

Water-Data Report 2012

05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL

Upper Illinois Basin
Upper Fox Subbasin

LOCATION.--Lat 42°24'52", long 88°26'30" referenced to North American Datum of 1983, in SW ¼ SW ¼ SE ¼ sec.32, T.46 N., R.7 E., McHenry County, IL, Hydrologic Unit 07120006, at bridge on Thayer Road, ¼ mi west of intersection of Rte. 47 and Thayer Road, and at mile 25.8.

DRAINAGE AREA.--24.66 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.—

SURFACE-WATER DISCHARGE AND STAGE

DISCHARGE: March 2011 to current.

STAGE: March 2011 to current.

PARTIAL RECORD: Annual maximum, water years 1965 - 1978.

GAGE.--Water-stage recorder and satellite telemeter. Datum of gage is 858.94 ft NAVD 1988. Prior to 2011, at site 0.6 mi downstream, at datum 862.55 ft NGVD of 1929.

REMARKS.--WY 2011: Records good.

WY 2012: Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--

SURFACE-WATER DISCHARGE AND STAGE: Maximum discharge, 406 ft³/s, July 23, 2011, gage height, 11.51 ft; minimum, no flow, many days in water year 2012.

05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued

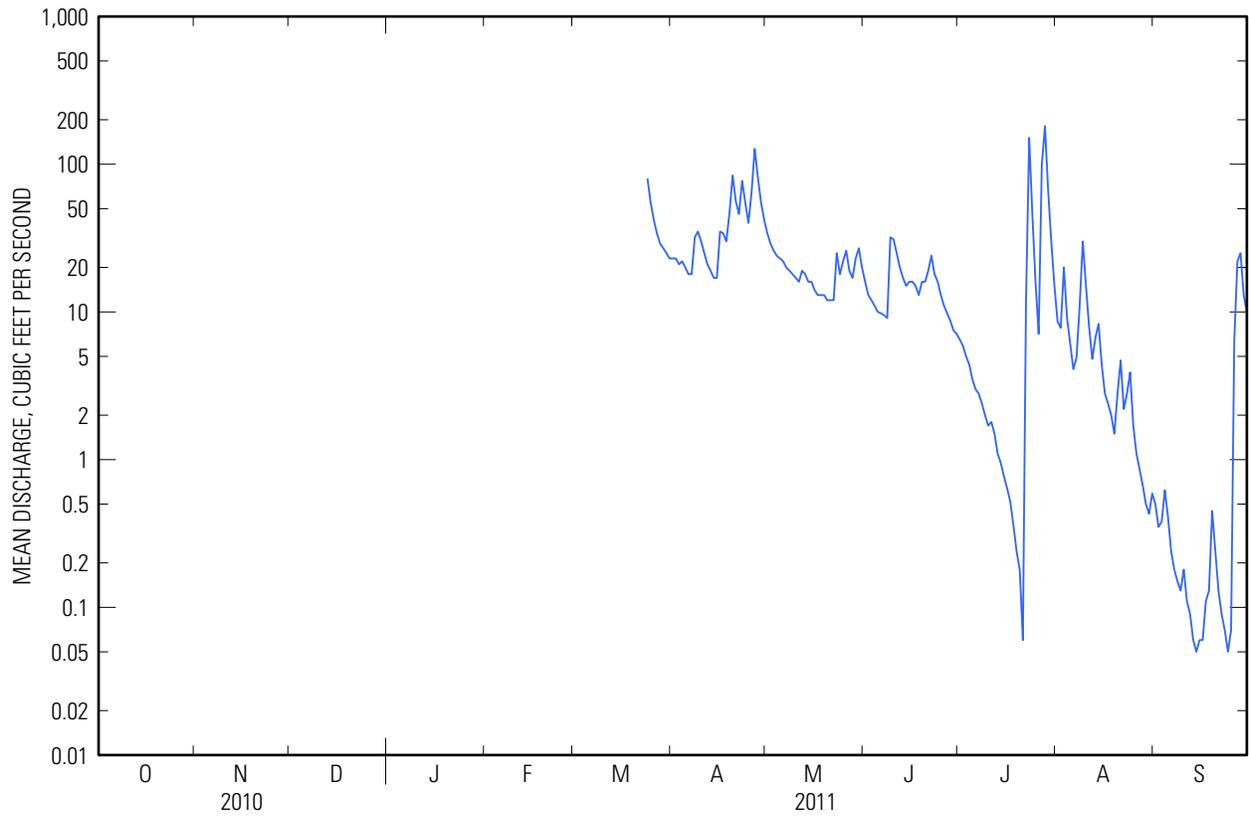
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	23	34	16	6.5	8.6	0.50
2	---	---	---	---	---	---	23	29	13	5.9	7.8	0.35
3	---	---	---	---	---	---	21	26	12	5.0	20	0.38
4	---	---	---	---	---	---	22	24	11	4.4	9.1	0.62
5	---	---	---	---	---	---	20	23	10	3.5	6.1	0.41
6	---	---	---	---	---	---	18	22	9.8	3.0	4.1	0.24
7	---	---	---	---	---	---	18	20	9.5	2.8	4.9	0.18
8	---	---	---	---	---	---	32	19	9.1	2.4	11	0.15
9	---	---	---	---	---	---	35	18	32	2.0	30	0.13
10	---	---	---	---	---	---	30	17	31	1.7	15	0.18
