

Water-Data Report 2007

05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF

Wisconsin Basin
Upper Wisconsin Subbasin

LOCATION.--Lat 45°52'26", long 89°39'51" referenced to North American Datum of 1927, in NE ¼ NE ¼ NW ¼ sec.18, T.39 N., R.7 E., Oneida County, WI, Hydrologic Unit 07070001, at the upstream right wing abutment on the Highway 47 bridge, approximately 2.4 miles southeast of junction with Highway 51.

DRAINAGE AREA.--28 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2005 to October 2007 (discontinued).

GAGE.--Water-stage recorder and velocity meter. Elevation of gage is 1590 ft from GPS.

REMARKS.--Records are fair.

05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.7	14	16	21	15	14	23	17	16	5.4	4.2	3.3
2	6.5	15	16	21	15	17	25	14	17	6.0	4.2	5.1
3	5.7	13	16	20	15	17	25	15	17	6.9	2.0	2.8
4	10	12	17	21	16	18	25	14	16	6.9	2.0	2.4
5	14	13	16	20	16	17	26	14	13	7.1	3.5	3.5
6	16	12	16	20	17	18	25	14	13	5.5	2.5	5.0
7	15	14	17	19	16	18	24	14	13	5.2	2.0	5.6
8	16	14	17	19	16	16	23	13	16	5.2	1.1	3.4
9	12	13	17	19	15	17	23	10	12	5.4	0.70	3.7
10	8.8	12	17	19	16	18	22	16	12	5.9	1.6	4.2
11	7.9	11	16	18	16	17	19	13	12	6.3	2.0	6.9
12	7.8	12	17	17	14	18	17	14	11	7.2	1.4	4.1
13	11	11	19	17	15	18	19	16	9.4	6.2	1.1	5.4
14	9.9	12	19	18	15	17	18	13	9.5	7.5	2.2	5.7
15	8.6	16	18	18	14	17	18	16	9.7	4.8	1.9	4.5
16	9.1	14	18	17	15	16	18	13	8.3	4.8	3.5	5.5
17	9.5	12	19	17	14	15	17	13	7.9	3.1	1.7	5.6
18	12	12	18	17	14	17	14	11	12	3.6	1.3	4.7
19	13	14	18	17	15	17	15	16	13	3.4	1.3	6.3
20	12	13	18	17	15	17	16	13	13	2.3	1.4	3.5
21	12	12	17	17	17	16	15	13	10	3.6	1.8	3.5
22	11	12	18	18	13	19	16	12	8.3	5.7	1.5	6.6
23	12	12	21	18	16	18	14	16	10	5.4	1.5	8.3
24	11	12	21	15	12	18	13	16	8.6	2.9	0.80	4.9
25	11	13	19	17	14	17	11	23	8.9	2.3	1.7	6.5
26	12	13	20	17	15	19	11	19	7.5	1.7	2.3	4.6
27	12	14	19	17	18	17	9.9	22	9.0	1.9	2.6	5.1
28	12	14	19	17	14	18	13	19	6.2	2.2	2.3	4.2
29	12	16	19	15	---	19	15	19	6.3	3.8	1.8	3.1
30	9.1	16	19	15	---	17	14	17	6.0	3.4	2.4	5.4
31	14	---	19	15	---	20	---	18	---	3.3	2.7	---
Total	340.6	393	556	553	423	537	543.9	473	331.6	144.9	63.00	143.4
Mean	11.0	13.1	17.9	17.8	15.1	17.3	18.1	15.3	11.1	4.67	2.03	4.78
Max	16	16	21	21	18	20	26	23	17	7.5	4.2	8.3
Min	5.7	11	16	15	12	14	9.9	10	6.0	1.7	0.70	2.4
Cfsm	0.39	0.47	0.64	0.64	0.54	0.62	0.65	0.54	0.39	0.17	0.07	0.17
In.	0.45	0.52	0.74	0.73	0.56	0.71	0.72	0.63	0.44	0.19	0.08	0.19

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	13.8	15.1	21.2	19.3	17.9	19.0	20.4	19.5	12.5	7.60	5.65	5.51
Max	22.4	17.2	24.5	20.7	20.7	20.7	22.6	23.7	13.9	10.5	9.27	6.25
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	11.0	13.1	17.9	17.8	15.1	17.3	18.1	15.3	11.1	4.67	2.03	4.78
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)

