01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, Hydrologic Unit 02050104, on right bank 235 ft upstream from Erie Railroad bridge in Hornell, 0.3 mi upstream from Crosby Creek, and 1.5 mi downstream from Canacadea Creek.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--August 1942 to current year.

REVISED RECORD--WDR NY-86-3: 1971 (including minimum daily).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,131.32 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion from Carrington Creek, a tributary upstream from station, by City of Hornell for municipal supply; effluent from wastewater treatment plant enters river downstream from gage. Since Nov. 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000); normal regulation occasionally sufficient to affect figures of monthly runoff. Telephone and satellite gage-height telemeters at station.

COOPERATION.--Records of diversion from Carrington Creek furnished by City of Hornell.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, prior to construction of Almond Reservoir in 1949, 9,340 ft^3/s, May 26, 1943, gage height 13.30 ft, from rating curve extended above 7,600 ft^3/s on the basis of critical-depth measurement of peak flow; minimum discharge, 9.3 ft^3/s, Mar. 4, 1947. Maximum discharge, since construction of Almond Reservoir, 9,560 ft^3/s, June 23, 1972, gage height, 13.45 ft, from floodmark, from rating curve extended above 7,600 ft^3/s on the basis of critical-depth measurement of peak flow; minimum discharge, 7.4 ft^3/s, Sept. 13, 14, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,220 ft^3/s, Sept. 9, gage height, 4.94 ft; minimum discharge, 33 ft^3/s, July 12, gage height, 0.66 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	157	207	267	68	146	628	141	388	77	159	154
2	126	117	213	247	e70	e600	1,440	190	384	72	92	104
3	112	119	206	356	91	e800	771	325	515	64	77	82
4	178	123	170	384	e85	e1,000	540	252	293	52	67	69
5	238	118	153	323	e70	1,030	401	219	221	47	66	57
6	160	114	168	269	86	1,230	306	192	189	44	56	50
7	116	101	157	e200	e80	985	292	459	170	41	53	47
8	105	90	e125	e190	e80	663	261	332	153	48	49	68
9	85	84	135	e160	e100	328	241	644	146	50	43	1,920
10	76	74	148	e130	94	264	198	488	166	39	49	1,540
11	68	69	1,210	e140	69	222	159	434	125	38	91	976
12	64	72	897	e170	97	202	156	356	109	38	105	533
13	62	98	401	169	104	180	1,040	263	101	48	124	203
14	72	109	283	e140	e85	157	1,760	437	97	97	96	148
15	141	105	239	e140	e65	180	1,020	572	97	172	58	103
16	163	119	215	e130	e60	179	372	553	86	155	61	81
17	117	150	277	e130	e60	157	271	324	134	122	48	762
18	90	141	283	e125	e65	155	253	224	351	100	45	1,490
19	88	815	224	e100	92	167	227	204	124	135	44	1,410
20	86	1,780	225	e120	80	177	227	176	101	125	55	949
21	84	816	194	e100	93	618	224	459	82	137	630	300
22	77	358	190	e80	93	442	382	399	85	90	274	181
23	69	219	532	e85	100	251	454	1,080	89	54	113	148
24	65	208	1,250	e95	122	285	362	e1,330	75	54	78	135
25	62	280	838	e90	e120	882	296	1,060	65	50	67	113
26	65	240	428	e80	123	713	310	640	80	76	60	97
27	361	196	290	e90	118	756	242	390	72	649	56	89
28	321	309	245	e80	94	425	200	720	77	339	56	85
29	185	568	229	e80	86	271	184	409	88	154	54	80
30	196	349	457	e95	---	232	162	247	77	94	612	77
31	181	---	377	e75	---	248	---	264	---	144	404	---
TOTAL	3,953	8,098	10,966	4,840	2,550	13,945	13,379	13,783	4,740	3,405	3,842	12,051
MEAN	128	270	354	156	87.9	450	446	445	158	110	124	402
MAX	361	1,780	1,250	384	123	1,230	1,760	1,330	515	649	630	1,920
MIN	62	69	125	75	60	146	156	141	65	38	43	47