11	---	---	---	---	---	---	25	16	25	1.8	7.9	0.11
12	---	---	---	---	---	---	21	19	20	1.5	4.8	0.09
13	---	---	---	---	---	---	19	18	17	1.1	6.7	0.06
14	---	---	---	---	---	---	17	16	15	0.95	8.3	0.05
15	---	---	---	---	---	---	17	16	16	0.77	4.4	0.06
16	---	---	---	---	---	---	35	14	16	0.64	2.8	0.06
17	---	---	---	---	---	---	34	13	15	0.52	2.4	0.11
18	---	---	---	---	---	---	30	13	13	0.36	2.0	0.13
19	---	---	---	---	---	---	47	13	16	0.24	1.5	0.45
20	---	---	---	---	---	---	84	12	16	0.18	2.8	0.24
21	---	---	---	---	---	---	56	12	19	0.06	4.7	0.13
22	---	---	---	---	---	---	46	12	24	12	2.2	0.09
23	---	---	---	---	---	---	77	25	18	151	2.8	0.07
24	---	---	---	---	---	80	55	18	16	46	3.9	0.05
25	---	---	---	---	---	55	40	22	13	16	1.7	0.07
26	---	---	---	---	---	42	65	26	11	7.1	1.1	6.3
27	---	---	---	---	---	34	127	19	9.8	98	0.86	22
28	---	---	---	---	---	29	81	17	8.7	181	0.67	25
29	---	---	---	---	---	27	55	23	7.5	67	0.50	13
30	---	---	---	---	---	25	42	27	7.1	30	0.43	10
31	---	---	---	---	---	23	---	20	---	15	0.59	---
Total	---	---	---	---	---	---	1,215	603	456.5	668.42	179.65	81.21
Mean	---	---	---	---	---	---	40.5	19.5	15.2	21.6	5.80	2.71
Max	---	---	---	---	---	---	127	34	32	181	30	25
Min	---	---	---	---	---	---	17	12	7.1	0.06	0.43	0.05
Cfsm	---	---	---	---	---	---	1.64	0.79	0.62	0.87	0.24	0.11
In.	---	---	---	---	---	---	1.83	0.91	0.69	1.01	0.27	0.12

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	---	---	---	---	---	---	40.5	19.5	15.2	21.6	5.80	2.71
Max	---	---	---	---	---	---	40.5	19.5	15.2	21.6	5.80	2.71
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	---	---	---	---	---	---	40.5	19.5	15.2	21.6	5.80	2.71
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)

