Water-Data Report 2007

0424015305 RICE BROOK AT RICE GROVE, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 42°51′07″, long 76°15′33″ referenced to North American Datum of 1927, Onondaga County, NY, Hydrologic Unit 04140201, in community of Rice Grove, on right bank 10 ft downstream of bridge on Otisco Valley Road, 2.2 mi west of Otisco, and 0.1 mi upstream from mouth.

DRAINAGE AREA.--2.44 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1981 to September 1983, October 2005 to September 2007 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above NGVD of 1929, from topographic map. Prior to October, 2005, at site just upstream from Otisco Valley Road at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 285 ft^3/s, Mar. 14, 2007, gage height, 2.06 ft, from rating curve extended above 41 ft^3/s; maximum gage height, 4.88 ft, Mar. 7, 2007 (ice jam); minimum discharge, no flow many days in Aug. and Sept. 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 285 ft^3/s, Mar. 14, gage height, 2.06 ft, from rating curve extended above 41 ft^3/s; minimum discharge, 0.01 ft^3/s, Sept. 1, 2, 4, 5, 6, gage height, 1.16 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	2.8	6.4	8.3	5.7	2.7	2.0	9.4	5.3	1.0	0.31	0.36	0.04
2	2.4	5.4	5.7	4.4	2.9	104	9.1	4.7	0.95	0.29	0.34	0.03
3	2.3	4.9	4.1	3.8	2.6	111	7.4	3.0	0.91	0.25	0.33	0.04
4	2.9	4.4	3.9	3.8	2.5	19	7.0	2.7	1.7	0.28	0.29	0.02
5	3.1	4.2	3.3	8.1	2.2	e13	6.1	2.7	1.3	0.31	0.21	0.01
6	2.2	3.9	3.0	18	e2.1	e9.0	5.5	2.5	1.0	0.22	0.22	0.02
7	2.1	3.7	3.4	9.1	e2.1	e7.0	5.7	2.5	0.89	0.14	0.29	0.03
8	2.1	3.8	e3.3	17	e2.0	e5.2	4.9	2.4	0.95	0.48	0.37	0.03
9	2.0	3.4	e3.2	9.4	e2.0	3.9	4.6	2.4	1.2	0.65	0.26	0.52
10	2.0	3.0	3.2	7.0	e2.0	3.1	4.5	2.7	0.88	0.36	0.46	0.45
11	2.2	5.9	3.3	e6.7	e1.9	4.1	4.4	3.1	0.73	0.36	0.31	0.15
12	3.9	13	3.6	7.4	e1.9	4.6	9.9	2.6	0.61	0.39	0.25	0.09
13	2.7	7.3	2.9	12	1.9	11	7.6	2.6	0.55	0.40	0.22	0.05
14	2.5	13	2.8	9.5	e1.9	77	5.9	2.7	0.52	0.26	0.14	0.18
15	2.5	8.7	2.8	36	e1.9	52	7.3	3.0	0.40	0.43	0.12	0.77
16	2.4	17	2.6	e13	e1.9	8.6	8.7	7.6	0.37	0.34	0.26	0.08
17	3.6	10	2.8	e7.0	e1.8	e5.8	11	3.8	0.32	0.25	0.34	0.06
18	4.7	6.4	3.4	e5.7	e1.8	e5.2	15	2.9	0.30	0.41	0.28	0.07
19	11	5.6	2.7	e5.3	e1.8	e4.8	27	2.5	0.50	7.9	0.23	0.09
20	37	5.2	2.6	e4.9	2.1	e4.5	29	2.6	1.4	2.0	e0.19	0.11
21	15	4.7	2.5	e4.6	2.2	8.1	12	2.5	0.76	0.96	e0.15	0.11
22	9.4	4.4	3.0	e4.4	2.3	27	7.0	2.5	0.66	0.65	e0.12	0.11
23	7.8	4.1	4.6	e4.1	2.2	25	5.8	e2.3	0.52	0.80	e0.34	0.05
24	7.1	3.9	3.6	3.9	2.0	30	6.4	e2.1	0.46	2.1	e0.28	0.06
25	11	3.7	4.4	e3.6	2.0	22	6.5	e1.9	0.44	0.88	e0.24	0.10
26	7.4	3.6	11	e3.4	2.0	31	5.8	e1.7	0.38	0.67	e0.21	0.11
27	6.3	3.7	7.7	e3.2	2.0	22	5.7	e1.7	0.78	0.80	e0.18	0.24
28	17	3.3	5.6	3.1	1.9	13	5.8	e1.6	0.86	0.88	0.15	0.27
29	14	3.1	5.6	2.8	---	9.5	5.5	e1.3	0.50	0.61	0.17	0.21
30	8.6	3.1	5.2	2.8	---	9.5	5.6	e1.2	0.38	0.46	0.13	0.12
31	7.5	---	4.8	2.7	---	9.1	---	e1.1	---	0.40	0.09	---
Total	207.5	172.8	128.9	232.4	58.6	661.0	256.1	84.2	22.22	25.24	7.53	4.22
Mean	6.69	5.76	4.16	7.50	2.09	21.3	8.54	2.72	0.74	0.81	0.24	0.14
Max	37	17	11	36	2.9	111	29	7.6	1.7	7.9	0.46	0.77
Min	2.0	3.0	2.5	2.7	1.8	2.0	4.4	1.1	0.30	0.14	0.09	0.01
Cfsm	2.74	2.36	1.70	3.07	0.86	8.74	3.50	1.11	0.30	0.33	0.10	0.06
In.	3.16	2.63	1.97	3.54	0.89	10.08	3.90	1.28	0.34	0.38	0.11	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.63	5.62	4.60	5.31	4.58	9.51	7.47	2.97	2.39	2.50	1.02	0.93
Max	6.69	7.37	7.38	9.72	8.78	21.3	11.9	5.20	3.97	7.27	3.15	2.77
(WY)	(2007)	(1982)	(2006)	(2006)	(2006)	(2007)	(1983)	(1983)	(1982)	(2006)	(2006)	(2006)
Min	0.56	2.78	3.15	1.78	2.09	2.78	3.39	1.61	0.74	0.16	0.07	0.07
(WY)	(1983)	(1983)	(1983)	(1982)	(2007)	(1983)	(2006)	(1982)	(2007)	(1983)	(1983)	(1983)

