Water-Data Report 2008

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 miles downstream from Tennessee River, 37 miles upstream from mouth, and at mile 944.1.

DRAINAGE AREA.—203,000. 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 miles upstream at Paducah since 1890 are contained in reports of National Weather Service. Occasional discharge measurements from 1881 to 1924 in reports of Mississippi River Commission.

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

COOPERATION.--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

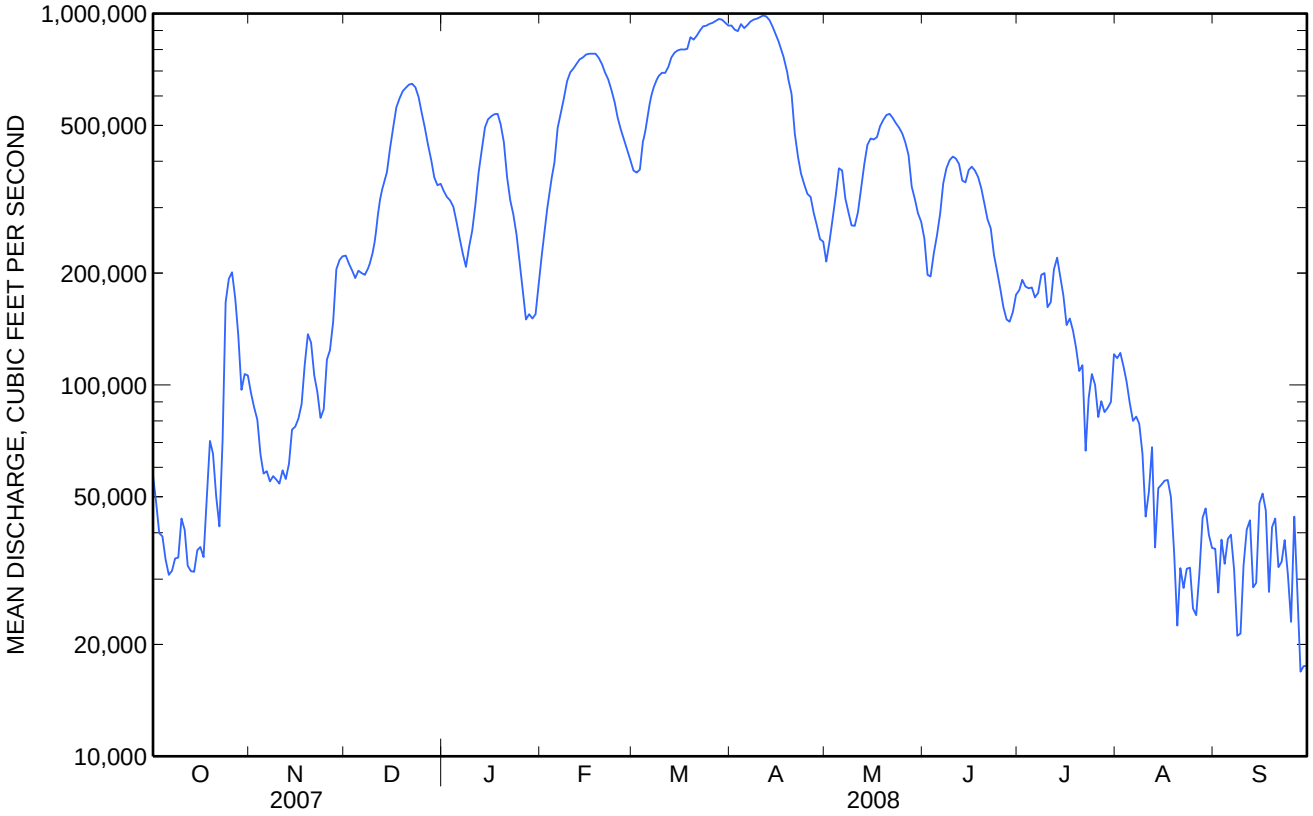
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated; $\times 10^6$, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	57,000	95,400	223,000	332,000	224,000	378,000	928,000	215,000	248,000	e180,000	e118,000	e36,200
2	48,100	87,000	212,000	321,000	266,000	373,000	906,000	243,000	e198,000	e192,000	e122,000	e27,600
3	39,900	80,600	203,000	314,000	311,000	380,000	897,000	281,000	e196,000	e184,000	e112,000	e38,300
4	39,100	64,900	194,000	302,000	355,000	452,000	937,000	326,000	226,000	e182,000	e102,000	e33,000
5	33,800	57,700	203,000	275,000	397,000	498,000	914,000	383,000	e253,000	e183,000	e89,200	e38,500
6	e30,800	58,600	200,000	248,000	492,000	563,000	931,000	378,000	e290,000	e172,000	e80,000	e39,500
7	31,600	55,000	198,000	e226,000	540,000	618,000	952,000	318,000	e349,000	e177,000	e82,200	e31,800
8	34,100	e56,800	206,000	208,000	591,000	654,000	963,000	291,000	e383,000	e198,000	e78,600	e21,100
9	34,300	e55,600	217,000	236,000	657,000	679,000	969,000	269,000	e403,000	e200,000	e65,400	e21,400
10	43,700	54,200	240,000	260,000	695,000	693,000	e978,000	268,000	e412,000	e162,000	e44,200	e32,700
11	40,700	58,900	284,000	306,000	712,000	692,000	988,000	292,000	e407,000	e167,000	e51,400	e40,800
12	32,600	55,800	319,000	373,000	e733,000	719,000	982,000	339,000	e393,000	e205,000	e68,000	e43,200
13	31,500	e61,400	348,000	430,000	753,000	762,000	960,000	394,000	e355,000	e220,000	e36,500	e28,500
14	31,400	75,800	374,000	494,000	762,000	785,000	921,000	443,000	e351,000	e195,000	e52,700	e29,300
15	35,900	77,200	435,000	519,000	776,000	796,000	880,000	461,000	e379,000	e174,000	e53,900	e48,000
16	36,600	81,200	496,000	529,000	780,000	801,000	836,000	458,000	e387,000	e145,000	e55,200	e51,000
17	34,400	88,900	559,000	536,000	780,000	800,000	785,000	465,000	e378,000	e151,000	e55,500	e45,900
18	49,500	113,000	591,000	537,000	780,000	803,000	734,000	497,000	e363,000	e140,000	49,900	e27,700
19	70,700	137,000	618,000	503,000	760,000	864,000	665,000	517,000	e338,000	e126,000	e35,400	e41,400