05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued



05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.2	4.6	13	24	36	66	15	17	7.5	0.90	0.12	0.00
2	6.1	4.2	12	20	30	42	14	16	6.1	0.82	0.06	0.00
3	5.2	19	17	23	25	37	13	14	5.0	0.66	0.01	0.00
4	4.2	16	51	17	22	31	15	13	5.3	0.73	0.00	0.00
5	3.4	11	46	15	21	26	12	11	4.6	0.46	0.00	0.00
6	3.2	8.5	33	15	19	32	11	19	4.2	0.32	0.00	0.00
7	3.3	11	25	14	17	74	11	40	4.1	0.18	0.00	0.00
8	2.8	19	22	13	16	68	10	27	3.8	0.14	0.00	0.00
9	3.0	82	18	13	e15	47	10	19	3.3	0.08	0.00	0.00
10	3.5	103	19	13	14	36	12	16	2.9	0.11	0.00	0.00
11	3.5	53	15	13	e13	30	9.7	13	2.9	0.09	0.00	0.00
12	3.6	38	14	e13	e12	114	9.4	12	2.7	0.06	0.00	0.00
13	4.9	28	14	e13	e12	175	10	11	2.6	0.01	0.00	0.00
14	8.9	22	24	e12	e12	75	10	9.6	2.5	0.02	0.00	0.00
15	6.5	18	48	e12	12	49	32	9.0	2.3	0.01	0.00	0.00
16	5.2	18	36	e12	13	39	30	8.6	2.5	0.00	0.00	0.00
17	4.9	16	29	e12	13	34	21	8.9	2.8	0.00	0.00	0.00
18	4.7	14	25	e12	12	31	17	7.9	2.5	0.12	0.00	0.00
19	4.5	14	23	e12	11	28	17	7.0	2.0	2.9	0.00	0.00
20	4.9	13	21	e12	11	26	26	7.1	1.8	1.4	0.00	0.00
21	4.4	12	20	e12	11	25	23	7.6	1.7	0.68	0.00	0.00
22	4.4	12	20	e12	11	22	18	6.8	1.8	0.47	0.00	0.00
23	4.1	12	17	e12	11	23	15	6.4	1.6	0.40	0.00	0.00
24	5.4	11	16	e12	12	22	14	5.6	1.6	0.81	0.00	0.00
25	5.3	11	16	e12	11	20	15	5.2	1.5	0.88	0.00	0.00
26	4.6	11	17	e12	12	19	14	6.5	1.4	0.73	0.00	0.00
27	4.3	18	16	e12	12	17	12	6.6	1.1	0.48	0.00	0.00
28	5.8	18	14	e12	11	18	13	5.4	1.0	0.36	0.00	0.00
29	3.9	16	14	e12	52	15	14	5.7	1.0	0.31	0.00	0.00
30	3.9	15	17	e12	---	16	19	4.5	1.1	0.29	0.00	0.00
31	4.5	---	27	21	---	16	---	6.1	---	0.22	0.00	---
Total	144.1	648.3	699	431	479	1,273	462.1	352.5	85.2	14.64	0.19	0.00
Mean	4.65	21.6	22.5	13.9	16.5	41.1	15.4	11.4	2.84	0.47	0.01	0.00
Max	8.9	103	51	24	52	175	32	40	7.5	2.9	0.12	0.00
Min	2.8	4.2	12	12	11	15	9.4	4.5	1.0	0.00	0.00	0.00
Cfsm	0.19	0.88	0.91	0.56	0.67	1.67	0.62	0.46	0.12	0.02	0.00	0.00
In.	0.22	0.98	1.05	0.65	0.72	1.92	0.70	0.53	0.13	0.02	0.00	0.00

