Water-Data Report 2007

04240158 WILLOW BROOK NEAR BORODINO, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 42°52'27.9", long 76°19'30.8" referenced to North American Datum of 1983, Onondaga County, NY, Hydrologic Unit 04140201, 1.1 mi northeast of Borodino, on left bank 10 ft downstream of bridge on Willowdale Road, 0.1 mi south of County Highway 174, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--1.95 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 2005 to September 2007 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 950 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 211 ft^3/s, Mar. 14, 2007, gage height, 2.85 ft; no flow on many days during August and September, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 211 ft^3/s, Mar. 14, gage height, 2.85 ft; minimum discharge, no flow on many days during August and September.

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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	1.9	4.0	14	4.6	1.8	1.7	4.0	3.0	0.23	0.06	0.31	0.00
2	1.7	3.4	5.8	3.4	1.9	6.2	4.0	2.8	0.20	0.05	0.25	0.00
3	1.6	3.0	3.3	3.0	e1.8	8.5	3.0	2.3	0.22	0.03	0.20	0.00
4	2.2	2.6	2.8	2.8	e1.8	5.6	3.5	2.2	1.3	0.04	0.16	0.00
5	2.7	2.4	2.3	7.6	e1.7	3.7	3.0	2.0	0.68	0.06	0.13	0.00
6	1.8	2.3	2.1	19	e1.7	e3.1	2.5	1.8	0.45	0.04	0.13	0.00
7	1.6	2.2	2.1	6.3	e1.7	e2.7	2.3	1.7	0.34	0.01	0.15	0.00
8	1.4	2.2	1.9	17	e1.6	2.4	2.0	1.5	0.30	1.6	0.13	0.00
9	1.3	2.1	1.8	6.3	e1.6	2.2	1.9	1.4	0.42	0.67	0.08	0.01
10	1.3	1.8	1.8	4.1	e1.6	2.4	1.9	1.6	0.27	0.20	0.24	0.00
11	1.4	5.3	1.9	3.5	e1.5	3.5	1.8	1.4	0.22	0.27	0.14	0.00
12	1.9	12	2.2	4.5	e1.5	3.8	6.0	1.1	0.17	0.21	0.09	0.00
13	1.5	5.0	2.2	11	1.5	18	6.1	0.98	0.14	0.21	0.06	0.00
14	1.3	19	2.0	6.8	e1.4	92	4.2	0.88	0.09	0.12	0.02	0.00
15	1.3	7.6	1.8	33	e1.4	55	5.6	0.99	0.07	0.26	0.01	0.05
16	1.2	19	1.6	9.3	e1.4	14	6.7	2.6	0.05	0.16	0.05	0.00
17	1.9	13	1.7	4.9	e1.4	7.4	7.9	1.4	0.03	0.12	0.04	0.00
18	3.8	5.8	2.0	3.9	e1.3	5.3	19	1.1	0.02	0.23	0.03	0.00
19	21	4.4	1.7	3.7	e1.3	e4.5	45	0.97	0.70	10	0.01	0.00
20	51	3.7	1.5	e3.2	e1.5	3.7	30	0.99	1.4	4.0	0.01	0.00
21	16	3.1	1.5	e2.8	1.8	e4.6	12	0.77	0.32	1.6	0.02	0.00
22	7.1	2.8	2.0	2.7	1.8	40	6.6	0.64	0.26	0.78	0.02	0.00
23	5.7	2.6	3.6	2.5	1.8	24	5.5	0.55	0.20	1.5	0.17	0.00
24	5.1	2.4	2.6	2.4	1.7	29	5.6	0.48	0.15	3.9	0.08	0.00
25	13	2.2	8.3	e2.4	1.7	19	6.3	0.44	0.11	1.5	0.01	0.00
26	7.7	2.0	17	e2.3	1.7	24	5.4	0.40	0.07	0.84	0.01	0.00
27	5.4	1.9	8.0	2.3	1.6	18	4.7	0.40	0.32	0.75	0.01	0.02
28	27	1.8	5.2	2.1	1.6	8.1	4.5	0.39	0.20	0.68	0.00	0.00
29	15	1.8	5.1	2.0	---	5.0	4.3	0.32	0.11	0.54	0.00	0.00
30	5.5	1.9	4.7	1.9	---	4.2	3.5	0.27	0.08	0.43	0.00	0.00
31	4.5	---	4.2	1.8	---	3.6	---	0.25	---	0.35	0.00	---
Total	215.8	143.3	118.7	183.1	45.1	425.2	218.8	37.62	9.12	31.21	2.56	0.08
Mean	6.96	4.78	3.83	5.91	1.61	13.7	7.29	1.21	0.30	1.01	0.08	0.00
Max	51	19	17	33	1.9	92	45	3.0	1.4	10	0.31	0.05
Min	1.2	1.8	1.5	1.8	1.3	1.7	1.8	0.25	0.02	0.01	0.00	0.00
Cfsm	3.57	2.45	1.96	3.03	0.83	7.03	3.74	0.62	0.16	0.52	0.04	0.00
In.	4.12	2.73	2.26	3.49	0.86	8.11	4.17	0.72	0.17	0.60	0.05	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.96	4.78	4.12	6.27	2.69	8.86	4.77	1.60	1.44	2.07	0.65	0.72
Max	6.96	4.78	4.42	6.64	3.76	13.7	7.29	1.99	2.57	3.13	1.22	1.44
(WY)	(2007)	(2007)	(2006)	(2006)	(2006)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	6.96	4.78	3.83	5.91	1.61	4.00	2.25	1.21	0.30	1.01	0.08	0.00
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2006)	(2007)	(2007)	(2007)	(2007)	(2007)