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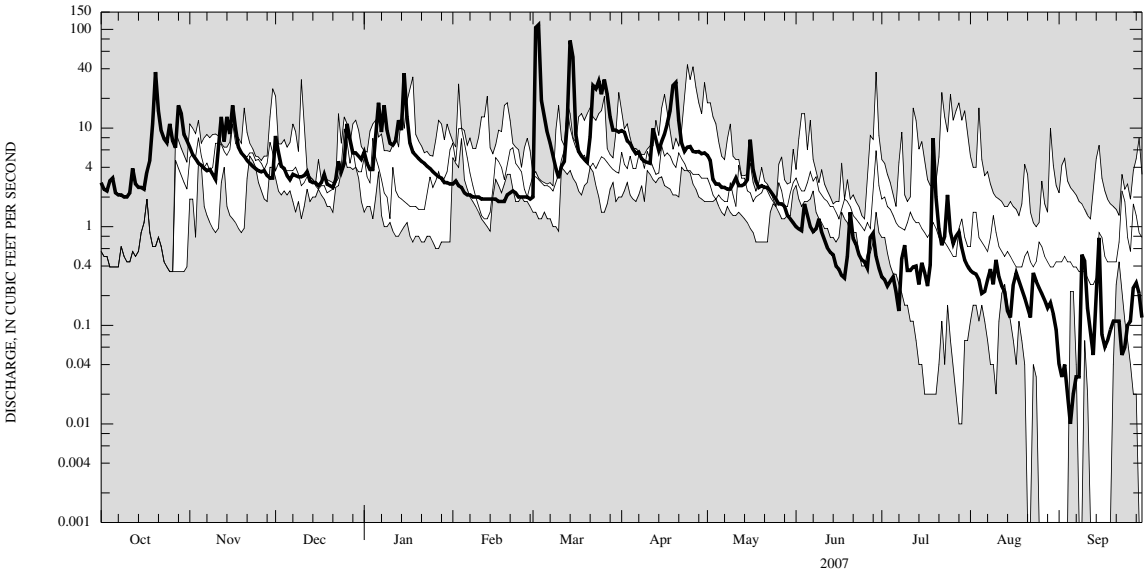
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1982 - 2007	
Annual total	1,922.59		1,860.71			
Annual mean	5.27		5.10		3.99	
Highest annual mean					5.10	2007
Lowest annual mean					2.88	1983
Highest daily mean	37	Oct 20	111	Mar 3	111	Mar 3, 2007
Lowest daily mean	0.91	Jun 25	0.01	Sep 5	0.00	Aug 21, 1983
Annual seven-day minimum	1.1	Jul 4	0.03	Sep 2	0.00	Aug 25, 1983
Annual runoff (cfsm)	2.16		2.09		1.63	
Annual runoff (inches)	29.31		28.37		22.20	
10 percent exceeds	11		9.7		8.6	
50 percent exceeds	3.7		2.7		2.1	
90 percent exceeds	1.6		0.21		0.07	



