

CHEMUNG RIVER BASIN

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA

LOCATION.--Lat 41°59'48", long 77°08'25", Tioga County, Hydrologic Unit 02050104, on left bank on SR 4022, 0.5 mi downstream from Cowanesque Dam, 0.8 mi upstream from highway bridge on U.S. Route 15 in Lawrenceville, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--298 mi².

PERIOD OF RECORD.--June 1951 to current year. Prior to October 1951 monthly discharge only, published in WSP 1722.

REVISED RECORDS.--WDR PA-72-1: 1971(M).

GAGE.--Water-stage recorder. Datum of gage is 983.96 ft above sea level. Prior to July 1976 at site 1.1 mi upstream at datum 14.07 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since December 1979 by Cowanesque Dam (station 01519995). Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

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	26	16	19	18	225	100	730	177	30	15	18	18
2	26	16	19	18	275	137	879	173	29	17	18	17
3	26	16	19	18	504	241	795	164	28	16	18	18
4	26	16	19	17	463	1550	970	147	28	15	18	18
5	26	16	20	16	381	1620	978	120	28	15	19	18
6	26	16	21	16	361	1130	619	112	28	16	18	18
7	26	16	21	15	293	548	482	113	23	18	17	23
8	28	17	21	15	293	302	393	113	17	18	19	18
9	26	17	21	15	260	242	747	156	17	18	18	18
10	26	16	21	14	329	332	1250	146	17	18	20	18
11	26	18	20	14	390	305	770	119	17	18	22	18
12	26	18	19	14	559	238	886	105	17	18	20	18
13	24	18	18	14	634	210	830	68	17	18	20	20
14	23	18	18	14	458	210	464	55	17	18	20	15
15	23	18	18	13	276	210	460	55	17	18	20	15
16	23	18	18	13	371	210	420	55	15	17	19	20
17	24	18	18	13	423	444	389	55	15	17	18	19
18	25	18	19	13	387	1550	427	55	15	18	18	17
19	27	18	19	14	315	1050	336	48	15	20	19	16
20	26	18	19	14	238	734	289	32	15	20	20	15
21	26	18	19	14	171	608	262	32	15	19	20	15
22	26	18	20	14	172	716	261	32	15	18	18	15
23	26	19	19	577	125	698	563	32	15	18	17	15
24	26	19	18	1340	100	659	847	32	15	18	18	15
25	26	19	18	1960	100	705	517	30	15	19	19	15
26	26	19	18	2810	100	557	384	30	15	19	21	16
27	24	19	18	1650	100	434	285	30	15	17	18	18
28	25	19	18	435	100	400	293	30	17	17	18	18
29	22	19	18	518	---	518	274	30	17	17	18	18
30	17	19	19	363	---	600	205	30	16	19	18	94
31	16	---	19	259	---	561	---	30	---	20	18	---
TOTAL	769	530	591	10238	8403	17819	17005	2406	560	549	582	596
MEAN	24.8	17.7	19.1	330	300	575	567	77.6	18.7	17.7	18.8	19.9
MAX	28	19	21	2810	634	1620	1250	177	30	20	22	94
MIN	16	16	18	13	100	100	205	30	15	15	17	15

CHEMUNG RIVER BASIN

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	160	290	330	323	402	627	732	374	242	99.3	104	78.2
MAX	1122	1114	864	1198	1027	1527	2773	1115	1222	462	889	315
(WY)	1991	1997	1991	1996	1981	1994	1993	1996	1989	1984	1994	1992
MIN	13.9	14.3	19.1	23.3	57.6	158	231	48.9	17.4	14.1	11.9	5.09
(WY)	1989	1992	1999	1981	1980	1981	1997	1985	1991	1991	1983	1980

