Water-Data Report 2007

03378635 LITTLE WABASH RIVER NEAR EFFINGHAM, IL

Wabash Basin
Little Wabash Subbasin

LOCATION.--Lat 39°06′14″, long 88°35′39″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.36, T.8 N., R.5 E., Effingham County, IL, Hydrologic Unit 05120114, on right bank at downstream side of bridge on U.S. Highway 40, 1,000 ft upstream from railroad bridge, 2.3 mi south west of Effingham, and at mile 202.8.

DRAINAGE AREA.--240 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.—
SURFACE-WATER DISCHARGE AND STAGE
DISCHARGE: October 1966 to current year.
STAGE: Water years 1994 to current year.
SURFACE-WATER QUALITY
CHEMICAL: Water years 1979-91.

GAGE.-- Water-stage recorder, phone telemeter, and crest-stage gage. Datum of gage is 501.10 ft above NGVD of 1929 (500.78 ft NAVD 1988). Prior to Apr. 21, 1988, at site 0.3 mi downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Pumpage diverted at station for municipal supply of Effingham not included in surface-water discharge records.

EXTREMES FOR PERIOD OF RECORD.—
SURFACE-WATER DISCHARGE AND STAGE: Maximum discharge, 31,500 ft^3/s, May 12, 2002, gage height 24.27 ft; no flow for many days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--From a crest-stage gage reading by L.E. Young, the flood of June 28, 1957 reached a stage of 23.83 ft. (discharge at present site unknown). A contracted opening indirect measurement made at the Rte. 32 bridge upstream computed a discharge of 34,400 ft^3/s for this event.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.52	11	677	749	e64	287	67	71	9.2	21	6.5	4.2
2	0.59	7.9	303	327	e46	495	65	54	9.3	13	5.7	4.1
3	1.2	7.0	118	167	e36	253	186	54	8.7	9.9	5.3	4.0
4	1.2	8.0	64	154	e33	155	443	95	7.2	9.5	10	4.1
5	1.0	10	44	822	e29	115	208	126	6.1	72	24	4.3
6	0.61	10	37	545	e26	91	157	60	5.8	28	16	6.0
7	0.31	13	30	294	e24	75	134	36	5.6	12	9.8	3.4
8	0.15	12	21	331	e23	78	112	24	5.4	8.7	7.0	9.4
9	0.06	11	20	199	e22	96	111	36	5.1	7.5	6.2	286
10	0.05	12	16	135	e21	108	106	24	5.2	12	5.8	22
11	1.1	14	18	99	e20	100	151	27	5.0	11	5.6	10
12	1.0	11	70	122	e21	89	123	20	4.7	7.0	5.4	5.3
13	0.61	12	124	3,310	e240	73	72	19	4.7	7.0	6.0	3.6
14	0.31	13	100	2,600	e110	56	296	17	4.8	5.9	5.8	2.4
15	0.08	19	67	3,850	e80	1,750	540	16	4.9	5.5	6.7	0.74
16	13	193	51	2,510	e60	534	210	18	4.3	4.9	5.8	0.00
17	24	152	41	683	e50	264	128	17	3.9	1,120	4.7	0.00
18	9.7	50	36	420	e40	195	101	17	3.9	3,100	5.0	0.00
19	8.5	26	33	289	e50	234	83	15	4.0	1,590	3.5	0.00
20	1.8	19	28	205	e200	224	64	12	3.7	228	2.1	0.00
21	0.00	16	467	187	e1,250	135	54	12	3.6	75	1.9	0.00
22	0.00	14	1,060	184	e1,100	103	49	12	11	28	1.3	0.00
23	0.00	13	712	151	823	203	48	11	30	18	0.35	0.36
24	0.00	13	305	152	927	374	49	11	269	17	0.69	1.2
25	0.00	13	171	139	3,090	210	59	39	127	16	3.2	2.3
26	11	12	129	109	1,080	141	65	55	379	16	20	2.3
27	39	13	88	222	499	106	63	18	294	17	7.5	1.8
28	116	13	67	211	292	87	59	18	129	12	4.3	1.4
29	42	13	57	141	---	91	77	13	441	11	3.3	1.2
30	19	67	51	e110	---	69	85	11	62	8.8	3.6	1.3
31	15	---	552	e84	---	63	---	9.5	---	7.4	4.5	---
Total	307.79	797.9	5,557	19,501	10,256	6,854	3,965	967.5	1,857.1	6,499.1	197.54	381.40
Mean	9.93	26.6	179	629	366	221	132	31.2	61.9	210	6.37	12.7
Max	116	193	1,060	3,850	3,090	1,750	540	126	441	3,100	24	286
Min	0.00	7.0	16	84	20	56	48	9.5	3.6	4.9	0.35	0.00
Cfsm	0.04	0.11	0.75	2.62	1.53	0.92	0.55	0.13	0.26	0.87	0.03	0.05
In.	0.05	0.12	0.86	3.02	1.59	1.06	0.61	0.15	0.29	1.01	0.03	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	63.4	156	237	284	322	366	354	298	184	93.7	49.5	67.9
Max	672	1,141	1,055	1,455	1,080	1,200	1,225	1,969	756	794	252	1,001
(WY)	(2001)	(1994)	(1968)	(2005)	(1982)	(1978)	(1996)	(2002)	(2000)	(2000)	(1974)	(1993)
Min	0.10	0.65	0.00	0.03	14.5	19.1	15.8	14.4	1.77	1.34	0.25	0.24
(WY)	(1995)	(1977)	(1977)	(1981)	(1978)	(1972)	(2003)	(1988)	(1987)	(1972)	(1989)	(1988)

