SCHUYLKILL RIVER BASIN

01469500 LITTLE SCHUYLKILL RIVER AT TAMAQUA, PA

LOCATION.--Lat 40°48'25", long 75°58'20", Schuylkill County, Hydrologic Unit 02040203, on left bank along State Highway 309, 0.6 mi upstream from Tamaqua, and 0.8 mi upstream from Panther Creek.

DRAINAGE AREA.--42.9 mi^2.

PERIOD OF RECORD.--October 1919 to current year. June 1916 to September 1919, gage heights and discharge measurements only, in reports of Water Supply Commission of Pennsylvania.

REVISED RECORDS.--WSP 756: Drainage area. WSP 971: 1942. WSP 1302: 1922, 1926-30. WSP 1432: 1920-21, 1933.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 817.48 ft above sea level. Prior to June 21, 1929, nonrecording gage at site 3,600 ft downstream at datum 28.64 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Still Creek Reservoir (station 01469200) 6.5 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

COOPERATION.--Records of diversion and change in contents of Still Creek Reservoir provided by the Borough of Tamaqua.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	17	16	e13	120	84	90	33	37	16	6.6	5.0
2	7.5	17	17	e13	220	74	87	34	35	15	6.3	5.4
3	7.8	35	16	e47	207	65	80	32	33	15	6.4	5.8
4	13	32	15	e50	179	134	86	31	30	15	6.3	5.1
5	11	33	15	e31	163	111	79	30	28	14	6.2	6.1
6	9.6	28	16	e28	147	107	71	30	25	12	5.9	13
7	9.1	22	15	e26	136	107	67	30	25	11	6.0	72
8	35	18	15	e24	131	95	62	38	31	10	7.8	34
9	33	18	16	e28	115	92	72	37	25	10	7.5	19
10	69	18	15	e35	106	89	96	31	23	14	6.6	15
11	43	22	15	e40	99	83	82	28	22	12	6.4	12
12	31	20	15	40	99	79	83	26	21	11	6.2	10
13	26	19	14	40	104	71	76	25	20	10	8.6	9.2
14	42	17	14	e40	93	71	72	23	25	10	27	8.7
15	34	17	14	e39	86	80	70	23	28	10	13	9.9
16	27	16	14	38	83	71	75	22	23	9.8	9.9	234
17	24	16	15	34	83	72	77	21	26	12	8.6	359
18	23	15	15	133	89	84	72	21	44	14	7.8	152
19	22	14	14	201	83	81	68	22	27	12	7.2	94
20	21	14	14	143	77	75	68	22	22	12	8.0	73
21	20	15	14	119	73	86	99	20	20	11	9.4	80
22	19	13	16	121	66	223	130	19	19	10	8.5	91
23	18	12	15	168	61	191	132	26	18	9.9	7.4	72
24	18	13	14	798	61	181	131	78	18	9.1	7.1	60
25	18	12	e13	606	59	164	118	83	17	8.7	7.0	54
26	17	30	e13	367	58	144	95	62	16	8.3	8.3	46
27	18	26	e13	269	55	130	56	54	16	7.6	7.7	42
28	18	21	e14	227	69	122	37	49	18	7.3	7.4	39
29	21	18	14	197	---	111	35	45	18	7.2	6.6	38
30	19	17	e14	163	---	101	34	42	17	7.2	5.8	174
31	18	---	e12	137	---	93	---	39	---	7.2	6.6	---
TOTAL	700.6	585	452	4215	2922	3271	2400	1076	727	338.3	250.1	1838.2
MEAN	22.6	19.5	14.6	136	104	106	80.0	34.7	24.2	10.9	8.07	61.3
MAX	69	35	17	798	220	223	132	83	44	16	27	359
MIN	7.5	12	12	13	55	65	34	19	16	7.2	5.8	5.0
(†)	3.7	3.6	3.2	3.4	3.9	3.3	3.4	3.3	3.4	3.3	3.1	3.0

† Diversion from Still Creek Reservoir, equivalent in cubic feet per second.
e Estimated.