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

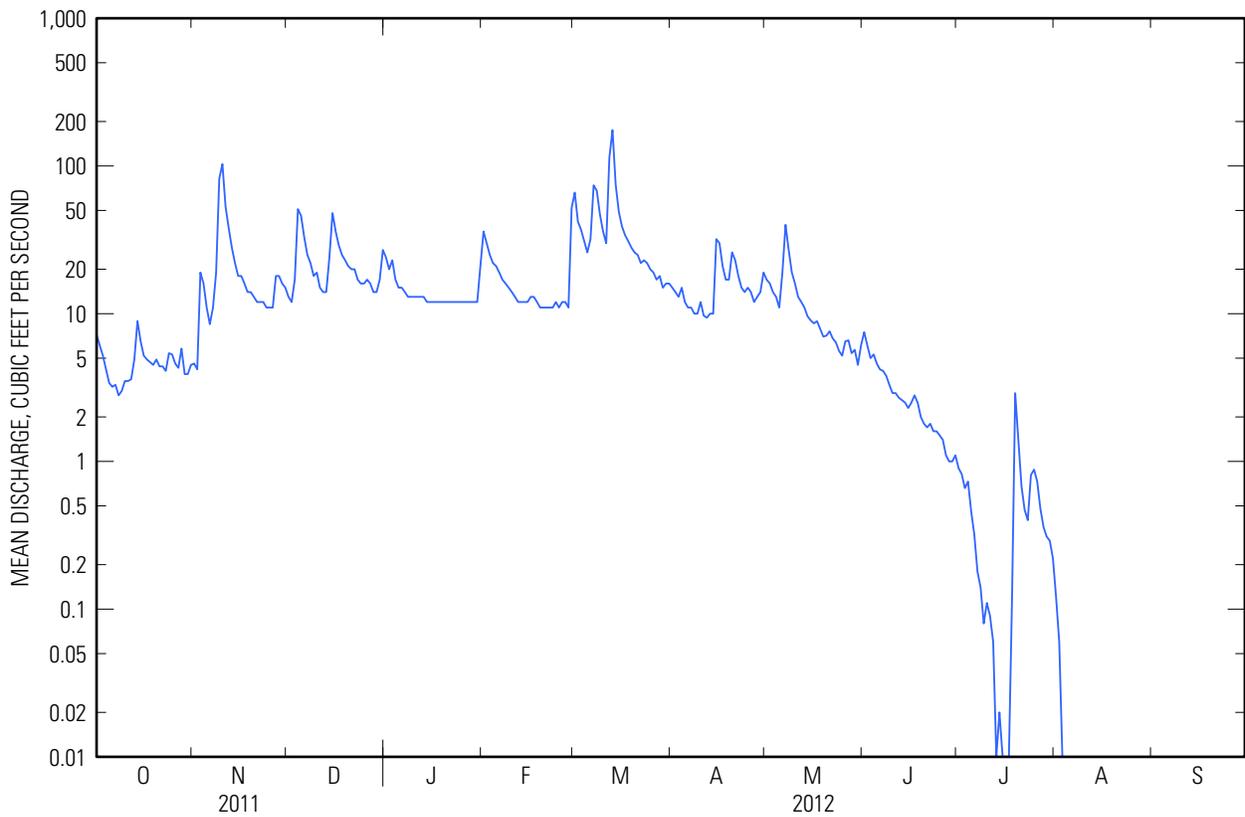
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.65	21.6	22.5	13.9	16.5	41.1	28.0	15.4	9.03	11.0	2.90	1.35
Max	4.65	21.6	22.5	13.9	16.5	41.1	40.5	19.5	15.2	21.6	5.80	2.71
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	4.65	21.6	22.5	13.9	16.5	41.1	15.4	11.4	2.84	0.47	0.01	0.00
(WY)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued

SUMMARY STATISTICS

	Water Year 2012		Water Years 2011 - 2012	
Annual total	4,589.03			
Annual mean	12.5		12.5	
Highest annual mean			12.5	2012
Lowest annual mean			12.5	2012
Highest daily mean	175	Mar 13	181	Jul 28, 2011
Lowest daily mean	0.00	A	0.00	A
Annual seven-day minimum	0.00	Aug 4	0.00	Aug 4, 2012
Maximum peak flow	239	Mar 13	406	Jul 23, 2011
Maximum peak stage	11.15	Mar 13	11.51	Jul 23, 2011
Annual runoff (cfsm)	0.508		0.508	
Annual runoff (inches)	6.92		6.91	
10 percent exceeds	27		27	
50 percent exceeds	11		11	
90 percent exceeds	0.00		0.00	

^A Many days in 2012.

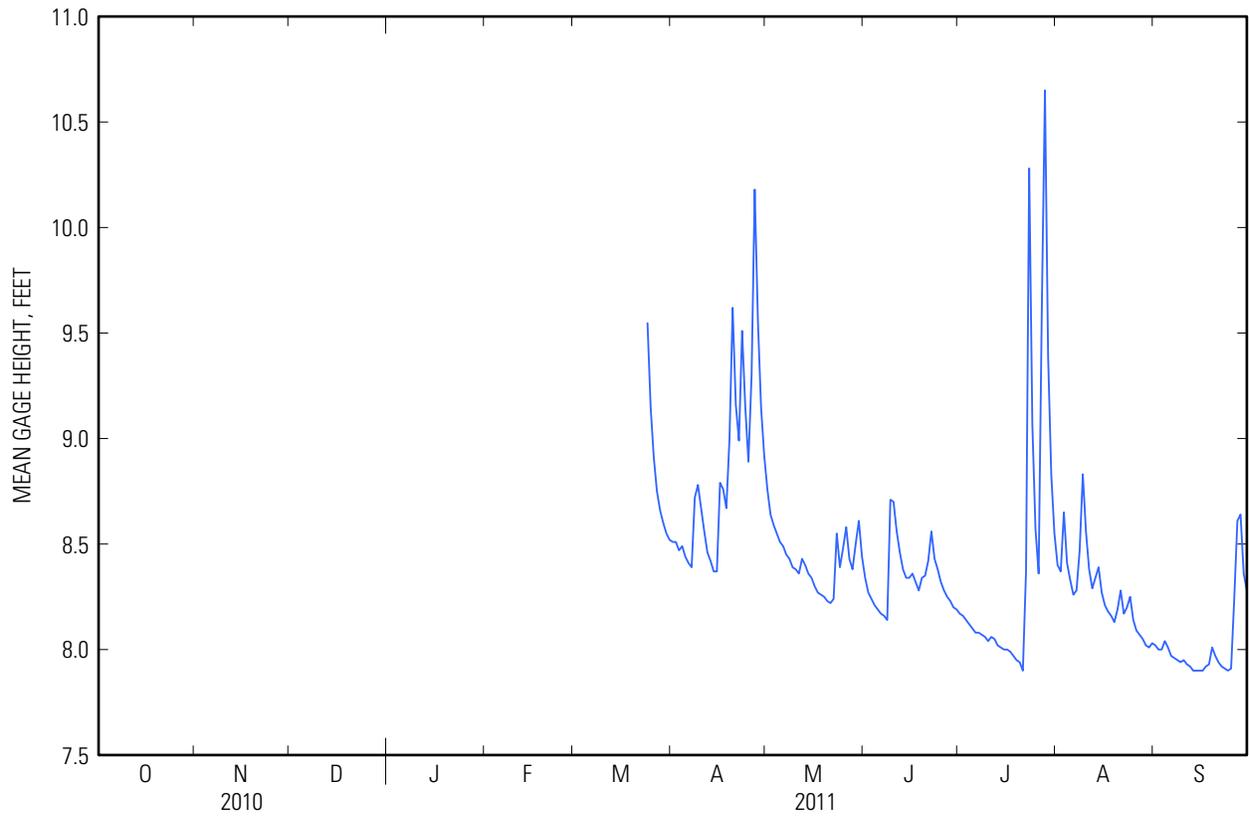


05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	8.51	8.76	8.34	8.17	8.40	8.02
2	---	---	---	---	---	---	8.51	8.64	8.27	8.16	8.37	8.00
3	---	---	---	---	---	---	8.47	8.59	8.24	8.14	8.65	8.00
4	---	---	---	---	---	---	8.49	8.55	8.21	8.12	8.41	8.04
5	---	---	---	---	---	---	8.44	8.51	8.19	8.10	8.33	8.01
6	---	---	---	---	---	---	8.41	8.49	8.17	8.08	8.26	7.97
7	---	---	---	---	---	---	8.39	8.45	8.16	8.08	8.28	7.96
8	---	---	---	---	---	---	8.72	8.43	8.14	8.07	8.47	7.95
9	---	---	---	---	---	---	8.78	8.39	8.71	8.06	8.83	7.94
10	---	---	---	---	---	---	8.67	8.38	8.70	8.04	8.56	7.95
11	---	---	---	---	---	---	8.56	8.36	8.56	8.06	8.38	7.93
