



2005 Water Year
OHIO RIVER BASIN
03030500 Clarion River near Piney, PA

Latitude: 41° 11' 33"

Longitude: 079° 26' 25"

Hydrologic Unit Code: 05010005

Clarion County

Datum: 1002.06 feet

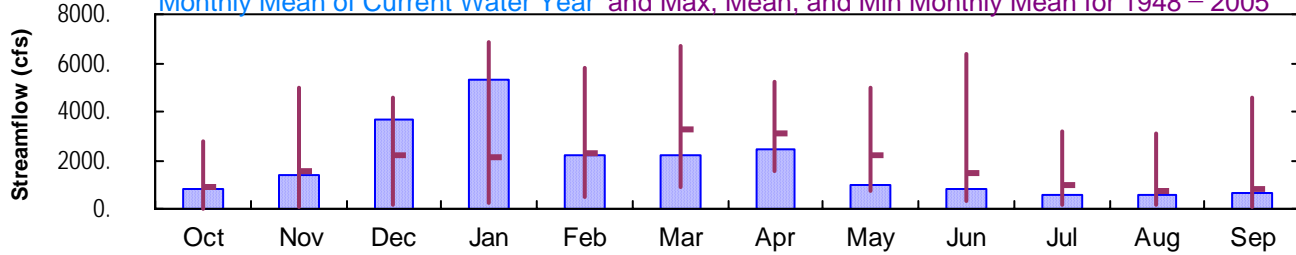
Drainage Area: 951. mi²

Daily Mean Discharge

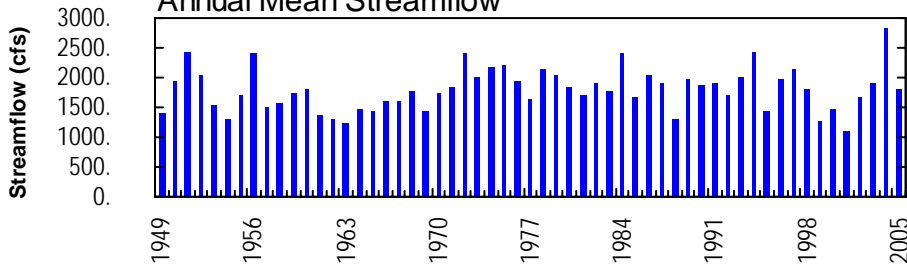


Monthly Statistics

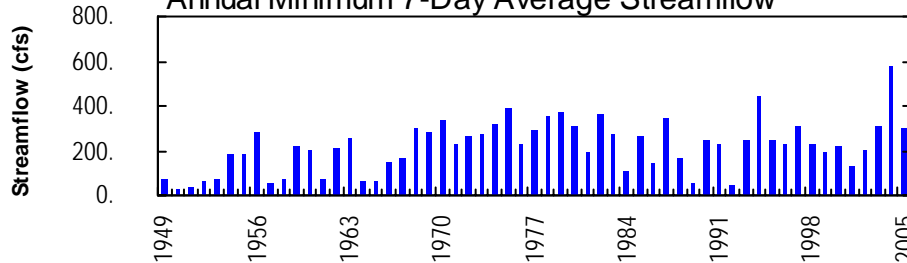
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1948 – 2005