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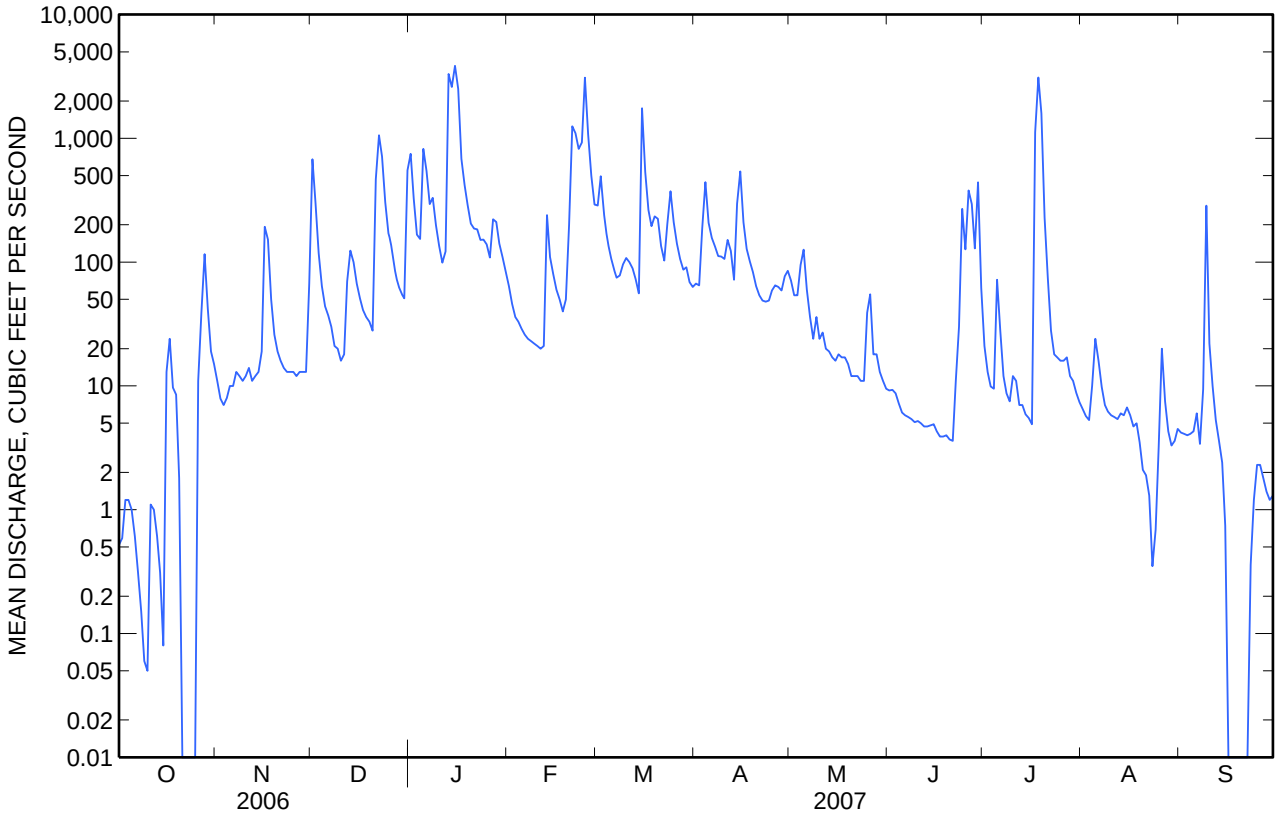
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1967 - 2007	
Annual total	40,959.87		57,141.33			
Annual mean	112		157		206	
Highest annual mean					450	1993
Lowest annual mean					41.5	2003
Highest daily mean	5,110	Apr 7	3,850	Jan 15	15,600	May 13, 2002
Lowest daily mean	0.00	Oct 21-25	0.00	A	0.00	B
Annual seven-day minimum	0.46	Oct 9	0.00	Sep 16	0.00	Oct 8, 1966
Maximum peak flow			4,330	Jan 15	31,500	May 12, 2002
Maximum peak stage			16.49	Jan 15	24.27	May 12, 2002
Annual runoff (cfsm)	0.468		0.652		0.857	
Annual runoff (inches)	6.35		8.86		11.64	
10 percent exceeds	205		299		440	
50 percent exceeds	16		23		35	
90 percent exceeds	1.0		1.6		0.23	

