



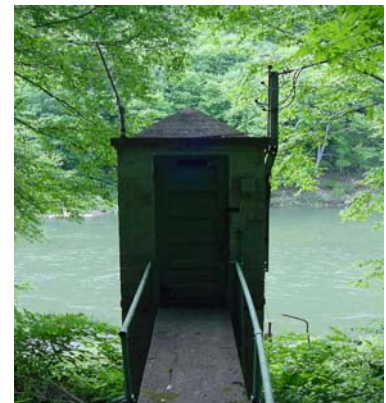
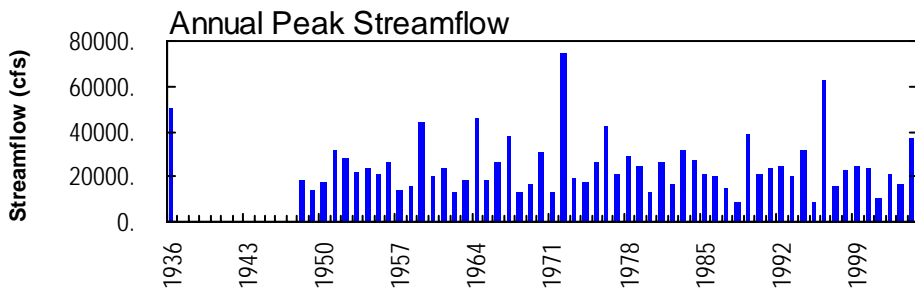
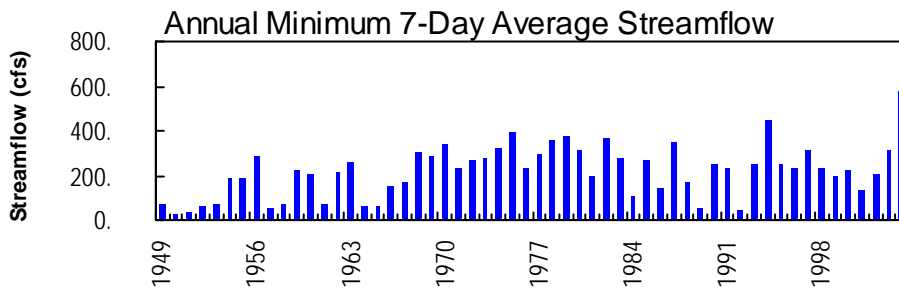
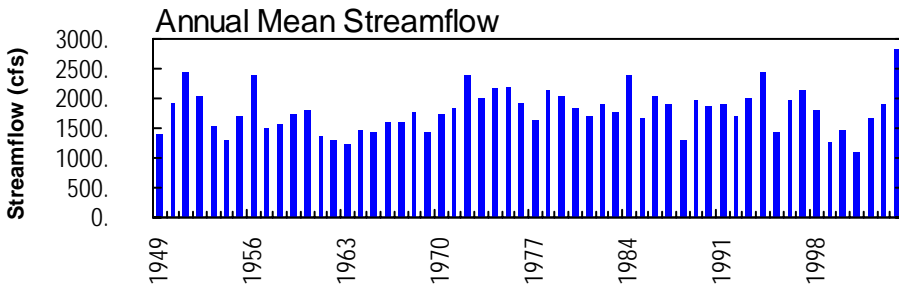
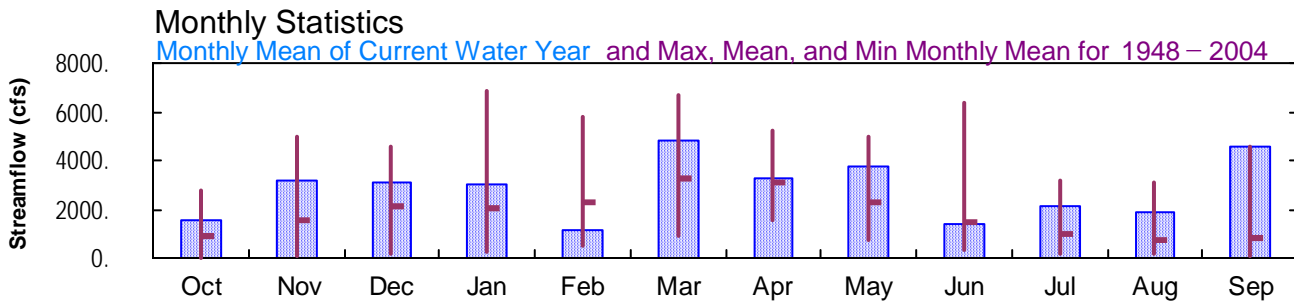
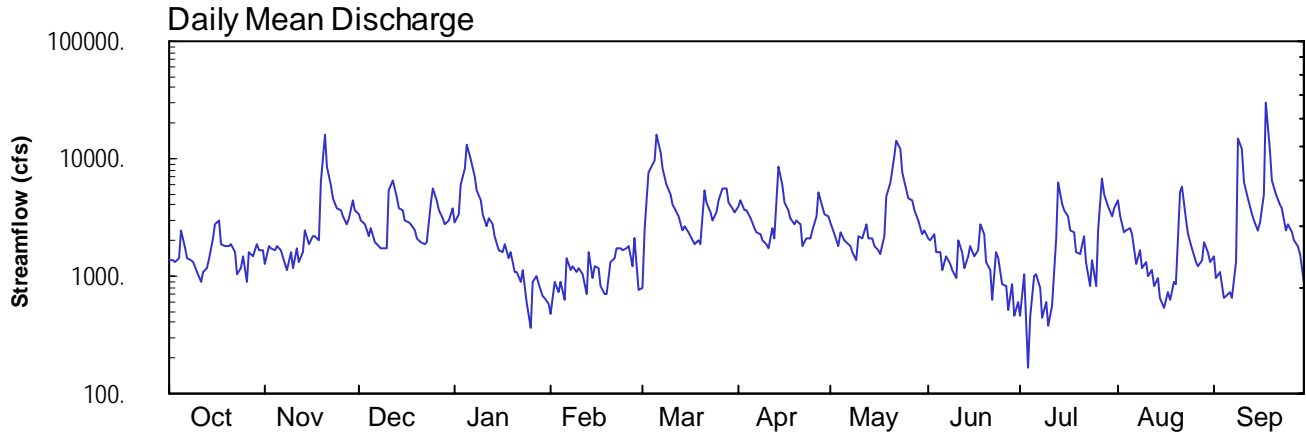
2004 Water Year OHIO RIVER BASIN

