

OHIO RIVER MAIN STEM

03049500 ALLEGHENY RIVER AT NATRONA, PA

LOCATION.--Lat 40°36'55", long 79°43'07", Allegheny County, Hydrologic Unit 05010009, on right bank 520 ft upstream from dam at lock 4 at Natrona, 5.8 mi downstream from Kiskiminetas River, at mile 24.3.

DRAINAGE AREA.--11,410 mi², approximately.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1435: 1939.

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 736.36 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Apr. 14, 1940, nonrecording gage and Apr. 15, 1940 to Oct. 22, 1990, water-stage recorder at same site at datum 0.75 ft higher.

REMARKS.--No estimated daily discharges. Records good except those below 2,000 ft³/s, which are poor. Flow regulated since 1924 by Piney Reservoir, since May 1940 by Crooked Creek Lake, since December 1940 by Tionesta Lake, since June 1941 by Mahoning Creek Lake, since June 1942 by Loyalhanna Lake, since November 1949 by Chautauqua Lake (station 03013946), since November 1951 by Conemaugh River Lake, since June 1952 by East Branch Clarion River Lake (station 03027000), since October 1965 by Allegheny Reservoir (station 03012520), since July 1970 by Union City Reservoir (station 03021518), since January 1974 by Woodcock Creek Lake (station 03022550). Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936 reached a stage of 32.06 ft, discharge, 365,000 ft³/s, determined by U.S. Army Corps of Engineers.

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	6840	2820	20200	10000	6050	49200	13300	15100	18700	10300	7730	3580
2	6820	4210	18300	8620	5730	47000	11600	14900	17600	8660	8610	3230
3	3870	12600	17000	9360	5920	45000	12400	14600	15000	6850	11100	3250
4	3730	22600	16600	20100	5920	40600	39500	13800	13300	7940	15900	3100
5	3230	22400	16400	41500	5780	32400	61100	14600	11300	7030	17700	3600
6	3180	20500	16500	39800	5270	28600	50600	14400	11100	7570	15500	3110
7	4030	16900	18500	39300	5160	21700	45800	12100	12800	6450	17700	3130
8	3330	14200	18000	36900	4860	17500	48400	10400	14600	5320	21900	3380
9	3330	11900	16700	31200	5170	16700	68900	11100	13300	4140	22700	3720
10	3670	9870	14200	26900	5730	14200	63800	9300	10900	4360	20400	5230
11	3580	8670	15100	24900	7170	14500	55800	10000	9120	5320	18500	4380
12	3540	7420	17900	22700	7160	13700	52200	10300	8690	5930	14800	5190
13	3520	7340	18300	22900	10200	14600	45300	11500	10700	5430	13300	5910
14	3860	7010	21100	21600	21400	14500	38800	11400	15900	4970	10300	7030
15	5080	6150	32200	20800	22200	13200	34100	10900	19100	5520	9830	5800
16	5770	5900	31700	18200	23400	13600	30100	10400	20400	4800	8700	5390
17	5220	5590	32400	13000	26100	17400	28000	9640	22900	4970	7570	6220
18	5380	5310	31700	9130	26300	19600	26600	9340	23800	5750	6260	6320
19	5040	5310	29400	10300	25500	19500	24800	10700	20700	5280	5540	6120
20	4550	4730	26500	10500	23000	17900	23100	28100	22800	4430	5430	5120
21	3800	4210	25000	10900	21500	19900	22800	32400	22700	4310	5150	5860
22	3320	4190	25000	8280	23900	24400	28500	29300	21400	4660	5230	4630
23	3780	4270	21800	6760	23700	26700	37100	29200	20900	3330	4650	5300
24	3410	4780	18200	7730	26300	25500	39500	33300	19300	2930	5420	7540
25	3520	4840	15000	7940	38400	23700	41100	35300	15400	4930	5330	11800
26	5250	6750	12500	7090	55200	20900	38300	33300	13400	3600	4470	9260
27	5740	16700	13000	7520	55700	19900	33200	29600	14400	3510	4300	9430
28	5390	21600	10600	6360	56400	19200	28900	26100	16800	4460	4400	8540
29	4810	22000	9270	6020	53900	17700	25400	23600	13700	4320	4590	7670
30	3970	21200	8560	5790	---	16100	20300	21300	12700	4700	3670	6830
31	3180	---	10000	6130	---	13300	---	22400	---	5660	4100	---
TOTAL	133740	311970	597630	518230	603020	698700	1089300	568380	483410	167430	310780	169670
MEAN	4314	10400	19280	16720	20790	22540	36310	18330	16110	5401	10030	5656
MAX	6840	22600	32400	41500	56400	49200	68900	35300	23800	10300	22700	11800
MIN	3180	2820	8560	5790	4860	13200	11600	9300	8690	2930	3670	3100
CFSM	.38	.91	1.69	1.47	1.82	1.98	3.18	1.61	1.41	.47	.88	.50
IN.	.44	1.02	1.95	1.69	1.97	2.28	3.55	1.85	1.58	.55	1.01	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