20	65,300	130,000	632,000	450,000	731,000	851,000	607,000	533,000	e308,000	e109,000	e22,500	e43,700
21	50,100	106,000	644,000	363,000	e694,000	871,000	476,000	537,000	e279,000	e113,000	32,100	e32,300
22	e41,600	95,800	647,000	314,000	665,000	899,000	412,000	524,000	e264,000	e66,500	28,400	e33,400
23	e71,000	81,500	633,000	288,000	623,000	924,000	371,000	507,000	e224,000	e92,300	e32,000	e38,200
24	167,000	85,900	596,000	254,000	578,000	927,000	347,000	493,000	e203,000	e107,000	32,200	e30,900
25	193,000	117,000	542,000	213,000	525,000	938,000	327,000	475,000	e182,000	e100,000	e25,000	e23,000
26	201,000	124,000	493,000	178,000	487,000	944,000	321,000	450,000	e162,000	e81,900	e24,000	e44,200
27	171,000	148,000	443,000	150,000	457,000	956,000	291,000	416,000	e150,000	e90,400	e31,100	e27,900
28	136,000	205,000	403,000	155,000	429,000	967,000	269,000	342,000	e148,000	e84,500	e43,900	e16,900
29	97,000	217,000	362,000	151,000	404,000	963,000	247,000	316,000	e157,000	e86,800	e46,500	e17,500
30	107,000	222,000	345,000	e155,000	---	945,000	243,000	290,000	e175,000	e90,000	e39,500	e17,500
31	106,000	---	348,000	186,000	---	928,000	---	275,000	---	e121,000	e36,400	---
Total	2,161,700	2,947,200	12.20×10^6	9,806,000	16.95×10^6	23.42×10^6	21.03×10^6	11.99×10^6	8,561,000	4,495,400	1,745,700	1,001,400
Mean	69,730	98,240	393,800	316,300	584,700	755,600	701,200	387,000	285,400	145,000	56,310	33,380
Max	201,000	222,000	647,000	537,000	780,000	967,000	988,000	537,000	412,000	220,000	122,000	51,000
Min	30,800	54,200	194,000	150,000	224,000	373,000	243,000	215,000	148,000	66,500	22,500	16,900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	108,200	171,600	297,800	401,800	465,900	519,700	453,600	339,400	221,400	153,500	121,900	105,100
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)

03611500 OHIO RIVER AT METROPOLIS, IL—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1928 - 2008	
Annual total	84,251,400		116,339,400			
Annual mean	230,800		317,900		278,400	
Highest annual mean					436,600	1979
Lowest annual mean					120,300	1931
Highest daily mean	743,000	Jan 25	988,000	Apr 11	1,850,000	Feb 1, 1937
Lowest daily mean	30,800	Oct 6	16,900	Sep 28	15,000	Jul 20, 1930
Annual seven-day minimum	34,700	Oct 11	25,400	Sep 24	16,600	Jul 20, 1930
Maximum peak flow			997,000	Apr 11	1,850,000	Feb 1, 1937
Maximum peak stage			53.61	Mar 25	66.60	Feb 2, 1937
10 percent exceeds	580,000		780,000		636,000	
50 percent exceeds	138,000		226,000		194,000	
90 percent exceeds	47,000		36,100		68,500