



2005 Water Year
BUFFALO CREEK BASIN
03049500 Allegheny River at Natrona, PA

Latitude: 40° 36 ' 55"

Longitude: 079° 43 ' 07"

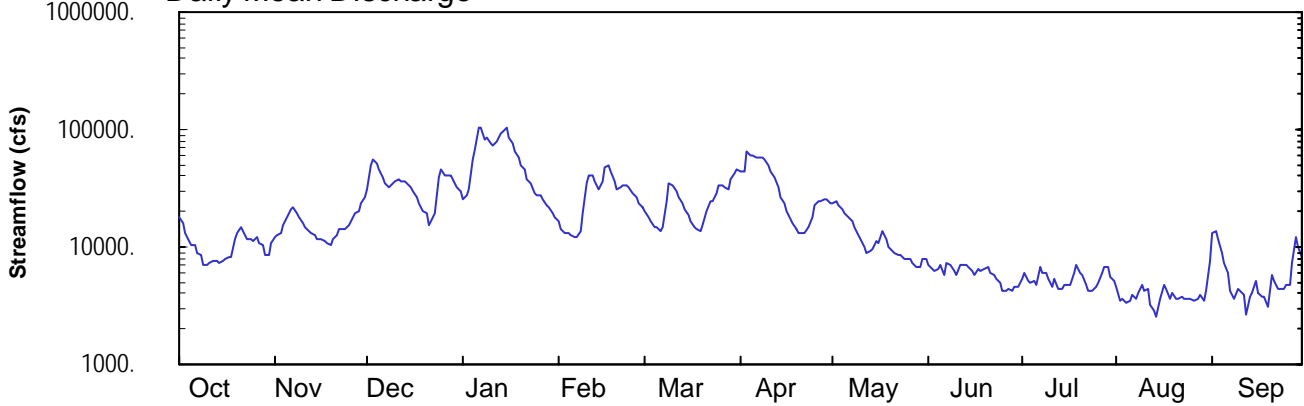
Hydrologic Unit Code: 05010009

Allegheny County

Datum: 736.36 feet

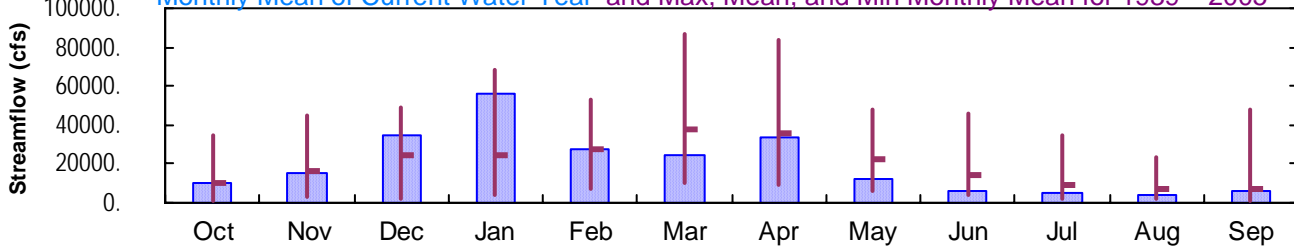
Drainage Area: 11410 mi²

Daily Mean Discharge

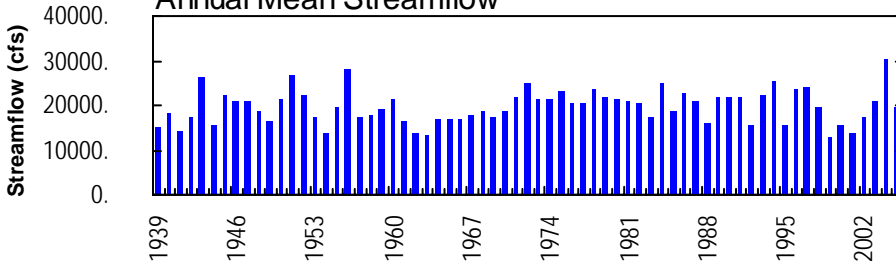


Monthly Statistics

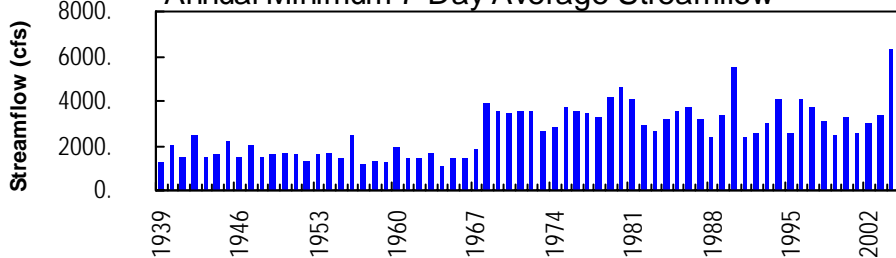
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1939 – 2005



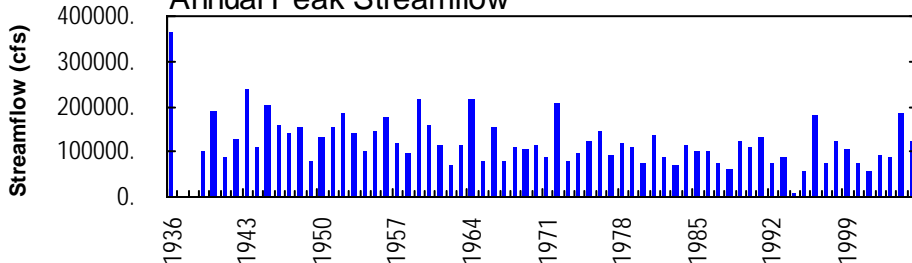
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

