01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY
(National water-quality assessment program station)

LOCATION.--Lat 42°47'00", long 73°51'27", Schenectady County, Hydrologic Unit 02020004, on left bank 20 ft downstream from culvert on U.S. Route 7, 1.0 mi upstream from mouth, and 5.6 mi east of Schenectady. Water-quality sampling site at discharge station.

DRAINAGE AREA.--15.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1993 to September 1997, October 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 250 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, 662 ft^3/s, Jan. 19, 1996, from rating curve extended above 180 ft^3/s; maximum gage height, 6.36 ft, Jan. 19, 1996 (ice jam); minimum discharge, 0.02 ft^3/s, part of each day Aug. 31, Sept. 9-13, 18-20, Oct. 6, 2001; minimum gage height, 0.05 ft, Aug. 28, 31, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 230 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 29	1245	296	3.41	Jul 27	2215	295	3.19
Dec 11	1815	274	3.27	Aug 12	2045	317	3.33
Dec 24	2115	282	3.32	Aug 16	0400	*336	a*3.45
Apr 2	0330	264	3.21	Sep 18	1345	325	3.39

a Recorded; outside gage height was 3.85 ft, from crest-stage gage.

Minimum discharge, 1.3 ft^3/s, July 12, gage height, 0.61 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	37	39	44	e7.4	e23	126	17	36	2.6	32	10
2	8.8	30	30	37	e7.2	e70	168	18	45	6.2	18	7.3
3	7.0	37	23	57	e7.0	e130	80	30	20	2.6	17	6.2
4	6.4	28	20	73	e7.0	156	61	30	11	2.1	30	5.7
5	6.7	26	19	e50	e6.8	135	49	19	8.5	4.2	14	5.0
6	5.1	28	e18	e30	e6.8	103	37	19	7.8	7.6	11	4.7
7	4.8	22	e18	e23	e6.8	62	35	16	9.1	2.5	9.4	4.5
8	4.4	18	e19	e19	e6.8	53	33	13	6.8	5.2	8.7	5.5
9	4.7	17	e19	e17	e6.6	56	29	23	13	2.5	7.8	74
10	5.0	15	e20	e16	e6.6	50	23	22	31	1.9	7.5	40
11	4.5	21	127	e15	e6.6	48	24	16	9.3	1.7	7.1	12
12	3.8	31	131	e14	e6.6	39	22	12	8.8	1.6	108	8.0
13	3.6	28	e50	e13	e6.6	28	69	13	8.8	1.7	181	6.3
14	3.9	20	e27	e13	e6.4	23	66	9.6	7.1	9.5	57	5.3
15	58	15	e25	e12	e6.4	26	43	11	5.3	123	40	4.8
16	18	15	e32	e12	e6.4	21	29	17	4.7	40	213	4.5
17	8.4	14	e52	e11	e6.4	e21	24	9.3	4.6	17	93	13
18	6.9	15	e60	e10	e6.4	21	23	8.3	7.7	10	36	210
19	7.8	25	e45	e10	e6.4	21	22	9.2	4.6	11	23	70
20	7.9	155	e35	e9.6	e6.2	28	19	8.5	4.2	40	27	20
21	6.2	66	e29	e9.4	e7.0	e50	16	7.7	3.3	13	136	12
22	6.3	39	31	e9.2	e6.8	e40	15	6.7	3.7	5.5	57	8.5
23	8.3	30	33	e8.8	e6.6	28	27	10	3.5	10	25	6.3
24	5.9	30	133	e8.6	e6.4	32	26	76	2.8	19	18	5.3
25	5.9	59	148	e8.4	e6.4	42	25	46	2.4	5.7	12	4.8
26	6.5	34	88	e8.2	e6.2	34	85	54	16	4.5	11	4.5
27	56	27	60	e8.0	e6.2	52	48	66	4.6	99	9.3	3.9
28	84	41	e40	e7.8	e6.6	33	28	35	3.0	161	11	16
29	185	111	e37	e7.6	e14	24	22	18	6.1	82	17	12
30	100	53	48	e7.6	---	19	21	11	3.3	37	12	21
31	54	---	51	e7.6	---	52	---	12	---	20	26	---
TOTAL	703.5	1,087	1,507	576.8	199.6	1,520	1,295	663.3	302.0	749.6	1,274.8	611.1
MEAN	22.7	36.2	48.6	18.6	6.88	49.0	43.2	21.4	10.1	24.2	41.1	20.4
MAX	185	155	148	73	14	156	168	76	45	161	213	210
MIN	3.6	14	18	7.6	6.2	19	15	6.7	2.4	1.6	7.1	3.9
CFSM	1.45	2.32	3.12	1.19	0.44	3.14	2.77	1.37	0.65	1.55	2.64	1.31
IN.	1.68	2.59	3.59	1.38	0.48	3.62	3.09	1.58	0.72	1.79	3.04	1.46