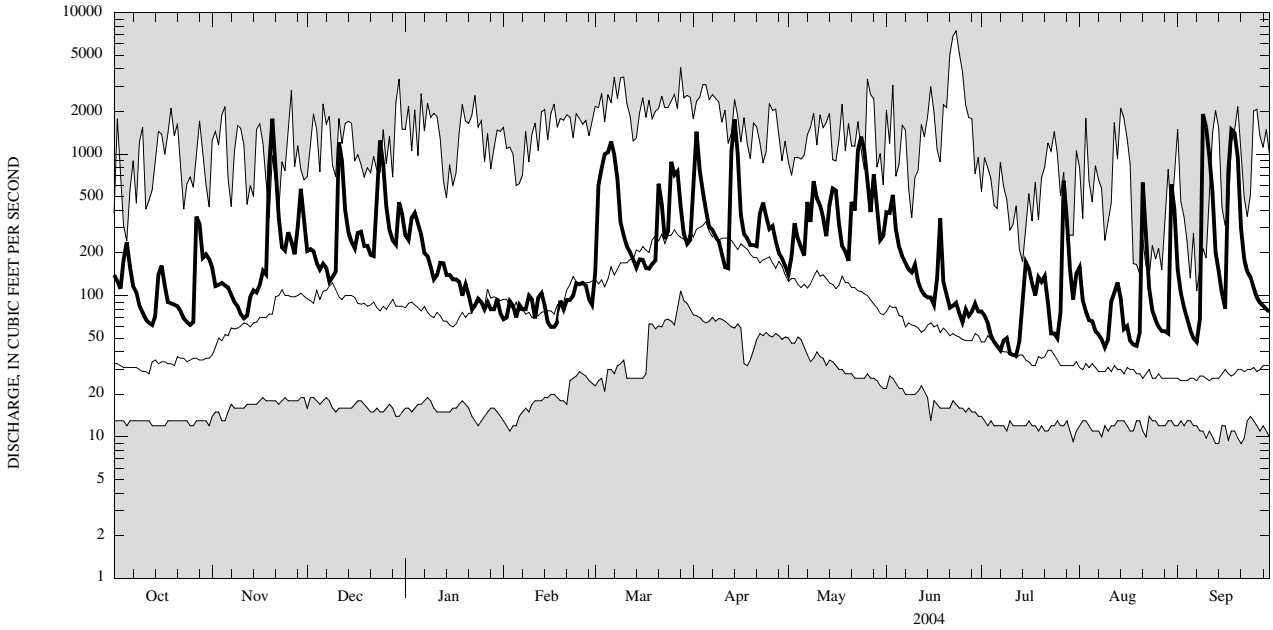
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

MEAN	76.4	128	161	158	186	358	347	201	144	59.1	51.6	65.2
MAX	304	455	551	499	722	826	877	696	1,226	249	303	498
(WY)	(1977)	(1951)	(1973)	(1998)	(1976)	(1945)	(1993)	(1943)	(1972)	(1972)	(1984)	(1977)
MIN	13.5	17.9	16.6	15.6	35.6	111	66.6	42.4	20.1	13.8	13.2	11.7
(WY)	(1965)	(1965)	(1961)	(1961)	(1963)	(1969)	(1946)	(1955)	(1955)	(1955)	(1965)	(1955)

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	91,596		95,552			
ANNUAL MEAN	251		261		161	
HIGHEST ANNUAL MEAN					261	2004
LOWEST ANNUAL MEAN					79.8	1965
HIGHEST DAILY MEAN	2,250	Mar 18	1,920	Sep 9	7,440	Jun 23, 1972
LOWEST DAILY MEAN	25	Jul 4	38	Jul 11	9.0	Sep 13, 1955
ANNUAL SEVEN-DAY MINIMUM	32	Jul 2	43	Jul 6	10	Sep 8, 1955
10 PERCENT EXCEEDS	469		629		355	
50 PERCENT EXCEEDS	136		152		70	
90 PERCENT EXCEEDS	56		64		22	

e Estimated



2004 WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.