



2005 Water Year  
BEAVER RIVER BASIN  
03105500 Beaver River at Wampum, PA

Latitude: 40° 53' 19"

Longitude: 080° 20' 14"

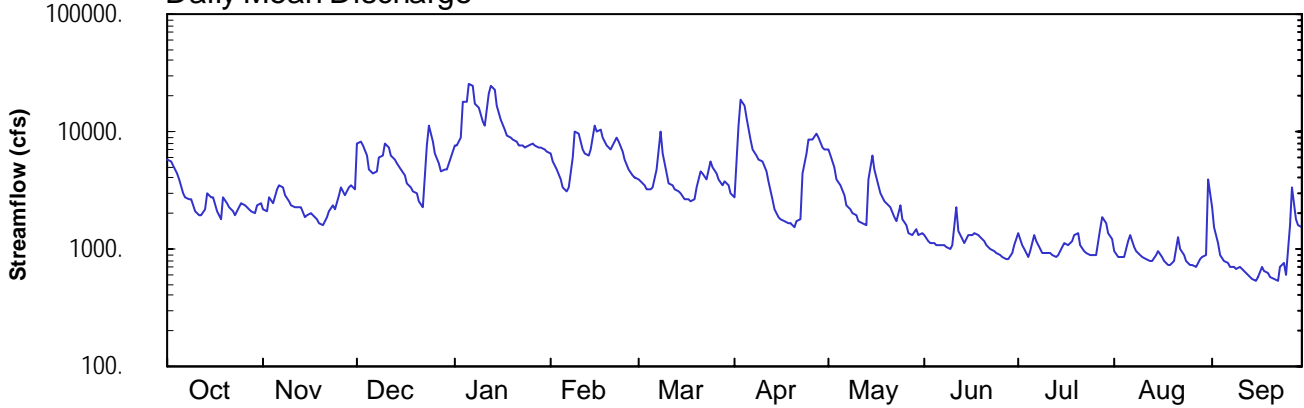
Hydrologic Unit Code: 05030104

Lawrence County

Datum: 736.24 feet

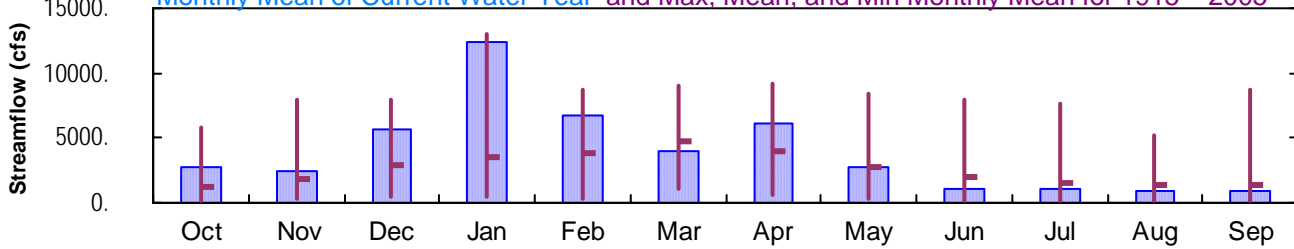
Drainage Area: 2235. mi<sup>2</sup>

### Daily Mean Discharge

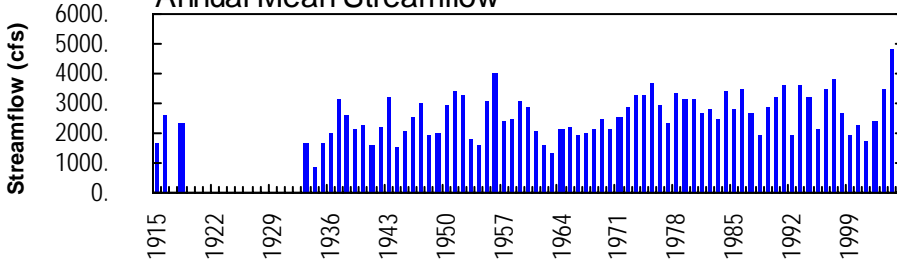


### Monthly Statistics

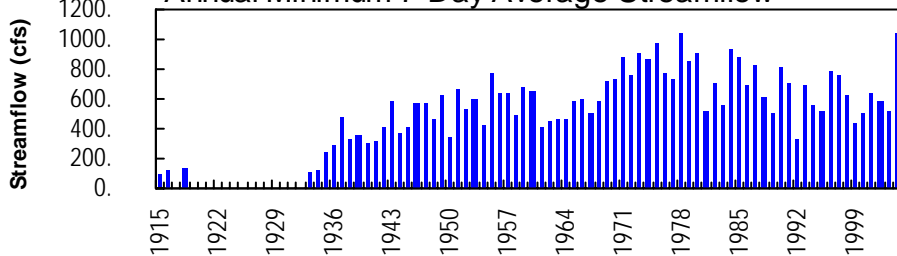
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1915 – 2005



