01362182 ROELIFF JANSEN KILL NEAR LINLITHGO, NY

Upper Hudson Basin
Middle Hudson Subbasin

LOCATION.--Lat 42°09′08″, long 73°50′38″ referenced to North American Datum of 1983, Columbia County, NY, Hydrologic Unit 02020006, 330 ft upstream of Dales Bridge Road bridge, 1.3 mi south of Linlithgo.

DRAINAGE AREA.--212 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous discharge measurements, water years 1955, 1991-92, 2008, 2011, annual maximum only--2008-10. March 2011 to current year.

GAGE.--Water stage recorder. Datum of gage is 49.44 ft above NGVD 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,180 ft^3/s, Aug. 28, 2011, gage height, 10.82 ft; minimum, 29 ft^3/s, Aug, 27, 28, Sept. 4, 2012, gage height, 3.02 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 13	0115	1,770	6.49
Jun 14	1245	*2,780	*7.46
Jul 1	2045	1,510	6.19
Jul 8	0100	1,650	6.36

Minimum discharge, 92 ft^3/s, Aug. 9, Sept. 30, gage height, 3.47 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01362182, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01362182.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	182	345	136	350	701	592	332	235	787	872	142	191
2	176	339	140	331	500	533	334	221	636	1,090	143	410
3	196	307	152	301	e430	490	315	211	683	783	137	427
4	200	270	156	e290	e380	448	299	198	531	578	127	332
5	205	245	150	277	e350	419	287	189	448	486	119	250
6	203	229	150	253	e330	399	276	177	402	422	108	204
7	178	215	142	245	e300	385	265	169	467	571	101	175
8	165	213	153	235	e290	392	259	164	1,040	1,200	96	155
9	157	209	167	228	e260	380	259	169	944	956	342	139
10	147	199	171	225	e290	405	287	182	793	744	735	128
11	140	188	180	220	e330	468	312	181	1,270	653	420	129
12	130	181	175	242	e310	786	317	208	1,260	545	302	147
13	121	205	167	347	293	1,520	346	194	1,490	477	260	325
14	117	245	168	447	284	1,250	316	171	2,520	442	353	298
15	124	219	168	444	284	1,040	289	157	2,130	399	283	230
16	153	206	167	429	311	803	268	155	1,660	349	243	197
17	164	204	185	417	289	702	265	144	1,280	307	204	174
18	147	198	413	389	252	622	255	132	1,090	275	183	155
19	234	190	476	335	266	610	246	131	919	257	170	142
20	587	182	409	329	280	628	480	128	763	243	157	129