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 National Geodetic Vertical Datum of 1929 (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. Sharp rises and drops in discharge during periods of low flow may be caused by hydroelectric power production. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18100	12000	30800	25500	16500	19800	44000	23200	6990	5340	4610	13400
2	16000	12500	49400	28100	14300	18200	44400	24200	6490	6060	3500	13800
3	13400	13000	56100	31500	12900	16500	65100	22400	6370	5080	3660	11800
4	11100	15200	51500	55900	12900	14500	60300	20800	6480	4920	3320	8920
5	10400	18200	45400	67400	12600	14900	59400	19500	6910	5200	3430	7290
6	10500	20700	39600	104000	11900	13600	58500	18100	5880	4730	3960	6030
7	9060	21600	35500	103000	12100	14900	58200	16600	7210	6810	3560	4200
8	8510	19600	32800	83100	13500	24500	58200	15100	7170	6020	4130	3680
9	7010	18100	34700	86000	19200	34400	55200	12900	6310	5970	4760	4360
10	7070	15800	35700	76400	34300	33000	49200	11600	5850	5390	4260	4300
11	7230	14600	37100	72200	40700	30200	44200	10000	7060	4540	4440	3990
12	7470	13500	36700	78800	40100	27000	38800	8970	6940	5390	3190	2690
13	7520	13400	36400	94100	36100	23600	32700	9350	7030	4420	2850	3710
14	7180	12600	34900	96900	31400	20800	26900	9570	6800	4460	2510	4060
15	7680	11900	32400	103000	36300	18600	23800	11000	6240	4830	3630	5150
16	8050	11800	29300	84900	47300	16400	20100	11000	5900	4770	4790	4140
17	8330	11200	26900	77500	48900	14800	17500	13500	6460	4740	4360	3770
18	8120	10600	23600	66000	43800	14100	15700	11500	6270	5990	3680	3810
19	11800	10400	20600	57300	36300	13800	14200	9980	6640	7040	4130	3140
20	13300	11700	19700	49800	31300	15600	12900	9380	6820	5960	3640	5740
21	14800	12600	15300	45800	32500	20100	13400	8990	6140	5770	3590	5240
22	13600	14400	17900	38400	32900	24800	13000	8700	5790	4830	3790	4340
23	11800	14300	19600	34700	33900	25000	14500	8640	5280	4310	3640	4450
24	11500	13900	39000	28300	32000	28200	18000	7820	4950	4310	3590	4360
25	11200	15200	45400	27400	28800	34100	23100	7830	4240	4640	3670	4770
26	12000	16800	41300	27600	26300	33600	24600	7980	4320	4970	3530	4790
27	10800	19200	41300	25300	23900	31700	25000	7330	4440	6050	3590	7420
28	10200	20300	40900	22900	21700	31600	25700	6890	4260	6730	3850	12300
29	8620	23800	37400	21500	---	37100	25500	6830	4620	6680	3470	9970
30	8560	26400	32200	19600	---	42700	23900	7780	4640	5610	4260	8350
31	10700	---	29400	18000	---	45800	---	7790	---	5150	7590	---
TOTAL	321610	465300	1068800	1750900	784400	753900	1006000	375230	180500	166710	120980	183970
MEAN	10370	15510	34480	56480	28010	24320	33530	12100	6017	5378	3903	6132
MAX	18100	26400	56100	104000	48900	45800	65100	24200	7210	7040	7590	13800
MIN	7010	10400	15300	18000	11900	13600	12900	6830	4240	4310	2510	2690
CFSM	0.91	1.36	3.02	4.95	2.46	2.13	2.94	1.06	0.53	0.47	0.34	0.54
IN.	1.05	1.52	3.48	5.71	2.56	2.46	3.28	1.22	0.59	0.54	0.39	0.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	9725	16450	24100	24870	27050	37960	35430	22910	14710	9157	6939	7564
MAX	34470	45220	48690	68600	53390	87030	83780	48400	45820	34630	23020	47470
(WY)	1991	1986	1978	1952	1976	1945	1940	1943	1989	1972	1956	2004
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

OHIO RIVER MAIN STEM

03049500 ALLEGHENY RIVER AT NATRONA, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	10094100		7178300			
ANNUAL MEAN	27580		19670		19700	
HIGHEST ANNUAL MEAN					30090	2004
LOWEST ANNUAL MEAN					12680	1999
HIGHEST DAILY MEAN	164000	Sep 18	104000	Jan 6	206000	Dec 31 1942
LOWEST DAILY MEAN	5390	Jul 4	2510	Aug 14	949	Oct 26 1963
ANNUAL SEVEN-DAY MINIMUM	6350	Jul 4	3570	Aug 12	1030	Oct 25 1963
MAXIMUM PEAK FLOW			122000	Jan 6	a 238000	Dec 30 1942
MAXIMUM PEAK STAGE			19.84	Jan 6	b 27.46	Dec 30 1942
INSTANTANEOUS LOW FLOW					985	Oct 22 1963
ANNUAL RUNOFF (CFSM)	2.42		1.72		1.73	
ANNUAL RUNOFF (INCHES)	32.91		23.40		23.45	
10 PERCENT EXCEEDS	55300		44100		44800	
50 PERCENT EXCEEDS	22200		12900		13200	
90 PERCENT EXCEEDS	8270		4260		3240	

a From rating curve extended above 172,000 ft³/s.

b Datum then in use.

