04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY

Southeastern Lake Ontario Basin
Irondequoit-Ninemile Subbasin

LOCATION.--Lat 43°01′40″, long 77°28′42″ referenced to North American Datum of 1927, Ontario County, NY, Hydrologic Unit 04140101, on right bank 90 ft upstream from bridge on Railroad Mills Road, 1.5 mi northwest of Fishers, and 4.0 mi southwest of Fairport.

DRAINAGE AREA.--39.2 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above NGVD of 1929, from topographic map.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health.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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,000 ft^3/s, Jan. 8, 1998, gage height 10.40 ft, from rating curve extended above 420 ft^3/s; minimum discharge, 6.8 ft^3/s, Aug. 21, 1995, gage height, 3.96 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0800	*688	*8.91
Feb 5	2145	532	8.18
Feb 6	2115	541	8.22
Mar 4	0345	376	7.35
Mar 20	0245	421	7.60
Mar 31	2045	489	7.96

Minimum discharge, 11 ft^3/s, Sept. 11, 12, gage height, 4.11 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	15	29	48	33	e31	233	33	21	25	28	e14
2	14	14	28	e47	48	32	105	33	20	21	27	14
3	14	14	120	e34	41	96	67	43	19	29	31	14
4	14	14	91	e33	38	207	63	73	19	30	25	14
5	13	14	54	e35	259	78	65	43	19	23	31	13
6	14	18	e43	48	419	64	56	35	18	20	97	13
7	24	25	39	68	222	81	50	33	17	18	35	13
8	19	22	37	58	81	58	47	40	16	16	35	13
9	22	21	35	59	69	e49	45	35	16	15	47	15
10	18	19	34	51	e56	e45	42	32	18	15	53	13
11	16	19	39	99	e35	44	80	30	19	15	97	12
12	16	18	145	70	e30	e42	153	29	17	15	41	35
13	15	17	93	50	e25	41	88	28	23	43	29	27
14	14	17	58	47	e31	52	62	27	50	34	41	24
15	14	28	e44	46	e32	115	49	31	30	22	28	19
16	13	29	e34	43	e30	121	44	31	29	19	24	18
17	14	24	e37	42	e34	71	41	29	26	17	22	17
18	14	21	e38	e39	162	79	39	27	24	16	20	16
19	14	19	38	e36	72	237	45	28	22	15	27	16
20	13	31	39	e33	e43	329	43	27	22	16	28	16
21	13	34	39	e30	e36	123	41	26	27	34	24	16
22	12	138	37	e28	35	79	36	25	31	53	22	16
23	39	87	159	26	34	65	33	25	27	97	19	16
24	46	40	427	26	34	56	32	24	24	62	17	15
25	34	33	86	25	34	48	31	23	21	73	16	15
26	22	43	57	25	35	64	34	22	18	31	15	14
27	20	126	51	25	35	73	36	22	17	26	15	15
28	18	56	53	25	e31	81	44	21	19	22	14	17
29	17	39	68	26	e33	68	44	20	42	19	17	18
30	16	33	57	31	---	61	35	20	36	23	18	18
31	15	---	50	28	---	270	---	20	---	31	e16	---
Total	562	1,028	2,159	1,281	2,067	2,860	1,783	935	707	895	959	496
Mean	18.1	34.3	69.6	41.3	71.3	92.3	59.4	30.2	23.6	28.9	30.9	16.5
Max	46	138	427	99	419	329	233	73	50	97	97	35
Min	12	14	28	25	25	31	31	20	16	15	14	12
Cfsm	0.46	0.87	1.78	1.05	1.82	2.35	1.52	0.77	0.60	0.74	0.79	0.42
In.	0.53	0.98	2.05	1.22	1.96	2.71	1.69	0.89	0.67	0.85	0.91	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.0	35.9	43.3	46.6	45.3	72.3	69.7	40.0	28.1	23.3	19.9	21.0
Max	55.2	67.5	73.0	112	71.3	109	143	69.0	56.5	52.5	58.0	59.3
(WY)	(2007)	(1993)	(1997)	(1998)	(2008)	(2007)	(1993)	(2002)	(1996)	(1992)	(1992)	(2004)
Min	12.5	15.3	20.7	20.8	27.8	41.1	27.4	20.2	12.3	12.1	9.03	9.92
(WY)	(2002)	(2002)	(1999)	(2002)	(1995)	(2002)	(1995)	(1995)	(1995)	(2001)	(1995)	(1995)

