

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 National Geodetic Vertical Datum of 1929. 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)
May 14	2100	1,640	5.07	June 14	1400	*2,810	*6.74

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	32	201	e89	562	107	333	275	95	46	33	8.5
2	8.7	34	166	e78	448	101	274	353	82	43	18	8.7
3	8.7	60	146	e74	359	205	291	284	74	39	22	8.7
4	8.4	42	125	e66	292	172	233	251	72	34	13	10
5	8.2	37	111	e64	229	172	205	221	128	33	16	8.4
6	8.5	34	99	e60	192	171	191	194	556	29	13	7.4
7	9.4	32	88	e57	167	154	172	174	355	27	10	6.9
8	10	30	79	e53	145	139	158	150	278	26	9.8	6.9
9	8.9	31	74	e50	125	129	158	311	222	25	9.3	6.9
10	12	28	66	e48	140	150	156	293	180	27	9.3	6.9
11	13	26	59	e46	272	119	129	252	147	21	8.8	6.9
12	8.9	23	54	e43	200	116	121	598	127	21	8.7	6.9
13	11	21	64	e43	190	111	168	1070	111	19	9.2	6.9
14	12	21	106	e43	169	105	298	1230	1400	19	8.6	6.9
15	27	20	155	e41	160	99	505	1020	848	18	10	15
16	19	20	115	e40	152	117	388	643	609	17	13	32
17	35	19	243	e39	140	100	317	506	436	15	62	12
18	25	16	536	e39	118	102	258	677	325	15	19	9.4
19	18	17	388	e38	107	101	264	525	248	15	13	9.5
20	16	32	319	e42	111	132	238	421	197	15	12	9.5
21	14	24	256	e41	144	146	211	338	159	14	9.8	8.7
22	16	21	209	e43	133	134	194	275	137	13	30	8.7
23	21	20	191	43	118	136	172	229	125	18	72	7.7
24	179	19	230	114	111	138	147	200	100	19	29	6.9
25	79	137	179	160	111	140	142	169	87	14	20	6.8
26	53	114	160	140	127	238	126	177	74	15	15	6.3
27	51	87	147	139	129	362	111	140	82	14	12	94
28	49	82	e126	139	112	305	331	118	79	15	12	80
29	41	113	e113	159	---	314	355	112	59	28	11	25
30	40	178	e102	293	---	478	318	123	51	17	9.3	18
31	36	---	e95	349	---	380	---	113	---	17	9.3	---
TOTAL	856.1	1370	5002	2673	5263	5373	6964	11442	7443	688	547.1	456.4
MEAN	27.6	45.7	161	86.2	188	173	232	369	248	22.2	17.6	15.2
MAX	179	178	536	349	562	478	505	1230	1400	46	72	94
MIN	8.2	16	54	38	107	99	111	112	51	13	8.6	6.3
CFSM	0.44	0.72	2.56	1.37	2.98	2.75	3.68	5.86	3.94	0.35	0.28	0.24
IN.	0.51	0.81	2.95	1.58	3.11	3.17	4.11	6.76	4.39	0.41	0.32	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

MEAN	70.2	124	152	127	146	238	249	146	96.4	55.8	48.5	53.8
MAX	236	390	311	319	448	494	483	369	417	252	249	231
(WY)	1982	1986	1978	1998	1976	1964	1970	2002	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.

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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1954 - 2002	
ANNUAL TOTAL	29486.2		48077.6			
ANNUAL MEAN	80.8		132		125	
HIGHEST ANNUAL MEAN					184	1956
LOWEST ANNUAL MEAN					80.4	2001
HIGHEST DAILY MEAN	536	Dec 18	1400	Jun 14	2870	Jun 23 1972
LOWEST DAILY MEAN	5.8	Aug 16	6.3	Sep 26	4.5	Sep 21 1955
ANNUAL SEVEN-DAY MINIMUM	6.1	Aug 12	6.9	Sep 7	5.2	Sep 16 1955
MAXIMUM PEAK FLOW			2810	Jun 14	a 5590	Jan 19 1996
MAXIMUM PEAK STAGE			6.74	Jun 14	b 10.23	Jan 19 1996
INSTANTANEOUS LOW FLOW			6.3	Sep 25,26	4.2	Sep 21 1955
ANNUAL RUNOFF (CFSM)	1.28		2.09		1.99	
ANNUAL RUNOFF (INCHES)	17.41		28.39		27.01	
10 PERCENT EXCEEDS	226		312		286	
50 PERCENT EXCEEDS	37		87		73	
90 PERCENT EXCEEDS	8.9		9.4		15	

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

