

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01541200 WEST BRANCH SUSQUEHANNA RIVER AT CURWENSVILLE, PA

**LOCATION.**--Lat 40°57'41", long 78°31'10", Clearfield County, Hydrologic Unit 02050201, on left bank 30 ft downstream from bridge on State Highway 453, 0.8 mi downstream from Curwensville Dam, 1.1 mi south of Curwensville, and 1.8 mi upstream from Anderson Creek.

**DRAINAGE AREA.**--367 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1955 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 1,124.52 ft above sea level. Prior to Aug. 24, 1956, nonrecording gage and crest-stage gage 30 ft upstream at same datum.

**REMARKS.**--Records fair except those below 100 ft<sup>3</sup>/s and those for estimated daily discharges, which are poor. Flow regulated since November 1965 by Curwensville Dam (station 01541180). Several measurements of water temperature were made during the year. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e410	89	522	256	155	1480	417	597	434	189	145	102
2	244	156	288	222	155	1500	329	644	315	156	144	93
3	160	563	340	224	156	1250	519	643	468	156	144	103
4	137	502	372	623	155	881	1730	526	489	204	141	135
5	193	314	367	769	155	760	2240	422	306	232	140	149
6	162	251	317	507	155	757	1650	398	490	178	161	105
7	137	208	344	343	155	644	1290	398	601	137	752	84
8	102	184	315	292	155	484	1230	347	416	121	652	85
9	85	184	243	334	154	436	1090	275	336	119	307	85
10	117	184	222	369	154	525	950	276	288	139	200	87
11	205	185	260	485	178	737	947	276	251	149	146	90
12	243	160	292	533	255	884	948	275	232	147	146	127
13	203	148	291	447	427	677	881	274	e500	146	146	229
14	e210	149	564	368	868	479	796	274	e1100	145	126	270
15	e240	150	1440	300	1830	432	715	254	e900	145	114	181
16	e230	e130	1220	254	1570	548	650	191	e800	162	111	140
17	e210	e110	862	254	1210	973	955	168	e700	175	111	140
18	e150	e110	592	191	1040	1040	1240	207	e580	137	104	140
19	e110	114	459	155	1170	823	1030	379	e580	97	93	140
20	e110	157	547	235	1360	717	837	440	e500	90	93	139
21	e110	165	612	252	1030	1460	1950	388	e400	84	86	140
22	e110	151	498	196	715	3100	2890	293	e740	80	80	140
23	111	151	372	181	885	2180	2850	267	e560	80	112	140
24	110	124	331	198	1730	1570	2190	878	e400	73	141	308
25	109	114	253	216	2440	1200	1460	957	e250	68	221	522
26	110	2020	190	196	2690	950	1170	538	e300	73	188	407
27	111	3750	190	180	1980	948	1030	437	e400	79	117	354
28	110	1790	225	164	1890	839	879	436	320	104	101	301
29	92	773	224	155	1680	790	704	821	260	210	102	204
30	84	610	311	155	---	684	548	891	248	263	102	180
31	87	---	331	155	---	525	---	536	---	183	102	---
TOTAL	4802	13696	13394	9209	26497	30273	36115	13706	14164	4321	5328	5320
MEAN	155	457	432	297	914	977	1204	442	472	139	172	177
MAX	410	3750	1440	769	2690	3100	2890	957	1100	263	752	522
MIN	84	89	190	155	154	432	329	168	232	68	80	84

e Estimated.