SCHUYLKILL RIVER BASIN

01469500 LITTLE SCHUYLKILL RIVER AT TAMAQUA, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	49.8	82.4	103	91.5	95.8	141	142	107	64.8	50.6	39.2	43.8
MAX	317	242	321	338	242	365	475	315	430	394	226	259
(WY)	1977	1952	1997	1996	1951	1936	1993	1989	1972	1947	1933	1933
MIN	5.82	7.81	12.2	8.57	26.6	42.5	46.6	21.1	14.6	8.87	6.25	6.46
(WY)	1964	1942	1981	1981	1934	1985	1985	1941	1941	1965	1944	1964

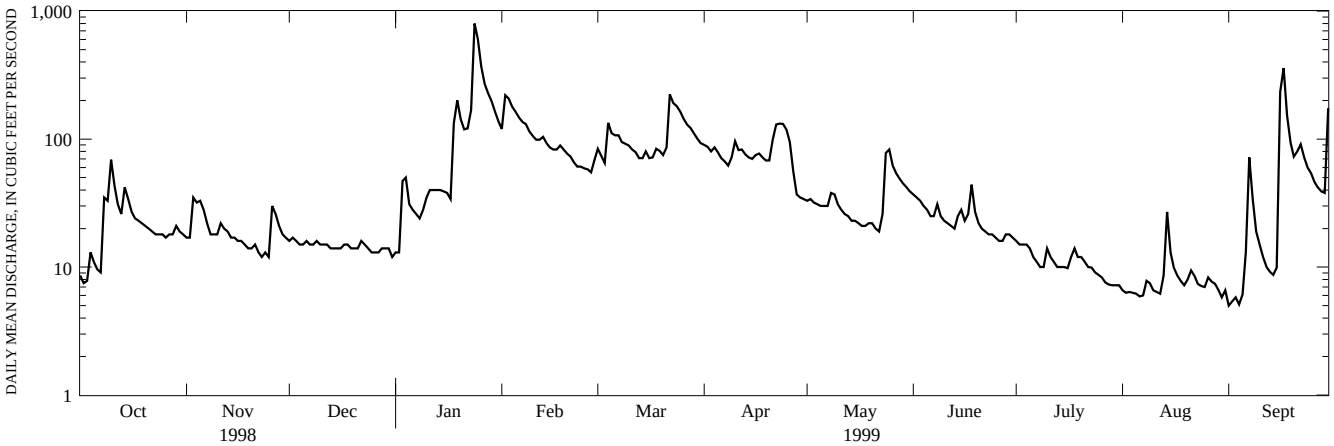
SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1933 - 1999	
ANNUAL TOTAL	28783.3		18775.2			
ANNUAL MEAN	78.9		51.4		84.2	
HIGHEST ANNUAL MEAN					155	1952
LOWEST ANNUAL MEAN					33.8	1965
HIGHEST DAILY MEAN	519	Jan 9	798	Jan 24	2790	Aug 24 1933
LOWEST DAILY MEAN	7.5	Oct 2	5.0	Sep 1	2.9	Sep 2 1966
ANNUAL SEVEN-DAY MINIMUM	9.1	Sep 27	5.7	Aug 30	3.5	Aug 27 1966
INSTANTANEOUS PEAK FLOW			1040	Jan 24	**a**7790	Aug 18 1955
INSTANTANEOUS PEAK STAGE			4.95	Jan 24	11.10	Aug 18 1955
INSTANTANEOUS LOW FLOW					2.6	Sep 2 1966
10 PERCENT EXCEEDS	200		119		177	
50 PERCENT EXCEEDS	35		25		51	
90 PERCENT EXCEEDS	13		8.3		13	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1932, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	73.0	96.5	101	78.7	103	188	143	112	74.4	57.0	33.7	37.7
MAX	227	308	241	266	344	410	227	208	209	185	81.5	152
(WY)	1928	1927	1928	1924	1925	1920	1928	1924	1922	1928	1927	1924
MIN	6.67	6.74	7.99	13.3	25.7	88.5	72.6	32.8	27.3	14.5	10.3	6.66
(WY)	1931	1931	1931	1931	1931	1931	1926	1926	1921	1923	1923	1932

SUMMARY STATISTICS	WATER YEARS 1920 - 1932	
ANNUAL TOTAL ANNUAL MEAN	91.5	
HIGHEST ANNUAL MEAN	145	1928
LOWEST ANNUAL MEAN	42.3	1931
HIGHEST DAILY MEAN	3600	Sep 30 1924
LOWEST DAILY MEAN	3.0	Dec 23 1930
ANNUAL SEVEN DAY MINIMUM	3.8	Dec 14 1930
INSTANTANEOUS PEAK FLOW	5000	Sep 30 1924
INSTANTANEOUS LOW FLOW	1.8	Dec 18 1931
ANNUAL RUNOFF (CFSM)	2.13	
ANNUAL RUNOFF (INCHES)	28.97	
10 PERCENT EXCEEDS	201	
50 PERCENT EXCEEDS	54	
90 PERCENT EXCEEDS	12	

a From rating curve extended above 3,200 ft^3/s on basis of contracted-opening measurement of peak flow.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999