

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.--Records good except those for estimated daily discharges, which are poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	29	112	56	194	72	709	163	42	48	13	11
2	23	29	78	47	163	65	713	120	60	59	14	11
3	24	28	54	54	78	80	604	138	105	59	13	11
4	28	27	44	54	39	59	799	150	71	59	13	13
5	e130	27	44	45	49	46	1720	116	45	59	13	12
6	539	27	47	40	71	53	2630	85	46	41	15	13
7	274	27	55	40	86	83	4080	85	40	32	15	13
8	76	33	56	40	62	101	4760	86	36	33	14	14
9	75	51	55	40	82	82	4450	86	36	33	14	15
10	76	98	51	42	525	82	2720	86	36	29	14	17
11	75	61	49	47	475	77	2390	56	36	27	13	19
12	78	31	49	47	178	66	2440	40	38	27	14	19
13	65	31	54	47	137	111	970	40	38	29	13	19
14	58	39	82	47	188	532	613	40	39	32	13	19
15	59	44	129	47	470	447	544	40	40	31	13	18
16	59	44	137	39	398	315	634	40	41	31	14	16
17	78	44	1010	36	238	243	819	40	40	31	13	16
18	127	44	862	36	153	168	719	40	54	31	12	16
19	103	44	354	43	84	174	471	39	51	28	11	16
20	57	36	283	51	110	216	427	39	39	25	11	16
21	59	31	167	50	142	590	1000	39	56	25	11	15
22	59	31	154	45	106	798	1600	40	97	25	11	15
23	59	31	113	35	56	701	894	39	311	25	11	15
24	59	30	34	27	83	1030	684	39	396	25	10	17
25	59	29	63	31	106	492	514	39	165	26	10	18
26	59	44	76	31	106	302	389	40	114	27	10	15
27	50	153	75	20	93	221	349	136	73	26	10	14
28	28	241	78	20	85	327	303	191	47	25	11	14
29	29	217	71	20	---	369	240	114	33	24	10	13
30	29	153	68	97	---	2040	210	42	33	24	10	13
31	29	---	68	201	---	1350	---	42	---	17	11	---
TOTAL	2545	1754	4572	1475	4557	11292	39395	2290	2258	1013	380	453
MEAN	82.1	58.5	147	47.6	163	364	1313	73.9	75.3	32.7	12.3	15.1
MAX	539	241	1010	201	525	2040	4760	191	396	59	15	19
MIN	22	27	34	20	39	46	210	39	33	17	10	11

e Estimated.

CHEMUNG RIVER BASIN

01520000 COWANESQUE RIVER NEAR LAWRENCEVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	151	274	317	304	404	607	757	366	248	93.6	97.2	73.1
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1980 - 2001

ANNUAL TOTAL		104295		71984								
ANNUAL MEAN		285		197						307		
HIGHEST ANNUAL MEAN										498		1984
LOWEST ANNUAL MEAN										165		1999
HIGHEST DAILY MEAN				4550	Jun 14		4760	Apr 8		5840	Jan 23	1996
LOWEST DAILY MEAN				20	Jul 27,28		10	Aug 24-27a		3.4	Sep 13	1980
ANNUAL SEVEN-DAY MINIMUM				22	Jul 27		10	Aug 24		3.9	Sep 10	1980
MAXIMUM PEAK FLOW							4890	Apr 7		6580	Jan 23	1996
MAXIMUM PEAK STAGE							11.67	Apr 7		12.41	Jan 23	1996
10 PERCENT EXCEEDS				686			473			750		
50 PERCENT EXCEEDS				101			47			101		
90 PERCENT EXCEEDS				24			14			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				1978							
LOWEST ANNUAL MEAN	135				1965							
HIGHEST DAILY MEAN	21500				Jun 23	1972						
LOWEST DAILY MEAN	.00				Aug 22	1978						
ANNUAL SEVEN-DAY MINIMUM	1.5				Sep 22	1964						
INSTANTANEOUS PEAK FLOW	b43700				Sep 26	1975						
INSTANTANEOUS PEAK STAGE	c18.13				Sep 26	1975						
INSTANTANEOUS LOW FLOW	d0.8				Aug 31, Sep 1, 27,	1964						
ANNUAL RUNOFF (CFSM)	.99											
ANNUAL RUNOFF (INCHES)	13.41											
10 PERCENT EXCEEDS	694											
50 PERCENT EXCEEDS	95											
90 PERCENT EXCEEDS	10											

- a Also Aug. 29, 30.
- 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.