21	525	176	615	315	260	561	496	122	602	236	145	121
22	376	170	833	e280	237	514	419	281	547	212	134	143
23	306	163	698	e260	232	478	387	614	483	254	124	167
24	291	158	590	e230	247	458	362	614	431	297	117	136
25	295	152	517	e230	275	434	336	670	399	242	106	123
26	267	144	463	e220	286	413	310	810	367	209	102	113
27	242	141	459	e200	413	406	290	820	342	187	155	107
28	238	143	442	e190	671	377	273	680	492	179	156	108
29	257	140	412	e190	---	341	259	600	466	187	129	101
30	388	136	395	e230	---	297	252	1,020	388	166	135	95
31	350	---	363	710	---	304	---	962	---	149	122	---
Total	7,261	6,112	9,812	9,389	9,351	17,455	9,391	10,709	25,630	13,967	6,050	5,551
Mean	234	204	317	303	334	563	313	345	854	451	195	185
Max	587	345	833	710	701	1,520	496	1,020	2,520	1,200	735	427
Min	117	136	136	190	232	297	246	122	342	149	96	95
Cfsm	1.10	0.96	1.49	1.43	1.58	2.66	1.48	1.63	4.03	2.13	0.92	0.87
In.	1.27	1.07	1.72	1.65	1.64	3.06	1.65	1.88	4.50	2.45	1.06	0.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2011 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	375	343	520	368	310	835	390	397	449	218	266	512
Max	516	482	724	434	334	1,683	674	617	854	451	549	1,256
(WY)	(2012)	(2012)	(2012)	(2012)	(2013)	(2011)	(2011)	(2011)	(2013)	(2013)	(2011)	(2011)
Min	234	204	317	303	287	257	182	230	185	53.3	54.8	95.5
(WY)	(2013)	(2013)	(2013)	(2013)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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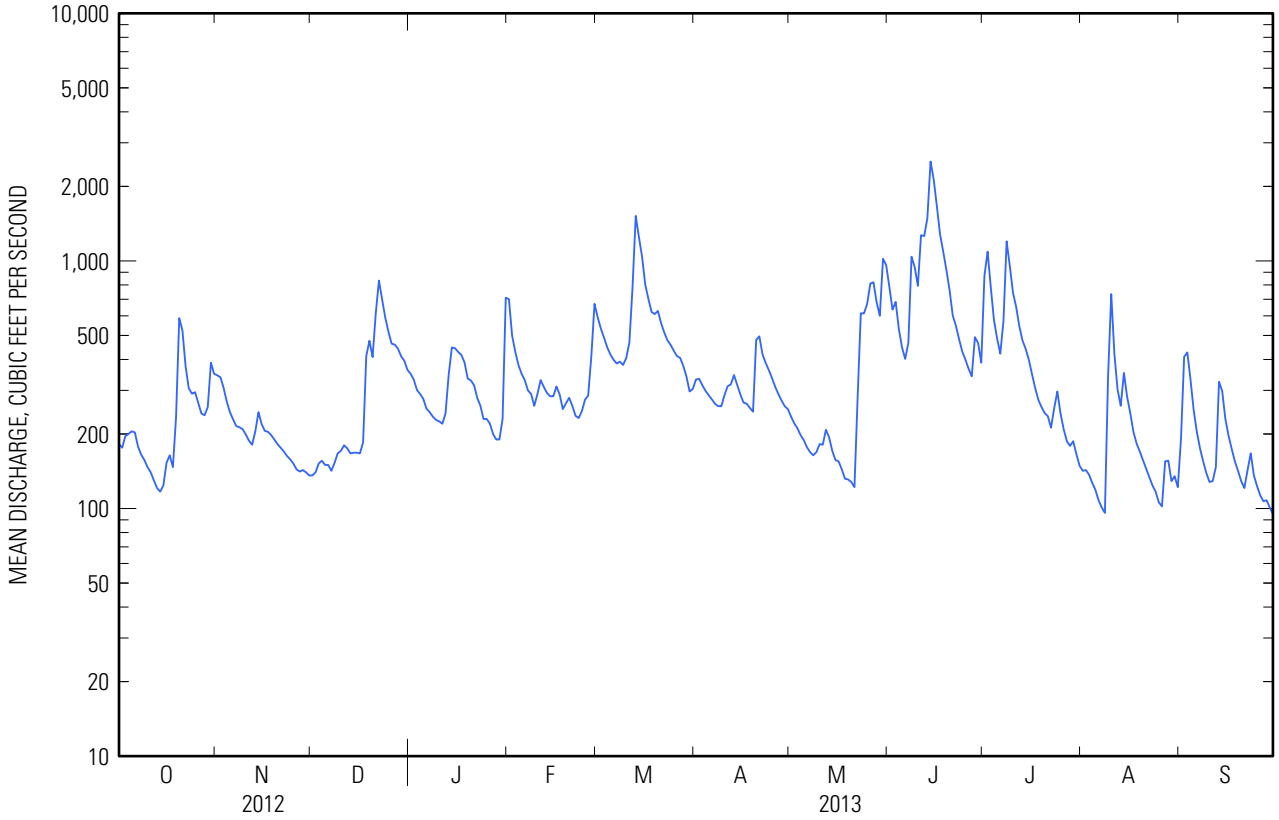
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2011 - 2013	
Annual total	77,268		130,678			
Annual mean	211		358		325	
Highest annual mean					358	2013
Lowest annual mean					292	2012
Highest daily mean	833	Dec 22	2,520	Jun 14	5,400	Mar 7, 2011
Lowest daily mean	30	Sep 4	95	Sep 30	30	Sep 4, 2012
Annual seven-day minimum	40	Sep 1	112	Sep 24	40	Sep 1, 2012
Annual runoff (cfsm)	0.996		1.69		1.53	
Annual runoff (inches)	13.56		22.93		20.83	
10 percent exceeds	396		681		621	
50 percent exceeds	188		275		260	
90 percent exceeds	46		140		78	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--
SEDIMENT DATA: 2011-13 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 2011 to current year.

