

CLARION RIVER BASIN

03029500 CLARION RIVER AT COOKSBURG, PA

LOCATION.--Lat 41°19'50", long 79°12'33", Jefferson County, Hydrologic Unit 05010005, on right bank at downstream side of bridge on State Highway 36 at Cooksburg, 300 ft downstream from Toms Run, and 2.7 mi upstream from Cathers Run.

DRAINAGE AREA.--807 mi².

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October, November 1938, published in WSP 1305.

REVISED RECORDS.--WSP 1305: 1939 (M). WDR PA-85-3: 1979 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,147.00 ft above sea level. Prior to May 17, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since June 1952 by East Branch Clarion River Lake (station 03027000) and at low flow by industrial plants above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1935, 19 ft, Mar. 17, 1936, from floodmarks, discharge, about 56,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 10,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	1300	*8,670	a8.84	(No peaks above base discharge.)			

a Maximum gage height, 14.11 ft., Feb. 10 (backwater from ice).

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387	376	816	e560	e1300	922	1890	996	733	383	265	544
2	373	371	744	e530	e1100	886	1820	921	821	456	257	568
3	365	364	628	e500	e1000	856	1770	850	1030	449	252	353
4	355	359	514	e480	e980	818	1730	780	1140	366	257	319
5	367	354	615	e460	e920	815	1590	729	921	354	246	299
6	1250	347	658	e440	e890	744	1600	694	801	358	248	285
7	1790	341	573	e420	e870	750	2120	642	756	340	239	272
8	1150	334	610	e400	e850	746	2270	601	703	327	244	267
9	947	337	560	e380	e1400	683	2270	573	628	327	240	263
10	843	370	496	e360	e3800	654	2330	579	545	317	238	264
11	760	532	569	e340	4270	604	2090	533	569	313	238	262
12	649	585	788	e320	3100	559	1920	739	581	367	249	276
13	578	484	1380	e290	2650	791	1700	1170	512	334	247	275
14	508	441	1060	e290	2680	2380	1480	854	457	289	244	319
15	482	424	1060	e300	5530	2160	1350	726	439	276	243	433
16	465	414	975	e310	4620	1830	2750	628	414	280	242	332
17	453	404	3010	e310	4340	1980	3580	576	434	278	251	287
18	502	408	4650	e310	3440	2240	2970	553	419	280	276	269
19	675	401	3390	e310	2750	2050	2510	541	366	311	277	272
20	550	e380	2770	e310	2360	2040	2200	515	349	290	271	284
21	485	e360	2460	e300	2190	2260	2910	485	384	270	311	287
22	459	e340	1830	e300	1760	6810	2740	562	549	259	245	303
23	436	e330	1440	e300	1560	5360	2390	1390	705	254	270	311
24	426	e320	e1200	e300	1460	4130	2180	1400	732	251	283	307
25	440	e300	e1000	e300	1250	3300	1920	990	598	251	301	343
26	451	e450	e900	e300	1420	2680	1670	881	469	272	295	483
27	428	896	e800	e300	1310	2220	1490	852	406	352	377	371
28	417	1040	e720	e300	1090	1890	1460	1050	372	307	451	332
29	412	889	e650	e310	---	1700	1400	983	372	260	307	333
30	390	839	e610	e630	---	1690	1130	887	364	249	299	312
31	378	---	e590	e950	---	2210	---	798	---	262	317	---
TOTAL	18171	13790	38066	11910	60890	58758	61230	24478	17569	9682	8480	9825
MEAN	586	460	1228	384	2175	1895	2041	790	586	312	274	328
MAX	1790	1040	4650	950	5530	6810	3580	1400	1140	456	451	568
MIN	355	300	496	290	850	559	1130	485	349	249	238	262
CFSM	.73	.57	1.52	.48	2.69	2.35	2.53	.98	.73	.39	.34	.41
IN.	.84	.64	1.75	.55	2.81	2.71	2.82	1.13	.81	.45	.39	.45

e Estimated.