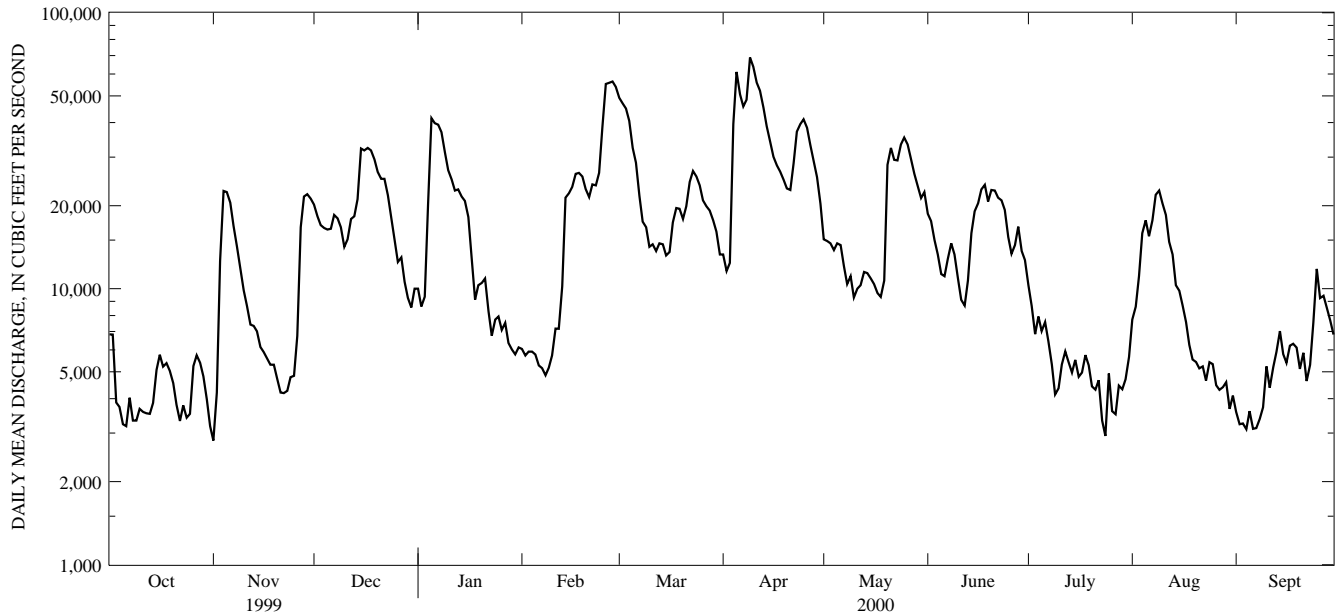
MEAN	9690	16550	23860	24780	27290	38470	35610	22780	14630	9025	6661	6864
MAX	34470	45220	48690	68600	53390	87030	83780	48400	45820	34630	23020	22690
(WY)	1991	1986	1978	1952	1976	1945	1940	1943	1989	1972	1956	1990
MIN	1227	2686	2316	4520	7167	10410	9000	6129	3759	1944	1786	1444
(WY)	1964	1954	1961	1961	1963	1969	1946	1941	1991	1966	1962	1939

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	5266700		5652260			
ANNUAL MEAN	14430		15440		19640	
HIGHEST ANNUAL MEAN					27810	1956
LOWEST ANNUAL MEAN					12680	1999
HIGHEST DAILY MEAN	88900	Jan 25	68900	Apr 9	206000	Dec 31 1942
LOWEST DAILY MEAN	1760	Jan 2	2820	Nov 1	949	Oct 26 1963
ANNUAL SEVEN-DAY MINIMUM	2500	Jan 1	3260	Sep 2	1030	Oct 25 1963
INSTANTANEOUS PEAK FLOW			73500	Apr 9	^a 238000	Dec 30 1942
INSTANTANEOUS PEAK STAGE			16.54	Apr 9	^b 27.46	Dec 30 1942
INSTANTANEOUS LOW FLOW					985	Oct 22 1963
ANNUAL RUNOFF (CFSM)	1.26		1.35		1.72	
ANNUAL RUNOFF (INCHES)	17.17		18.43		23.39	
10 PERCENT EXCEEDS	34500		32300		44800	
50 PERCENT EXCEEDS	7650		11600		13200	
90 PERCENT EXCEEDS	2890		4180		3160	

a From rating curve extended above 172,000 ft³/s.
b Datum then in use.



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