

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA

LOCATION.--Lat 40°32'57", long 80°12'21", Allegheny County, Hydrologic Unit 05030101, near left bank 50 ft upstream from Dashields Dam, 1.0 mi downstream from Narrows Run, 1.0 mi northwest of Sewickley, and 13.3 mi downstream from confluence of Allegheny and Monongahela Rivers.

DRAINAGE AREA.--19,500 mi², approximately.

PERIOD OF RECORD.--October 1933 to current year.

REVISED RECORDS.--WSP 1305: 1938-40 (adjusted monthly runoff). WSP 1435: 1934.

GAGE.--Water-stage recorder and fixed-crest concrete dam control. Datum of gage is 680.00 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 22, 1933, nonrecording gage, Nov. 22, 1933 to May 4, 1981, water-stage recorder at site 1.5 mi upstream, Nov. 14, 1988 to July 12, 1990, nonrecording gage, and July 13, 1990 to June 13, 1991, water-stage recorder at present site at datum 10.41 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by locks, and by many reservoirs above station. Combined capacity of reservoirs and lakes, excluding that of Chautauqua Lake (station 03013946), but including Lake Lynn, Deep Creek Reservoir (station 03076000), and 15 smaller reservoirs, 2,773,000 acre-ft. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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 | 8700 | 5690 | 29900 | 15200 | 11400 | 74700 | 26000 | 24900 | 39300 | 18300 | 19100 | 8820 |
| 2 | 10900 | 10200 | 27200 | 14300 | 11500 | 70400 | 23800 | 28900 | 33800 | 17400 | 20200 | 7550 |
| 3 | 6590 | 25900 | 25100 | 15100 | 10400 | 65100 | 24300 | 26800 | 25700 | 13900 | 19700 | 7580 |
| 4 | 6730 | 35900 | 23200 | 25500 | 10500 | 57300 | 65400 | 26000 | 21900 | 17300 | 25300 | 8640 |
| 5 | 7570 | 33500 | 22100 | 50900 | 11200 | 46100 | 119000 | 24800 | 20200 | 15200 | 27800 | 9920 |
| 6 | 5880 | 28900 | 21800 | 52400 | 9640 | 41400 | 102000 | 26000 | 23000 | 16000 | 37500 | 8280 |
| 7 | 8260 | 22100 | 25400 | 50100 | 9210 | 34000 | 86700 | 21200 | 42600 | 11600 | 77600 | 9320 |
| 8 | 7960 | 22200 | 24600 | 47300 | 10200 | 27900 | 82100 | 20200 | 41100 | 12000 | 50100 | 8630 |
| 9 | 5570 | 17400 | 23200 | 42700 | 10200 | 24500 | 101000 | 21000 | 32900 | 7810 | 38600 | 9370 |
| 10 | 7450 | 16200 | 21400 | 34400 | 10300 | 21000 | 95700 | 16400 | 28500 | 9190 | 33400 | 9630 |
| 11 | 15000 | 14900 | 24900 | 33000 | 15500 | 20200 | 81900 | 16500 | 22700 | 19300 | 31300 | 9560 |
| 12 | 13100 | 10700 | 37300 | 31900 | 32300 | 25000 | 80900 | 17800 | 19400 | 24600 | 25300 | 10800 |
| 13 | 9490 | 11000 | 33800 | 30900 | 33200 | 30100 | 74800 | 17800 | 19700 | 17000 | 21600 | 13900 |
| 14 | 11400 | 10100 | 50200 | 32900 | 75700 | 31600 | 61700 | 16100 | 21700 | 13300 | 19300 | 16100 |
| 15 | 8470 | 9890 | 85900 | 32700 | 99800 | 26900 | 56300 | 17300 | 28500 | 14800 | 17300 | 15300 |