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1980 - 1999

ANNUAL TOTAL		141621		60048								
ANNUAL MEAN		388		165						312		
HIGHEST ANNUAL MEAN										498		1984
LOWEST ANNUAL MEAN										165		1999
HIGHEST DAILY MEAN				5070	Jan 11		2810	Jan 26		5840	Jan 23	1996
LOWEST DAILY MEAN				16	Oct 31 ^a		13	Jan 15-18		3.4	Sep 13	1980
ANNUAL SEVEN-DAY MINIMUM				16	Oct 31		13	Jan 12		3.9	Sep 10	1980
INSTANTANEOUS PEAK FLOW							3340	Jan 26		6580	Jan 23	1996
INSTANTANEOUS PEAK STAGE							10.82	Jan 26		12.41	Jan 23	1996
10 PERCENT EXCEEDS				1010			518			775		
50 PERCENT EXCEEDS				100			20			106		
90 PERCENT EXCEEDS				18			15			17		

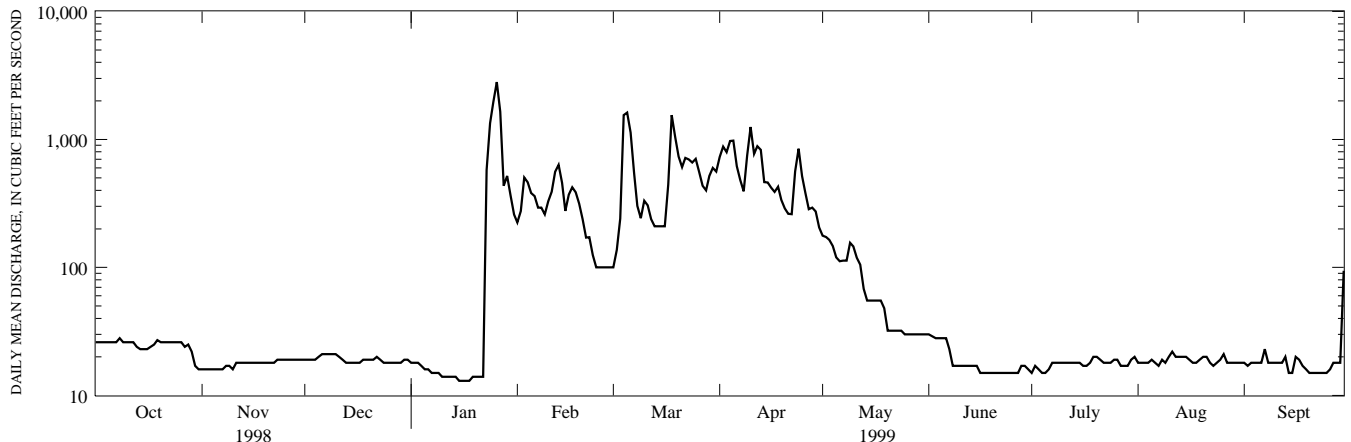
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1979, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	121	203	297	288	345	808	707	359	220	61.0	39.1	87.9
MAX	809	826	860	886	1173	1909	1934	797	1366	223	125	1054
(WY)	1956	1978	1973	1952	1976	1964	1958	1960	1972	1977	1977	1975
MIN	3.33	7.95	12.2	13.9	45.6	230	167	55.5	13.8	7.00	3.11	2.52
(WY)	1965	1965	1961	1961	1963	1965	1955	1955	1955	1966	1954	1964

SUMMARY STATISTICS WATER YEARS 1952 - 1979

ANNUAL MEAN	294
HIGHEST ANNUAL MEAN	514
LOWEST ANNUAL MEAN	135
HIGHEST DAILY MEAN	21500
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	1.5
INSTANTANEOUS PEAK FLOW	^b 43700
INSTANTANEOUS PEAK STAGE	^c 18.13
INSTANTANEOUS LOW FLOW	^d 0.8
ANNUAL RUNOFF (CFSM)	.99
ANNUAL RUNOFF (INCHES)	13.41
10 PERCENT EXCEEDS	694
50 PERCENT EXCEEDS	95
90 PERCENT EXCEEDS	10

- a Also Nov. 1-7, 10.
- b From rating curve extended above 6,000 ft³/s, on basis of slope-area measurement of peak flow.
- c From floodmark; site and datum then in use.
- d No flow Aug. 22, 1978, during dam construction.



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