03030500 Clarion River near Piney, PA

Latitude: 41° 11' 33"
Clarion County

Longitude: 079° 26' 25"
Datum: 1002.06 feet

Hydrologic Unit Code: 05010005
Drainage Area: 951. mi²



CLARION RIVER BASIN

03030500 CLARION RIVER NEAR PINEY, PA

LOCATION.--Lat 41°11'33", long 79°26'25", Clarion County, Hydrologic Unit 05010005, on left bank 0.2 mi downstream from hydroelectric plant of Reliant Energy, 2.3 mi northeast of Piney, 2.4 mi upstream from Piney Creek, and 3 mi southwest of Clarion.

DRAINAGE AREA.--951 mi².

PERIOD OF RECORD.--October 1944 to current year (monthly discharge only October 1944 to September 1947).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,002.06 ft above National Geodetic Vertical Datum of 1929 (Reliant Energy bench mark). Prior to Dec. 23, 1947, records from hydroelectric plant 0.2 mi upstream.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1924 by hydroelectric plant at Piney Dam 0.2 mi upstream, and since June 1952 by East Branch Clarion River Lake (station 03027000), combined capacity of reservoirs, 113,200 acre-ft. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Mar. 18, 1936 reached a discharge of 50,000 ft³/s, as determined by Reliant Energy, elevation, 1,028.5 ft, at lower pool of dam.

