

Water-Data Report 2009

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY

Southeastern Lake Ontario Basin
Irondequoit-Ninemile Subbasin

LOCATION.--Lat 43°10'33", long 77°31'35" referenced to North American Datum of 1927, Monroe County, NY, Hydrologic Unit 04140101, on right bank 25 ft upstream from bridge on Empire Boulevard (Route 404), 200 ft upstream from mouth at south end of Irondequoit Bay, and 1.5 mi east of Rochester.

DRAINAGE AREA.--151 mi² of which 7.78 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1990 to current year. Prior to January 2003, daily mean discharge only published.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 242.66 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Water stage recorder malfunction Jun. 21 to Sep. 2. Records affected by backwater from Irondequoit Bay. Unpublished gage-height record for March 1989 to December 2002 is available in files of U.S. Geological Survey. Unpublished water-quality records are available in files of Monroe County Department of Health.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.64 ft, Apr. 23, 1993 (backwater from Irondequoit Bay); minimum gage height, 2.28 ft, Nov. 25, 2001.

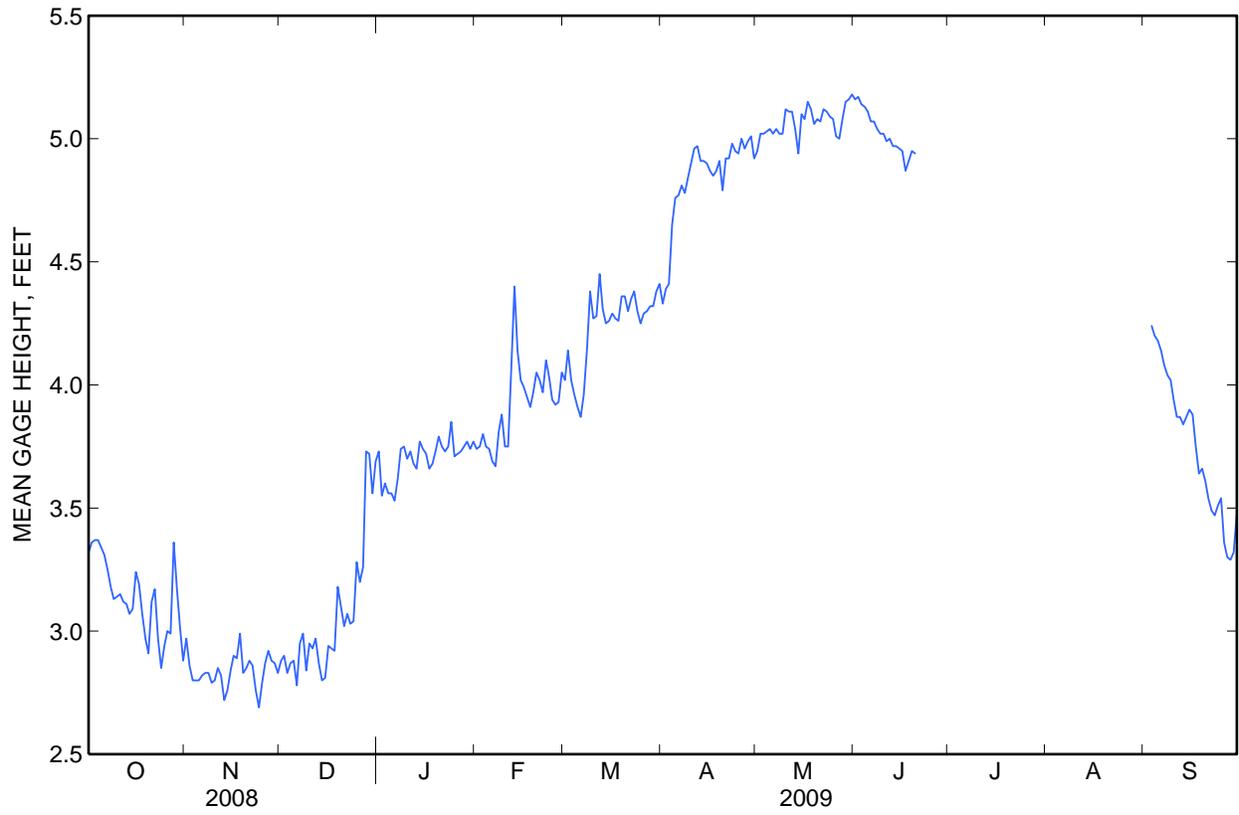
EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 5.24 ft, May 31, but may have been higher during period of no gage height record; minimum recorded gage height, 2.63 ft, Nov. 24, but may have been lower during period of no gage height record.