[A] Several days.
[B] Many days in most years.



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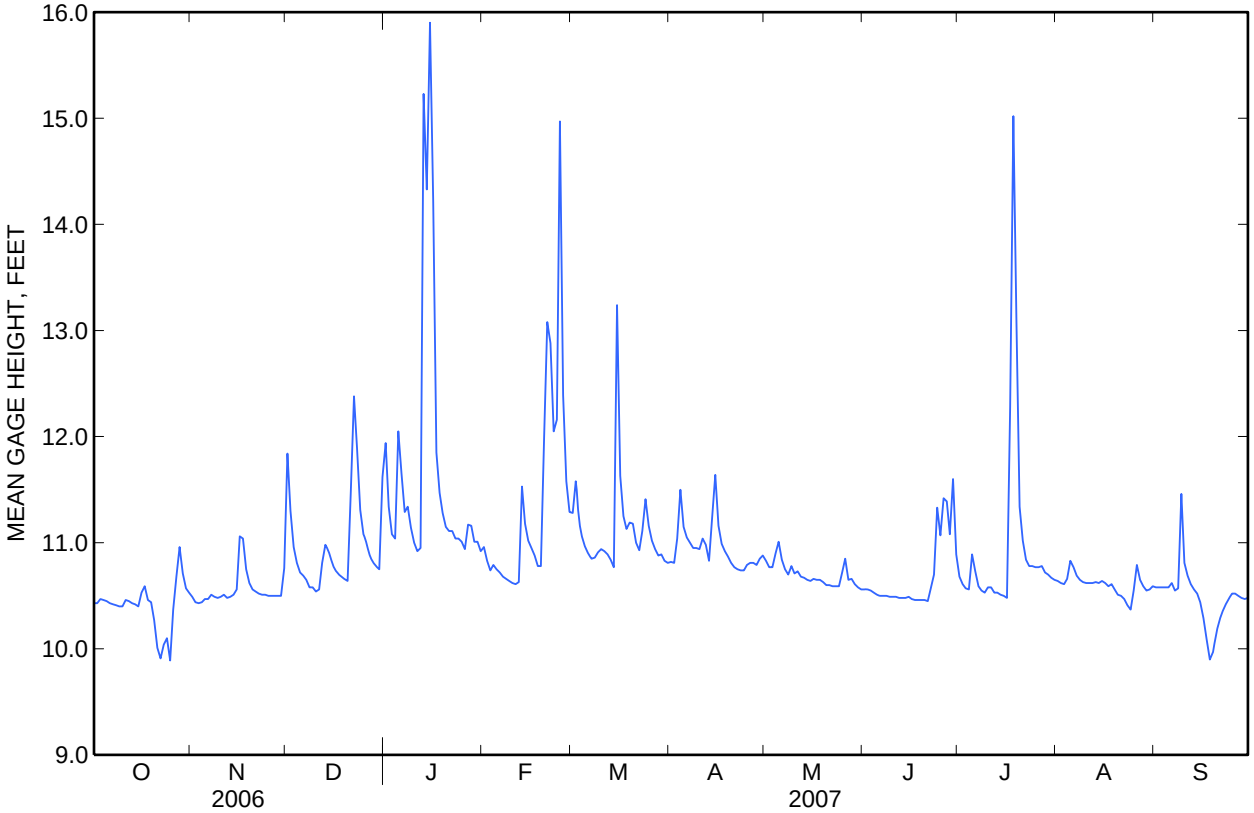
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10.43	10.49	11.84	11.94	10.96	11.28	10.82	10.83	10.56	10.68	10.64	10.58
2	10.43	10.44	11.30	11.34	10.83	11.58	10.81	10.77	10.56	10.61	10.62	10.58
3	10.47	10.43	10.96	11.08	10.74	11.23	11.04	10.77	10.55	10.57	10.61	10.58
4	10.46	10.44	10.81	11.04	10.79	11.05	11.50	10.90	10.53	10.56	10.66	10.58
5	10.45	10.47	10.72	12.05	10.75	10.96	11.15	11.01	10.51	10.89	10.83	10.58
6	10.43	10.47	10.69	11.65	10.72	10.89	11.05	10.84	10.50	10.73	10.77	10.62
7	10.42	10.51	10.65	11.29	10.68	10.85	11.00	10.75	10.50	10.59	10.69	10.55
8	10.41	10.49	10.58	11.34	10.66	10.86	10.95	10.70	10.50	10.55	10.65	10.57
9	10.40	10.48	10.58	11.14	10.64	10.91	10.95	10.78	10.49	10.53	10.63	11.46
10	10.40	10.49	10.54	11.00	10.62	10.94	10.94	10.71	10.49	10.58	10.62	10.81
11	10.46	10.51	10.56	10.92	10.61	10.92	11.04	10.73	10.49	10.58	10.62	10.69
12	10.45	10.48	10.81	10.95	10.63	10.89	10.98	10.68	10.48	10.53	10.62	10.61
13	10.43	10.49	10.98	15.23	11.53	10.84	10.83	10.67	10.48	10.53	10.63	10.56
14	10.42	10.51	10.92	14.33	11.18	10.77	11.23	10.65	10.48	10.51	10.62	10.52
15	10.40	10.56	10.82	15.90	11.02	13.24	11.64	10.64	10.49	10.50	10.64	10.44
16	10.53	11.06	10.75	14.22	10.95	11.63	11.16	10.66	10.47	10.48	10.62	10.29
17	10.59	11.04	10.71	11.85	10.88	11.25	10.99	10.65	10.46	12.28	10.59	10.09
