

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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6560	5810	5010	e5420	65800	32600	34900	29500	14600	7760	9100	4570
2	6560	5640	5760	e4760	62000	44300	39700	26400	13500	12000	6340	4590
3	6060	9100	5060	6180	63700	43700	41400	22900	12700	11400	5640	5590
4	7820	13400	5490	11100	64700	63500	41500	21500	12700	8730	5700	4840
5	7100	6870	5420	32600	59800	76200	42500	17500	10100	7100	5880	4430
6	6440	6970	5250	37400	57000	72700	44000	17000	9730	5710	6070	4490
7	6600	5570	5480	9680	56800	89900	45700	14500	8440	5820	5100	4630
8	9060	5470	4800	9960	75400	72100	44500	16000	10800	5430	5480	5190
9	12600	6240	6510	17500	80800	59100	48700	17800	7180	6130	5250	7070
10	13600	7130	5710	36900	66500	50600	98300	17000	6770	7760	4530	6050
11	11000	7230	6010	28800	60400	40800	87500	19300	6210	6170	5440	5260
12	9860	7700	7500	27400	50600	36800	86800	17800	5830	5720	5190	3960
13	9590	6480	6980	31900	46600	33600	84500	19000	6000	5440	6070	5890
14	9250	6060	5380	48200	47600	32400	82800	17700	5970	5560	6700	6440
15	6640	5980	9030	77700	43500	32300	73500	16800	7800	5200	6080	4210
16	6940	5060	7530	66000	40000	36300	67300	17700	6640	4320	5770	6270
17	6420	5090	6280	49700	36900	34200	58500	15200	6850	4790	5480	4250
18	7600	4580	4930	53300	35200	57300	52500	18700	5880	5100	5780	5150
19	7120	4590	5790	67700	34900	84600	50000	32300	5780	4660	4180	5470
20	7340	7050	6380	65300	31700	77700	55200	26800	5260	4610	4670	5150
21	6570	5160	7000	58900	30400	68400	60000	18800	5300	5680	4710	5760
22	7810	6090	12300	62500	28500	67300	66700	17500	5110	5050	5140	4710
23	7330	5180	22800	80700	23500	70900	68000	22500	4880	6590	6390	5440
24	6610	6260	25400	122000	21500	61100	77600	32100	6100	5660	6380	4980
25	6100	5880	18800	156000	21100	52900	78500	41700	4780	5490	7410	4920
26	5580	5400	24300	112000	19400	50000	65900	42900	5090	5280	9590	4750
27	5170	6000	10900	92800	18700	45700	59700	36200	5910	5170	8480	4880
28	6220	5260	9820	86800	21300	43100	50400	29000	6430	12900	8300	4840
29	6140	5430	11700	89400	---	39800	42000	23500	7290	13700	5590	6260
30	6350	5400	e8790	81500	---	34400	37200	18600	6530	9430	5110	14100
31	6510	---	e7560	72900	---	35000	---	16800	---	6550	4540	---
TOTAL	234550	188080	279670	1703000	1264300	1639300	1785800	701000	226160	210910	186090	164140
MEAN	7566	6269	9022	54940	45150	52880	59530	22610	7539	6804	6003	5471
MAX	13600	13400	25400	156000	80800	89900	98300	42900	14600	13700	9590	14100
MIN	5170	4580	4800	4760	18700	32300	34900	14500	4780	4320	4180	3960
CFSM	.39	.32	.46	2.82	2.32	2.71	3.05	1.16	.39	.35	.31	.28
IN.	.45	.36	.53	3.25	2.41	3.13	3.41	1.34	.43	.40	.36	.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1999, BY WATER YEAR (WY)

MEAN	15260	26130	40230	45530	49700	66020	56380	38170	24250	15870	13060	11730
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

