

SCHUYLKILL RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA

LOCATION.--Lat 40°31'21", long 75°59'55", Berks County, Hydrologic Unit 02040203, on right bank 50 ft upstream from bridge on Township Route 558 at Berne, 0.5 mi upstream from Mill Creek, and 6.5 mi downstream from Little Schuylkill River.

DRAINAGE AREA.--355 mi².

PERIOD OF RECORD.--August 1947 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 310.65 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation at low flow by mine pumpage and by Still Creek Reservoir (station 01469200) about 25 mi upstream. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 26	0600	4,940	8.28	Mar. 22	0700	*9,530	*10.28
Aug. 2	0200	6,330	8.94				

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	1720	258	849	462	e370	2120	1420	570	798	909	2000	397
2	1170	324	751	449	e330	1740	1270	588	718	786	3750	539
3	906	1240	687	448	e320	1450	1160	547	643	699	1890	354
4	987	736	640	453	e310	1230	1400	509	576	682	2000	346
5	1190	610	593	529	e340	1090	1240	486	546	613	1320	291
6	937	557	664	429	e320	953	1060	466	963	549	1030	259
7	808	518	629	397	e300	864	974	450	799	501	1000	242
8	698	475	536	376	e300	802	1000	435	587	462	764	232
9	642	453	491	368	e300	748	1740	417	516	440	649	231
10	954	445	492	579	e290	710	1570	554	465	432	577	237
11	1040	429	530	1200	e290	803	1510	1230	436	416	526	232
12	836	401	469	893	e280	1570	1420	768	636	379	495	220
13	746	387	455	798	e270	1300	1240	733	800	358	474	467
14	767	371	765	693	e800	1160	1130	1450	726	348	454	308
15	657	354	1650	e620	e700	1050	1050	954	624	467	434	401
16	596	339	1400	e590	e600	965	994	802	596	455	400	291
17	565	323	1180	e560	e500	1510	987	705	537	371	362	258
18	572	312	1020	e530	e470	1300	968	647	510	337	348	240
19	505	313	901	e500	e550	1200	820	1040	529	310	346	302
20	520	305	852	e480	e520	1110	748	1110	457	309	321	790
21	491	312	971	e470	e500	1700	769	1060	432	286	302	428
22	433	301	807	e450	e490	7680	914	1110	1020	315	292	343
23	426	291	731	e410	e460	4360	834	1660	664	280	290	308
24	396	291	685	e440	e450	2930	777	2410	562	266	345	303
25	356	403	625	e430	e470	2240	735	2640	631	258	307	285
26	320	763	605	e410	e700	1840	703	2070	3300	252	267	370
27	335	2790	593	e380	1620	1560	722	1660	1810	256	259	389
28	304	1690	567	e360	3230	2820	675	1400	1350	255	297	306
29	287	1250	543	e340	2730	2270	636	1190	1140	245	269	277
30	278	1010	512	e320	---	1900	608	1010	1220	908	259	264
31	268	---	491	e330	---	1620	---	884	---	1330	249	---
TOTAL	20710	18251	22684	15694	18810	54595	31074	31555	24591	14474	22276	9910
MEAN	668	608	732	506	649	1761	1036	1018	820	467	719	330
MAX	1720	2790	1650	1200	3230	7680	1740	2640	3300	1330	3750	790
MIN	268	258	455	320	270	710	608	417	432	245	249	220
CFSM	1.88	1.71	2.06	1.43	1.83	4.96	2.92	2.87	2.31	1.32	2.02	.93
IN.	2.17	1.91	2.38	1.64	1.97	5.72	3.26	3.31	2.58	1.52	2.33	1.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)

MEAN	425	700	925	831	895	1188	1132	881	567	377	341	358
MAX	1896	1631	2932	2547	1735	2525	3319	2689	3410	1240	1594	1381
(WY)	1977	1971	1997	1979	1981	1994	1993	1989	1972	1984	1955	1987
MIN	75.7	120	125	88.4	290	462	424	314	148	104	119	94.6
(WY)	1964	1965	1981	1981	1980	1985	1985	1999	1965	1999	1999	1964