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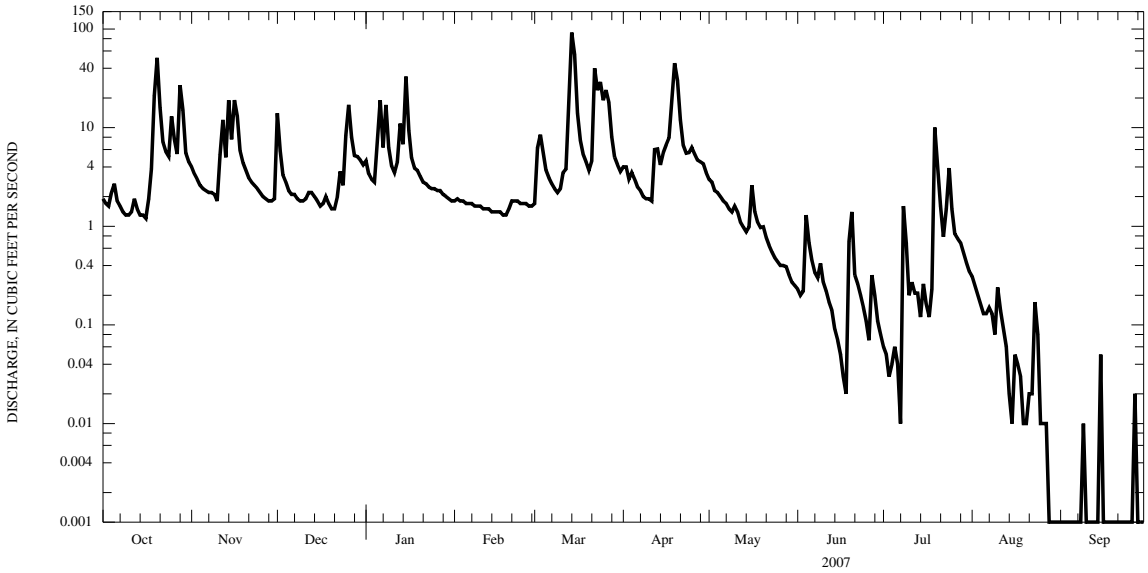
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2006 - 2007	
Annual total	1,297.11		1,430.59			
Annual mean	3.55		3.92		3.92	
Highest annual mean					3.92	2007
Lowest annual mean					3.92	2007
Highest daily mean	51	Oct 20	92	Mar 14	92	Mar 14, 2007
Lowest daily mean	0.39	Aug 24	0.00	Aug 28	0.00	Aug 28, 2007
Annual seven-day minimum	0.47	Aug 13	0.00	Aug 28	0.00	Aug 28, 2007
Annual runoff (cfsm)	1.82		2.01		2.01	
Annual runoff (inches)	24.74		27.29		27.31	
10 percent exceeds	7.4		7.9		7.9	
50 percent exceeds	2.2		1.8		1.8	
90 percent exceeds	0.78		0.01		0.01	