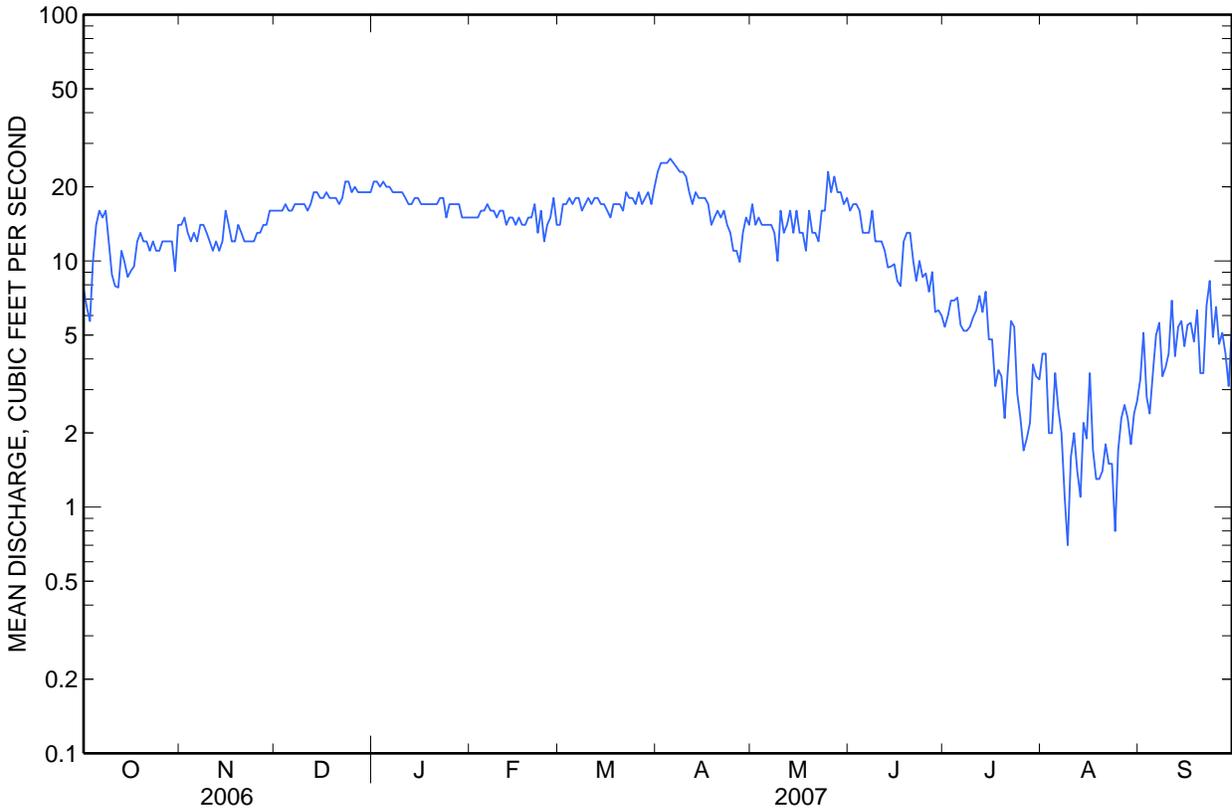
05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued

SUMMARY STATISTICS

	Calendar Year 2006	Water Year 2007	Water Years 2006 - 2007
Annual total	5,784.7	4,502.40	
Annual mean	15.8	12.3	14.8
Highest annual mean			17.4 2006
Lowest annual mean			12.3 2007
Highest daily mean	29 May 16 ^a	26 Apr 5	37 Dec 2, 2005
Lowest daily mean	3.9 Sep 13	0.70 Aug 9	0.70 Aug 9, 2007
Annual seven-day minimum	4.8 Sep 8	1.4 Aug 18	1.4 Aug 18, 2007
Maximum peak flow		^b 63 Apr 22	^b 63 Apr 22, 2007
Maximum peak stage		3.59 May 24	3.59 May 24, 2007
Annual runoff (cfsm)	0.566	0.441	0.529
Annual runoff (inches)	7.69	5.98	7.18
10 percent exceeds	23	19	23
50 percent exceeds	16	14	16
90 percent exceeds	7.6	3.1	5.1

^a Also occurred May 17.

