04215000 CAYUGA CREEK NEAR LANCASTER, NY

Eastern Lake Erie Basin
Buffalo-Eighteenmile Subbasin

LOCATION.--Lat 42°53′24″, long 78°38′43″ referenced to North American Datum of 1927, Erie County, NY, Hydrologic Unit 04120103, on right bank 150 ft upstream from low dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, 2.0 mi southeast of Lancaster, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--96.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1938 to September 1968, October 1971 to April 1974 (annual maximum only), May 1974 to current year.

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

GAGE.--Water-stage recorder and low concrete dam as control. Datum of gage is 672.02 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since August 1962, undetermined amount of flow diverted by Lancaster Country Club for irrigation upstream from station. Concrete dam configuration modified in September 1974 resulting in a lower point of zero flow. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft^3/s, Sept. 14, 1979, gage height, 10.48 ft; maximum gage height, 13.35 ft, Jan. 23, 1999 (ice jam); practically no flow part of Aug. 8, 9, 1939, when stop logs were installed in the dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	1900	*5,470	*8.32
Jan 15	1545	3,490	7.20
Mar 15	0215	5,240	8.19

Minimum discharge, 0.20 ft^3/s, Sept. 8, 9, gage height, 2.38 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	157	149	2,760	214	80	e88	143	102	11	2.5	2.4	1.3
2	120	130	1,070	230	85	e190	144	100	11	2.6	2.0	1.0
3	91	123	272	144	79	e240	111	81	12	2.6	1.6	0.85
4	504	116	191	123	63	e200	125	66	13	4.0	1.4	0.66
5	470	104	e160	322	e66	e150	143	58	18	61	1.3	0.64
6	140	94	151	1,540	e74	e110	125	51	16	57	1.1	0.60
7	89	86	222	400	e70	e100	108	44	13	17	1.1	0.37
8	69	93	e130	701	e68	e94	106	43	11	10	1.7	0.30
9	59	102	e120	430	e66	e98	108	40	13	7.9	1.8	6.9
10	49	87	119	209	e64	e130	127	45	15	6.1	1.8	14
11	203	119	170	163	e62	e280	140	47	10	5.3	1.5	9.0
12	832	418	199	353	e60	e370	329	38	8.1	6.0	1.3	17
13	556	181	168	1,520	e58	e720	357	33	7.7	9.6	23	11
14	1,240	218	139	511	e56	e2,900	181	30	6.7	9.1	9.3	6.2
15	855	173	118	1,840	e60	2,810	200	29	5.9	7.4	4.3	6.1
16	420	389	102	682	e66	541	910	50	5.5	6.2	2.7	5.3
17	527	753	94	240	e64	274	1,590	65	4.9	4.8	1.7	6.3
18	513	347	194	208	e62	224	783	52	4.4	5.1	1.2	3.5
19	327	187	126	186	e58	178	377	38	5.3	22	0.99	3.1
20	1,440	143	97	147	e62	180	215	34	34	97	0.90	3.3
21	648	124	86	111	e66	184	146	32	16	24	0.95	3.6
22	365	106	149	133	e74	1,120	124	27	9.3	12	1.3	2.6
23	627	95	556	123	e72	932	112	24	6.7	7.7	7.5	1.4
24	279	88	234	123	e64	703	132	22	5.5	6.8	26	1.2
25	187	82	179	104	e70	747	164	19	4.5	6.2	9.4	1.1
26	149	78	896	82	e72	431	243	17	4.0	5.5	4.9	2.7
27	134	73	373	102	e68	392	158	17	3.4	6.2	3.4	6.2
28	1,270	68	203	107	e66	211	203	16	3.2	7.8	2.4	11
29	846	65	177	93	---	146	261	13	2.7	5.7	1.9	13
30	241	69	142	88	---	127	138	12	2.4	4.0	1.5	8.0
31	169	---	133	83	---	115	---	12	---	3.1	1.4	---
Total	13,576	4,860	9,730	11,312	1,875	14,985	8,003	1,257	283.2	432.2	123.74	148.22
Mean	438	162	314	365	67.0	483	267	40.5	9.44	13.9	3.99	4.94
Max	1,440	753	2,760	1,840	85	2,900	1,590	102	34	97	26	17
Min	49	65	86	82	56	88	106	12	2.4	2.5	0.90	0.30
Cfsm	4.54	1.68	3.26	3.79	0.69	5.01	2.77	0.42	0.10	0.14	0.04	0.05
In.	5.24	1.88	3.75	4.37	0.72	5.78	3.09	0.49	0.11	0.17	0.05	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	65.5	133	190	182	212	340	249	109	55.5	26.4	30.2	51.9
Max	438	601	505	543	457	680	623	343	338	166	323	572
(WY)	(2007)	(1986)	(1978)	(1998)	(1976)	(1942)	(1940)	(2002)	(1989)	(1998)	(1977)	(1977)
Min	2.90	4.34	5.60	9.85	25.1	146	36.5	18.7	5.88	1.06	1.87	0.80
(WY)	(1967)	(1961)	(1961)	(1961)	(1963)	(1981)	(1946)	(1941)	(1955)	(1955)	(1939)	(1960)