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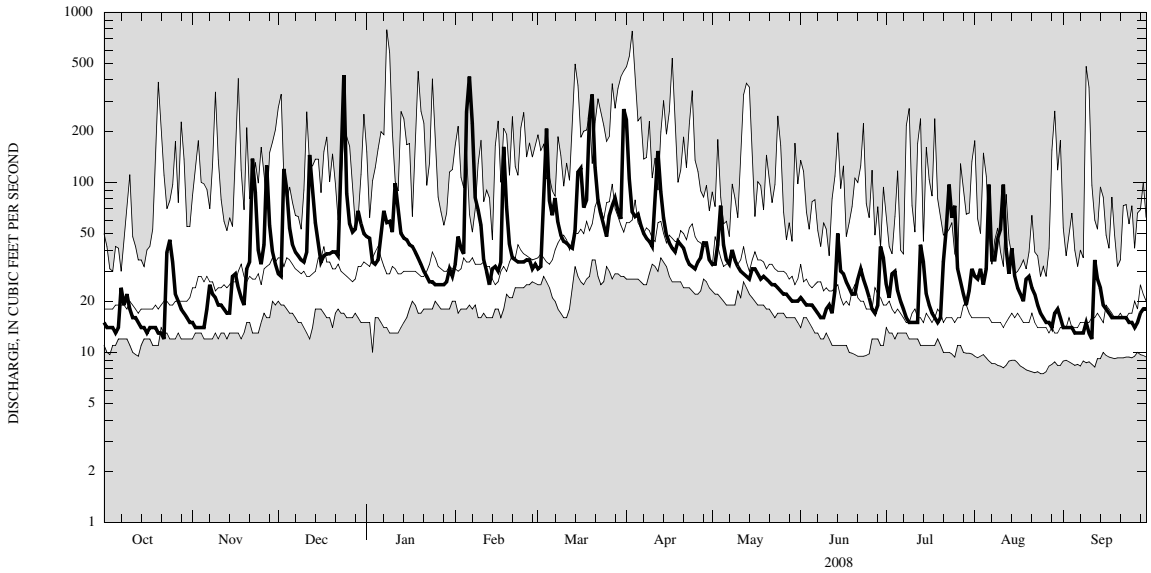
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1991 - 2008	
Annual total	15,649		15,732			
Annual mean	42.9		43.0		39.3	
Highest annual mean					53.5	1993
Lowest annual mean					24.7	1995
Highest daily mean	537	Apr 17	427	Dec 24	790	Jan 8, 1998
Lowest daily mean	11	Aug 15	12	Oct 22	7.5	Aug 24, 1995
Annual seven-day minimum	12	Aug 12	13	Sep 5	7.6	Aug 20, 1995
Annual runoff (cfsm)	1.09		1.10		1.00	
Annual runoff (inches)	14.85		14.93		13.62	
10 percent exceeds	80		78		72	
50 percent exceeds	28		31		27	
90 percent exceeds	13		15		13	



CURRENT 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.

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1992 to current year.
CHEMICAL DATA: Water years 1992 to 2003 (e), 2004 to 2005 (d), 2006 (c), 2007 to 2008 (d).
NUTRIENT DATA: Water years 1992 to 2003 (e), 2004 to 2005 (d), 2006 (c), 2007 to 2008 (d).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1995 to current year.

INSTRUMENTATION.--Automatic water sampler since July 1991. Water temperature recorder since February 1995 provides 15-minute-interval readings.

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

REMARKS.--Prior to 1994 water year, data published in "Water Resources of Monroe County New York, Water Years 1989-93", U.S. Geological Survey Open-File Report 97-587.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 23.5°C, July 20, 2006; minimum, 0.0°C, on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 21.5°C, June 9, 10; minimum, 0.0°C, Dec. 2, 6, 16-17, 24.

