

Water-Data Report 2012

05548170 NORTH BRANCH NIPPERSINK CREEK AT GENOA CITY, WI

Upper Illinois Basin
Upper Fox Subbasin

LOCATION.--Lat 42°29'50", long 88°19'58" referenced to North American Datum of 1927, in SW ¼ S ¼ E ¼ sec.35, T.1 N., R.18 E., Walworth County, WI, Hydrologic Unit 07120006.

DRAINAGE AREA.--42.90 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2011 to September 2012.

GAGE.--Water-stage recorder. Elevation of gage is 812.63 ft above NAVD of 1988, from Wisconsin Department of Transportation benchmark.

REMARKS.--Records fair. Gage-height telemeter at station.

05548170 NORTH BRANCH NIPPERSINK CREEK AT GENOA CITY, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	52	72	42	29	52	22
2	---	---	---	---	---	---	52	70	40	29	53	21
3	---	---	---	---	---	---	48	63	39	29	84	21
4	---	---	---	---	---	---	51	60	38	29	72	23
5	---	---	---	---	---	---	47	56	35	29	59	21
6	---	---	---	---	---	---	44	55	33	28	58	20
7	---	---	---	---	---	---	41	52	33	27	59	20
8	---	---	---	---	---	---	57	50	32	26	65	20
9	---	---	---	---	---	---	60	48	78	25	68	19
10	---	---	---	---	---	---	56	47	73	26	60	19
11	---	---	---	---	---	---	54	49	61	28	47	19
12	---	---	---	---	---	84	48	53	51	28	41	19
13	---	---	---	---	---	76	46	50	44	25	45	19
14	---	---	---	---	---	72	44	48	40	24	52	18
15	---	---	---	---	---	69	45	51	40	23	44	18
16	---	---	---	---	---	71	75	44	41	23	40	18
17	---	---	---	---	---	74	76	42	37	23	37	19
18	---	---	---	---	---	78	70	41	35	22	36	20
19	---	---	---	---	---	69	81	41	34	22	34	23
20	---	---	---	---	---	84	121	40	34	21	38	21
21	---	---	---	---	---	153	94	39	35	21	41	20
22	---	---	---	---	---	112	82	39	45	60	37	19
23	---	---	---	---	---	135	111	57	40	133	34	20
24	---	---	---	---	---	115	94	47	38	93	32	20
25	---	---	---	---	---	92	82	51	35	58	29	22
26	---	---	---	---	---	82	102	58	34	44	27	35
27	---	---	---	---	---	72	125	47	34	102	26	57
28	---	---	---	---	---	67	107	45	32	186	24	67
29	---	---	---	---	---	60	89	51	30	123	24	49
30	---	---	---	---	---	58	79	62	29	80	23	42
31	---	---	---	---	---	55	---	49	---	61	24	---
Total	---	---	---	---	---	1,678	2,133	1,577	1,212	1,477	1,365	751
Mean	---	---	---	---	---	83.9	71.1	50.9	40.4	47.6	44.0	25.0
Max	---	---	---	---	---	153	125	72	78	186	84	67
Min	---	---	---	---	---	55	41	39	29	21	23	18
Med	---	---	---	---	---	75	65	50	38	28	41	20
Ac-ft	---	---	---	---	---	3,330	4,230	3,130	2,400	2,930	2,710	1,490
Cfsm	---	---	---	---	---	1.96	1.66	1.19	0.94	1.11	1.03	0.58
In.	---	---	---	---	---	1.46	1.85	1.37	1.05	1.28	1.18	0.65

