0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY

LOCATION.--Lat 43°08'42", long 77°30'44", Monroe County, Hydrologic Unit 04140101, on right bank 4,000 ft upstream from bridge on Blossom Road, 1.8 mi east of Rochester, 1.7 mi downstream from Allen Creek, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2, flow from 7.78 mi^2 noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements water years 1977-80. December 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.87 ft above NGVD of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1991, at site 0.8 mi downstream at datum 1.56 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Discharge includes undetermined diversion from Erie (Barge) Canal. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

COOPERATION.--Discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,300 ft^3/s, Jan. 8, 1998, gage height, 9.95 ft; minimum discharge, 25 ft^3/s, Sept. 8, 9, 10, 14, 2002, gage height, 2.14 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

	Time	Discharge (ft^3/s)	Gage height (ft)		Time	Discharge (ft^3/s)	Gage height (ft)
May 24	1345	1,990	9.26		1245	*3,060	*9.83

Minimum discharge, 44 ft^3/s, Oct. 14, gage height, 2.43 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	57	76	277	162	e90	242	243	e116	208	81	258	247
2	62	119	210	148	e90	430	576	174	167	78	153	152
3	59	194	165	203	e100	528	627	266	145	78	117	119
4	74	133	140	209	e116	409	595	181	123	102	113	103
5	68	112	129	172	110	379	522	159	112	110	107	90
6	58	102	117	150	113	375	398	160	106	102	90	78
7	53	97	107	e110	130	286	319	e135	102	164	95	80
8	51	81	96	e106	e114	257	253	e130	101	143	81	417
9	50	69	97	e100	e115	219	211	147	124	93	72	2,390
10	49	65	101	e96	116	186	178	199	294	78	90	1,950
11	48	62	310	e90	113	163	157	187	158	69	95	746
12	47	56	305	e96	108	154	143	176	121	177	75	415
13	46	107	196	e98	107	136	345	137	226	132	107	294
14	46	129	146	e100	106	123	696	125	203	151	106	230
15	64	119	130	e96	e94	124	496	150	183	287	78	186
16	53	106	136	e100	e78	118	290	152	131	205	70	152
17	46	103	228	e100	e86	113	218	125	164	128	66	141
18	47	100	256	e102	e90	122	287	111	177	120	63	218
19	54	324	211	e96	92	120	338	126	134	108	127	168
20	52	526	175	e90	95	159	250	111	116	187	103	137
21	61	348	151	e88	126	314	213	144	101	188	106	128
22	91	200	154	e92	156	245	312	143	132	113	97	105
23	76	146	254	e84	150	180	225	284	108	98	82	75
24	63	132	561	e82	150	181	172	1,420	95	83	72	74
25	57	132	620	e84	e120	307	157	780	185	72	64	76
26	83	116	382	e86	e120	283	150	433	115	73	61	74
27	163	123	250	e92	116	476	148	282	102	576	58	67
28	125	431	195	e94	118	370	134	299	93	426	62	73
29	127	559	167	e94	154	246	e125	213	90	363	327	81
30	118	385	212	e90	---	188	e120	163	83	192	540	76
31	91	---	197	e92	---	183	---	168	---	183	474	---
TOTAL	2,139	5,252	6,675	3,402	3,273	7,616	8,898	7,396	4,199	4,960	4,009	9,142
MEAN	69.0	175	215	110	113	246	297	239	140	160	129	305
MAX	163	559	620	209	156	528	696	1,420	294	576	540	2,390
MIN	46	56	96	82	78	113	120	111	83	69	58	67
CFSM	0.51	1.30	1.60	0.82	0.84	1.83	2.21	1.78	1.04	1.19	0.96	2.27
IN.	0.59	1.46	1.85	0.94	0.91	2.11	2.47	2.05	1.16	1.37	1.11	2.53

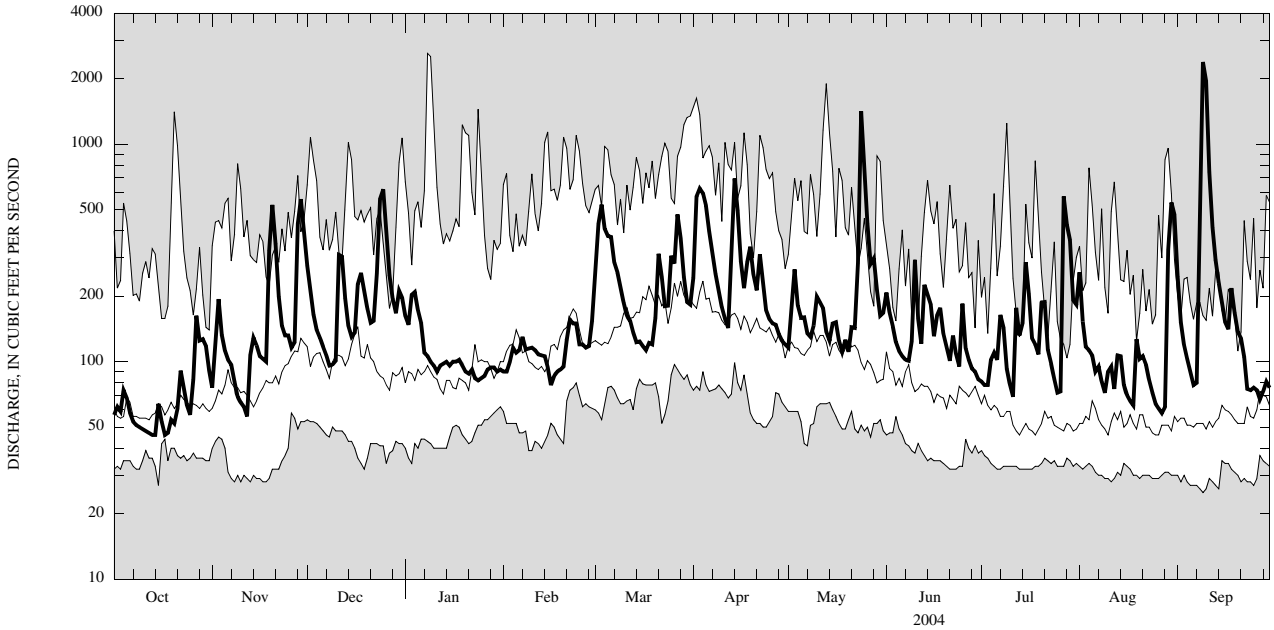
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	84.1	115	138	139	169	226	225	154	101	75.8	79.6	80.5
MAX	191	224	253	446	347	348	468	292	186	194	253	305
(WY)	(1997)	(1986)	(1997)	(1998)	(1981)	(1993)	(1993)	(1984)	(1989)	(1998)	(1992)	(2004)
MIN	39.5	52.3	49.5	60.8	67.1	122	82.8	62.1	46.9	42.2	35.8	39.8
(WY)	(1983)	(2002)	(1990)	(1989)	(1989)	(1988)	(1995)	(1995)	(1988)	(1983)	(2002)	(1995)