| 16 | 11700 | 8620 | 69200 | 24000 | 68700 | 29800 | 47600 | 16100 | 27400 | 13100 | 17800 | 13000 |
| 17 | 8240 | 8880 | 61700 | e20600 | 62800 | 37100 | 47300 | 13300 | 32500 | 11000 | 13500 | 12000 |
| 18 | 8230 | 8090 | 51700 | e15800 | 66000 | 42200 | 64300 | 14400 | 32600 | 13800 | 13500 | 13100 |
| 19 | 9410 | 8240 | 48400 | 17700 | 138000 | 37400 | 62600 | 17700 | 28700 | 10800 | 11200 | 11000 |
| 20 | 8120 | 7570 | 45600 | 18400 | 163000 | 34900 | 56400 | 38500 | 32400 | 16000 | 17300 | 11400 |
| 21 | 6690 | 6830 | 39800 | 18300 | 79300 | 43400 | 52300 | 47700 | 36300 | 18400 | 19900 | 11200 |
| 22 | 6420 | 7290 | 34600 | 19400 | 68600 | 58000 | 54900 | 42000 | 36800 | 17300 | 19700 | 9960 |
| 23 | 6860 | 6010 | 30100 | 14700 | 63200 | 53400 | 69100 | 41900 | 40300 | 13100 | 14700 | 8990 |
| 24 | 6280 | 7780 | 24700 | 11700 | 67500 | 51000 | 70200 | 54200 | 35300 | 10500 | 11800 | 13300 |
| 25 | 5640 | 8810 | 19700 | 15200 | 70600 | 43900 | 69800 | 56900 | 29800 | 11400 | 12900 | 19000 |
| 26 | 7530 | 25100 | 18000 | e12300 | 79300 | 39000 | 63700 | 53900 | 22600 | 10100 | 12000 | 25300 |
| 27 | 9020 | 53600 | 17500 | e11100 | 83000 | 36100 | 53700 | 46900 | 24100 | 7720 | 10900 | 36000 |
| 28 | 6970 | 44400 | 15500 | e10200 | 84500 | 35500 | 45900 | 45300 | 28800 | 13200 | 11800 | 31200 |
| 29 | 8010 | 34800 | 14700 | 9710 | 84400 | 33800 | 40900 | 50100 | 28900 | 9910 | 11800 | 28300 |
| 30 | 7990 | 32100 | 14400 | 10100 | --- | 31600 | 32200 | 47900 | 24100 | 9800 | 9040 | 24100 |
| 31 | 5210 | --- | 15300 | 10800 | --- | 29100 | --- | 42900 | --- | 13200 | 9550 | --- |
| TOTAL | 255390 | 542700 | 996900 | 749310 | 1539950 | 1232400 | 1912500 | 951400 | 881600 | 427030 | 681490 | 421250 |
| MEAN | 8238 | 18090 | 32160 | 24170 | 53100 | 39750 | 63750 | 30690 | 29390 | 13780 | 21980 | 14040 |
| MAX | 15000 | 53600 | 85900 | 52400 | 163000 | 74700 | 119000 | 56900 | 42600 | 24600 | 77600 | 36000 |
| MIN | 5210 | 5690 | 14400 | 9710 | 9210 | 20200 | 23800 | 13300 | 19400 | 7720 | 9040 | 7550 |
| CFSM | .42 | .93 | 1.65 | 1.24 | 2.72 | 2.04 | 3.27 | 1.57 | 1.51 | .71 | 1.13 | .72 |
| IN. | .49 | 1.04 | 1.90 | 1.43 | 2.94 | 2.35 | 3.65 | 1.81 | 1.68 | .81 | 1.30 | .80 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2000, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|-------|-------|
| MEAN | 15150 | 26010 | 40110 | 45210 | 49750 | 65620 | 56490 | 38050 | 24320 | 15840 | 13190 | 11770 |
| MAX | 51010 | 83490 | 88890 | 132000 | 91820 | 147900 | 124500 | 90380 | 70490 | 50770 | 48180 | 39450 |
| (WY) | 1955 | 1986 | 1973 | 1937 | 1939 | 1936 | 1940 | 1996 | 1989 | 1972 | 1956 | 1996 |
| MIN | 3073 | 3991 | 6705 | 10470 | 11610 | 18670 | 16790 | 9593 | 5001 | 3892 | 3565 | 3081 |
| (WY) | 1964 | 1954 | 1961 | 1977 | 1934 | 1969 | 1946 | 1934 | 1934 | 1966 | 1957 | 1946 |