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

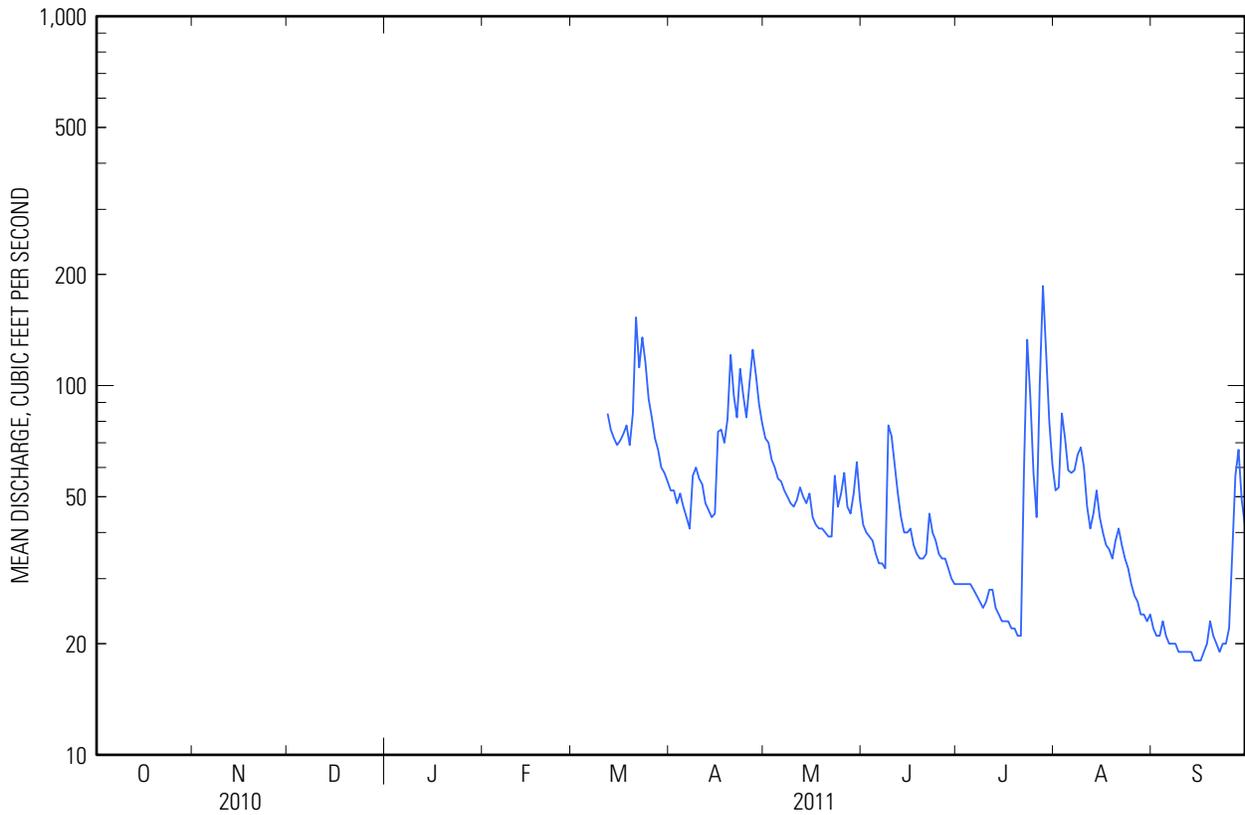
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	83.9	71.1	50.9	40.4	47.6	44.0	25.0
Max	---	---	---	---	---	83.9	71.1	50.9	40.4	47.6	44.0	25.0
(WY)	(---)	(---)	(---)	(---)	(---)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	---	---	---	---	---	83.9	71.1	50.9	40.4	47.6	44.0	25.0
(WY)	(---)	(---)	(---)	(---)	(---)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)

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SUMMARY STATISTICS

Water Year 2011 (March to September)		
Annual total	10,193	
Annual mean	50.2	
Highest daily mean	186	Jul 28
Lowest daily mean	18	Sep 14 ^a
Annual seven-day minimum	19	Sep 10
Maximum peak flow	205	Jul 28
Maximum peak stage	3.52	Jul 28
Instantaneous low flow	16	Sep 14
Annual runoff (ac-ft)	20,220	
Annual runoff (cfsm)	1.17	
Annual runoff (inches)	8.84	
10 percent exceeds	84	
50 percent exceeds	44	
90 percent exceeds	21	

^a Also occurred Sept 15, 16.