18	10.46	10.75	10.68	11.47	10.78	11.13	10.92	10.65	10.46	15.02	10.61	9.90
19	10.44	10.62	10.66	11.28	10.78	11.19	10.87	10.63	10.46	13.11	10.56	9.97
20	10.27	10.56	10.64	11.15	11.98	11.18	10.81	10.60	10.46	11.34	10.51	10.14
21	10.01	10.54	11.48	11.11	13.08	11.00	10.77	10.60	10.45	11.02	10.50	10.26
22	9.91	10.52	12.38	11.11	12.88	10.93	10.75	10.59	10.57	10.84	10.47	10.35
23	10.04	10.51	11.89	11.04	12.05	11.11	10.74	10.59	10.70	10.78	10.41	10.42
24	10.10	10.51	11.31	11.04	12.16	11.41	10.74	10.59	11.33	10.78	10.37	10.47
25	9.89	10.50	11.08	11.01	14.97	11.16	10.79	10.72	11.07	10.77	10.55	10.52
26	10.37	10.50	10.99	10.94	12.39	11.02	10.81	10.85	11.42	10.77	10.79	10.52
27	10.68	10.50	10.88	11.17	11.58	10.94	10.81	10.65	11.39	10.78	10.65	10.50
28	10.96	10.50	10.82	11.16	11.29	10.88	10.79	10.66	11.08	10.72	10.59	10.48
29	10.71	10.50	10.78	11.01	---	10.89	10.85	10.61	11.60	10.70	10.55	10.47
30	10.57	10.76	10.75	11.01	---	10.83	10.88	10.58	10.89	10.67	10.56	10.48
31	10.53	---	11.62	10.92	---	10.81	---	10.56	---	10.65	10.59	---
Mean	10.40	10.55	10.97	11.70	11.36	11.12	10.95	10.70	10.68	10.96	10.61	10.49
Max	10.96	11.06	12.38	15.90	14.97	13.24	11.64	11.01	11.60	15.02	10.83	11.46
Min	9.89	10.43	10.54	10.92	10.61	10.77	10.74	10.56	10.45	10.48	10.37	9.90

	Calendar Year 2006	Water Year 2007
Mean	10.77	10.87
Max	17.21	15.90
Min	9.89	9.89

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