Water-Data Report 2006

03611500 OHIO RIVER AT METROPOLIS, IL

Lower Ohio Basin
Lower Ohio Subbasin

LOCATION.--Lat 37°08′51″, long 88°44′27″ referenced to North American Datum of 1927, Massac County, IL, Hydrologic Unit 05140206, near center of span on downstream side of pier of Paducah & Illinois Railroad bridge at Metropolis, 9.5 mi downstream from Tennessee River, 37 mi upstream from mouth, and at mile 944.1.

DRAINAGE AREA.--203000. mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1928 to current year. Prior to April 1928 monthly discharge only, published in WSP 1305. Gage-height records collected 9.6 mi upstream at Paducah since 1890 are contained in reports of National Weather Service. Occasional discharge measurements 1881 to 1924 in reports of Mississippi River Commission.

GAGE.--Water-stage recorder with telemetry. Datum of gage is 276.27 ft above NGVD of 1929. Prior to Dec. 22, 1936, water-stage recorders (temporary installations) at Paducah, Ky., Metropolis and Joppa, Il., and Dam 52. Auxiliary water-stage recorder near Grand Chain, 0.5 mi upstream from Dam 53, and 18 mi downstream from base gage. Prior to May 29, 1936, auxiliary nonrecording gage at Dam 53.

COOPERATION.--Kentucky Natural Resources and Environmental Protection Cabinet and U.S. Army Corps of Engineers, Louisville District and National Stream Quality Accounting Network.

REMARKS.--Records fair except those below 100,000 ft^3/s and those estimated , which are poor. Flow regulated by many dams and reservoirs. Maximum daily discharge includes overflow through Bay Creek and Cache River Valleys.

03611500 OHIO RIVER AT METROPOLIS, IL—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated; $\times 10^6$, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	128,000	136,000	174,000	229,000	427,000	200,000	159,000	281,000	191,000	216,000	150,000	126,000
2	106,000	115,000	197,000	242,000	312,000	154,000	166,000	256,000	171,000	227,000	156,000	138,000
3	110,000	89,400	229,000	252,000	341,000	142,000	217,000	238,000	212,000	238,000	150,000	145,000
4	112,000	92,200	251,000	264,000	338,000	154,000	208,000	243,000	241,000	220,000	156,000	148,000
5	117,000	95,300	273,000	288,000	353,000	143,000	225,000	229,000	234,000	166,000	138,000	138,000
6	103,000	99,200	293,000	306,000	372,000	171,000	219,000	208,000	238,000	141,000	102,000	131,000
7	75,300	87,800	284,000	313,000	387,000	183,000	203,000	185,000	244,000	150,000	86,200	150,000
8	76,200	78,600	257,000	314,000	403,000	157,000	202,000	184,000	244,000	161,000	92,700	145,000
9	70,100	81,300	234,000	324,000	409,000	158,000	253,000	169,000	239,000	174,000	105,000	131,000
10	79,100	83,000	207,000	317,000	400,000	330,000	331,000	171,000	188,000	214,000	102,000	130,000
11	110,000	89,400	180,000	293,000	392,000	316,000	377,000	200,000	e149,000	217,000	111,000	136,000
12	122,000	123,000	160,000	266,000	354,000	356,000	415,000	229,000	e125,000	193,000	106,000	130,000
13	102,000	127,000	152,000	255,000	319,000	452,000	403,000	219,000	132,000	170,000	83,900	146,000
14	57,100	125,000	155,000	261,000	267,000	509,000	372,000	175,000	143,000	167,000	111,000	194,000
15	58,300	149,000	145,000	257,000	227,000	554,000	317,000	173,000	116,000	188,000	131,000	216,000
16	81,600	238,000	159,000	256,000	205,000	570,000	259,000	186,000	99,900	206,000	107,000	214,000
17	77,000	282,000	176,000	291,000	228,000	587,000	262,000	183,000	112,000	223,000	112,000	213,000
18	69,800	286,000	195,000	335,000	236,000	591,000	289,000	186,000	112,000	241,000	106,000	223,000
19	67,000	256,000	219,000	403,000	244,000	587,000	319,000	196,000	106,000	246,000	90,700	187,000
20	53,600	225,000	215,000	501,000	256,000	582,000	347,000	213,000	112,000	225,000	69,900	125,000
21	64,500	237,000	180,000	515,000	283,000	602,000	358,000	222,000	114,000	180,000	92,500	121,000
22	77,200	227,000	162,000	521,000	265,000	585,000	343,000	231,000	118,000	154,000	98,100	133,000
23	78,100	182,000	148,000	565,000	247,000	530,000	370,000	238,000	126,000	164,000	82,600	202,000
24	72,600	147,000	107,000	650,000	242,000	465,000	432,000	261,000	135,000	150,000	84,700	329,000
25	71,700	128,000	98,300	677,000	234,000	338,000	412,000	257,000	140,000	143,000	86,500	457,000
26	102,000	128,000	122,000	697,000	234,000	253,000	376,000	239,000	148,000	139,000	76,000	503,000
27	126,000	130,000	151,000	712,000	235,000	218,000	353,000	239,000	153,000	144,000	67,200	506,000
28	145,000	123,000	161,000	720,000	225,000	199,000	366,000	242,000	159,000	134,000	67,500	465,000
29	148,000	132,000	187,000	724,000	---	189,000	352,000	218,000	192,000	107,000	105,000	375,000
30	149,000	163,000	206,000	686,000	---	169,000	310,000	224,000	208,000	105,000	132,000	247,000
31	144,000	---	207,000	561,000	---	128,000	---	220,000	---	115,000	119,000	---
Total	2,953,200	4,455,200	5,884,300	12.99×10^6	8,435,000	10.57×10^6	9,215,000	6,715,000	4,901,900	5,518,000	3,277,500	6,504,000
Mean	95,260	148,500	189,800	419,200	301,200	341,000	307,200	216,600	163,400	178,000	105,700	216,800
Max	149,000	286,000	293,000	724,000	427,000	602,000	432,000	281,000	244,000	246,000	156,000	506,000
Min	53,600	78,600	98,300	229,000	205,000	128,000	159,000	169,000	99,900	105,000	67,200	121,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	106,700	169,300	296,600	400,100	467,000	517,000	451,200	340,900	222,500	154,800	123,300	106,700
Max	335,600	450,300	717,500	1,022,000	1,217,000	1,039,000	896,400	917,800	596,400	441,200	331,100	383,500
(WY)	(1980)	(1986)	(1973)	(1937)	(1937)	(1997)	(1994)	(1983)	(1997)	(1928)	(1958)	(1979)
Min	22,710	33,400	48,610	71,650	77,380	154,700	129,900	75,180	53,840	23,350	25,390	29,330
(WY)	(1931)	(1931)	(1931)	(1940)	(1934)	(1941)	(1986)	(1941)	(1936)	(1930)	(1930)	(1930)