05548170 NORTH BRANCH NIPPERSINK CREEK AT GENOA CITY, WI—Continued

**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	37	29	36	51	57	99	53	39	27	12	8.9	6.9
2	33	27	35	46	51	74	51	37	25	12	8.7	6.9
3	30	44	41	43	46	69	46	36	23	12	8.5	7.0
4	28	48	70	41	44	62	44	35	22	12	8.4	7.0
5	27	41	66	39	43	56	42	34	21	11	8.7	7.4
6	25	38	56	39	41	58	40	49	20	11	8.2	7.4
7	24	35	51	39	40	97	39	87	20	11	8.1	7.3
8	24	46	46	38	38	98	38	63	19	10	8.2	7.7
9	24	95	44	37	38	81	37	52	19	9.9	8.6	8.2
10	24	130	41	36	37	68	36	46	18	9.8	9.6	7.8
11	24	82	39	38	34	64	35	42	18	9.7	8.5	7.5
12	24	65	39	38	36	94	35	39	19	9.7	8.1	7.3
13	28	57	40	37	33	179	35	37	18	10	8.7	6.7
14	34	50	52	36	33	106	34	33	17	9.9	9.0	7.4
15	31	45	74	36	34	89	60	31	16	9.8	8.4	7.6
16	27	41	65	36	36	78	62	30	16	9.6	9.2	7.4
17	27	37	56	37	37	72	51	29	19	9.5	8.6	7.3
18	26	36	52	34	36	68	44	27	17	10	8.0	7.3
19	27	36	50	27	34	65	44	27	16	16	7.9	7.4
20	29	36	49	19	33	62	55	28	15	13	7.8	7.0
21	29	35	49	30	34	58	51	32	15	11	7.7	7.5
22	28	35	48	34	33	56	45	27	14	11	7.6	8.3
23	28	35	44	40	34	60	41	26	14	11	7.2	7.9
24	31	34	42	44	38	62	39	25	14	11	7.1	8.4
25	45	33	40	39	35	58	38	25	13	11	6.9	7.8
26	35	34	39	38	35	53	38	26	13	10	7.4	8.0
27	33	44	39	39	37	50	36	26	13	9.9	7.7	7.7
28	31	43	38	40	35	49	37	24	13	9.7	7.4	7.7
29	31	43	38	38	78	45	36	24	14	9.4	7.2	7.7
30	31	38	42	37	---	47	41	24	13	9.4	7.0	7.8
31	31	---	54	42	---	46	---	25	---	9.3	6.8	---
Total	906	1,392	1,475	1,168	1,140	2,223	1,283	1,085	521	330.6	250.1	225.3
Mean	29.2	46.4	47.6	37.7	39.3	71.7	42.8	35.0	17.4	10.7	8.07	7.51
Max	45	130	74	51	78	179	62	87	27	16	9.6	8.4
Min	24	27	35	19	33	45	34	24	13	9.3	6.8	6.7
Med	28	39	44	38	36	64	40	31	17	10	8.1	7.5
Ac-ft	1,800	2,760	2,930	2,320	2,260	4,410	2,540	2,150	1,030	656	496	447
Cfsm	0.68	1.08	1.11	0.88	0.92	1.67	1.00	0.82	0.40	0.25	0.19	0.18
In.	0.79	1.21	1.28	1.01	0.99	1.93	1.11	0.94	0.45	0.29	0.22	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2011 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	29.2	46.4	47.6	37.7	39.3	76.5	56.9	42.9	28.9	29.2	26.0	16.3
Max	29.2	46.4	47.6	37.7	39.3	83.9	71.1	50.9	40.4	47.6	44.0	25.0
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	29.2	46.4	47.6	37.7	39.3	71.7	42.8	35.0	17.4	10.7	8.07	7.51
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 2011 - 2012	
Annual total	13,966		11,999.0			
Annual mean	47.3		32.8		39.0	
Highest annual mean					50.2	2011
Lowest annual mean					32.8	2012
Highest daily mean	186	Jul 28	179	Mar 13	186	Jul 28, 2011
Lowest daily mean	18	Sep 14 ^a	6.7	Sep 13	6.7	Sep 13, 2012
Annual seven-day minimum	19	Sep 10	7.0	Aug 29	7.0	Aug 29, 2012
Maximum peak flow			203	Mar 13	205	Jul 28, 2011
Maximum peak stage			3.52	Mar 13	3.52	Jul 28, 2011
Instantaneous low flow			6.0	Sep 13	6.0	Sep 13, 2012
Annual runoff (ac-ft)	27,700		23,800		28,260	
Annual runoff (cfsm)	1.10		0.764		0.909	
Annual runoff (inches)	12.11		10.40		12.35	
10 percent exceeds	79		57		70	
50 percent exceeds	41		34		36	
90 percent exceeds	23		7.8		8.7	

^a Also occurred Sept 15, 16.

