0423401815 SALMON CREEK NEAR LUDLOWVILLE, NY

Oswego Basin
Seneca Subbasin

LOCATION.--Lat 42°33'09.4", long 76°32'01.8" referenced to North American Datum of 1983, Tompkins County, NY, Hydrologic Unit 04140201, on right bank, at cul-de-sac of Mill Street, in Village of Ludlowville, 0.1 mi downstream of Dug Street bridge, and 1.6 mi upstream of mouth.

DRAINAGE AREA.--87.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2006 to Sept. 2009 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 405 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,820 ft^3/s, Dec. 23, 2007, gage height, 4.71 ft; minimum discharge, 1.7 ft^3/s, Aug. 7, Sept. 7, 8, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,110 ft^3/s, Dec. 28, gage height, 3.49 ft; minimum discharge, 3.8 ft^3/s, Sept. 21, 22, gage height, 0.85 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	50	205	e150	e50	e100	175	42	57	107	14	34
2	22	37	188	e140	e52	84	152	74	46	184	18	26
3	24	30	106	130	e50	e80	201	50	39	154	29	21
4	24	27	84	e115	e48	e75	890	41	34	109	17	18
5	23	24	75	101	e46	e70	661	37	29	73	11	15
6	22	22	e52	e90	e42	e90	448	35	26	55	8.7	13
7	20	20	e46	130	e42	127	440	40	23	48	7.2	11
8	19	29	e42	148	e50	397	291	41	22	43	5.9	9.9
9	19	40	e40	e125	e75	1,210	228	51	31	37	9.1	9.0
10	19	29	71	117	e100	496	188	42	24	31	92	8.4
11	19	24	84	e110	e200	765	167	33	22	37	263	8.2
12	18	21	e60	e100	e800	353	143	29	143	56	78	13
13	17	20	e50	e98	e500	239	124	26	87	33	40	10
14	17	21	e44	e90	e260	206	114	29	53	26	28	8.9
15	18	109	191	e88	e180	188	101	29	37	22	21	7.5
16	22	180	306	e82	153	170	87	93	29	19	17	6.6
17	28	84	153	e76	e120	159	79	137	26	19	14	6.4
18	30	58	107	e70	e110	173	74	61	95	19	15	6.1
19	30	46	91	e66	100	400	69	42	110	17	24	5.6
20	29	43	e90	e62	91	236	65	34	149	15	16	4.9
21	30	37	e88	e58	e75	175	68	28	497	13	28	4.3
22	35	31	e88	e54	61	161	70	24	207	11	29	5.1
23	45	e30	e86	e54	e60	133	73	21	125	11	24	6.3
24	36	31	e86	e54	e58	116	62	19	82	10	33	8.9
25	61	66	e250	e52	e56	108	52	17	91	9.9	22	7.6
26	168	92	169	e50	54	117	47	17	126	10	19	5.9
27	56	71	919	e50	145	138	43	46	97	21	19	53
28	235	67	1,310	e50	214	113	41	51	69	17	17	83
29	317	66	415	e52	---	145	41	283	61	12	78	46
30	107	69	240	e52	---	335	38	160	86	12	93	39
31	67	---	176	e50	---	219	---	84	---	14	49	---
Total	1,597	1,474	5,912	2,664	3,792	7,378	5,232	1,716	2,523	1,244.9	1,138.9	501.6
Mean	51.5	49.1	191	85.9	135	238	174	55.4	84.1	40.2	36.7	16.7
Max	317	180	1,310	150	800	1,210	890	283	497	184	263	83
Min	17	20	40	50	42	70	38	17	22	9.9	5.9	4.3
Cfsm	0.59	0.56	2.17	0.98	1.54	2.71	1.99	0.63	0.96	0.46	0.42	0.19
In.	0.68	0.63	2.51	1.13	1.61	3.13	2.22	0.73	1.07	0.53	0.48	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	90.7	116	208	144	168	347	197	52.5	37.1	27.8	29.8	28.4
Max	191	195	300	203	302	459	262	55.4	84.1	40.2	47.7	75.5
(WY)	(2007)	(2007)	(2008)	(2007)	(2008)	(2007)	(2007)	(2007)	(2009)	(2009)	(2006)	(2006)
Min	29.6	49.1	133	85.9	62.6	238	155	46.9	11.8	8.52	16.1	10.4
(WY)	(2008)	(2009)	(2007)	(2009)	(2007)	(2009)	(2008)	(2008)	(2007)	(2007)	(2007)	(2007)

