

CLARION RIVER BASIN

03028000 WEST BRANCH CLARION RIVER AT WILCOX, PA

LOCATION.--Lat 41°34'31", long 78°41'33", Elk County, Hydrologic Unit 05010005, on right bank 20 ft downstream from bridge on Township Route 359 at Wilcox, 100 ft downstream from Wilson Run, and 0.1 mi upstream from Penn Central Railroad bridge.

DRAINAGE AREA.--63.0 mi².

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,502.02 ft above sea level. Prior to Nov. 18, 1953, nonrecording gage at site 20 ft upstream at same datum. Nov. 18 to Dec. 8, 1953, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 22	0300	1,180	4.34	Jan. 24	0800	*2,310	*6.05

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	22	30	e48	165	102	490	108	36	22	24	6.7
2	12	21	28	e48	258	85	528	96	39	120	13	6.7
3	14	21	28	e48	325	124	450	87	39	36	10	6.3
4	21	20	28	e46	302	178	419	80	34	27	9.6	6.3
5	15	19	32	e45	276	137	336	75	30	22	13	6.4
6	14	19	31	e46	243	139	261	68	28	25	11	6.6
7	13	19	30	e48	217	e105	221	66	27	33	9.2	16
8	181	21	29	e47	190	e98	188	249	26	20	14	10
9	75	20	28	e46	172	e82	310	205	24	20	14	8.5
10	64	26	27	e47	163	e72	335	173	26	44	9.6	7.9
11	47	42	27	e47	150	e68	315	156	23	23	9.4	7.1
12	38	30	26	e48	206	e60	298	139	21	19	8.7	6.7
13	34	27	26	e52	224	e58	244	125	20	17	8.5	6.4
14	32	26	26	e80	203	e58	211	110	25	16	13	9.8
15	31	26	26	159	187	e57	184	93	28	15	15	8.6
16	28	25	26	154	175	e57	194	81	20	13	9.4	9.1
17	26	25	26	135	181	e66	277	74	19	14	8.4	12
18	26	25	26	320	172	171	243	67	20	14	7.4	8.0
19	36	26	25	538	157	148	254	66	17	16	7.2	7.1
20	28	32	29	351	145	144	265	58	17	18	24	7.4
21	27	33	81	237	e128	153	234	52	15	13	29	12
22	26	29	727	225	e107	153	228	49	15	14	15	9.2
23	25	27	335	711	e95	143	276	48	13	14	10	7.7
24	24	25	e205	1790	e88	152	263	89	13	12	9.3	7.0
25	23	24	e130	906	e78	167	235	85	13	16	9.8	7.5
26	23	29	e95	530	e70	167	215	61	13	16	12	6.9
27	22	29	e92	362	e65	185	185	57	14	11	11	6.8
28	24	28	e91	324	e110	228	157	47	31	9.8	9.2	7.1
29	26	27	e60	267	---	283	136	43	39	28	8.4	17
30	23	27	e52	220	---	316	121	40	27	15	7.4	156
31	22	---	e49	185	---	339	---	37	---	12	6.8	---
TOTAL	1012	770	2471	8110	4852	4295	8073	2784	712	694.8	366.3	400.8
MEAN	32.6	25.7	79.7	262	173	139	269	89.8	23.7	22.4	11.8	13.4
MAX	181	42	727	1790	325	339	528	249	39	120	29	156
MIN	12	19	25	45	65	57	121	37	13	9.8	6.8	6.3
CFSM	.52	.41	1.27	4.15	2.75	2.20	4.27	1.43	.38	.36	.19	.21
IN.	.60	.45	1.46	4.79	2.86	2.54	4.77	1.64	.42	.41	.22	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1999, BY WATER YEAR (WY)

MEAN	72.3	128	154	130	145	243	249	142	95.1	58.0	49.5	56.1
MAX	236	390	311	319	448	494	483	363	417	252	249	231
(WY)	1982	1986	1978	1998	1976	1964	1970	1984	1972	1992	1956	1987
MIN	7.60	12.9	12.4	18.5	27.6	96.4	109	40.9	20.4	12.3	8.30	7.68
(WY)	1964	1965	1961	1961	1987	1969	1976	1985	1991	1955	1991	1955