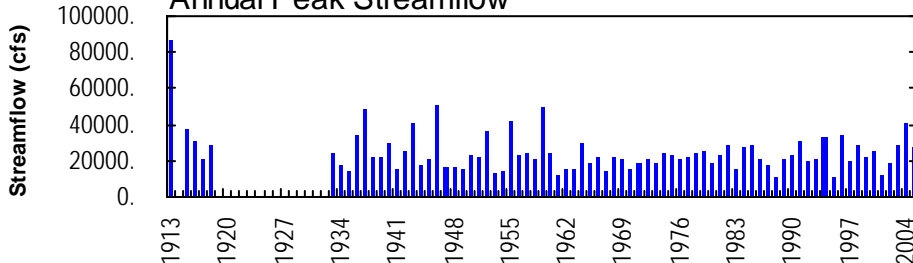
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



## BEAVER RIVER BASIN

## 03105500 BEAVER RIVER AT WAMPUM, PA

**LOCATION.**--Lat 40°53'19", long 80°20'14", Lawrence County, Hydrologic Unit 05030104, on right bank at downstream side of bridge on State Highway 288 at Wampum, 2.9 mi upstream from Connoquenessing Creek, at mile 15.4.

**DRAINAGE AREA.**--2,235 mi<sup>2</sup>.

**PERIOD OF RECORD.**--July 1914 to September 1918, August 1932 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Newport" 1914-18.

**REVISED RECORDS.**--WSP 728: Drainage area. WSP 1385: 1933-40, 1946, 1951-52. WSP 1725: 1960 (adjusted runoff). WDR PA-85-3: 1984 (M).

**GAGE.**--Water-stage recorder. Datum of gage is 736.24 ft above National Geodetic Vertical Datum of 1929 (Penn Central Railroad bench mark). Prior to Sept. 20, 1914, nonrecording gage at site 500 ft downstream at datum 0.76 ft lower. Oct. 1, 1914 to Sept. 30, 1918, nonrecording gage at site 1 mi upstream at datum 0.84 ft higher. Aug. 26, 1932 to Nov. 16, 1938, nonrecording gage at present site and datum. Since 1932 an auxiliary gage 10 mi downstream at Beaver Falls (station 03107500) is used during periods of backwater from Connoquenessing Creek.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1916 by Milton Reservoir, since November 1929 by Meander Creek Reservoir, since December 1933 by Pymatuning Reservoir (station 03100500), since December 1942 by Berlin Lake, since October 1943 by Mosquito Creek Lake, since December 1966 by Michael J. Kirwan Reservoir, and since January 1967 by Shenango River Lake 40 mi upstream. 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.**--Maximum stage since 1912, 29.9 ft, Mar. 26, 1913, from floodmark, discharge, about 87,000 ft<sup>3</sup>/s.