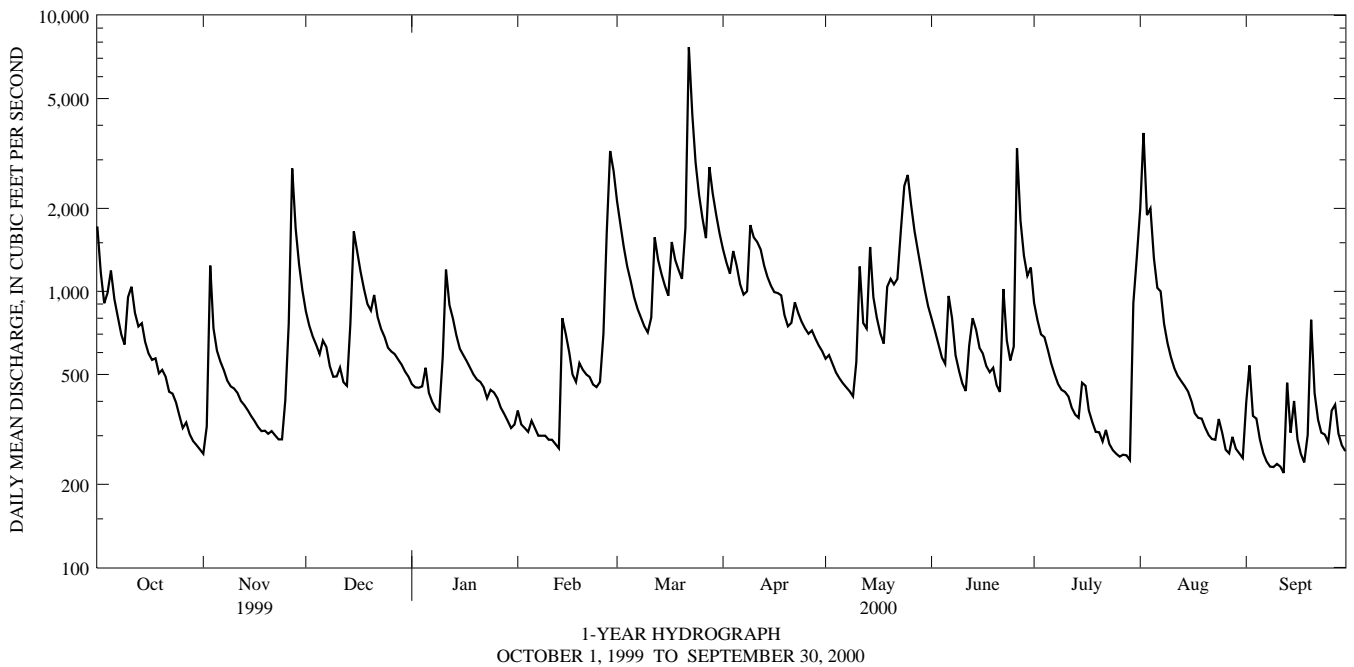
e Estimated.

SCHUYLKILL RIVER BASIN

01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000	
ANNUAL TOTAL	217850		284624			
ANNUAL MEAN	597		778		717	
HIGHEST ANNUAL MEAN					1182	1952
LOWEST ANNUAL MEAN					321	1965
HIGHEST DAILY MEAN	7150	Sep 17	7680	Mar 22	26000	Jun 23 1972
LOWEST DAILY MEAN	44	Sep 3,4	220	Sep 12	40	Sep 2 1949
ANNUAL SEVEN-DAY MINIMUM	52	Aug 30	236	Sep 6	52	Aug 30 1999
INSTANTANEOUS PEAK FLOW			9530	Mar 22	a 42800	Jun 22 1972
INSTANTANEOUS PEAK STAGE			10.28	Mar 22	b 19.00	Jun 22 1972
INSTANTANEOUS LOW FLOW			213	Sep 12	31	Sep 2 1949
ANNUAL RUNOFF (CFSM)	1.68		2.19		2.02	
ANNUAL RUNOFF (INCHES)	22.83		29.83		27.46	
10 PERCENT EXCEEDS	1150		1470		1480	
50 PERCENT EXCEEDS	469		566		451	
90 PERCENT EXCEEDS	98		291		160	

a From rating curve extended above 20,800 ft³/s.
b From floodmark in gage shelter.



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