

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)
Mar. 21	2000	*1,930	*5.51	Aug. 8	0200	1,320	4.67
Aug. 2	2100	1,370	4.77				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	42	e94	e199	e41	e95	145	37	272	26	302	48
2	12	45	e81	e364	e41	e93	187	51	204	28	417	180
3	11	41	e67	301	e41	93	152	41	185	26	495	118
4	11	43	e52	251	142	e93	168	38	182	26	341	146
5	13	43	e51	208	136	e91	623	46	180	25	258	123
6	11	119	e47	179	110	e90	466	51	143	22	216	98
7	11	98	e47	155	e85	e87	393	47	136	21	245	86
8	12	80	e44	144	e79	86	309	54	132	22	637	72
9	8.1	74	e41	e133	e73	135	272	59	179	21	375	66
10	8.1	72	e44	e120	e68	110	243	59	137	23	295	63
11	8.7	162	e47	107	e65	139	212	63	137	29	288	55
12	10	117	e52	e95	e63	111	188	79	161	21	227	51
13	17	106	e110	e76	e62	116	160	94	208	20	173	46
14	21	95	204	e63	e60	114	140	91	175	21	146	44
15	23	85	177	e56	e60	144	129	85	158	20	129	66
16	40	90	e142	e52	e63	284	121	100	138	16	161	78
17	51	321	e118	e49	e66	577	100	95	117	15	132	56
18	56	235	e100	e47	e75	976	94	88	112	24	99	50
19	107	200	127	e46	e75	1030	92	85	103	28	92	99
20	96	182	e417	e46	72	1070	70	88	101	26	73	115
21	60	183	e354	e46	59	1350	76	218	97	301	65	86
22	50	239	296	e45	65	1180	72	143	74	568	61	88
23	47	207	241	e44	221	716	66	142	57	291	54	198
24	43	188	198	e43	167	523	59	170	52	453	47	138
25	45	178	179	e41	e142	423	49	140	49	303	43	155
26	164	158	152	e41	e121	367	50	129	40	214	42	140
27	72	145	129	e41	e107	277	47	128	39	286	45	134
28	47	127	115	e40	e99	223	43	114	35	377	37	142
29	38	120	107	e41	---	208	42	94	34	237	36	134
30	38	120	96	e42	---	180	41	82	32	182	48	129
31	38	---	125	e42	---	153	---	227	---	143	38	---
TOTAL	1181.9	3915	4054	3157	2458	11134	4809	2938	3669	3815	5617	3004
MEAN	38.1	130	131	102	87.8	359	160	94.8	122	123	181	100
MAX	164	321	417	364	221	1350	623	227	272	568	637	198
MIN	8.1	41	41	40	41	86	41	37	32	15	36	44
CFSM	0.61	2.07	2.08	1.62	1.39	5.70	2.54	1.50	1.94	1.95	2.88	1.59
IN.	0.70	2.31	2.39	1.86	1.45	6.57	2.84	1.73	2.17	2.25	3.32	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2003, BY WATER YEAR (WY)

MEAN	69.6	124	152	127	144	240	247	145	96.9	57.1	51.1	54.7
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1954 - 2003	
ANNUAL TOTAL	50000.4		49751.9			
ANNUAL MEAN	137		136		125	
HIGHEST ANNUAL MEAN					184	1956
LOWEST ANNUAL MEAN					80.4	2001
HIGHEST DAILY MEAN	1400	Jun 14	1350	Mar 21	2870	Jun 23 1972
LOWEST DAILY MEAN	6.3	Sep 26	8.1	Oct 9,10	4.5	Sep 21 1955
ANNUAL SEVEN-DAY MINIMUM	6.9	Sep 7	9.8	Oct 6	5.2	Sep 16 1955
MAXIMUM PEAK FLOW			1930	Mar 21	a 5590	Jan 19 1996
MAXIMUM PEAK STAGE			5.51	Mar 21	b 10.23	Jan 19 1996
INSTANTANEOUS LOW FLOW			8.1	Oct 9-11	4.2	Sep 21 1955
ANNUAL RUNOFF (CFSM)	2.17		2.16		1.99	
ANNUAL RUNOFF (INCHES)	29.52		29.38		27.06	
10 PERCENT EXCEEDS	312		280		286	
50 PERCENT EXCEEDS	100		94		74	
90 PERCENT EXCEEDS	10		33		15	

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

