

Water-Data Report 2011

05540091 SPRING BROOK AT FOREST PRESERVE NEAR WARRENVILLE, IL

Upper Illinois Basin
Des Plaines Subbasin

LOCATION.--Lat 41°50'07", long 88°10'58" referenced to North American Datum of 1983, in SE ¼ SW ¼ SW ¼ sec.26, T.39 N., R.9 E., Du Page County, IL, Hydrologic Unit 07120004, on right bank on upstream side of footbridge in Roy C. Blackwell Forest Preserve, 1 mi northwest of Warrenville, and at mile 0.7.

DRAINAGE AREA.--6.83 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

SURFACE-WATER DISCHARGE AND STAGE

DISCHARGE: October 1991 to December 2010.

STAGE: December 1993 to February 1994, April 1994 to December 2010.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 690.15 ft above NGVD of 1929 (689.89 ft NAVD 1988).

REMARKS.--Discharge records good. Effluent from sewage-treatment plant 2.5 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--

SURFACE-WATER DISCHARGE AND STAGE: Maximum discharge, 393 ft³/s, July 18, 1996, gage height, 12.60 ft; no flow, Nov. 25, 1999.

05540091 SPRING BROOK AT FOREST PRESERVE NEAR WARRENVILLE, 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	7.1	8.1	14	---	---	---	---	---	---	---	---	---
2	6.4	7.3	12	---	---	---	---	---	---	---	---	---
3	7.4	6.9	10	---	---	---	---	---	---	---	---	---
4	8.0	7.9	10	---	---	---	---	---	---	---	---	---
5	7.8	7.9	11	---	---	---	---	---	---	---	---	---
6	5.5	7.5	10	---	---	---	---	---	---	---	---	---
7	6.0	7.2	9.6	---	---	---	---	---	---	---	---	---
8	5.9	8.2	9.0	---	---	---	---	---	---	---	---	---
9	6.7	6.9	8.7	---	---	---	---	---	---	---	---	---
10	6.5	5.5	8.9	---	---	---	---	---	---	---	---	---
11	7.1	6.6	11	---	---	---	---	---	---	---	---	---
12	7.4	12	24	---	---	---	---	---	---	---	---	---
13	6.1	7.9	14	---	---	---	---	---	---	---	---	---
14	6.0	9.5	12	---	---	---	---	---	---	---	---	---
15	6.2	10	11	---	---	---	---	---	---	---	---	---
16	6.2	8.0	11	---	---	---	---	---	---	---	---	---
17	5.6	6.9	9.6	---	---	---	---	---	---	---	---	---
18	5.8	6.8	8.6	---	---	---	---	---	---	---	---	---
19	6.3	7.5	8.4	---	---	---	---	---	---	---	---	---
20	8.3	7.0	9.1	---	---	---	---	---	---	---	---	---
21	6.9	6.6	9.1	---	---	---	---	---	---	---	---	---
22	5.7	28	9.0	---	---	---	---	---	---	---	---	---
23	6.5	25	8.6	---	---	---	---	---	---	---	---	---
24	7.1	11	9.1	---	---	---	---	---	---	---	---	---
25	12	18	---	---	---	---	---	---	---	---	---	---
26	13	11	---	---	---	---	---	---	---	---	---	---
27	9.8	9.3	---	---	---	---	---	---	---	---	---	---
28	8.0	8.3	---	---	---	---	---	---	---	---	---	---
29	7.2	10	---	---	---	---	---	---	---	---	---	---
30	6.6	29	---	---	---	---	---	---	---	---	---	---
31	6.3	---	---	---	---	---	---	---	---	---	---	---
Total	221.4	311.8	---	---	---	---	---	---	---	---	---	---
Mean	7.14	10.4	---	---	---	---	---	---	---	---	---	---
Max	13	29	---	---	---	---	---	---	---	---	---	---
Min	5.5	5.5	---	---	---	---	---	---	---	---	---	---
Cfsm	1.05	1.52	---	---	---	---	---	---	---	---	---	---
In.	1.21	1.70	---	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2011, BY WATER YEAR (WY)