CLARION RIVER BASIN

03029500 CLARION RIVER AT COOKSBURG, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	781	1320	1774	1600	1767	2729	2591	1829	1184	771	621	627
MAX (WY)	2357	3906	3821	5654	4138	6185	4721	4086	5307	2565	2732	1995
MIN (WY)	1991	1986	1978	1952	1976	1979	1994	1984	1972	1992	1994	1992
MIN (WY)	86.6	204	150	211	369	764	1217	566	325	139	117	109
(WY)	1952	1961	1961	1961	1987	1969	1976	1985	1999	1952	1952	1952

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1952 - 2001

ANNUAL TOTAL		446404		332849								
ANNUAL MEAN		1220		912					1464			
HIGHEST ANNUAL MEAN									2066			1994
LOWEST ANNUAL MEAN									912			2001
HIGHEST DAILY MEAN			14100	Apr 4	6810	Mar 22	43200	Jun 23 1972				
LOWEST DAILY MEAN		e300	Nov 25	238	Aug 10,11	59	Sep 14 1952					
ANNUAL SEVEN-DAY MINIMUM		339	Sep 4	242	Aug 5	67	Sep 8 1952					
MAXIMUM PEAK FLOW				8670	Mar 22	b53300	Jun 23 1972					
MAXIMUM PEAK STAGE				a8.84	Mar 22	c18.84	Jun 23 1972					
INSTANTANEOUS LOW FLOW				224	Aug 22	57	Sep 14 1952					
ANNUAL RUNOFF (CFSM)		1.51		1.13		1.81						
ANNUAL RUNOFF (INCHES)		20.58		15.34		24.65						
10 PERCENT EXCEEDS		2600		2200		3200						
50 PERCENT EXCEEDS		697		533		899						
90 PERCENT EXCEEDS		375		274		296						

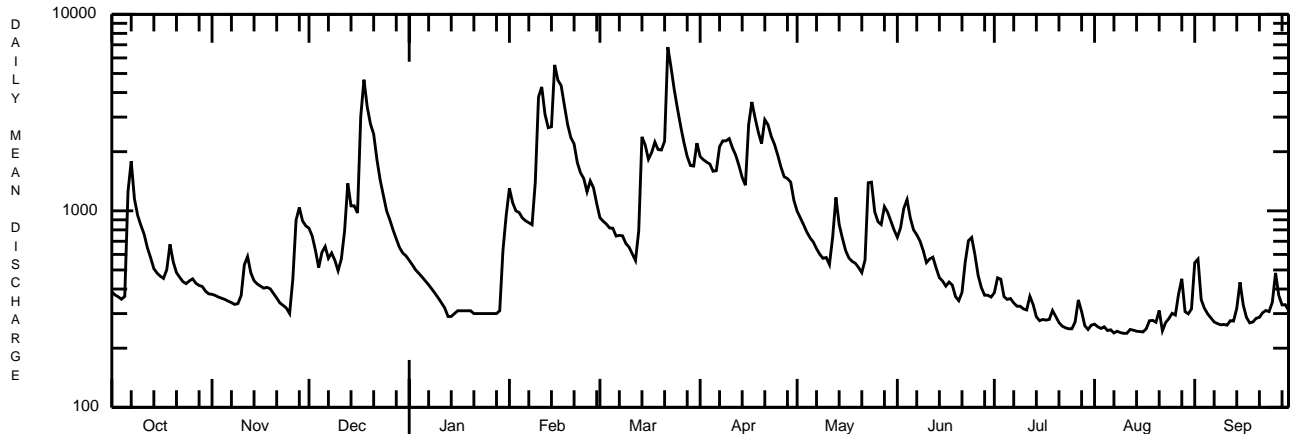
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1951, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	590	1085	1475	1891	1961	3055	2969	1971	1154	579	288	348
MAX (WY)	2134	4241	3050	3962	3881	6815	6288	3965	2789	1765	580	1078
(WY)	1946	1951	1941	1950	1951	1945	1940	1943	1946	1942	1950	1945
MIN (WY)	113	170	337	417	764	1610	725	606	261	158	94.2	82.8
(WY)	1950	1950	1944	1944	1941	1949	1946	1941	1939	1949	1944	1943

SUMMARY STATISTICS WATER YEARS 1939 - 1951

ANNUAL MEAN	1444
HIGHEST ANNUAL MEAN	2023 1951
LOWEST ANNUAL MEAN	953 1944
HIGHEST DAILY MEAN	24600 Dec 30 1942
LOWEST DAILY MEAN	43 Aug 30 1939
ANNUAL SEVEN-DAY MINIMUM	50 Aug 29 1939
MAXIMUM PEAK FLOW	32700 Jul 19 1942
MAXIMUM PEAK STAGE	14.96 Jul 19 1942
INSTANTANEOUS LOW FLOW	41 Aug 30 1939
ANNUAL RUNOFF (CFSM)	1.79
ANNUAL RUNOFF (INCHES)	24.31
10 PERCENT EXCEEDS	3350
50 PERCENT EXCEEDS	793
90 PERCENT EXCEEDS	140

- a Maximum gage height, 14.11 ft., Feb. 10 (backwater from ice).
- b From rating curve extended above 40,000 ft³/s.
- c From peak-stage indicator.
- e Estimated.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001