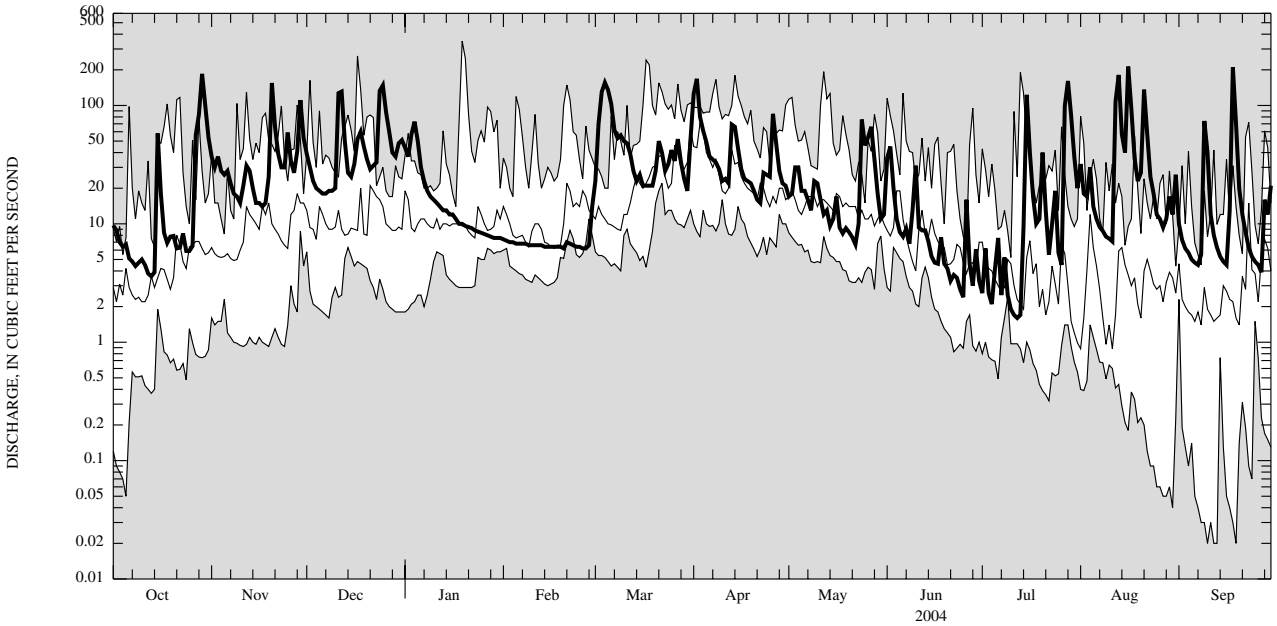
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