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.
ZERO FLOWS ARE PLOTTED AS 0.001 DISCHARGE, WHICH MAY INCLUDE THE LOWEST DAILY MEAN FOR PERIOD OF RECORD.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981-83, 2006 to current year.
NUTRIENT DATA: Water years 1981 (b), 1982-83 (e), 2006 (e), 2007 (d).
SEDIMENT DATA: Water years 1981 (a), 1982 (b), 1983 (a), 2006 (e), 2007 (d).

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
Oct													
19...	1905	33	--	--	1.3	7.3	.272	1.91	.072	.264	.377	1.97	1,300
19...	2135	28	--	--	.6	1.4	<.02	2.07	.012	.076	.107	.362	176
20...	0715	23	--	11.0	.5	.8	<.02	2.62	.009	.052	.076	.142	54
20...	0750	23	--	11.0	.5	.8	<.02	2.65	.009	.049	.072	.132	41
20...	1220	50	--	10.0	.5	1.4	<.02	2.69	.010	.106	.145	.437	291
Nov													
27...	0925	4.1	--	6.0	.2	.2	<.02	3.78	E.002	.008	.010	.052	65
Jan													
15...	0950	45	--	--	.7	2.6	.256	2.79	.008	.049	.080	.65	523
15...	1450	59	--	--	.4	1.1	.091	2.06	.007	.038	.057	.240	126
15...	1650	44	--	--	.3	.8	.057	2.37	.007	.030	.044	.144	69
18...	1330	19	295	.6	.2	.2	<.02	4.33	.004	.010	.011	.016	63
22...	1055	66	290	.3	.2	.2	<.02	4.18	.002	.010	.009	.013	73
Mar													
13...	0950	6.2	347	1.1	.3	.4	.115	3.56	.014	.020	.030	.051	59
14...	1415	82	170	.8	1.8	14	.785	2.18	.015	.464	.56	3.31	5,600
15...	1325	53	194	1.7	.5	.9	.143	2.95	.017	.057	.077	.199	199
May													
15...	0905	1.5	380	11.9	.2	.2	<.02	2.28	.006	E.003	<.006	.009	73
Jul													
17...	1005	.19	454	19.3	.2	.2	<.02	1.45	.004	.020	.024	.025	17
19...	1035	16	294	19.1	.6	1.5	.084	.837	.028	.010	.032	.271	206
Sep													
07...	0820	.04	505	19.2	.2	.2	<.02	1.15	E.001	.026	.028	.035	32