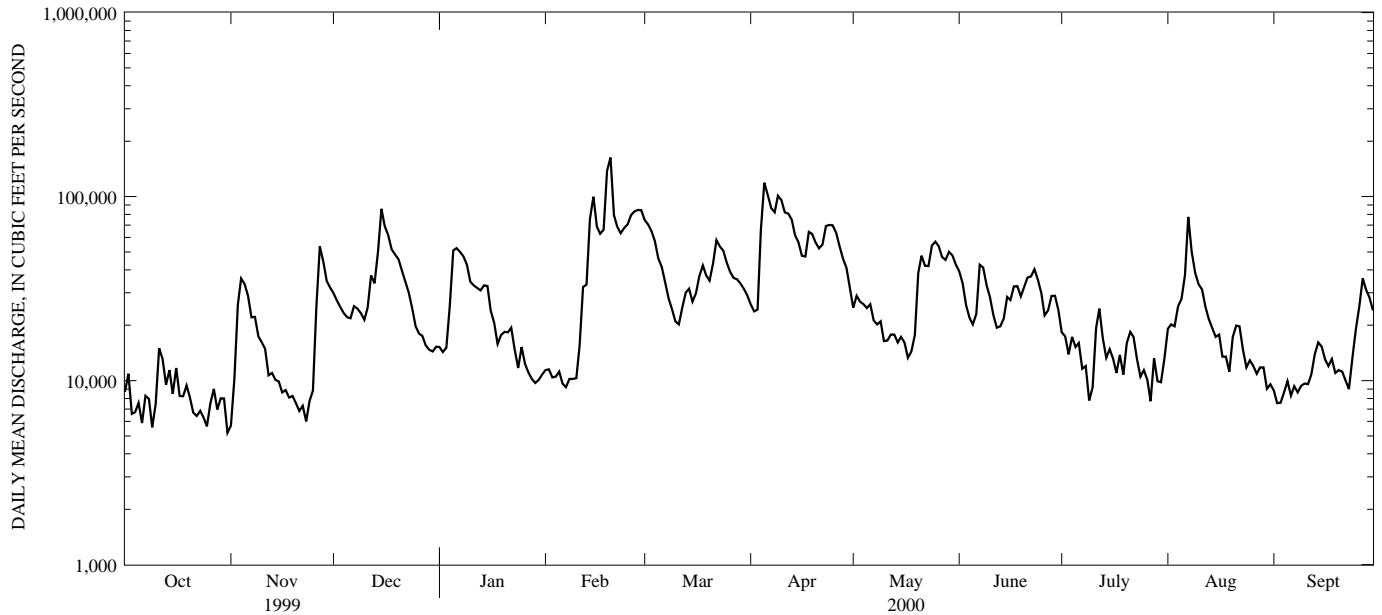
e Estimated.

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | | FOR 2000 WATER YEAR | | WATER YEARS 1934 - 2000 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 9675690 | | 10591920 | | | |
| ANNUAL MEAN | 26510 | | 28940 | | 33380 | |
| HIGHEST ANNUAL MEAN | | | | | 46520 | |
| LOWEST ANNUAL MEAN | | | | | 21110 | |
| HIGHEST DAILY MEAN | 156000 | Jan 25 | 163000 | Feb 20 | 465000 | Mar 18 1936 |
| LOWEST DAILY MEAN | 3960 | Sep 12 | 5210 | Oct 31 | 2100 | Sep 4 1957 |
| ANNUAL SEVEN-DAY MINIMUM | 4720 | Aug 31 | 6790 | Oct 20 | 2330 | Sep 1 1957 |
| INSTANTANEOUS PEAK FLOW | | | 196000 | Feb 20 | ^a 574000 | Mar 18 1936 |
| INSTANTANEOUS PEAK STAGE | | | 22.33 | Feb 20 | ^b 34.75 | Mar 18 1936 |
| INSTANTANEOUS LOW FLOW | | | | | 1800 | Sep 4 1957 |
| ANNUAL RUNOFF (CFSM) | 1.36 | | 1.48 | | 1.71 | |
| ANNUAL RUNOFF (INCHES) | 18.46 | | 20.21 | | 23.26 | |
| 10 PERCENT EXCEEDS | 66200 | | 62900 | | 74400 | |
| 50 PERCENT EXCEEDS | 16000 | | 21800 | | 22800 | |
| 90 PERCENT EXCEEDS | 5160 | | 8630 | | 5950 | |

a From rating curve extended above 535,000 ft³/s.
b From floodmarks in gage house, site and datum then in use.



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