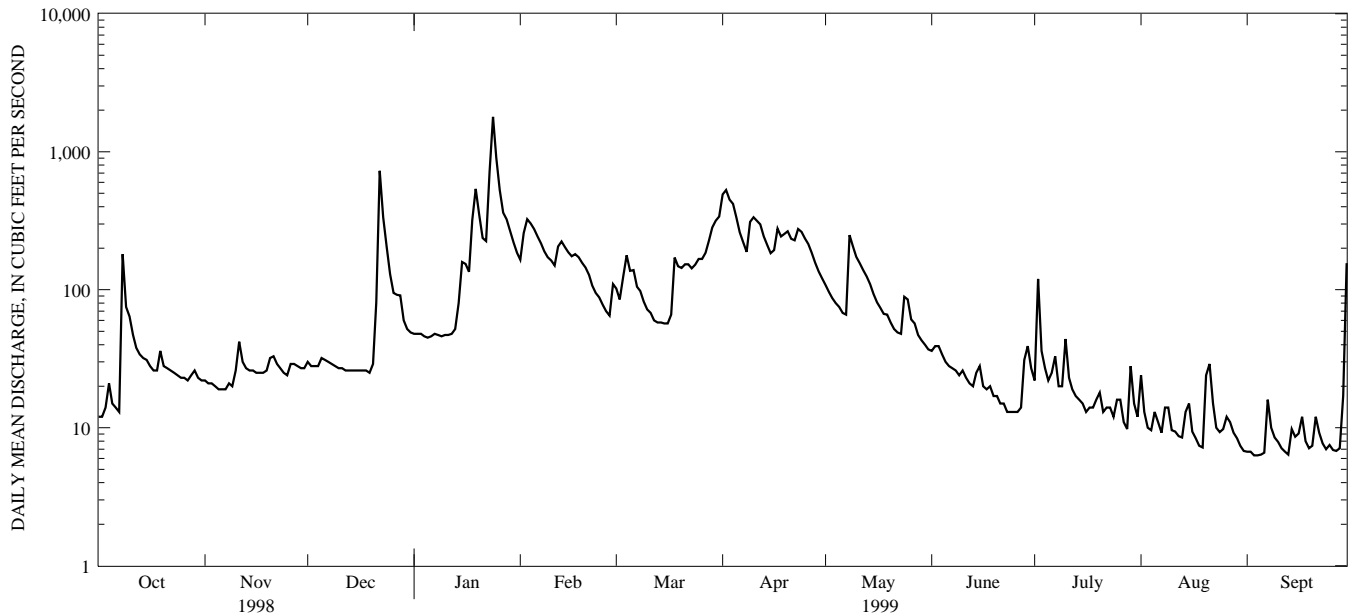
e Estimated.

CLARION RIVER BASIN

03028000 WEST BRANCH CLARION RIVER AT WILCOX, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1954 - 1999	
ANNUAL TOTAL	36224.5			34540.9				
ANNUAL MEAN	99.2			94.6			127	
HIGHEST ANNUAL MEAN							184	1956
LOWEST ANNUAL MEAN							91.6	1988
HIGHEST DAILY MEAN	2460	Jan	8	1790	Jan	24	2870	Jun 23 1972
LOWEST DAILY MEAN	9.3	Aug	8	6.3	Sep	3,4	4.5	Sep 21 1955
ANNUAL SEVEN-DAY MINIMUM	9.9	Aug	2	6.5	Aug	31	5.2	Sep 16 1955
INSTANTANEOUS PEAK FLOW				2310	Jan	24	a5590	Jan 19 1996
INSTANTANEOUS PEAK STAGE				6.05	Jan	24	b10.23	Jan 19 1996
INSTANTANEOUS LOW FLOW				6.2	Sep	3-6,13,27	4.2	Sep 21 1955
ANNUAL RUNOFF (CFSM)	1.58			1.50			2.01	
ANNUAL RUNOFF (INCHES)	21.39			20.40			27.31	
10 PERCENT EXCEEDS	207			243			289	
50 PERCENT EXCEEDS	39			32			75	
90 PERCENT EXCEEDS	16			9.5			15	

a From rating curve extended above 3,000 ft³/s.
 b From peak-stage indicator.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999