^b Gage height, 3.46 ft.



05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.0	---	---	---	---	---	---	---	---	---	---	---
2	9.3	---	---	---	---	---	---	---	---	---	---	---
3	8.8	---	---	---	---	---	---	---	---	---	---	---
4	7.0	---	---	---	---	---	---	---	---	---	---	---
5	7.3	---	---	---	---	---	---	---	---	---	---	---
6	9.3	---	---	---	---	---	---	---	---	---	---	---
7	13	---	---	---	---	---	---	---	---	---	---	---
8	14	---	---	---	---	---	---	---	---	---	---	---
9	18	---	---	---	---	---	---	---	---	---	---	---
10	15	---	---	---	---	---	---	---	---	---	---	---
11	13	---	---	---	---	---	---	---	---	---	---	---
12	14	---	---	---	---	---	---	---	---	---	---	---
13	14	---	---	---	---	---	---	---	---	---	---	---
14	15	---	---	---	---	---	---	---	---	---	---	---
15	15	---	---	---	---	---	---	---	---	---	---	---
16	16	---	---	---	---	---	---	---	---	---	---	---
17	18	---	---	---	---	---	---	---	---	---	---	---
18	18	---	---	---	---	---	---	---	---	---	---	---
19	22	---	---	---	---	---	---	---	---	---	---	---
20	26	---	---	---	---	---	---	---	---	---	---	---
21	24	---	---	---	---	---	---	---	---	---	---	---
22	22	---	---	---	---	---	---	---	---	---	---	---
23	23	---	---	---	---	---	---	---	---	---	---	---
24	20	---	---	---	---	---	---	---	---	---	---	---
25	20	---	---	---	---	---	---	---	---	---	---	---
26	20	---	---	---	---	---	---	---	---	---	---	---
27	19	---	---	---	---	---	---	---	---	---	---	---
28	18	---	---	---	---	---	---	---	---	---	---	---
29	19	---	---	---	---	---	---	---	---	---	---	---
30	17	---	---	---	---	---	---	---	---	---	---	---
31	18	---	---	---	---	---	---	---	---	---	---	---
Total	497.7	---	---	---	---	---	---	---	---	---	---	---
Mean	16.1	---	---	---	---	---	---	---	---	---	---	---
Max	26	---	---	---	---	---	---	---	---	---	---	---
Min	5.0	---	---	---	---	---	---	---	---	---	---	---
Cfsm	0.57	---	---	---	---	---	---	---	---	---	---	---
In.	0.66	---	---	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.8	14.8	21.2	19.3	17.9	19.0	20.4	19.5	12.5	7.60	5.65	5.51
Max	22.4	17.2	24.5	20.7	20.7	20.7	22.6	23.7	13.9	10.5	9.27	6.25
(WY)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	11.0	12.6	17.9	17.8	15.1	17.3	18.1	15.3	11.1	4.67	2.03	4.78
(WY)	(2007)	(2008)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)

05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued

SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008	Water Years 2006 - 2008
Annual total	3,836.50	623.7	
Annual mean	12.2	15.2	14.8
Highest annual mean			17.4 2006
Lowest annual mean			12.3 2007
Highest daily mean	26 Apr 5	26 Oct 20	37 Dec 2, 2005
Lowest daily mean	0.70 Aug 9	5.0 Oct 1	0.70 Aug 9, 2007
Annual seven-day minimum	1.4 Aug 18	8.5 Oct 1	1.4 Aug 18, 2007
Maximum peak flow		^a 51 Oct 31	^b 63 Apr 22, 2007
Maximum peak stage		3.32 Oct 19 ^c	3.59 May 24, 2007
Annual runoff (cfsm)	0.436	0.543	0.530
Annual runoff (inches)	5.10	0.83	7.19
10 percent exceeds	19	22	23
50 percent exceeds	14	15	15
90 percent exceeds	2.5	8.9	5.2

^a Gage height, 3.31 ft.

^b Gage height, 3.46 ft.

^c Also occurred Oct. 31.

05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--October 2005 to October 2007 (discontinued).

