



# 2004 Water Year BUFFALO CREEK BASIN

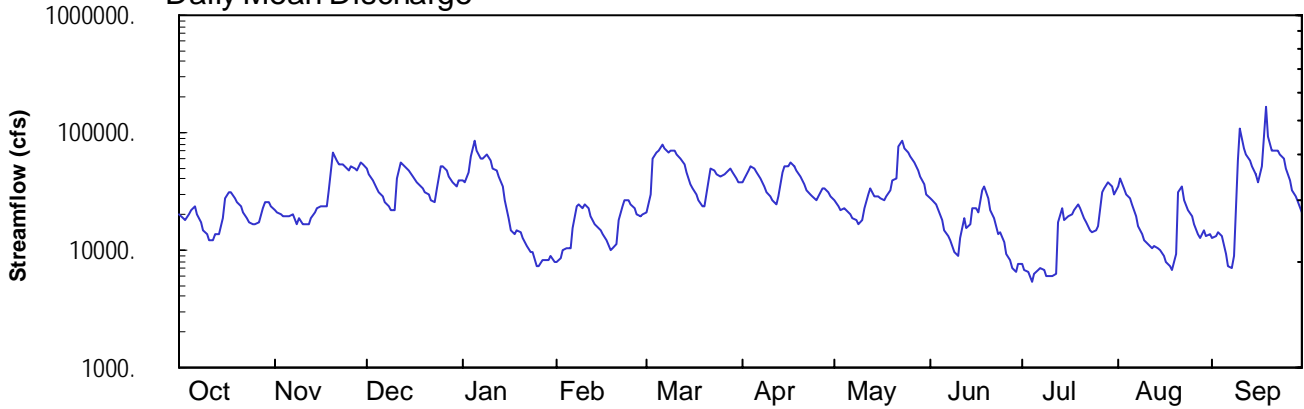
## 03049500 Allegheny River at Natrona, PA

Latitude: 40° 36 ' 55"  
Allegheny County

Longitude: 079° 43 ' 07"  
Datum: 736.36 feet

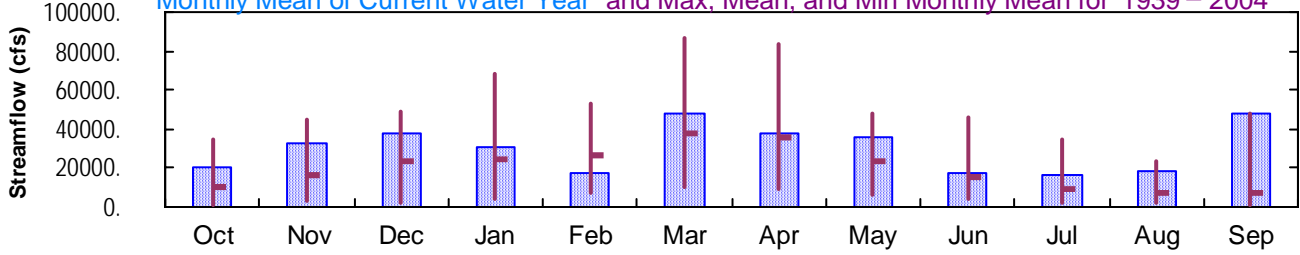
Hydrologic Unit Code: 05010009  
Drainage Area: 11410 mi<sup>2</sup>

### Daily Mean Discharge

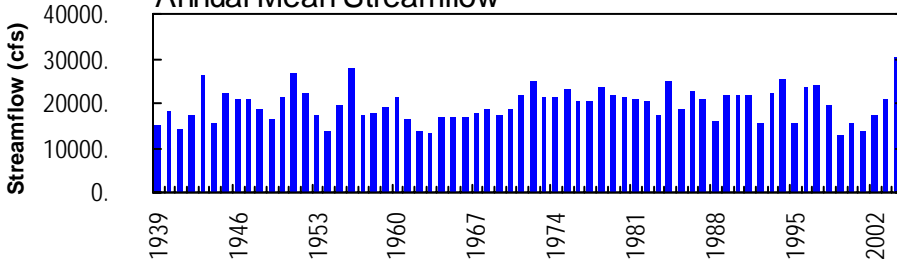


### Monthly Statistics

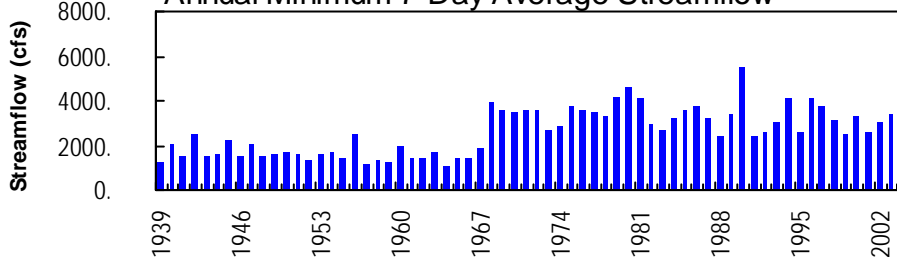
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1939 – 2004