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	e5760	2210	7810	7650	6510	3870	2750	7150	1310	e1360	e980	e2250
2	e5520	2070	8340	7470	5660	3760	11200	6300	1180	e1100	e860	e1550
3	e5170	2740	7520	8940	4730	3510	18800	5010	1130	e995	e860	e1100
4	e4330	2440	6370	17700	3980	3250	16900	3980	1110	e872	e850	e874
5	e3860	3260	4830	17900	3310	3230	13200	3510	1070	e954	e1170	e777
6	3010	3450	4370	e25500	3080	3320	8710	2900	1070	e1320	e1330	e752
7	2780	3350	4510	e25000	3310	4790	6910	2400	1100	e1160	e1050	e692
8	2670	2880	6020	17200	6030	10000	6240	2200	1030	e1020	e960	e692
9	2650	2540	6230	15700	10100	6450	5860	2050	1000	e933	e900	e680
10	2130	2340	7980	12200	9580	4410	5470	1960	1080	e913	e857	e716
11	1980	2280	7230	11400	7100	3670	4560	1760	2230	e933	e821	e668
12	1940	2270	6190	e20600	6490	3430	3700	1650	1410	e900	e790	e626
13	2150	2240	5710	e24400	6280	3250	e2630	1580	1210	e860	e777	e603
14	2950	1880	5280	e22400	7000	3070	e2220	3980	1140	e890	e879	e565
15	2770	e1970	4780	16800	11100	2950	e1840	6190	1310	e1040	e960	e535
16	2790	e2000	4240	12400	9830	2690	e1760	4730	1300	e1130	e843	e580
17	2100	e1920	3650	10300	10200	2660	e1740	3500	1350	e1100	e786	e709
18	1810	e1820	3390	9320	9020	2590	e1670	2990	1330	e1190	e737	e649
19	2780	1650	3160	8910	7550	2690	e1660	2550	1290	e1310	e736	e626
20	2480	1610	3000	8640	6910	3300	e1540	2470	1180	e1360	e788	e573
21	2280	1870	2530	8100	7500	4630	e1750	2240	1070	e1100	e1280	e558
22	2110	2080	2240	7660	8930	4400	e1770	1870	1010	e970	e998	e542
23	1920	2310	7670	7610	8160	3880	4350	1750	e954	e940	e890	e702
24	2270	2150	11400	7450	6830	5480	6570	2370	e913	e900	e804	e762
25	2460	2830	8070	7610	5690	4980	8700	1830	e892	e889	e733	e606
26	2340	3360	6580	7810	4690	4380	8420	1570	e851	e900	e728	e1590
27	2180	2890	5280	7640	4240	3940	9620	1370	e811	e1500	e693	3410
28	2110	3410	4580	7380	4120	3490	9020	1300	e831	e1900	e812	1820
29	2060	3470	4700	7280	---	3800	7270	1450	e933	e1650	e843	1580
30	2380	3200	4820	7080	---	3520	7140	1310	e1080	e1350	e904	1530
31	2490	---	6000	6860	---	3030	---	1380	---	e1200	e3920	---
TOTAL	86230	74490	174480	382910	187930	122420	183970	87300	34175	34639	30539	29317
MEAN	2782	2483	5628	12350	6712	3949	6132	2816	1139	1117	985	977
MAX	5760	3470	11400	25500	11100	10000	18800	7150	2230	1900	3920	3410
MIN	1810	1610	2240	6860	3080	2590	1540	1300	811	860	693	535
CFSM	1.24	1.11	2.52	5.53	3.00	1.77	2.74	1.26	0.51	0.50	0.44	0.44
IN.	1.44	1.24	2.90	6.37	3.13	2.04	3.06	1.45	0.57	0.58	0.51	0.49

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)

MEAN	1299	1814	2879	3536	3902	4808	3981	2752	2008	1546	1316	1320
MAX	5888	7936	7978	13030	8779	9098	9226	8362	8004	7667	5272	8772
(WY)	1991	1986	1991	1937	1915	1916	1994	1996	1989	2003	2003	2004
MIN	168	278	447	534	304	1074	657	288	222	198	156	153
(WY)	1934	1915	1961	1918	1934	1969	1915	1934	1934	1918	1933	1916

e Estimated.

## BEAVER RIVER BASIN

## 03105500 BEAVER RIVER AT WAMPUM, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915 - 2005	
ANNUAL TOTAL	1675955		1428400			
ANNUAL MEAN	4579		3913		2597	
HIGHEST ANNUAL MEAN					4796	2004
LOWEST ANNUAL MEAN					834	1934
HIGHEST DAILY MEAN	e34000	Sep 9	e25500	Jan 6	47500	Jan 22 1959
LOWEST DAILY MEAN	934	Jul 11	e535	Sep 15	88	Oct 5 1914
ANNUAL SEVEN-DAY MINIMUM	1040	Jul 5	a604	Sep 15	94	Oct 3 1914
MAXIMUM PEAK FLOW			27000	Jan 6	b50100	May 28 1946
MAXIMUM PEAK STAGE			c17.26	Jan 6	d21.53	May 28 1946
INSTANTANEOUS LOW FLOW					f74	Jul 30 1933
ANNUAL RUNOFF (CFSM)	2.05		1.75		1.16	
ANNUAL RUNOFF (INCHES)	27.90		23.77		15.79	
10 PERCENT EXCEEDS	7780		8370		5960	
50 PERCENT EXCEEDS	3370		2470		1460	
90 PERCENT EXCEEDS	1590		843		584	

a Computed using estimated daily discharges.

b From slope-rating curve extended above 28,000 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 21.44 ft.

c Backwater from Connoquenessing Creek.

d Maximum gage height, 24.86 ft, Jan. 22, 1959 (backwater from Connoquenessing Creek).

e Estimated.

f Minimum discharge observed.