REMARKS.--Point samples are collected using an automatic sampler with teflon-lined sample tubing. Tubing is housed in a 2 inch diameter galvanized steel pipe extending 5 ft from the old bridge abutment on the right bank. A sampling method code of "SS Pumping" indicates suspended sediment sampling using a pumping mechanism. Turbidity data are collected every 15 minutes using an in situ turbidity probe located 6 ft upstream of the automatic sampler intake tubing. Daily suspended-sediment load and concentration are derived from a regression equation relating turbidity to suspended-sediment concentration.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 452 mg/L, Mar. 7, 2011; minimum daily mean, <0.5 mg/L, Nov. 30, 2012.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 6,670 tons, Mar. 7, 2011; minimum daily, 0.13 tons, Nov. 30, 2012.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 162 mg/L, Mar. 13; minimum daily mean, <0.5 mg/L, Nov. 30.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 728 tons, June 14; minimum daily, <0.18 tons, Nov. 30.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
[mg/L, milligrams per liter]

Date	Sample start time	Sampling method (82398)	Suspended sediment concen-tration, mg/L (80154)
03-13-2013	**0640**	SS Pumping	180
03-13-2013	**1845**	SS Pumping	108
03-14-2013	**0810**	SS Pumping	79
03-14-2013	**1830**	SS Pumping	53
03-15-2013	**0715**	SS Pumping	41
05-06-2013	**1145**	SS Pumping	3
05-23-2013	**1805**	SS Pumping	60
05-25-2013	**1345**	SS Pumping	36
05-25-2013	**2000**	SS Pumping	71
05-30-2013	**1025**	SS Pumping	127
06-07-2013	**1730**	SS Pumping	25
06-08-2013	**0945**	SS Pumping	145
06-12-2013	**0840**	SS Pumping	48
06-14-2013	**1445**	SS Pumping	145
06-14-2013	**1600**	SS Pumping	112
06-15-2013	**0415**	SS Pumping	80
06-15-2013	**0530**	SS Pumping	70
06-15-2013	**0800**	SS Pumping	73
06-15-2013	**1745**	SS Pumping	60
06-16-2013	**0545**	SS Pumping	56
06-16-2013	**0930**	SS Pumping	48
06-16-2013	**1500**	SS Pumping	47
06-28-2013	**0820**	SS Pumping	151

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SUSPENDED SEDIMENT CONCENTRATION, WATER, UNFILTERED, ESTIMATED BY REGRESSION EQUATION, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[e, estimated; <, less than]

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	7	3.4	e38	e35	0.5	0.19	23	22	94	185	26	43
2	6	2.6	e25	e23	0.8	0.30	e21	e19	e37	e50	17	24
3	7	3.6	e13	e11	1	0.43	e19	e15	e26	e31	14	19
4	e15	e8.4	e6	e4.5	1	0.44	e22	e20	e19	e20	12	14
5	e12	e6.4	e3	e2.1	1	0.40	e18	e14	e16	e15	11	12
6	7	4.0	e1	e0.90	0.8	0.33	18	13	14	e13	10	11
7	4	1.9	e2	e1.1	0.5	0.21	16	11	13	e11	9	9.0
8	3	1.4	e2	e1.0	1	0.46	15	9.3	12	e9.9	8	8.5
9	2	0.95	e2	e0.90	1	0.51	14	8.7	e14	e11	10	10
10	2	0.76	4	2.3	2	0.86	13	7.7	e11	e8.9	13	14
11	2	0.63	4	2.2	2	0.89	12	7.3	e15	e13	16	20
12	e1	e0.46	3	1.6	0.9	0.45	15	10	14	e12	130	377
13	e0.6	e0.19	5	2.9	0.8	0.38	27	26	15	12	162	686
14	e2	e0.76	e11	e7.1	0.6	0.27	29	35	12	9.5	78	266
15	e2	e0.60	4	2.7	0.4	0.18	20	24	13	10	51	144
16	2	0.76	2	1.3	0.5	0.23	15	17	13	11	36	80
17	e4	e1.8	3	1.6	2	1.2	13	15	11	8.7	27	52
18	e0.9	e0.37	2	1.3	59	69	13	14	e11	e7.3	24	40
19	50	45	2	1.1	29	38	12	11	e12	e8.3	20	33
20	e96	e151	2	1.1	14	15	11	9.9	12	9.0	21	36
21	e60	e87	2	1.0	e80	e162	11	9.3	10	7.2	19	28
22	e29	e30	2	0.91	e80	e181	e12	e9.3	9	5.8	17	23
23	e16	e13	2	0.86	e49	e93	e12	e8.6	7	4.7	15	20
24	e13	e10	2	0.88	e36	e57	e29	e19	8	5.6	14	18
25	e15	e12	2	0.80	e28	e39	e16	e11	9	6.7	12	15
26	e13	e9.4	2	0.74	22	28	e12	e8.4	9	7.2	11	13
27	e10	e6.7	1	0.43	e21	e27	e12	e7.7	34	45	11	12
28	e12	e7.6	0.6	0.22	22	26	11	e6.7	57	103	10	10
29	e13	e9.5	0.5	0.19	23	25	20	e13	---	---	10	9.1
30	e40	e42	<0.5	<0.18	24	26	24	e16	---	---	9	7.2
31	e41	e39	---	---	23	22	160	337	---	---	9	7.4
Total	---	501.18	---	110.91	---	815.73	---	754.9	---	640.8	---	2,061.2