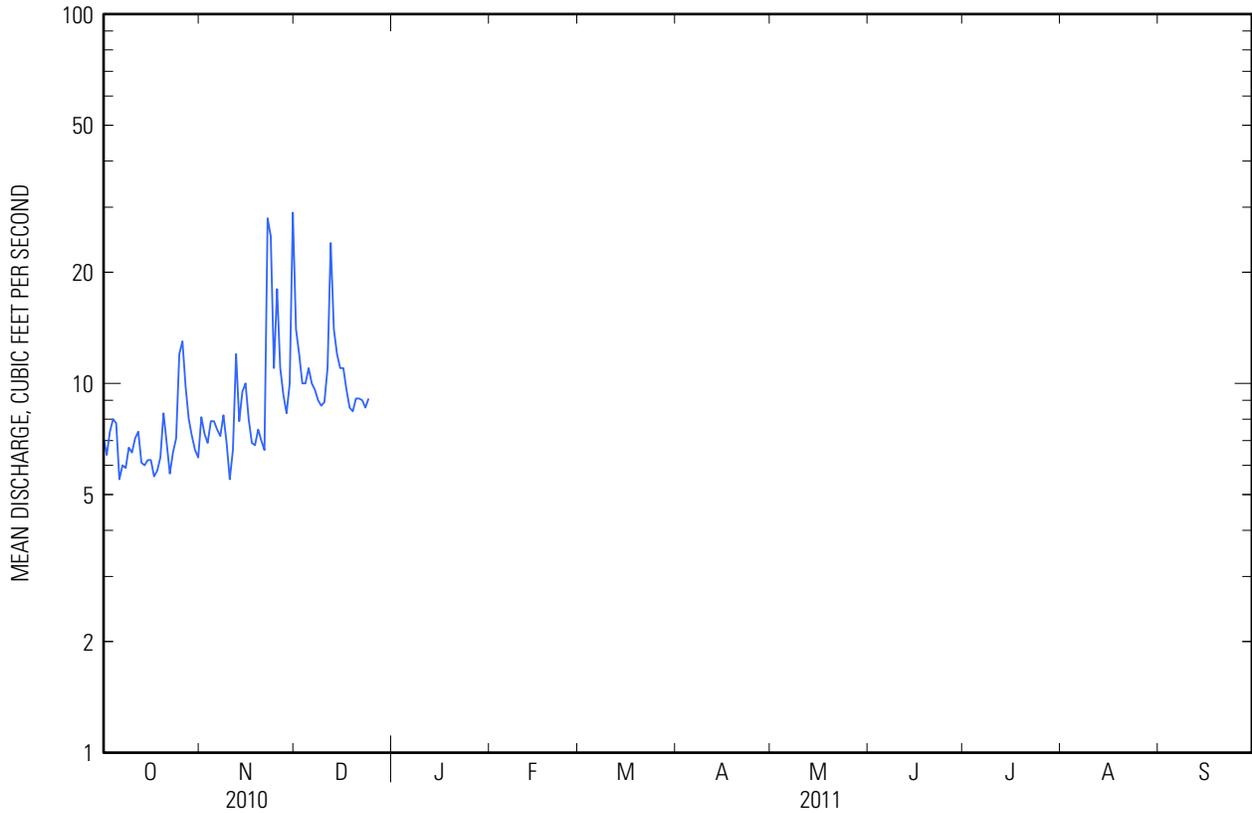
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.1	13.8	15.0	15.5	17.1	20.6	22.2	18.9	18.6	12.7	12.9	11.9
Max	38.2	28.7	37.6	29.5	35.4	42.2	34.4	30.0	35.7	29.6	26.5	43.6
(WY)	(2002)	(2010)	(2009)	(1993)	(1997)	(2009)	(1993)	(2003)	(2010)	(1996)	(2010)	(2008)
Min	4.95	6.49	7.43	8.06	7.37	10.1	8.35	6.98	6.80	7.16	7.18	5.03
(WY)	(2006)	(1994)	(2006)	(2003)	(1996)	(2000)	(1994)	(1994)	(2005)	(2005)	(2005)	(2005)