12	---	---	---	---	---	---	8.46	8.43	8.46	8.05	8.29	7.92
13	---	---	---	---	---	---	8.42	8.40	8.38	8.02	8.34	7.90
14	---	---	---	---	---	---	8.37	8.36	8.34	8.01	8.39	7.90
15	---	---	---	---	---	---	8.37	8.34	8.34	8.00	8.27	7.90
16	---	---	---	---	---	---	8.79	8.30	8.36	8.00	8.21	7.90
17	---	---	---	---	---	---	8.76	8.27	8.32	7.99	8.18	7.92
18	---	---	---	---	---	---	8.67	8.26	8.28	7.97	8.16	7.93
19	---	---	---	---	---	---	9.00	8.25	8.34	7.95	8.13	8.01
20	---	---	---	---	---	---	9.62	8.23	8.35	7.94	8.19	7.97
21	---	---	---	---	---	---	9.16	8.22	8.42	7.90	8.28	7.94
22	---	---	---	---	---	---	8.99	8.24	8.56	8.37	8.17	7.92
23	---	---	---	---	---	---	9.51	8.55	8.43	10.28	8.20	7.91
24	---	---	---	---	---	9.55	9.15	8.39	8.38	9.07	8.25	7.90
25	---	---	---	---	---	9.15	8.89	8.48	8.32	8.57	8.14	7.91
26	---	---	---	---	---	8.91	9.30	8.58	8.28	8.36	8.09	8.24
27	---	---	---	---	---	8.75	10.18	8.43	8.25	9.61	8.07	8.61
28	---	---	---	---	---	8.66	9.56	8.38	8.23	10.65	8.05	8.64
29	---	---	---	---	---	8.60	9.15	8.50	8.20	9.39	8.02	8.36
30	---	---	---	---	---	8.55	8.92	8.61	8.19	8.83	8.01	8.28
31	---	---	---	---	---	8.52	---	8.44	---	8.55	8.03	---
Mean	---	---	---	---	---	---	8.84	8.43	8.34	8.41	8.27	8.03
Max	---	---	---	---	---	---	10.18	8.76	8.71	10.65	8.83	8.64
Min	---	---	---	---	---	---	8.37	8.22	8.14	7.90	8.01	7.90