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	14.0	13.0	13.5	10.5	10.0	10.5	3.0	1.5	2.0	4.0	3.5	3.5
2	14.0	13.5	14.0	10.5	9.5	10.0	2.0	0.0	1.0	3.5	2.0	2.5
3	14.5	13.5	14.0	9.5	8.5	9.0	2.5	0.5	1.5	2.0	1.5	1.5
4	14.5	14.0	14.5	9.0	8.5	8.5	1.0	0.5	0.5	2.0	1.5	1.5
5	15.0	14.0	14.5	9.0	8.0	8.5	1.5	1.0	1.0	2.5	1.5	2.0
6	15.5	14.5	15.0	8.5	8.5	8.5	1.5	0.0	1.0	3.5	2.5	3.0
7	15.5	15.0	15.5	8.5	8.0	8.0	2.5	1.0	1.5	5.0	3.5	4.0
8	16.0	14.5	15.0	8.0	7.0	7.5	3.0	2.5	3.0	7.0	5.0	6.0
9	16.0	16.0	16.0	7.5	7.0	7.0	2.5	2.0	2.5	7.5	6.5	7.0
10	16.0	14.5	15.0	7.5	7.5	7.5	3.0	2.0	2.5	6.5	5.5	5.5
11	14.5	13.5	14.0	7.5	6.5	6.5	3.5	3.0	3.5	5.5	5.0	5.0
12	13.5	12.0	13.0	8.0	6.5	7.0	3.5	2.0	2.5	5.0	5.0	5.0
13	12.0	11.0	11.5	8.5	8.0	8.5	2.0	1.0	1.5	5.0	4.5	4.5
14	11.5	11.5	11.5	8.5	8.0	8.0	2.5	1.5	2.0	5.0	4.5	4.5
15	12.0	11.5	12.0	9.0	8.5	9.0	2.0	0.5	1.0	5.0	4.0	4.0
16	12.0	11.5	12.0	8.5	7.5	8.0	0.5	0.0	0.0	4.0	3.5	3.5
17	12.5	11.5	12.0	7.5	7.0	7.0	1.5	0.0	0.5	4.0	3.0	3.5
18	13.0	12.5	13.0	7.0	6.5	6.5	2.0	1.0	1.5	4.0	3.5	4.0
19	13.5	13.0	13.5	6.5	6.0	6.5	2.0	0.5	1.0	3.5	2.0	2.5
20	13.5	13.0	13.5	7.5	6.5	7.0	2.5	2.0	2.5	2.0	1.0	1.5
21	13.0	12.0	12.5	7.5	7.5	7.5	2.0	1.0	1.5	1.0	1.0	1.0
22	13.0	12.0	12.5	7.5	4.5	6.5	2.5	1.0	2.0	2.5	1.0	1.5
23	13.5	13.0	13.5	4.5	2.5	3.5	3.5	0.5	2.5	2.0	1.5	2.0
24	13.5	13.0	13.0	3.0	1.5	2.5	1.0	0.0	0.5	2.0	2.0	2.0
25	13.0	12.0	12.5	4.0	2.5	3.5	2.0	1.0	1.5	2.0	1.5	2.0
26	12.0	11.0	11.5	5.5	4.0	4.5	2.5	1.5	2.0	2.5	1.5	2.0
27	12.5	11.5	12.0	5.0	4.0	5.0	3.5	2.5	3.0	2.5	2.0	2.5
28	12.0	11.0	11.5	4.0	3.5	4.0	3.5	3.0	3.5	3.0	2.5	2.5
29	11.0	9.5	10.0	5.0	4.0	4.5	4.0	3.5	3.5	4.0	2.5	3.0
30	10.0	9.5	10.0	4.0	2.5	3.5	3.5	3.5	3.5	4.0	2.5	3.0
31	10.0	9.5	10.0	---	---	---	3.5	3.5	3.5	2.5	1.5	2.0
Month	16.0	9.5	13.0	10.5	1.5	6.8	4.0	0.0	1.9	7.5	1.0	3.2