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.32	2.97	2.88	3.73	3.74	4.02	4.33	4.95	5.16	---	---	---
2	3.36	2.86	2.90	3.55	3.75	4.14	4.39	5.02	5.17	---	---	---
3	3.37	2.80	2.83	3.60	3.80	4.02	4.41	5.02	5.14	---	---	4.24
4	3.37	2.80	2.87	3.56	3.75	3.96	4.65	5.03	5.13	---	---	4.20
5	3.34	2.80	2.88	3.56	3.74	3.91	4.76	5.04	5.11	---	---	4.18
6	3.31	2.82	2.78	3.53	3.69	3.87	4.77	5.02	5.07	---	---	4.14
7	3.25	2.83	2.95	3.62	3.67	3.96	4.81	5.04	5.07	---	---	4.08
8	3.18	2.83	2.99	3.74	3.81	4.14	4.78	5.02	5.04	---	---	4.04
9	3.13	2.79	2.84	3.75	3.88	4.38	4.84	5.02	5.02	---	---	4.02
10	3.14	2.80	2.95	3.70	3.75	4.27	4.90	5.12	5.02	---	---	3.94
11	3.15	2.85	2.93	3.73	3.75	4.28	4.96	5.11	4.99	---	---	3.87
12	3.12	2.82	2.97	3.68	4.07	4.45	4.97	5.11	5.00	---	---	3.87
13	3.11	2.72	2.87	3.66	4.40	4.31	4.91	5.04	4.97	---	---	3.84
14	3.07	2.76	2.80	3.77	4.14	4.25	4.91	4.94	4.97	---	---	3.87
15	3.09	2.84	2.81	3.74	4.02	4.26	4.90	5.10	4.96	---	---	3.90
16	3.24	2.90	2.94	3.72	3.99	4.29	4.87	5.08	4.95	---	---	3.88
17	3.19	2.89	2.93	3.66	3.95	4.27	4.85	5.15	4.87	---	---	3.75
18	3.07	2.99	2.92	3.68	3.91	4.26	4.87	5.12	4.91	---	---	3.64
19	2.97	2.83	3.18	3.73	3.97	4.36	4.91	5.06	4.95	---	---	3.66
20	2.91	2.85	3.10	3.79	4.05	4.36	4.79	5.08	4.94	---	---	3.61
21	3.12	2.88	3.02	3.75	4.02	4.30	4.92	5.07	---	---	---	3.54
22	3.17	2.86	3.07	3.73	3.97	4.35	4.92	5.12	---	---	---	3.49
23	2.97	2.76	3.03	3.75	4.10	4.38	4.98	5.11	---	---	---	3.47
24	2.85	2.69	3.04	3.85	4.03	4.30	4.95	5.09	---	---	---	3.51
25	2.94	2.79	3.28	3.71	3.94	4.25	4.94	5.08	---	---	---	3.54
26	3.00	2.87	3.20	3.72	3.92	4.29	5.00	5.01	---	---	---	3.36
27	2.99	2.92	3.26	3.73	3.93	4.30	4.96	5.00	---	---	---	3.30
28	3.36	2.88	3.73	3.75	4.05	4.32	4.99	5.08	---	---	---	3.29
29	3.17	2.87	3.72	3.77	---	4.32	5.01	5.15	---	---	---	3.32
30	3.01	2.83	3.56	3.74	---	4.38	4.92	5.16	---	---	---	3.48
31	2.88	---	3.69	3.77	---	4.41	---	5.18	---	---	---	---
Mean	3.13	2.84	3.06	3.70	3.92	4.24	4.84	5.07	---	---	---	---
Max	3.37	2.99	3.73	3.85	4.40	4.45	5.01	5.18	---	---	---	---
Min	2.85	2.69	2.78	3.53	3.67	3.87	4.33	4.94	---	---	---	---

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

CHEMICAL DATA: Water years 1989 to 2005 (e), 2006-09 (d).

NUTRIENT DATA: Water years 1989 to 2005 (e), 2006-09 (d).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to September 2003.

INSTRUMENTATION.--Automatic water sampler since September 1989. Water-temperature recorder since November 1994 provided 15-minute-interval readings; since July 2000, provided 5-minute-interval readings.

REMARKS.--Records for October 1988 to September 1993 are published in "Water Resources of Monroe County New York, Water Years 1989-93", U.S. Geological Survey Open-File Report 97-587. Stream discharges were estimated based on comparison of records with Irondequoit Creek at Blossom Road.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 29.0°C, Jul. 15, 1995, Aug. 9, 2001; minimum recorded, 0°C, on many days during winter period.

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

[Remark codes: <, less than.]

Date	Begin time	End time	Dis-charge, ft ³ /s (00060)	Sus-pended solids, water, unfltrd mg/L (00530)	Chlor-ide, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, unfltrd mg/L as N (00630)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L as P (00665)
Oct										
16-20	0740	0840	114	90	121	.77	<.015	.155	.010	.176
Oct										
21-27	2030	0730	159	63	119	.78	<.010	.556	.012	.145
Oct 27-										
Nov 03	0800	0700	94	26	130	.53	<.010	.723	.010	.056
Nov										
15-19	0925	0824	126	31	130	.37	<.010	.640	.009	.064
Nov 24-										
Dec 01	1520	1019	184	42	220	.60	<.010	.804	.008	.065
Dec										
24-30	1345	0844	666	193	246	1.2	<.010	.858	.009	.316
Dec 30										
2008-										
Jan 06										
2009	1015	0814	206	22	199	.59	<.010	1.15	.008	.050
Feb										
07-10	0720	1320	325	59	270	.55	<.010	1.20	.010	.091
Feb										
10-17	1330	0829	693	94	182	.68	<.010	1.07	.011	.156
Mar										
10-17	1120	0919	425	43	131	.63	<.010	1.06	.011	.086
Apr										
03-07	0440	0939	445	110	140	.51	<.010	.830	.011	.155
Apr										
07-14	1005	0905	200	41	157	.54	<.010	.965	.012	.112
May 27-										
Jun 02	0255	0755	152	130	146	.67	<.010	.304	.007	.120
Jun										
17-20	1118	1518	292	83	108	.72	<.010	.779	.014	.104
Jun										
20-23	1618	1217	400	107	97.9	.81	<.010	1.11	.014	.159
Jul										
11-15	0600	0759	133	24	127	.47	.025	.187	.011	.053