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	328	642	842	769	987	1323	1141	742	492	397	247	292
MAX	950	2010	1865	1749	1847	2532	2911	1593	2074	1650	765	1460
(WY)	1980	1998	1973	1996	1986	1979	1993	1966	1972	1977	1977	1996
MIN	77.4	82.5	183	209	305	154	437	182	119	54.7	63.8	57.8
(WY)	1986	1999	1999	1977	1980	1969	1976	1986	1999	1966	1966	1968

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000	
ANNUAL TOTAL	183916		176825			
ANNUAL MEAN	504		483		681	
HIGHEST ANNUAL MEAN					905	
LOWEST ANNUAL MEAN					450	
HIGHEST DAILY MEAN	5440		Jan 25		3750	
LOWEST DAILY MEAN	66		Jun 19 <sup>a</sup>		68	
ANNUAL SEVEN-DAY MINIMUM	69		Jul 15		77	
INSTANTANEOUS PEAK FLOW					4220	
INSTANTANEOUS PEAK STAGE					7.20	
10 PERCENT EXCEEDS	1260		1120		1620	
50 PERCENT EXCEEDS	208		265		389	
90 PERCENT EXCEEDS	75		110		100	

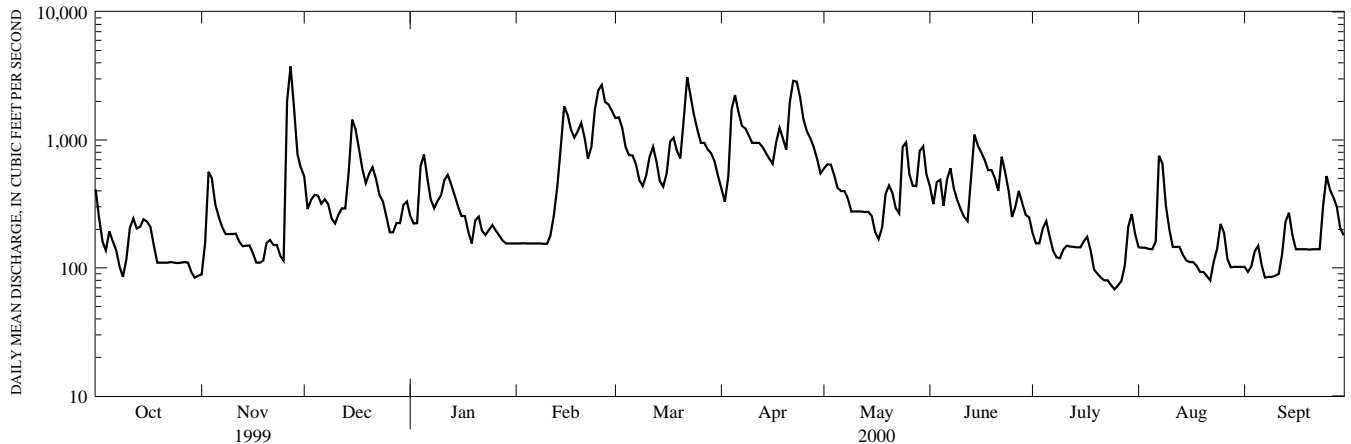
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1965, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	158	329	501	685	889	1446	1323	783	310	321	265	137
MAX	363	610	1152	1210	1792	2661	1968	1521	656	1487	1068	322
(WY)	1956	1956	1957	1965	1956	1964	1957	1956	1956	1956	1956	1956
MIN	29.5	80.1	83.6	126	188	690	625	351	89.4	48.9	49.0	33.2
(WY)	1965	1958	1961	1956	1963	1957	1963	1965	1965	1965	1965	1964

SUMMARY STATISTICS WATER YEARS 1956 - 1965

ANNUAL MEAN	594
HIGHEST ANNUAL MEAN	938
LOWEST ANNUAL MEAN	454
HIGHEST DAILY MEAN	14000
LOWEST DAILY MEAN	21
ANNUAL SEVEN-DAY MINIMUM	22
INSTANTANEOUS PEAK FLOW	15700
INSTANTANEOUS PEAK STAGE	14.19
ANNUAL RUNOFF (CFSM)	1.62
ANNUAL RUNOFF (INCHES)	22.00
10 PERCENT EXCEEDS	1450
50 PERCENT EXCEEDS	270
90 PERCENT EXCEEDS	56

<sup>a</sup> Also July 18, 19, 29, Aug. 11.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000