04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY

LOCATION.--Lat 42°44'13", long 77°50'27", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft upstream from bridge on State Highway 408 at Shakers Crossing, 1.4 mi upstream from mouth, and 1.5 mi northeast of Mount Morris.

DRAINAGE AREA.--335 mi^2.

PERIOD OF RECORD.--July 1915 to September 1922 (gage height only), November 1958 to September 1970, October 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 545.52 ft above NGVD of 1929. Prior to July 1981 at site 250 ft east on left bank of old filled-in channel at same datum,and prior to November 1958 at site 250 ft east and 40 ft north at datum 5.52 ft lower. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi downstream from base gage.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,510 ft^3/s, Jan. 19, 1996, gage height 13.01 ft; maximum gage height 23.62 ft, present datum, May 17, 1916 (backwater from Genesee River); minimum discharge, 4.3 ft^3/s, Aug. 19, 1970, gage height, 2.26 ft, result of temporary regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972 reached an estimated discharge of 11,200 ft^3/s from U. S. Army Corps of Engineers publication (Tropical Storm Agnes, June 1972).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

	Time	Discharge (ft^3/s)	Gage height (ft)	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 14	0000	*3,250	*10.78	1430	3,190	10.39
May 24	1400	3,220	10.67	0600	3,130	10.40

Minimum discharge,64 ft^3/s, Sept. 24.

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	157	173	581	448	e115	499	786	277	764	e110	e170	278
2	143	168	501	424	e115	1,100	2,440	497	524	e110	e140	154
3	132	225	361	529	e120	1,480	1,870	899	1,170	e100	e120	128
4	142	197	350	540	e120	1,210	1,550	479	773	e96	e110	130
5	282	182	320	477	e120	1,610	1,170	402	469	e92	e120	111
6	189	173	285	432	e125	1,690	846	375	413	e90	e100	99
7	151	158	254	302	e140	996	753	803	327	e110	e95	90
8	133	142	217	e320	e155	698	665	573	323	e190	e90	101
9	119	132	270	e250	e165	556	545	1,320	316	e140	e85	2,270
10	113	124	281	e165	e165	496	504	1,000	247	e110	e90	2,250
11	106	123	978	e185	e160	446	413	664	257	e98	104	1,130
12	99	133	976	e185	e160	423	354	494	228	e94	99	634
13	96	222	543	e185	e160	354	1,270	411	208	e96	113	345
14	92	226	397	e125	e155	328	2,660	410	199	e220	123	e240
15	100	180	393	e105	e150	364	1,590	669	200	e290	100	e300
16	118	178	358	e135	e120	335	1,000	696	e185	e260	92	361
17	105	204	688	e175	e130	302	647	440	e325	e220	85	846
18	97	192	603	e200	e125	323	673	382	e380	e160	80	2,860
19	95	871	447	e185	e120	316	705	411	e360	e195	79	1,600
20	97	1,830	399	e175	e130	405	504	302	e230	e190	81	859
21	94	1,090	368	e160	e150	1,410	460	803	e200	e150	210	555
22	95	677	381	e160	e175	738	639	506	e190	e120	211	436
23	108	459	653	e160	e185	487	556	1,810	e180	e110	124	371
24	102	407	1,410	e150	e190	548	510	2,570	e160	e105	106	e270
25	95	546	1,430	e135	e190	995	415	2,090	e150	e95	98	329
26	93	395	963	e125	e180	937	421	1,750	e150	e130	84	302
27	220	333	635	e115	e180	889	382	1,160	e130	e480	79	298
28	415	660	494	e120	e190	758	329	1,500	e120	e400	80	191
29	246	1,260	463	e120	310	566	290	915	e130	e210	124	173
30	298	734	567	e120	---	477	262	554	e125	e170	665	158
31	207	---	586	e120	---	444	---	524	---	e190	858	---
TOTAL	4,539	12,394	17,152	7,027	4,500	22,180	25,209	25,686	9,433	5,131	4,715	17,869
MEAN	146	413	553	227	155	715	840	829	314	166	152	596
MAX	415	1,830	1,430	540	310	1,690	2,660	2,570	1,170	480	858	2,860
MIN	92	123	217	105	115	302	262	277	120	90	79	90
CFSM	0.44	1.23	1.65	0.68	0.46	2.14	2.51	2.47	0.94	0.49	0.45	1.78
IN.	0.50	1.38	1.90	0.78	0.50	2.46	2.80	2.85	1.05	0.57	0.52	1.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	145	223	306	314	398	659	669	359	210	115	97.8	118
MAX	601	647	906	1,181	1,452	1,575	1,537	1,081	913	454	567	1,162
(WY)	(1978)	(1993)	(1978)	(1998)	(1976)	(1979)	(1993)	(1996)	(1989)	(1992)	(2003)	(1977)
MIN	24.4	31.3	29.9	30.9	74.6	209	231	109	48.1	22.9	19.9	22.6
(WY)	(1965)	(1965)	(1961)	(1961)	(1963)	(1965)	(1995)	(1995)	(1965)	(1965)	(1965)	(1965)