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	2.0	2.0	2.0	3.0	2.0	2.5	9.5	5.5	7.5	12.0	9.5	11.0
2	2.5	2.0	2.5	4.0	2.5	3.0	8.5	6.0	7.0	13.0	11.5	12.0
3	3.0	2.5	2.5	4.5	2.0	3.5	8.0	5.5	7.0	14.5	12.5	13.5
4	3.5	3.0	3.0	2.0	1.5	2.0	8.0	7.5	7.5	14.5	13.5	14.0
5	3.5	1.0	2.0	2.5	1.5	2.0	9.5	7.0	8.0	14.5	12.0	13.5
6	1.0	0.5	1.0	3.5	1.5	2.5	10.5	8.0	9.0	15.0	13.0	14.0
7	1.5	0.5	1.0	3.0	2.5	2.5	11.5	9.0	10.0	14.5	12.5	13.5
8	2.5	1.5	2.0	2.5	1.5	2.0	12.5	9.5	11.0	14.5	13.5	14.0
9	3.0	2.5	3.0	3.0	1.5	2.0	12.5	11.0	11.5	14.0	12.0	13.0
10	3.0	2.0	2.5	3.0	1.5	2.0	12.5	10.5	11.5	14.5	12.0	13.0
11	2.0	1.5	1.5	3.5	2.0	2.5	12.0	10.0	10.5	14.0	12.0	13.0
12	1.5	1.5	1.5	4.0	3.0	3.5	10.5	10.0	10.0	14.5	12.5	13.5
13	2.5	1.5	2.0	3.5	2.5	3.0	10.5	9.0	9.5	15.5	12.5	14.0
14	3.0	2.0	2.5	5.0	3.5	4.0	11.0	9.0	10.0	15.0	13.0	14.0
15	3.0	3.0	3.0	4.5	3.5	4.0	11.5	8.5	10.0	15.0	14.0	14.5
16	3.0	2.5	2.5	3.5	2.5	3.0	12.5	8.5	10.5	14.5	13.0	13.5
17	3.0	2.0	2.5	4.0	2.5	3.5	14.0	10.0	12.0	14.0	12.0	13.0
18	3.0	1.5	2.5	4.0	3.5	3.5	15.0	11.5	13.0	13.5	12.0	12.5
19	2.0	1.5	2.0	4.0	2.5	3.0	16.5	13.0	14.5	12.0	11.0	11.0
20	2.0	1.5	1.5	2.5	2.0	2.5	17.0	14.5	15.5	12.0	10.0	11.0
21	2.0	1.0	1.5	4.0	2.0	3.0	17.5	14.5	16.0	12.0	11.0	11.5
22	2.5	2.0	2.0	4.5	3.0	3.5	17.5	14.5	16.0	12.0	11.0	11.5
23	3.5	2.5	3.0	5.0	3.0	4.0	16.5	14.5	15.5	14.0	11.5	12.5
24	3.5	2.0	3.0	4.5	3.5	4.0	16.0	13.0	14.5	15.0	12.5	14.0
25	4.0	2.0	3.0	5.0	3.0	4.0	15.0	12.5	14.0	16.0	13.0	14.5
26	3.5	3.0	3.5	6.5	4.5	5.5	16.5	13.5	15.0	16.0	14.0	15.0
27	3.0	2.0	2.5	6.0	5.0	5.5	16.0	13.5	15.0	16.0	14.0	15.0
28	2.0	1.5	1.5	5.5	4.5	4.5	15.5	12.5	14.0	14.5	12.0	13.5
29	2.0	1.5	1.5	5.5	3.5	4.5	13.5	11.5	12.5	15.0	12.0	14.0
30	---	---	---	6.0	3.5	4.5	12.5	10.5	11.5	15.0	13.5	14.0
31	---	---	---	5.5	4.5	5.0	---	---	---	16.5	14.5	15.0
Month	4.0	0.5	2.2	6.5	1.5	3.4	17.5	5.5	11.7	16.5	9.5	13.3