PERIOD OF DAILY RECORD.--

TOTAL-PHOSPHORUS DISCHARGE: October 2005 to October 2007 (discontinued).

REMARKS.--Total-phosphorus loads generally good. For periods during which discharge records were estimated, load estimates are poor.

EXTREMES FOR PERIOD OF RECORD.--

TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 8.45 lb, December 2, 2005; minimum daily, .14 lb, August 24, 2007.

EXTREMES FOR CURRENT YEAR.--(October 1, 2006 to October 31, 2007)

TOTAL-PHOSPHORUS DISCHARGE: Maximum daily, 3.91 lb, May 25; minimum daily, .14 lb, August 24.

**PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.58	1.71	2.04	3.21	2.85	2.48	3.40	2.97	2.74	0.87	0.79	0.57
2	1.33	1.82	2.02	3.27	2.93	2.91	3.60	2.49	2.82	0.97	0.82	0.88
3	1.14	1.56	2.12	3.12	2.85	2.89	3.55	2.72	2.86	1.12	0.39	0.49
4	1.98	1.53	2.23	3.27	3.06	3.10	3.66	2.65	2.70	1.12	0.41	0.42
5	2.66	1.64	2.10	3.09	3.06	2.87	3.75	2.66	2.25	1.15	0.73	0.59
6	3.00	1.47	2.11	3.11	3.24	2.98	3.60	2.62	2.14	0.90	0.55	0.83
7	2.85	1.70	2.24	2.97	3.12	2.95	3.44	2.74	2.26	0.85	0.43	0.91
8	2.85	1.76	2.23	3.13	3.19	2.65	3.30	2.51	2.74	0.82	0.24	0.53
9	2.22	1.61	2.14	3.08	2.98	2.88	3.21	1.96	2.01	0.85	0.15	0.56
10	1.56	1.55	2.15	3.10	2.98	2.91	3.14	2.92	1.95	0.92	0.34	0.61
11	1.38	1.43	2.11	2.97	3.02	2.71	2.71	2.46	1.99	0.96	0.41	0.97
12	1.34	1.56	2.25	2.77	2.67	2.91	2.42	2.63	1.84	1.09	0.29	0.55
13	1.89	1.34	2.49	2.92	2.77	2.93	2.68	2.94	1.57	0.91	0.23	0.71
14	1.65	1.50	2.50	2.96	2.78	2.78	2.62	2.30	1.59	1.09	0.43	0.73
15	1.41	2.03	2.45	2.98	2.58	2.66	2.65	2.80	1.62	0.70	0.36	0.55
16	1.48	1.77	2.44	2.93	2.71	2.47	2.57	2.27	1.39	0.67	0.66	0.64
17	1.51	1.58	2.65	2.94	2.56	2.31	2.50	2.33	1.32	0.43	0.33	0.64
18	1.84	1.52	2.46	3.01	2.59	2.62	2.04	1.85	3.31	0.49	0.25	0.52
19	1.97	1.74	2.47	2.92	2.80	2.70	2.21	2.68	3.35	0.46	0.25	0.67
20	1.89	1.67	2.45	2.96	2.73	2.60	2.35	2.21	2.64	0.32	0.25	0.36
21	1.74	1.53	2.39	2.94	3.04	2.41	2.25	2.18	1.70	0.51	0.33	0.37
22	1.68	1.61	2.54	3.25	2.33	2.92	2.52	2.14	1.35	0.83	0.27	0.70
23	1.74	1.55	2.93	3.20	2.80	2.76	2.28	2.69	1.62	0.80	0.27	0.91
24	1.65	1.50	3.00	2.76	2.09	2.65	2.01	2.82	1.40	0.44	0.14	0.54
25	1.60	1.70	2.73	3.02	2.51	2.55	1.83	3.91	1.44	0.37	0.30	0.73
26	1.64	1.72	2.92	3.00	2.66	2.87	1.90	3.22	1.21	0.27	0.41	0.53
27	1.69	1.82	2.86	3.11	3.20	2.53	1.67	3.76	1.45	0.32	0.46	0.60
28	1.67	1.80	2.81	3.05	2.44	2.64	2.23	3.26	1.01	0.37	0.40	0.51
29	1.64	2.08	2.90	2.85	---	2.84	2.60	3.25	1.02	0.66	0.31	0.38
30	1.19	2.12	2.82	2.70	---	2.43	2.54	2.94	0.97	0.61	0.41	0.67
31	1.74	---	2.91	2.75	---	2.99	---	3.04	---	0.61	0.48	---
Total	55.51	49.92	76.46	93.34	78.54	84.90	81.23	83.92	58.26	22.48	12.09	18.67