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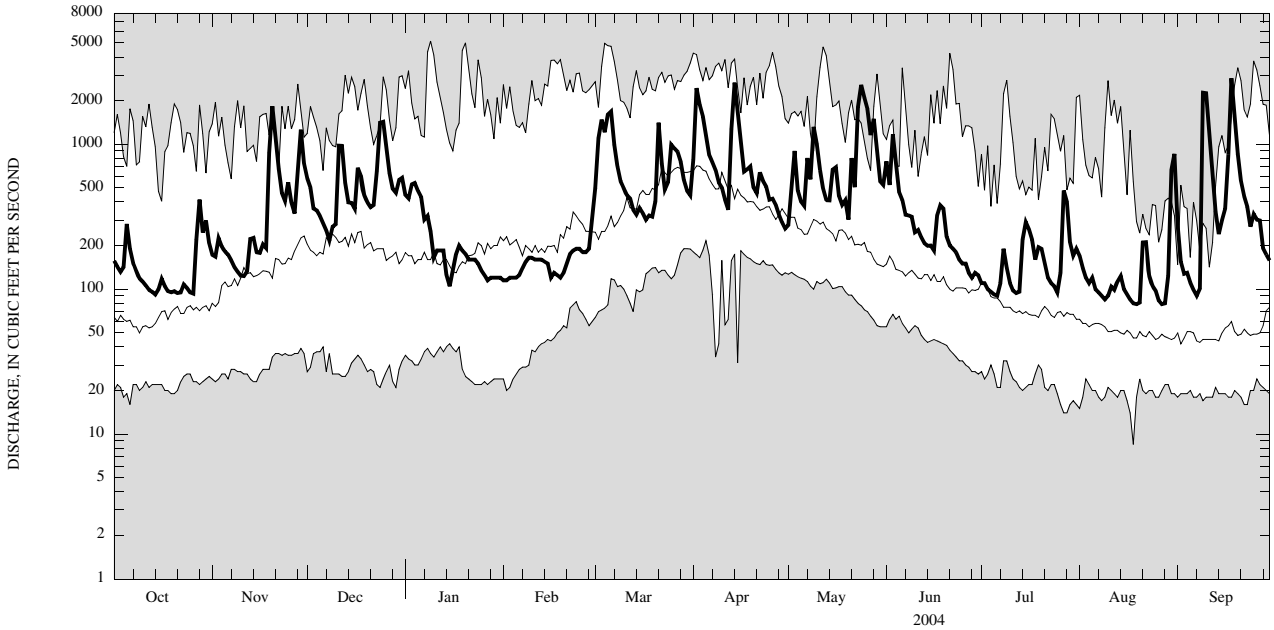
SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	151,489		155,835			
ANNUAL MEAN	415		426		301	
HIGHEST ANNUAL MEAN					464	1998
LOWEST ANNUAL MEAN					137	1965
HIGHEST DAILY MEAN	3,140	Mar 22	2,860	Sep 18	5,150	Jan 9, 1998
LOWEST DAILY MEAN	65	Jul 15	79	Aug 19	8.5	Aug 18, 1970
ANNUAL SEVEN-DAY MINIMUM	72	Jul 2	91	Aug 14	15	Jul 26, 1965
ANNUAL RUNOFF (CFSM)	1.24		1.27		0.899	
ANNUAL RUNOFF (INCHES)	16.82		17.30		12.22	
10 PERCENT EXCEEDS	927		977		702	
50 PERCENT EXCEEDS	251		256		150	
90 PERCENT EXCEEDS	95		100		40	

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.