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SUSPENDED SEDIMENT CONCENTRATION, WATER, UNFILTERED, ESTIMATED BY REGRESSION EQUATION, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

[e, estimated; <, less than]

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	9	8.1	5	2.9	39	83	99	327	7	2.5	14	11
2	8	7.6	4	2.5	35	60	78	237	6	2.3	89	100
3	8	6.4	4	2.3	44	80	39	83	6	2.3	51	59
4	8	6.1	4	2.2	32	47	27	43	6	2.0	27	25
5	7	5.6	e4	e1.9	27	32	21	28	6	1.9	16	11
6	7	5.1	e5	e2.6	24	26	17	19	5	1.5	12	6.5
7	6	4.6	6	2.9	32	42	120	267	5	1.4	9	4.5
8	6	4.5	7	2.9	79	226	134	473	5	1.3	7	2.8
9	7	4.6	7	3.0	46	118	52	135	71	129	6	2.1
10	7	5.8	7	3.3	37	79	36	72	91	191	5	1.8
11	7	6.2	14	6.7	68	236	28	49	33	39	5	1.7
12	9	7.9	11	6.0	52	179	20	30	21	17	7	2.8
13	8	7.4	7	4.0	84	383	16	21	24	17	30	27
14	7	5.8	6	2.6	107	728	13	16	32	31	21	18
15	6	4.7	5	2.2	70	402	11	12	19	15	10	6.2
16	6	4.2	6	2.5	53	237	9	8.2	14	9.0	8	4.1
17	6	4.2	6	2.5	43	150	7	5.8	10	5.8	6	3.0
18	6	4.0	6	2.1	40	116	6	4.4	8	4.1	6	2.4
19	7	4.5	6	2.0	34	85	5	3.7	7	3.2	5	2.0
20	21	26	6	2.1	30	61	5	3.4	6	2.7	5	1.6
21	12	17	7	2.3	25	40	6	3.6	5	2.0	5	1.5
22	8	9.3	36	39	22	32	7	4.2	5	1.8	17	6.6
23	7	7.3	86	141	19	25	27	19	5	1.6	7	3.1
24	6	6.2	51	85	18	21	13	11	5	1.5	5	1.9
25	6	5.8	49	92	14	15	8	5.0	4	1.2	5	1.5
26	6	5.0	57	124	12	12	6	3.5	5	1.4	4	1.3
27	5	4.2	48	106	10	9.8	6	3.1	14	5.5	4	1.3
28	5	3.8	34	63	27	35	7	3.3	6	2.7	4	1.2
29	5	3.4	33	54	17	21	7	3.3	5	1.8	4	0.97
30	5	3.1	102	293	12	13	7	2.9	5	1.8	4	0.90
31	---	---	54	140	---	---	6	2.5	6	1.9	---	---
Total	---	198.4	---	1,198.5	---	3,593.8	---	1,898.9	---	502.2	---	312.77

	Total suspended sediment discharge (tons)
Year	12,589.29