------|--------------------------|
| ANNUAL TOTAL | 13086 | | 11982 | | | |
| ANNUAL MEAN | 35.8 | | 32.8 | | 44.0 | |
| HIGHEST ANNUAL MEAN | | | | | 62.4 | 1998 |
| LOWEST ANNUAL MEAN | | | | | 28.3 | 1992 |
| HIGHEST DAILY MEAN | 109 | Dec 17 | 109 | Dec 17 | 452 | Jan 24 1979 |
| LOWEST DAILY MEAN | 19 | Dec 13 | 18 | Sep 10 ^a | 10 | Aug 14 1976 |
| ANNUAL SEVEN-DAY MINIMUM | 21 | Nov 19 | 18 | Sep 12 | 18 | Aug 30 1992 |
| MAXIMUM PEAK FLOW | | | 167 | Mar 30 | b1400 | Jan 24 1979 |
| MAXIMUM PEAK STAGE | | | 4.57 | Mar 30 | 6.53 | Jan 24 1979 |
| INSTANTANEOUS LOW FLOW | | | 16 | Sep 9 | .00 | Aug 15 1976 ^c |
| ANNUAL RUNOFF (CFSM) | 1.66 | | 1.52 | | 2.04 | |
| ANNUAL RUNOFF (INCHES) | 22.54 | | 20.64 | | 27.65 | |
| 10 PERCENT EXCEEDS | 55 | | 50 | | 70 | |
| 50 PERCENT EXCEEDS | 32 | | 31 | | 38 | |
| 90 PERCENT EXCEEDS | 23 | | 21 | | 24 | |

a Also Sept. 11, 12, 17-19.

b From rating curve extended above 680 ft³/s on basis of slope-area measurement at gage height 6.43 ft.

c Part of day.