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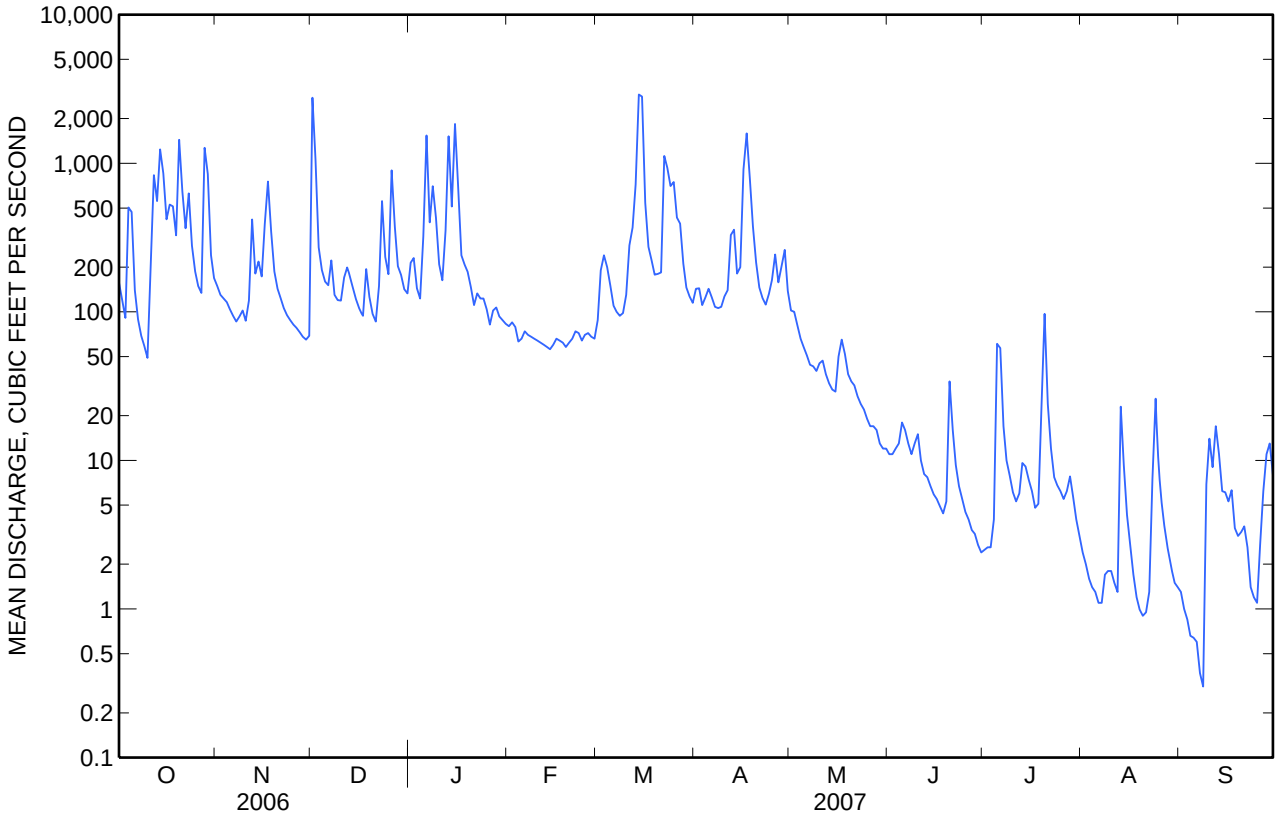
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1939 - 2007	
Annual total	64,384.2		66,585.36			
Annual mean	176		182		137	
Highest annual mean					206	1956
Lowest annual mean					78.5	1962
Highest daily mean	2,760	Dec 1	2,900	Mar 14	5,830	Feb 24, 1985
Lowest daily mean	6.4	Jun 18	0.30	Sep 8	0.05	Aug 12, 2001
Annual seven-day minimum	9.3	Jun 13	0.63	Sep 2	0.09	Aug 10, 2001
Annual runoff (cfsm)	1.83		1.89		1.42	
Annual runoff (inches)	24.85		25.69		19.29	
10 percent exceeds	429		430		317	
50 percent exceeds	94		79		50	
90 percent exceeds	15		2.6		4.1