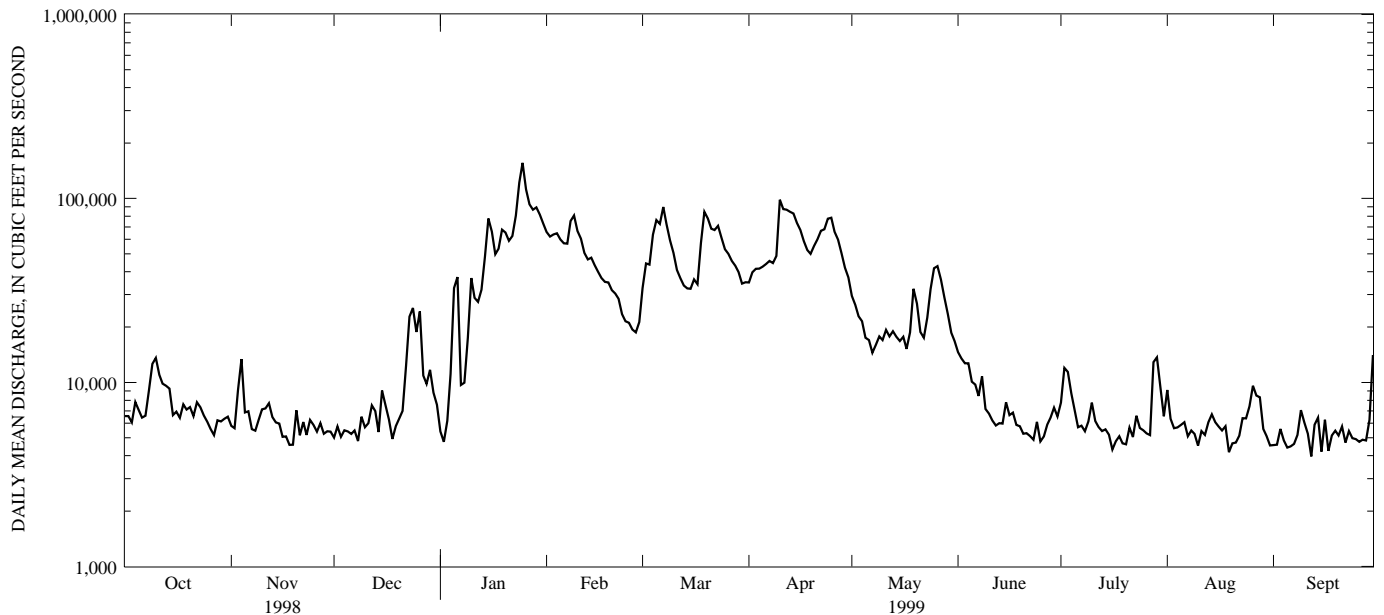
e Estimated.

OHIO RIVER MAIN STEM

03086000 OHIO RIVER AT SEWICKLEY, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR		WATER YEARS 1934 - 1999	
ANNUAL TOTAL	10989720			8583000		33450	
ANNUAL MEAN	30110			23520		46520	
HIGHEST ANNUAL MEAN						1994	
LOWEST ANNUAL MEAN						21110	
HIGHEST DAILY MEAN	e193000	Jan 9		156000	Jan 25	465000	Mar 18 1936
LOWEST DAILY MEAN	4580	Nov 18		3960	Sep 12	2100	Sep 4 1957
ANNUAL SEVEN-DAY MINIMUM	5320	Dec 2		4720	Aug 31	2330	Sep 1 1957
INSTANTANEOUS PEAK FLOW				167000	Jan 25	a574000	Mar 18 1936
INSTANTANEOUS PEAK STAGE				20.79	Jan 25	b34.75	Mar 18 1936
INSTANTANEOUS LOW FLOW						1800	Sep 4 1957
ANNUAL RUNOFF (CFSM)	1.54			1.21		1.72	
ANNUAL RUNOFF (INCHES)	20.97			16.37		23.31	
10 PERCENT EXCEEDS	70200			65800		74600	
50 PERCENT EXCEEDS	15300			8730		22800	
90 PERCENT EXCEEDS	5800			5090		5910	

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



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999