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	1390	1250	3290	2890	468	787	e3900	2830	2100	463	4340	1470
2	1350	1770	2990	3410	877	2540	4350	2300	2050	1050	3240	952
3	1310	1740	2750	6030	735	7710	3600	1780	2240	167	2390	1090
4	1410	1650	2220	8310	889	8100	3640	2400	1570	456	2420	649
5	2410	1800	2530	13300	624	9640	3070	2010	1580	1000	2560	683
6	1730	1640	1970	10200	1400	16100	2580	1930	1110	1030	2280	737
7	1440	1270	1890	6910	1120	11200	2360	1810	1470	807	1270	641
8	1360	1110	1750	5260	1230	8110	2240	1590	1280	438	1690	1310
9	1330	1600	1740	4400	1070	6020	2030	1380	1130	609	1190	14900
10	1070	1190	1740	3350	1160	4950	1840	2210	980	371	1300	12300
11	906	1710	5410	2700	1050	4090	1700	2120	2050	547	1000	6270
12	1080	1290	6440	3090	716	3540	2580	2760	1590	2070	1150	4610
13	1170	1590	4700	2710	1580	3270	2120	2100	1180	6270	823	3370
14	1410	2430	3780	2150	965	2460	8410	2130	1480	4110	979	3040
15	2090	1900	3600	1660	1220	2690	5950	1820	1830	3610	645	2490
16	2790	2160	3030	1590	1170	2350	4270	1640	1490	3230	532	2890
17	2990	2160	2860	1830	821	2220	3630	1520	1650	2430	719	5000
18	1880	2030	2780	1430	693	1840	3140	2210	2770	2320	631	29400
19	1780	6340	2410	1600	701	2010	2740	4730	2270	1580	884	11600
20	1790	16300	2090	1080	1320	1850	2930	6190	1330	1550	867	6480
21	1840	8390	1960	1090	1450	5280	2810	10400	1140	2200	5160	4940
22	1620	6040	1900	891	1750	4310	1820	14000	616	1290	5850	4010
23	1050	4540	1980	1130	1720	3550	2080	12400	1580	839	2940	3840
24	1160	3840	4210	599	1660	2970	2070	7470	e1400	1370	2240	2470
25	1500	3660	5510	357	1700	3460	2490	5260	e850	810	1720	2740
26	891	3250	4390	899	1780	4490	3210	4650	830	2430	1290	2380
27	1620	2790	3600	1010	1210	5600	5070	4370	511	6760	1240	2010
28	1460	3080	3160	871	2070	5490	3980	3650	846	5000	1360	1770
29	1890	4400	2730	690	774	4290	3340	2980	461	3890	1940	1530
30	1650	3600	3010	663	---	e3800	3170	2300	606	3180	1600	895
31	1660	---	3700	578	---	e3500	---	2480	---	3720	1310	---
TOTAL	49027	96520	96120	92678	33923	148217	97120	117420	41990	65597	57560	136467
MEAN	1582	3217	3101	2990	1170	4781	3237	3788	1400	2116	1857	4549
MAX	2990	16300	6440	13300	2070	16100	8410	14000	2770	6760	5850	29400
MIN	891	1110	1740	357	468	787	1700	1380	461	167	532	641
(†)	-91	+27	-16	-25	-7.8	+217	+137	+5.9	-45	+1.7	-110	-130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)

MEAN	888	1578	2150	2064	2283	3297	3118	2253	1458	951	745	796
MAX	2743	5013	4611	6884	5775	6703	5186	5018	6354	3220	3096	4549
(WY)	1991	1986	1978	1952	1976	1964	1970	2002	1972	1992	1994	2004
MIN	40.2	82.5	184	244	527	881	1517	700	345	167	135	120
(WY)	1950	1950	1961	1961	1987	1969	1968	1985	1991	1952	1952	1951

† Change in contents, equivalent in cubic feet per second, in East Branch Clarion River Lake and Piney Reservoir. Records of contents in Piney Reservoir furnished by Reliant Energy. Records of contents in East Branch Clarion River Lake furnished by U.S. Army Corps of Engineers.
e Estimated.

CLARION RIVER BASIN

03030500 CLARION RIVER NEAR PINEY, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004	
ANNUAL TOTAL	836551		1032639			
ANNUAL MEAN	2292	† +1.5	2821	† -3.1	1795	
HIGHEST ANNUAL MEAN					2821	2004
LOWEST ANNUAL MEAN					1092	2001
HIGHEST DAILY MEAN	16300	Nov 20	29400	Sep 18	51600	Jun 23 1972
LOWEST DAILY MEAN	103	Aug 24	167	Jul 3	11	Oct 1 1966
ANNUAL SEVEN-DAY MINIMUM	388	Jul 12	578	Jun 28	26	Oct 16 1949
MAXIMUM PEAK FLOW			37300	Sep 18	a 74500	Jun 23 1972
MAXIMUM PEAK STAGE			18.94	Sep 18	b 28.24	Jun 23 1972
10 PERCENT EXCEEDS	4600		5430		4070	
50 PERCENT EXCEEDS	1760		2010		1140	
90 PERCENT EXCEEDS	587		828		138	

† Change in contents, equivalent in cubic feet per second, in East Branch Clarion River Lake and Piney Reservoir. Records of contents in Piney Reservoir furnished by Reliant Energy. Records of contents in East Branch Clarion River Lake furnished by U.S. Army Corps of Engineers.

a From rating curve extended above 59,000 ft³/s.

b From floodmark.