05540091 SPRING BROOK AT FOREST PRESERVE NEAR WARRENVILLE, IL—Continued

SUMMARY STATISTICS

Water Years 1992 - 2011		
Annual mean	16.2	
Highest annual mean	22.9	2009
Lowest annual mean	11.3	1994
Highest daily mean	309	^A
Lowest daily mean	2.5	Sep 4, 2005
Annual seven-day minimum	3.3	Sep 1, 2005
Maximum peak flow	393	Jul 18, 1996
Maximum peak stage	12.60	Jul 18, 1996
Instantaneous low flow	0.00	Nov 25, 1999
Annual runoff (cfsm)	2.37	
Annual runoff (inches)	32.14	
10 percent exceeds	29	
50 percent exceeds	11	
90 percent exceeds	6.4	

^A July 18, 1996, Sept. 14, 2008.



05540091 SPRING BROOK AT FOREST PRESERVE NEAR WARRENVILLE, 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	7.48	7.50	7.61	---	---	---	---	---	---	---	---	---
2	7.46	7.48	7.57	---	---	---	---	---	---	---	---	---
3	7.48	7.47	7.53	---	---	---	---	---	---	---	---	---
4	7.49	7.49	7.54	---	---	---	---	---	---	---	---	---
5	7.49	7.49	7.54	---	---	---	---	---	---	---	---	---
6	7.44	7.48	7.54	---	---	---	---	---	---	---	---	---
7	7.45	7.47	7.52	---	---	---	---	---	---	---	---	---
8	7.44	7.50	7.51	---	---	---	---	---	---	---	---	---
9	7.47	7.47	7.51	---	---	---	---	---	---	---	---	---
10	7.46	7.43	7.51	---	---	---	---	---	---	---	---	---
11	7.48	7.46	7.55	---	---	---	---	---	---	---	---	---
12	7.48	7.56	7.77	---	---	---	---	---	---	---	---	---
13	7.45	7.49	7.60	---	---	---	---	---	---	---	---	---
14	7.45	7.52	7.56	---	---	---	---	---	---	---	---	---
15	7.45	7.53	7.55	---	---	---	---	---	---	---	---	---
16	7.45	7.50	7.54	---	---	---	---	---	---	---	---	---
17	7.43	7.47	7.52	---	---	---	---	---	---	---	---	---
18	7.44	7.47	7.51	---	---	---	---	---	---	---	---	---
19	7.46	7.48	7.50	---	---	---	---	---	---	---	---	---
20	7.49	7.47	7.52	---	---	---	---	---	---	---	---	---
21	7.47	7.46	7.52	---	---	---	---	---	---	---	---	---
22	7.44	7.80	7.51	---	---	---	---	---	---	---	---	---
23	7.46	7.79	7.51	---	---	---	---	---	---	---	---	---
24	7.47	7.55	7.51	---	---	---	---	---	---	---	---	---
25	7.57	7.67	---	---	---	---	---	---	---	---	---	---
26	7.58	7.55	---	---	---	---	---	---	---	---	---	---
27	7.53	7.52	---	---	---	---	---	---	---	---	---	---
28	7.49	7.50	---	---	---	---	---	---	---	---	---	---
29	7.48	7.54	---	---	---	---	---	---	---	---	---	---
30	7.46	7.87	---	---	---	---	---	---	---	---	---	---
31	7.45	---	---	---	---	---	---	---	---	---	---	---
Mean	7.47	7.53	---	---	---	---	---	---	---	---	---	---
Max	7.58	7.87	---	---	---	---	---	---	---	---	---	---
Min	7.43	7.43	---	---	---	---	---	---	---	---	---	---

05540091 SPRING BROOK AT FOREST PRESERVE NEAR WARRENVILLE, IL—Continued