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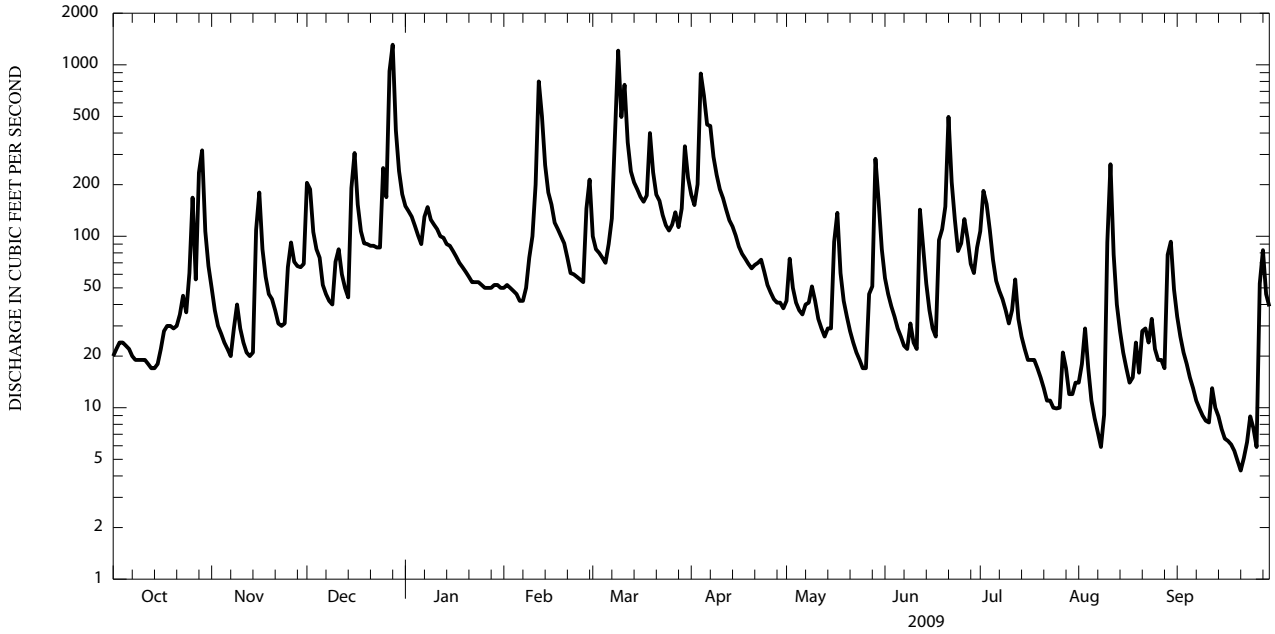
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2006 - 2009	
Annual total	41,396.5		35,173.4			
Annual mean	113		96.4		119	
Highest annual mean					135	2007
Lowest annual mean					96.4	2009
Highest daily mean	1,930	Feb 6	1,310	Dec 28	2,540	Mar 15, 2007
Lowest daily mean	4.2	Sep 4	4.3	Sep 21	1.9	Sep 7, 2007
Annual seven-day minimum	5.1	Sep 2	5.5	Sep 17	2.4	Sep 2, 2007
Annual runoff (cfsm)	1.29		1.10		1.35	
Annual runoff (inches)	17.56		14.92		18.40	
10 percent exceeds	250		195		255	
50 percent exceeds	50		52		58	
90 percent exceeds	12		14		8.6	



CURRENT WATER YEAR DAILY MEAN DISCHARGE.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2007 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATION: April 2007 to current year.
SUSPENDED-SEDIMENT DISCHARGE: April 2007 to current year.

INSTRUMENTATION.--Automatic water sampler since 2007.

COOPERATION.--Samples were analyzed by personnel from the City of Ithaca Water Treatment Plant.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 2,000 mg/L, Dec. 23, 2007; minimum daily mean, 1 mg/L on several days in 2008.
SEDIMENT LOAD: Maximum daily, 17,900 tons, Dec. 23, 2007; minimum daily 0.02 tons on several days in 2008.

SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)
	October		November		December		January		February		March	
1	4	0.21	13	1.7	114	66	56	23	8	1.0	4	1.2
2	4	0.24	12	1.2	68	37	43	16	7	1.0	4	0.89
3	4	0.26	11	0.88	12	3.4	29	11	7	0.97	3	0.75
4	4	0.26	10	0.73	9	2.1	17	5.3	7	0.90	3	0.60
5	4	0.25	9	0.59	9	1.8	15	4.0	7	0.83	2	0.47
6	4	0.23	9	0.52	8	1.1	14	3.5	6	0.73	2	0.50
7	4	0.22	8	0.45	8	0.95	14	5.0	6	0.70	7	4.9
8	4	0.22	8	0.60	7	0.80	14	5.6	6	0.79	428	472
9	4	0.23	7	0.80	7	0.70	14	4.6	6	1.1	950	3,420
10	4	0.23	7	0.56	19	4.6	13	4.3	5	1.4	270	394
11	5	0.23	7	0.44	11	2.8	13	3.9	21	12	268	593
12	5	0.23	6	0.35	5	0.81	13	3.5	699	1,510	48	50
13	5	0.23	6	0.32	5	0.68	13	3.4	185	253	19	12
14	5	0.23	5	0.30	5	0.59	12	3.0	43	30	17	9.6
15	5	0.25	66	36	44	47	12	2.9	15	7.4	16	7.9
16	5	0.32	21	13	47	52	12	2.6	10	4.0	14	6.5
17	5	0.42	10	2.2	10	3.9	12	2.4	9	3.0	13	5.4
18	6	0.46	10	1.5	9	2.6	11	2.1	9	2.6	11	5.1
19	6	0.47	10	1.2	9	2.1	11	2.0	8	2.3	110	141
20	6	0.46	10	1.1	8	2.0	11	1.8	8	1.9	10	6.1
21	6	0.49	9	0.95	8	1.8	11	1.7	8	1.5	9	4.3
22	6	0.58	9	0.79	7	1.7	10	1.5	7	1.2	9	3.7
23	6	0.78	9	0.74	7	1.6	10	1.5	7	1.1	8	2.9
24	7	0.66	9	0.75	6	1.5	10	1.4	6	0.99	8	2.4
25	29	12	27	5.8	6	3.9	10	1.3	6	0.89	7	2.1
26	63	36	20	5.2	5	2.5	9	1.3	5	0.79	7	2.1
27	8	1.2	9	1.7	555	2,500	9	1.2	129	95	6	2.3
28	97	146	8	1.4	800	2,840	9	1.2	102	83	6	1.7
29	74	94	7	1.2	116	144	8	1.2	---	---	65	48
30	14	4.1	10	2.0	83	54	8	1.2	---	---	129	118
31	13	2.4	---	---	69	33	8	1.1	---	---	46	27
Total	---	303.86	---	84.97	---	5,816.93	---	124.5	---	2,020.09	---	5,346.41

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SUSPENDED-SEDIMENT
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)	Mean concen-tration (mg/L)	Sediment discharge (tons/day)
	April		May		June		July		August		September	
1	41	20	1	0.11	9	1.4	56	16	2	0.08	10	0.88
2	32	13	1	0.20	9	1.1	31	15	2	0.10	10	0.67
3	78	65	1	0.13	8	0.89	13	5.5	2	0.15	9	0.54
4	775	2,000	1	0.11	8	0.73	10	2.9	2	0.09	9	0.45
5	256	478	1	0.10	8	0.60	9	1.8	2	0.06	9	0.37
6	188	225	1	0.10	7	0.50	8	1.3	2	0.05	9	0.31
7	67	88	1	0.11	7	0.42	8	1.0	2	0.04	9	0.26
8	10	7.7	1	0.11	6	0.38	7	0.83	2	0.03	9	0.23
9	9	5.7	1	0.14	6	0.51	7	0.65	2	0.05	9	0.21
10	9	4.5	1	0.11	6	0.37	6	0.49	138	97	9	0.20
11	8	3.8	1	0.09	5	0.31	5	0.51	290	239	8	0.19
12	8	3.1	1	0.08	57	26	5	0.71	15	3.5	8	0.29
13	8	2.5	1	0.07	12	3.2	4	0.36	9	1.0	8	0.23
14	7	2.2	1	0.08	9	1.2	3	0.23	9	0.67	8	0.19
15	7	1.8	1	0.08	8	0.78	3	0.16	9	0.49	8	0.16
16	6	1.5	333	270	7	0.53	2	0.11	8	0.37	8	0.14
17	6	1.2	100	53	6	0.41	2	0.10	8	0.28	8	0.13
18	5	1.1	14	2.3	30	9.3	2	0.10	7	0.29	8	0.12
19	5	0.92	13	1.5	21	6.5	2	0.08	7	0.44	7	0.11
20	5	0.79	12	1.1	117	131	2	0.07	6	0.28	7	0.10
21	4	0.75	11	0.85	421	660	2	0.06	6	0.43	7	0.08
22	4	0.68	10	0.66	34	22	2	0.05	5	0.42	7	0.10
23	3	0.63	9	0.53	11	3.7	1	0.04	5	0.32	7	0.11
24	3	0.46	8	0.44	10	2.2	1	0.04	4	0.40	6	0.15
25	2	0.33	8	0.36	49	20	1	0.03	4	0.24	6	0.12
26	2	0.24	7	0.31	18	6.0	1	0.03	3	0.18	5	0.09
27	1	0.17	6	0.72	12	3.1	1	0.07	3	0.15	44	13
28	1	0.12	126	23	8	1.5	1	0.05	3	0.12	23	6.1
29	1	0.11	709	603	6	1.1	2	0.05	112	51	8	1.0
30	1	0.10	62	33	62	19	2	0.06	39	12	6	0.64
31	---	---	10	2.2	---	---	2	0.07	10	1.3	---	---
Total	---	2,929.40	---	994.59	---	924.73	---	48.45	---	410.53	---	27.17

	Total suspended sediment discharge (tons)
Year	19,031.63