05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued



05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.17	8.05	8.26	8.54	8.79	9.33	8.32	8.37	8.10	7.80	7.66	6.89
2	8.13	8.04	8.23	8.45	8.66	8.92	8.30	8.35	8.05	7.79	7.63	6.88
3	8.10	8.45	8.36	8.52	8.56	8.81	8.28	8.28	8.02	7.77	7.59	6.85
4	8.07	8.42	9.08	8.38	8.50	8.69	8.31	8.26	8.03	7.77	7.55	6.83
5	8.03	8.27	8.98	8.33	8.47	8.59	8.24	8.22	8.00	7.74	7.54	6.96
6	8.02	8.19	8.73	8.33	8.43	8.71	8.22	8.39	7.99	7.72	7.52	6.90
7	8.03	8.26	8.57	8.31	8.38	9.46	8.21	8.88	7.98	7.68	7.49	6.85
8	8.00	8.45	8.50	8.27	8.34	9.36	8.19	8.61	7.97	7.67	7.46	6.81
9	8.01	9.53	8.41	8.26	8.37	9.02	8.18	8.43	7.95	7.65	7.50	6.95
10	8.04	9.86	8.41	8.27	8.31	8.79	8.23	8.34	7.93	7.66	7.54	6.87
11	8.04	9.12	8.32	8.26	8.62	8.67	8.16	8.28	7.93	7.65	7.51	6.78
12	8.04	8.83	8.30	8.28	8.54	9.77	8.15	8.23	7.92	7.63	7.48	6.77
13	8.08	8.63	8.28	8.69	8.47	10.64	8.18	8.20	7.91	7.59	7.48	6.79
14	8.21	8.50	8.54	8.47	8.28	9.47	8.17	8.17	7.91	7.60	7.55	6.80
15	8.12	8.41	9.02	---	8.23	9.04	8.71	8.15	7.90	7.59	7.55	6.75
16	8.07	8.39	8.79	---	8.26	8.86	8.67	8.14	7.91	7.54	7.56	6.78
17	8.06	8.34	8.64	---	8.26	8.75	8.46	8.14	7.92	7.51	7.54	6.78
18	8.06	8.31	8.56	8.38	8.23	8.69	8.38	8.11	7.91	7.53	7.50	6.75
19	8.05	8.30	8.52	8.31	8.22	8.63	8.37	8.08	7.88	7.94	7.45	6.72
20	8.06	8.26	8.48	8.30	8.20	8.59	8.58	8.08	7.87	7.85	7.42	6.70
21	8.04	8.24	8.46	8.36	8.21	8.56	8.51	8.10	7.86	7.78	7.37	6.68
22	8.04	8.23	8.44	---	8.21	8.48	8.39	8.07	7.87	7.75	7.31	6.78
23	8.03	8.24	8.37	---	8.21	8.51	8.33	8.05	7.86	7.74	7.26	6.73
24	8.08	8.22	8.35	---	8.24	8.49	8.29	8.03	7.85	7.79	7.21	6.62
25	8.08	8.20	8.34	---	8.21	8.44	8.33	8.01	7.85	7.80	7.15	6.57
26	8.05	8.22	8.36	8.35	8.22	8.41	8.29	8.06	7.84	7.78	7.12	6.55
27	8.04	8.41	8.34	8.37	8.24	8.37	8.23	8.06	7.82	7.75	7.13	6.54
28	8.09	8.40	8.29	8.39	8.22	8.40	8.26	8.02	7.81	7.73	7.08	6.46
29	8.02	8.34	8.30	8.38	9.05	8.32	8.28	8.03	7.82	7.72	7.02	6.44
30	8.02	8.32	8.37	---	---	8.36	8.42	7.99	7.82	7.71	6.98	6.48
31	8.05	---	8.61	8.46	---	8.35	---	8.04	---	7.70	6.92	---
Mean	8.06	8.45	8.49	---	8.38	8.82	8.32	8.20	7.92	7.71	7.39	6.74
Max	8.21	9.86	9.08	---	9.05	10.64	8.71	8.88	8.10	7.94	7.66	6.96
Min	8.00	8.04	8.23	---	8.20	8.32	8.15	7.99	7.81	7.51	6.92	6.44

05548030 NIPPERSINK CREEK NEAR GREENWOOD, IL—Continued