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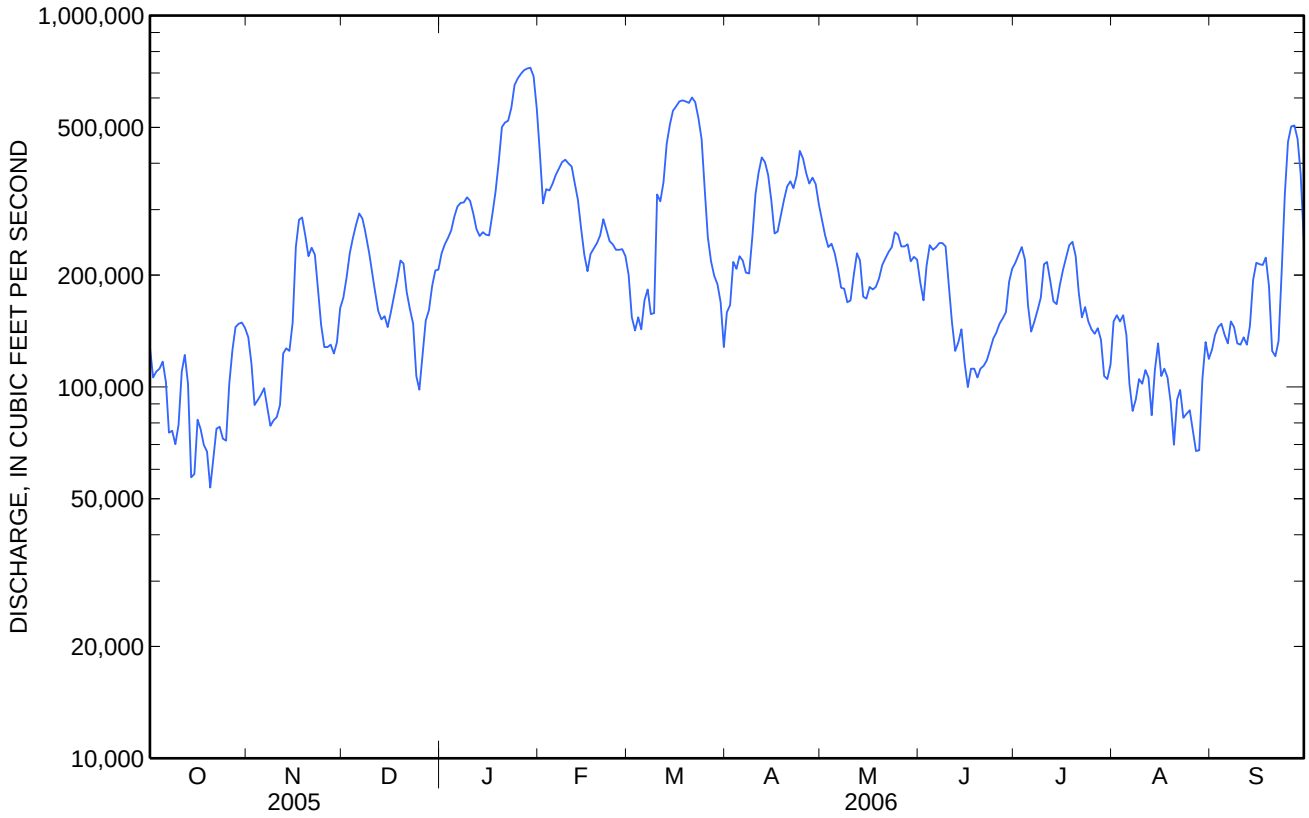
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1928 - 2006	
Annual total	98,154,700		81,426,100			
Annual mean	268,900		223,100		278,100	
Highest annual mean					436,600	1979
Lowest annual mean					120,300	1931
Highest daily mean	1,030,000	Jan 16	724,000	Jan 29	1,850,000	Feb 1, 1937
Lowest daily mean	48,000	Jun 27	53,600	Oct 20	15,000	Jul 20, 1930
Annual seven-day minimum	63,900	Jun 24	66,300	Oct 14	16,600	Jul 20, 1930
Maximum peak flow			728,000	Jan 29	1,850,000	Feb 1, 1937
Maximum peak stage			42.86	Jan 29	66.60	Feb 2, 1937
10 percent exceeds	595,000		401,000		635,000	
50 percent exceeds	162,000		193,000		193,000	
90 percent exceeds	76,300		97,000		69,600