05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued

Water Year 2007	
Total	715.32

**PHOSPHORUS, WATER, UNFILTERED, POUNDS PER DAY
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.62	---	---	---	---	---	---	---	---	---	---	---
2	1.20	---	---	---	---	---	---	---	---	---	---	---
3	1.17	---	---	---	---	---	---	---	---	---	---	---
4	0.95	---	---	---	---	---	---	---	---	---	---	---
5	1.02	---	---	---	---	---	---	---	---	---	---	---
6	1.30	---	---	---	---	---	---	---	---	---	---	---
7	1.75	---	---	---	---	---	---	---	---	---	---	---
8	1.88	---	---	---	---	---	---	---	---	---	---	---
9	2.45	---	---	---	---	---	---	---	---	---	---	---
10	2.00	---	---	---	---	---	---	---	---	---	---	---
11	1.72	---	---	---	---	---	---	---	---	---	---	---
12	1.79	---	---	---	---	---	---	---	---	---	---	---
13	1.85	---	---	---	---	---	---	---	---	---	---	---
14	1.87	---	---	---	---	---	---	---	---	---	---	---
15	1.95	---	---	---	---	---	---	---	---	---	---	---
16	1.98	---	---	---	---	---	---	---	---	---	---	---
17	2.22	---	---	---	---	---	---	---	---	---	---	---
18	2.18	---	---	---	---	---	---	---	---	---	---	---
19	2.63	---	---	---	---	---	---	---	---	---	---	---
20	3.09	---	---	---	---	---	---	---	---	---	---	---
21	2.80	---	---	---	---	---	---	---	---	---	---	---
22	2.58	---	---	---	---	---	---	---	---	---	---	---
23	2.63	---	---	---	---	---	---	---	---	---	---	---
24	2.27	---	---	---	---	---	---	---	---	---	---	---
25	2.32	---	---	---	---	---	---	---	---	---	---	---
26	2.27	---	---	---	---	---	---	---	---	---	---	---
27	2.10	---	---	---	---	---	---	---	---	---	---	---
28	1.97	---	---	---	---	---	---	---	---	---	---	---
29	2.10	---	---	---	---	---	---	---	---	---	---	---
30	1.84	---	---	---	---	---	---	---	---	---	---	---
31	1.74	---	---	---	---	---	---	---	---	---	---	---
Total	60.24	---	---	---	---	---	---	---	---	---	---	---

Water Year 2008	
Total	60.24

05392083 LINK CREEK (MINOCQUA THOROUGHFARE) AT STATE HIGHWAY 47 NEAR WOODRUFF—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 2

Date	Time	Dis-charge, cfs (00060)	Sam-pling method, code (82398)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)
Oct					
05...	1555	14	10	--	.035
26...	1030	12	10	--	.026
Nov					
01...	1548	14	10	--	.023
21...	1345	12	10	--	.024
Dec					
10...	1548	17	10	--	.024
Jan					
17...	1100	17	10	--	.032
Feb					
07...	1300	16	30	--	.036
Mar					
12...	1603	18	10	--	.030
16...	1040	16	10	--	.029
Apr					
09...	1658	23	10	--	.026
18...	1517	14	10	--	.027
May					
06...	1551	14	10	--	.036
18...	1500	11	10	--	.032
Jun					
08...	1340	16	10	--	.031
18...	1430	12	10	.027	.061
Jul					
07...	1618	5.2	10	--	.030
19...	1100	3.4	10	.014	.025
Aug					
06...	1720	2.5	10	--	.040
22...	1600	1.5	10	.020	.033
Sep					
05...	1555	3.5	10	--	.032
20...	1300	3.5	10	--	.019

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

Date	Time	Dis-charge, cfs (00060)	Sam-pling method, code (82398)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)
Oct					
05...	1711	7.3	10	--	.026
30...	1130	17	10	.015	.020