CURRENT WATER YEAR DAILY MEAN DISCHARGE. ZERO FLOWS ARE PLOTTED AS 0.001 DISCHARGE.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2006 to current year.
NUTRIENT DATA: Water years 2006-07 (e).
SEDIMENT DATA: Water years 2006-07 (e).

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 1 of 2
[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...	1815	57	--	--	.6	8.5	.026	1.33	.018	.119	.162	1.76	1,140
19...	1945	104	--	--	.7	4.3	<.02	1.14	.016	.090	.145	1.15	1,810
20...	0115	45	--	--	.7	1.2	.024	2.67	.010	.112	.149	.452	139
20...	0930	32	--	11.0	.7	1.1	.047	3.21	.016	.088	.120	.262	57
20...	1305	79	--	9.5	.7	1.6	<.02	2.20	.012	.102	.154	.47	273
Nov													
27...	1050	1.9	--	5.5	.2	.2	E.011	3.30	.007	.010	.014	.019	78
Dec													
01...	1620	34	--	--	.7	11	.158	1.30	.023	.128	.165	1.81	1,990
01...	1720	68	--	--	.5	4.7	E.016	1.00	.016	.089	.118	1.25	1,040
01...	1920	34	375	10.2	.6	2.3	.023	1.55	.012	.102	.126	.71	330
25...	2110	33	--	--	.63	4.0	.14	1.25	--	--	.07	1.01	813
25...	2240	51	--	--	.59	3.1	.14	1.42	--	--	.10	.95	528
26...	0040	33	--	--	.58	1.8	.12	1.99	--	--	.09	.50	206
Jan													
05...	2145	33	--	--	.55	2.5	.06	1.66	--	--	.05	.65	404
06...	0020	45	--	--	.56	2.1	.08	1.61	--	--	.09	.53	234
06...	0250	34	--	--	.55	1.2	.05	2.13	--	--	.08	.333	102
12...	1050	3.3	486	4.0	.25	.3	E.04	3.86	--	--	<.04	.021	85
15...	0830	39	--	--	.4	2.1	.055	2.00	.007	.035	.055	.45	308
15...	1230	78	--	--	.4	2.1	.030	1.60	.006	.065	.088	.52	325
15...	1730	34	--	--	.4	1.0	.024	2.78	.008	.039	.058	.212	69
18...	1035	3.9	336	.5	.2	.2	<.02	4.31	.008	.011	.014	.028	98
22...	1210	2.7	372	1.0	.3	.4	.041	4.06	.009	.019	.022	.040	88
Mar													
13...	1110	6.8	450	1.9	.6	.8	.175	3.19	.017	.028	.046	.105	65
13...	1800	34	--	--	.7	2.0	.239	2.81	.010	.067	.093	.45	325
14...	0200	45	--	--	.7	1.7	.237	2.89	.010	.057	.086	.34	246
14...	1810	196	--	0.0	.8	2.6	.264	1.78	.009	.092	.126	.69	646
14...	1855	160	--	--	.8	2.4	.351	1.85	.011	.092	.121	.60	513
15...	0625	90	--	--	.6	1.4	.222	2.12	.011	.083	.107	.364	219
May													
15...	1010	198	503	13.3	.2	.3	<.02	2.20	.013	E.004	.006	.021	26
Jul													
17...	1125	.15	693	20.8	.3	.2	<.02	.882	.008	.006	.012	.020	84
Sep													
13...	0930	.01	797	13.8	.2	.2	E.011	.351	E.002	E.003	.007	.010	40