MEAN	10.8	17.4	21.5	17.6	15.7	35.0	36.0	21.6	12.4	9.98	10.5	7.04
MAX	22.7	36.2	48.6	44.1	34.2	61.2	61.5	41.5	22.1	25.5	41.1	20.4
(WY)	(2004)	(2004)	(2004)	(1996)	(1997)	(2003)	(1994)	(1996)	(2002)	(1996)	(2004)	(2004)
MIN	0.83	1.78	4.12	6.08	6.88	18.4	12.3	5.58	3.76	1.48	1.41	0.82
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2002)	(1995)	(1995)	(1997)	(1995)	(2001)	(2001)

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1993 - 2004	
ANNUAL TOTAL	9,913.3		10,489.7			
ANNUAL MEAN	27.2		28.7		18.0	
HIGHEST ANNUAL MEAN					28.7	2004
LOWEST ANNUAL MEAN					7.74	1995
HIGHEST DAILY MEAN	242	Mar 17	213	Aug 16	350	Jan 19, 1996
LOWEST DAILY MEAN	2.7	Jul 7	1.6	Jul 12	0.02	Sep 10, 2001
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 9	2.4	Jul 7	0.03	Sep 7, 2001
ANNUAL RUNOFF (CFSM)	1.74		1.84		1.15	
ANNUAL RUNOFF (INCHES)	23.64		25.01		15.69	
10 PERCENT EXCEEDS	64		66		44	
50 PERCENT EXCEEDS	15		17		9.0	
90 PERCENT EXCEEDS	4.5		4.8		1.6	

e Estimated



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.

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993-97, October 2000 to current year.
CHEMICAL DATA: 1993 (c), 1994-95 (e), 2001-04 (d).
MINOR ELEMENTS DATA: 1993 (a).
PESTICIDE DATA: 1993 (a), 1994 (d), 1995 (e), 2001 (d), 2002-04 (c).
ORGANIC DATA: OC--1993 (c), 1994-95 (e). PCB--1993 (a). PCN--1993 (a).
NUTRIENT DATA: 1993 (c), 1994-95 (e), 2001-04 (d).
BIOLOGICAL DATA: Bacteria--1993 (a). Benthic invertebrate--1993-95 (a). Fish community--1993-95 (a). Phytoplankton--1993 (a).
SEDIMENT DATA: 1993 (c), 1994-95 (e), 2001-04 (d).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: August 1993 to September 1997.

REMARKS.--A sampling method code of 10 indicates an equal-width increment sample, 70 indicates a grab sample.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded (water years 1994-97), 28.5°C, July 14, 15, Aug. 1, 1995; minimum (water years 1994-97), 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)
OCT													
01...	0900	8.6	10	759	9.3	87	7.9	854	10.5	12.5	201	129	30.9
DEC													
04...	1145	21	10	767	14.6	100	7.8	900	1.5	.0	219	146	40.3
JAN													
06...	1110	e30	10	757	13.3	95	7.8	1,470	.0	1.5	156	353	37.2
FEB													
04...	1100	e7.0	70	762	12.6	86	7.2	1,150	1.0	.5	184	240	39.9
MAR													
01...	1255	e23	10	763	13.2	91	7.9	1,310	.0	.0	162	289	39.9
APR													
08...	0940	35	10	751	12.6	100	7.7	911	8.0	5.0	166	167	37.5
MAY													
04...	0945	36	10	757	11.1	101	8.0	822	8.0	10.5	158	143	26.8
JUN													
07...	1040	11	10	760	8.8	89	7.9	1,030	26.0	16.5	207	181	31.9
JUL													
01...	0945	2.2	10	760	8.4	92	8.0	960	28.5	19.5	162	169	30.7
AUG													
05...	1240	16	10	752	8.5	97	8.0	976	23.0	21.5	207	160	32.5