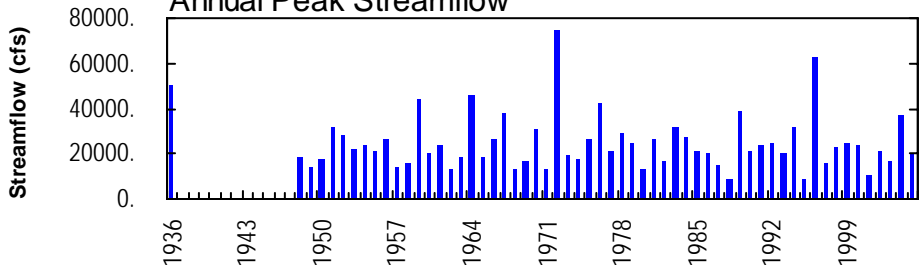
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 fair except those for estimated daily discharges and those for period Aug. 1 to Sept. 30, 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	1540	5980	1660	856	1340	4460	1600	844	779	203	3730
2	1090	1480	8500	2360	932	1300	4800	1630	711	632	531	1930
3	993	1320	5780	2780	1090	1310	6840	1450	713	596	442	520
4	1090	1730	4680	9840	891	1170	5210	1320	785	567	417	497
5	1160	1960	3660	8850	453	956	5870	1190	980	637	460	704
6	614	2390	3410	13300	505	766	4860	1170	869	1200	372	494
7	900	1380	3250	14300	1130	1110	4200	1090	765	1430	336	452
8	605	1490	3690	9570	808	2350	3620	1070	917	1040	328	545
9	495	1500	4070	8710	1540	3070	3020	1030	729	783	367	543
10	537	1550	4070	6950	3870	2490	2590	820	695	88	369	162
11	881	1320	4300	5520	3290	1740	2210	940	799	1170	370	164
12	969	1780	3990	6250	2640	2280	1920	813	1150	271	383	458
13	531	1080	3560	9120	2140	1620	1760	725	760	113	144	453
14	651	625	3410	14600	2300	1790	1580	810	607	445	175	533
15	547	797	3220	10400	4340	1140	1400	1050	650	459	386	509
16	693	757	2860	6760	5190	1250	1280	1100	1050	450	423	432
17	169	589	2180	5220	4740	1450	1230	910	1170	438	441	211
18	778	678	1930	4210	3710	1120	1110	824	997	418	e527	212
19	1240	777	2370	3340	2880	1300	1050	709	791	407	524	432
20	1270	806	2070	3160	2540	1300	1030	767	747	395	295	510
21	874	985	1350	2560	2730	2460	1010	708	656	388	602	424
22	1010	936	1310	1880	2450	2910	1010	701	649	374	543	428
23	1030	910	2710	1820	2530	2340	1190	671	755	219	524	453
24	178	923	7800	1750	1970	2450	1980	735	794	265	561	e404
25	1240	1150	4950	1700	1620	3180	1580	858	801	376	513	e430
26	713	1740	4030	1780	1570	2840	1500	726	801	427	517	e752
27	806	423	3550	1630	1620	2830	1460	662	416	806	276	733
28	458	1610	3190	1800	1650	3420	1550	652	598	995	276	832
29	595	3350	2940	1070	---	5040	1400	825	431	708	495	419
30	579	2950	3250	903	---	5330	1350	952	853	675	1140	430
31	1480	---	2960	849	---	4740	---	849	---	690	3790	---
TOTAL	25566	40526	115020	164642	61985	68392	74070	29357	23483	18241	16730	18796
MEAN	825	1351	3710	5311	2214	2206	2469	947	783	588	540	627
MAX	1480	3350	8500	14600	5190	5330	6840	1630	1170	1430	3790	3730
MIN	169	423	1310	849	453	766	1010	652	416	88	144	162
(†)	-90	+11	-10	+0.3	+68	+116	+179	-2.5	-93	-139	-180	-158

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)

MEAN	887	1574	2177	2120	2282	3279	3107	2230	1447	945	742	793
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1948 - 2005	
ANNUAL TOTAL	972084		656808			
ANNUAL MEAN	2656	† -3.8	1799	† +3.9	1796	
HIGHEST ANNUAL MEAN					2821	2004
LOWEST ANNUAL MEAN					1092	2001
HIGHEST DAILY MEAN	29400	Sep 18	14600	Jan 14	51600	Jun 23 1972
LOWEST DAILY MEAN	167	Jul 3	88	Jul 10	11	Oct 1 1966
ANNUAL SEVEN-DAY MINIMUM	578	Jun 28	305	Aug 8	26	Oct 16 1949
MAXIMUM PEAK FLOW			20500	Jan 14	a 74500	Jun 23 1972
MAXIMUM PEAK STAGE			13.83	Jan 14	b 28.24	Jun 23 1972
10 PERCENT EXCEEDS	5260		4070		4070	
50 PERCENT EXCEEDS	1820		1050		1140	
90 PERCENT EXCEEDS	659		423		144	

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

b From floodmark.