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	51,731		66,961			
ANNUAL MEAN	142		183		133	
HIGHEST ANNUAL MEAN					183	2004
LOWEST ANNUAL MEAN					80.1	1995
HIGHEST DAILY MEAN	798	Apr 6	2,390	Sep 9	2,620	Jan 8, 1998
LOWEST DAILY MEAN	39	Sep 14	46	Oct 13	25	Sep 9, 2002
ANNUAL SEVEN-DAY MINIMUM	42	Sep 8	48	Oct 8	27	Sep 4, 2002
ANNUAL RUNOFF (CFSM)	1.06		1.36		0.990	
ANNUAL RUNOFF (INCHES)	14.34		18.56		13.45	
10 PERCENT EXCEEDS	289		340		261	
50 PERCENT EXCEEDS	114		126		89	
90 PERCENT EXCEEDS	46		72		44	

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.

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980-81, 1983 to current year.
CHEMICAL DATA: Water years 1980-81, 1983 to current year (e).
NUTRIENT DATA: Water years 1980-81, 1983 to current year (e).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1994 to September 2001.

INSTRUMENTATION.--Automatic water sampler since October 1983. Water temperature recorder since November 1994 provides 15-minute-interval readings.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

REMARKS.--Records for October 1983 to September 1993 are published in "Water Resources of Monroe County New York, Water Years 1984-88", U.S. Geological Survey Open-File Report 93-370 and in "Water Resources of Monroe County New York, Water Years 1989-93", U.S. Geological Survey Open-File Report 97-587. Prior to October 1983, unpublished records are available in the files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.0°C, July 5,6, 1999; minimum 0.0°C, many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	End time	Dis-charge, cfs (00060)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT												
14-20	1230	1130	52	128	172	18	.35	<.01	.74	.019	.033	<5
26-28	1350	0650	147	76	91	18	.45	<.01	.56	.017	.063	8
OCT 28-												
NOV 02	1125	0925	101	86	95	5	.42	.03	.52	.028	.041	<5
02-03	1025	1025	188	114	118	23	.40	<.01	.68	.020	.074	8
03-10	1055	0955	102	104	113	6	.56	.02	.64	.037	.048	8
19-25	1145	0845	286	112	92	255	.78	.03	.79	.022	.103	18
DEC												
10-11	1015	1214	170	171	126	61	.83	<.03	1.4	.026	.174	--
11-16	1255	0755	208	139	76	53	.90	.01	1.0	.022	.143	31
16-23	0950	0850	191	213	87	11	.50	.02	1.1	.018	.048	11
JAN												
21-27	1015	0915	86	--	--	--	.62	.02	1.6	.017	.022	--
FEB												
19-24	1240	1139	130	281	140	<7	.46	.02	1.7	.013	.034	<5
25-29	0915	2314	126	208	123	<5	.47	.03	1.3	.011	.037	<5
MAR												
05-11	0945	0744	272	153	81	10	.64	.04	1.5	.021	.044	6
11-18	0840	0740	153	202	114	<6	.48	<.01	1.4	.019	.025	<5
APR												
12-19	1815	0615	379	106	58	50	.69	.04	.80	.013	.076	18
MAY												
22-26	1615	0815	736	83	54	401	2.1	.03	.59	.016	.617	125
MAY 26-												
JUN 02	0825	0725	236	100	67	120	1.2	.03	.95	.024	.265	37
09-13	1430	0830	180	106	80	154	1.2	.02	.84	.023	.264	53
13-16	0930	0630	211	111	83	135	1.2	.01	.93	.022	.283	55
JUL												
07-12	0750	1250	105	139	134	284	1.9	.03	1.0	.084	.444	97
12-19	1235	0635	177	125	43	50	1.6	.11	1.0	<.001	.158	36
19	0756		105	--	--	15	1.4	.04	1.1	.042	.344	--

< Less than.