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate 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, unfltrd mg/L (00665)	Total nitrogen, wat unf by analysis, mg/L (62855)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	alpha-HCH-d6, surrog, wat flt 0.7u GF percent recovry (91065)	Atrazine, water, fltrd, ug/L (39632)
OCT													
01...	<.04	.39	<.008	.011	.046	.81	<.006	<.006	<.006	<.004	<.005	107	<.007
DEC													
04...	.05	.71	E.005	E.003	.017	.95	<.006	<.006	<.006	<.004	<.005	102	<.007
JAN													
06...	E.03	.58	E.004	E.005	.022	.78	--	--	--	--	--	--	--
FEB													
04...	.11	.77	E.004	<.006	.016	1.08	<.006	<.006	<.006	<.004	<.005	104	<.007
MAR													
01...	.14	.61	.013	E.003	.032	.99	--	--	--	--	--	--	--
APR													
08...	<.04	.54	<.008	<.006	.015	.72	<.006	<.006	<.006	<.004	<.005	102	<.007
MAY													
04...	<.04	.30	E.005	<.006	.028	.61	<.006	E.006	<.006	<.004	<.005	105	.011
JUN													
07...	.06	.52	.028	.008	.043	.86	<.006	<.006	<.006	<.004	<.005	108	.011
JUL													
01...	<.04	.47	E.006	.013	.041	.78	<.006	E.004	<.006	<.004	<.005	100	.021
AUG													
05...	<.04	.49	E.004	.012	.044	.84	<.006	E.044	<.006	<.004	<.005	97.8	.074

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benflur-alin, water, fltrd 0.7u GF ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Diazinon-d10 surrog. wat flt 0.7u GF percent recovry (91063)	Dieldrin, water, fltrd, ug/L (39381)
OCT													
01...	<.050	<.010	<.002	E.122	<.020	<.005	<.006	<.018	<.003	<.004	.008	100	<.005
DEC													
04...	<.050	<.010	<.002	E.005	<.020	<.005	<.006	<.018	<.003	<.004	.008	140	<.005
JAN													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
04...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	<.005	124	<.005
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	<.005	121	<.005
MAY													
04...	<.050	<.010	<.002	E.073	<.020	<.005	<.006	<.018	<.003	<.004	.010	112	<.005
JUN													
07...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	<.005	106	<.005
JUL													
01...	<.050	<.010	<.002	E.185	<.020	<.005	<.006	<.018	<.003	<.004	.021	109	<.005
AUG													
05...	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018	<.003	<.004	<.005	115	<.005

Date	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethalflur-alin, water, fltrd 0.7u GF ug/L (82663)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)
OCT													
01...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
DEC													
04...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
JAN													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
04...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
MAY													
04...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
JUN													
07...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
JUL													
01...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006
AUG													
05...	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007	<.003	<.004	<.035	<.027	<.006

01356190 LISHA KILL NORTHWEST OF NISKAYUNA, NY—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Napropamide, water, fltrd 0.7u GF ug/L (82684)	p,p-' DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)
OCT													
01...	E.005	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	M	<.004	<.010	<.011
DEC													
04...	E.009	<.006	<.002	.008	<.003	<.010	<.004	<.022	<.011	E.01	<.004	<.010	<.011
JAN													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
04...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	E.01	<.004	<.010	<.011
MAR													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
08...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011
MAY													
04...	E.009	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011
JUN													
07...	E.010	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011
JUL													
01...	E.009	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	.04	<.004	<.010	<.011
AUG													
05...	.027	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.010	<.011

Date	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd 0.7u GF ug/L (82665)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	Triallate, water, fltrd 0.7u GF ug/L (82678)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Suspended sediment concentration mg/L (80154)
OCT									
01...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	14
DEC									
04...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	5
JAN									
06...	--	--	--	--	--	--	--	--	5
FEB									
04...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	7
MAR									
01...	--	--	--	--	--	--	--	--	9
APR									
08...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	6
MAY									
04...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	5
JUN									
07...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	15
JUL									
01...	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009	10
AUG									
05...	<.02	<.010	<.02	<.034	<.02	<.005	<.002	<.009	13

e Estimated daily
E Estimated
M Presence verified, not quantified