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	16.0	15.0	15.5	19.0	17.5	18.5	20.0	18.5	19.0	17.0	15.5	16.5
2	17.0	13.5	15.0	18.5	16.5	18.0	19.5	18.5	19.0	17.0	15.5	16.5
3	16.5	15.0	15.5	18.5	17.5	18.0	19.0	18.5	19.0	17.5	16.0	16.5
4	16.0	15.0	15.0	18.5	16.5	17.5	19.0	17.5	18.5	18.0	16.5	17.5
5	17.0	15.5	16.0	18.0	16.0	17.5	19.5	17.5	18.5	19.0	17.0	18.5
6	20.0	17.0	18.0	18.5	16.5	17.5	21.0	19.5	20.0	18.0	16.0	17.0
7	20.5	18.5	19.5	20.0	17.5	18.5	20.5	19.5	20.0	16.5	15.0	16.0
8	21.0	19.0	20.0	20.5	18.5	19.5	19.5	18.0	18.5	16.5	15.0	16.0
9	21.5	19.5	20.5	20.5	19.5	19.5	19.0	17.5	18.0	16.0	14.5	15.5
10	21.5	19.5	20.0	19.5	18.0	19.0	18.5	17.5	18.0	15.5	13.5	14.5
11	20.0	18.0	19.0	19.0	17.5	18.0	18.0	17.5	18.0	14.5	13.5	14.0
12	19.5	17.5	18.5	19.0	16.5	17.5	18.5	17.5	18.0	16.0	14.5	15.5
13	19.0	17.0	18.0	19.5	18.5	19.0	18.0	17.0	17.5	17.0	16.0	16.5
14	19.5	19.0	19.0	19.5	18.0	19.0	18.0	17.0	17.5	18.5	16.5	18.0
15	19.5	18.0	19.0	19.0	17.5	18.0	18.0	16.5	17.5	18.0	15.0	17.0
16	19.5	18.0	19.0	19.0	17.5	18.5	18.0	16.5	17.5	15.5	14.0	15.0
17	19.0	17.0	17.5	19.5	18.0	19.0	18.5	17.0	17.5	15.0	14.0	14.5
18	17.0	15.5	16.0	20.0	18.5	19.5	19.0	17.0	18.0	15.5	13.0	14.5
19	16.5	15.0	15.5	20.0	19.0	20.0	19.0	17.5	18.0	14.0	13.0	13.5
20	17.0	15.0	16.0	20.0	19.0	19.5	17.5	16.0	17.0	15.0	13.5	14.5
21	18.0	15.5	16.5	20.5	19.0	20.0	17.0	15.5	16.5	14.0	13.0	14.0
22	18.5	17.0	17.5	20.5	19.5	20.0	18.0	16.5	17.0	14.0	12.0	13.0
23	18.5	17.0	18.0	20.5	19.5	20.0	18.0	17.0	17.5	13.5	12.0	13.0
24	18.0	17.0	17.5	19.5	18.5	19.5	18.0	17.5	18.0	14.0	12.5	13.5
25	18.5	16.5	17.5	20.0	18.5	19.0	18.0	17.0	17.5	14.5	13.0	14.0
26	18.5	17.5	18.0	19.5	18.5	19.0	17.0	15.5	16.0	14.0	13.0	14.0
27	19.0	17.5	18.0	20.0	18.5	19.0	16.0	15.0	15.5	15.0	14.0	15.0
28	19.0	17.5	18.0	19.5	18.5	19.0	16.0	15.5	16.0	15.0	15.0	15.0
29	19.5	18.0	19.0	19.5	18.0	19.0	16.0	15.5	15.5	15.0	14.0	14.5
30	19.5	18.0	18.5	19.0	18.0	18.5	17.5	16.0	16.5	14.5	14.0	14.0
31	---	---	---	19.5	18.0	18.5	17.0	16.0	16.5	---	---	---
Month	21.5	13.5	17.7	20.5	16.0	18.8	21.0	15.0	17.7	19.0	12.0	15.2

	Max	Min	Mean
Year	21.5	0.0	10.4

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
[Remark codes: <, less than.]

Date	Begin time	End time	Dis-charge, ft3/s (00060)	Chlor-ide, water, fltrd, mg/L (00940)	Residue total non-filter-able, mg/L (00530)	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)
Dec 24-26	0830	0830	163	111	56	.74	.112	.898	.008	.137
Dec 26 2007-Jan 02 2008	0900	0800	54	131	17	.33	<.010	1.15	.009	.042
Jan 10-15	1155	1354	62	99.0	27	.49	.014	.948	.006	.048
Feb 05-11	1250	1250	181	104	60	.66	.017	.964	.012	.074
Mar 14-19	1250	1050	100	148	20	.57	.088	.853	.003	.061
Mar 19-26	1430	0730	126	104	146	.53	.011	.884	.007	.083
Mar 31-Apr 07	0940	0840	119	103	38	.46	<.010	.790	.005	.065
Apr 11-15	1200	0900	96	108	38	.46	<.010	.817	.009	.074
Jul 21-23	0905	0905	58	109	106	1.3	.161	.660	.005	.192
Jul 23-30	1050	0950	42	105	58	.70	.023	1.01	.007	.091
Aug 28-Sep 03	1030	1230	15	123	31	.18	<.010	1.14	.008	.021
Sep 11-15	2300	0959	27	117	34	.56	<.010	1.01	.011	.070