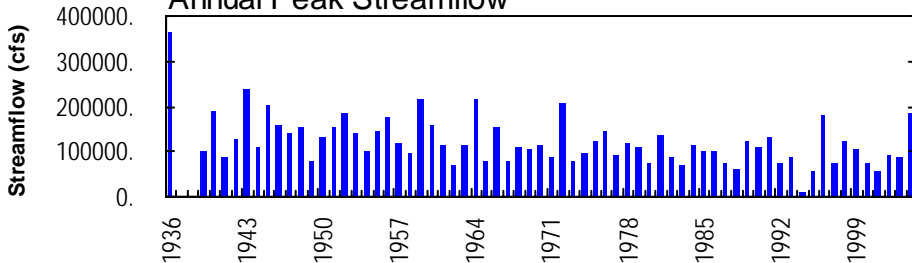
### Annual Mean Streamflow



### 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 mi<sup>2</sup>, 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 except those below 2,000 ft<sup>3</sup>/s, which are poor. 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 ft<sup>3</sup>/s, determined by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20400	22100	49000	38900	7890	21200	37500	26300	27700	7640	34600	12800
2	18800	20600	44000	38300	8480	30100	41100	23600	26300	6780	40800	13100
3	18100	20400	39500	45400	9930	60100	48500	22000	24400	6470	33900	14000
4	19900	19500	34200	61500	10400	68100	51600	22400	21400	5390	29800	13100
5	22200	19100	31200	84300	10400	70700	49800	22000	17800	6170	27700	9380
6	23800	19700	28300	71100	15400	78000	45200	20200	14600	6790	24500	7440
7	20200	19800	25900	61200	23700	72700	40300	18500	13000	7050	19300	7040
8	17500	16700	23800	61400	24100	68100	35400	17700	12300	6870	16000	8780
9	14900	18400	22200	64400	23000	69400	31400	16500	9680	6130	13800	56800
10	13600	16600	21900	58500	24200	70100	28700	18000	8990	6050	12400	109000
11	12200	16400	41500	50500	22400	65300	26200	22800	12700	5940	11000	72500
12	11900	16600	55700	48500	19800	59900	24200	29700	18800	6350	10500	64500
13	13500	18800	52700	42900	16600	54200	29000	33700	15400	17000	11000	58400
14	13900	20600	49500	35000	16000	45200	45600	28600	16800	22900	10400	51100
15	18900	23100	46900	26300	14600	37000	50800	28500	22800	18000	10000	43700
16	28100	23200	41900	18700	13500	33500	51600	27200	22600	19400	8910	38400
17	31500	23900	38000	14500	12000	29900	56300	26500	21100	20300	7960	52500
18	30600	23600	36500	13500	10100	26300	52200	28200	31700	21500	7390	164000
19	27900	32200	34200	14500	10400	23400	47100	32000	35400	24400	6890	94300
20	25500	67900	31500	14100	11200	23100	42300	38500	27700	22300	9100	71300
21	23400	57200	29400	12500	17700	39300	36500	41100	21500	18800	31500	71600
22	21200	52600	26500	10800	24000	50300	31700	74700	19000	17300	34500	69100
23	18500	52700	25700	9730	26500	47000	29300	84000	13800	14800	26100	65400
24	17000	50600	33000	9470	26700	44100	28300	73900	14200	14200	21700	60000
25	16800	48100	50600	7320	24400	41900	26600	68900	11800	14900	19200	48800
26	16900	50700	50900	7440	22500	44100	28700	62000	9110	15900	16600	38700
27	17500	50500	47200	8180	20400	46400	33300	55000	8310	31100	13700	32700
28	22600	47400	42000	8090	19200	50200	33500	47200	6920	34200	12800	28700
29	25600	55100	37100	8110	20200	45600	31400	42500	6610	37800	14800	25600
30	25400	54200	35300	8780	---	40500	29200	36900	7690	35500	13100	21300
31	24000	---	38500	7940	---	37300	---	30200	---	29700	13500	---
TOTAL	632300	978300	1164600	961860	505700	1493000	1143300	1119300	520110	507630	563450	1424040
MEAN	20400	32610	37570	31030	17440	48160	38110	36110	17340	16380	18180	47470
MAX	31500	67900	55700	84300	26700	78000	56300	84000	35400	37800	40800	164000
MIN	11900	16400	21900	7320	7890	21200	24200	16500	6610	5390	6890	7040
CFSM	1.79	2.86	3.29	2.72	1.53	4.22	3.34	3.16	1.52	1.44	1.59	4.16
IN.	2.06	3.19	3.80	3.14	1.65	4.87	3.73	3.65	1.70	1.66	1.84	4.64

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	9716	16460	23940	24390	27030	38170	35460	23070	14840	9214	6985	7585
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**

<b>SUMMARY STATISTICS</b>	<b>FOR 2003 CALENDAR YEAR</b>		<b>FOR 2004 WATER YEAR</b>		<b>WATER YEARS 1939 - 2004</b>	
ANNUAL TOTAL	9204740		11013590			
ANNUAL MEAN	25220		30090		19700	
HIGHEST ANNUAL MEAN					30090	2004
LOWEST ANNUAL MEAN					12680	1999
HIGHEST DAILY MEAN	72500	Jul 23	164000	Sep 18	206000	Dec 31 1942
LOWEST DAILY MEAN	5280	Jul 6	5390	Jul 4	949	Oct 26 1963
ANNUAL SEVEN-DAY MINIMUM	5810	Jul 1	6350	Jul 4	1030	Oct 25 1963
MAXIMUM PEAK FLOW			a185000	Sep 18	a238000	Dec 30 1942
MAXIMUM PEAK STAGE			24.39	Sep 18	b27.46	Dec 30 1942
INSTANTANEOUS LOW FLOW					985	Oct 22 1963
ANNUAL RUNOFF (CFSM)	2.21		2.64		1.73	
ANNUAL RUNOFF (INCHES)	30.01		35.91		23.46	
10 PERCENT EXCEEDS	48800		56400		44900	
50 PERCENT EXCEEDS	22600		24400		13200	
90 PERCENT EXCEEDS	7920		9440		3210	

**a** From rating curve extended above 172,000 ft<sup>3</sup>/s.

**b** Datum then in use.