

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)
Dec. 17	1530	*14,500	*12.05	No other peak greater than base discharge.			

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	264	230	318	e426	642	717	1650	445	274	270	167	192
2	256	225	295	e421	e597	709	1410	425	409	327	152	129
3	237	219	279	e413	665	673	1200	405	463	238	166	105
4	240	222	e252	e405	603	651	1090	384	404	240	282	127
5	402	224	e245	e395	618	702	936	364	334	484	251	264
6	319	219	e239	e385	600	633	991	352	310	347	181	147
7	282	219	e232	378	572	594	1080	339	294	266	158	121
8	266	219	e239	369	550	629	915	321	275	247	142	118
9	255	226	e245	356	526	638	877	313	261	333	139	111
10	243	415	246	340	730	621	901	305	251	246	144	120
11	240	374	248	e331	850	611	882	291	249	273	178	140
12	227	301	253	323	773	595	926	282	242	225	215	110
13	215	269	231	e317	729	1160	877	273	247	200	222	97
14	224	256	329	e314	714	1310	816	264	231	190	168	144
15	219	261	389	312	791	1230	781	254	222	184	151	143
16	216	241	353	309	797	1160	1000	245	231	180	144	115
17	214	240	7810	306	927	1240	903	244	673	171	137	112
18	380	239	4910	298	820	1210	997	245	378	166	140	105
19	457	238	e2680	e364	783	1090	887	247	293	160	136	106
20	338	237	e1920	e533	767	1020	837	235	265	155	139	132
21	346	237	e1410	e457	742	1030	812	255	392	150	130	212
22	324	232	e1170	e389	671	1350	782	506	514	147	122	141
23	294	214	e965	e348	653	1160	727	431	589	145	120	113
24	274	207	e827	e337	603	1080	679	318	471	138	124	147
25	259	205	e721	e337	654	1000	621	268	384	139	115	1650
26	248	375	e646	e337	798	922	573	308	336	568	109	539
27	243	467	e582	e342	773	840	545	378	305	254	119	349
28	240	351	e539	337	746	767	518	489	278	193	147	265
29	232	322	e497	315	---	721	484	370	264	180	120	220
30	222	352	e465	e409	---	1980	460	336	254	171	110	189
31	224	---	e439	673	---	1950	---	291	---	158	113	---
TOTAL	8400	8036	29974	11576	19694	29993	26157	10183	10093	7145	4741	6463
MEAN	271	268	967	373	703	968	872	328	336	230	153	215
MAX	457	467	7810	673	927	1980	1650	506	673	568	282	1650
MIN	214	205	231	298	526	594	460	235	222	138	109	97
CFSM	.76	.75	2.72	1.05	1.98	2.73	2.46	.93	.95	.65	.43	.61
IN.	.88	.84	3.14	1.21	2.06	3.14	2.74	1.07	1.06	.75	.50	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2001, BY WATER YEAR (WY)

MEAN	422	692	926	823	891	1184	1127	871	563	375	338	355
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.

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01470500 SCHUYLKILL RIVER AT BERNE, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1947 - 2001	
ANNUAL TOTAL	269389		172455			
ANNUAL MEAN	736		472		713	
HIGHEST ANNUAL MEAN					1182	1952
LOWEST ANNUAL MEAN					321	1965
HIGHEST DAILY MEAN	7810	Dec 17	7810	Dec 17	26000	Jun 23 1972
LOWEST DAILY MEAN	205	Nov 25	97	Sep 13	40	Sep 2 1949
ANNUAL SEVEN-DAY MINIMUM	221	Nov 2	117	Sep 7	52	Aug 30 1999
MAXIMUM PEAK FLOW			14500	Dec 17	a 42800	Jun 22 1972
MAXIMUM PEAK STAGE			12.05	Dec 17	b 19.00	Jun 22 1972
INSTANTANEOUS LOW FLOW			90	Sep 13	31	Sep 2 1949
ANNUAL RUNOFF (CFSM)	2.07		1.33		2.01	
ANNUAL RUNOFF (INCHES)	28.23		18.07		27.28	
10 PERCENT EXCEEDS	1470		908		1470	
50 PERCENT EXCEEDS	465		315		450	
90 PERCENT EXCEEDS	240		144		160	

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

