05474500 MISSISSIPPI RIVER AT KEOKUK, IA

Upper Mississippi-Skunk-Wapsipinicon Basin
Flint-Henderson Subbasin

LOCATION.--Lat 40°23′37″, long 91°22′27″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.30, T.65 N., R.4 W., Lee County, IA, Hydrologic Unit 07080104, near right bank in tailwater of dam and powerplant of Union Electric Co. at Keokuk, 0.2 mi upstream from bridge on U.S. Highway 136, 2.7 mi upstream from Des Moines River, and at mile 364.2 upstream from Ohio River.

DRAINAGE AREA.--119,000 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1878 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.41 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). January 1, 1878 to May 1913, nonrecording gage at Galland (formerly Nashville), 8 mi upstream; Zero of gage was set to low-water mark of 1864, or 496.52 ft above sea level.

COOPERATION.--Records provided by Ameren-Union Electric Co.

REMARKS.--Discharge computed from records of operation of turbines in powerplant and spillway gates in dam. Minor flow regulation caused by powerplant since 1913 and navigation dams. Records for May 1913 to September 1937 adjusted for change in contents in Keokuk Reservoir, those after September 1937 unadjusted.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1851 reached a stage of 21.0 ft, present site and datum, estimated as 13.5 ft at Galland, discharge 360,000 ft^3/s.

05474500 MISSISSIPPI RIVER AT KEOKUK, IA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

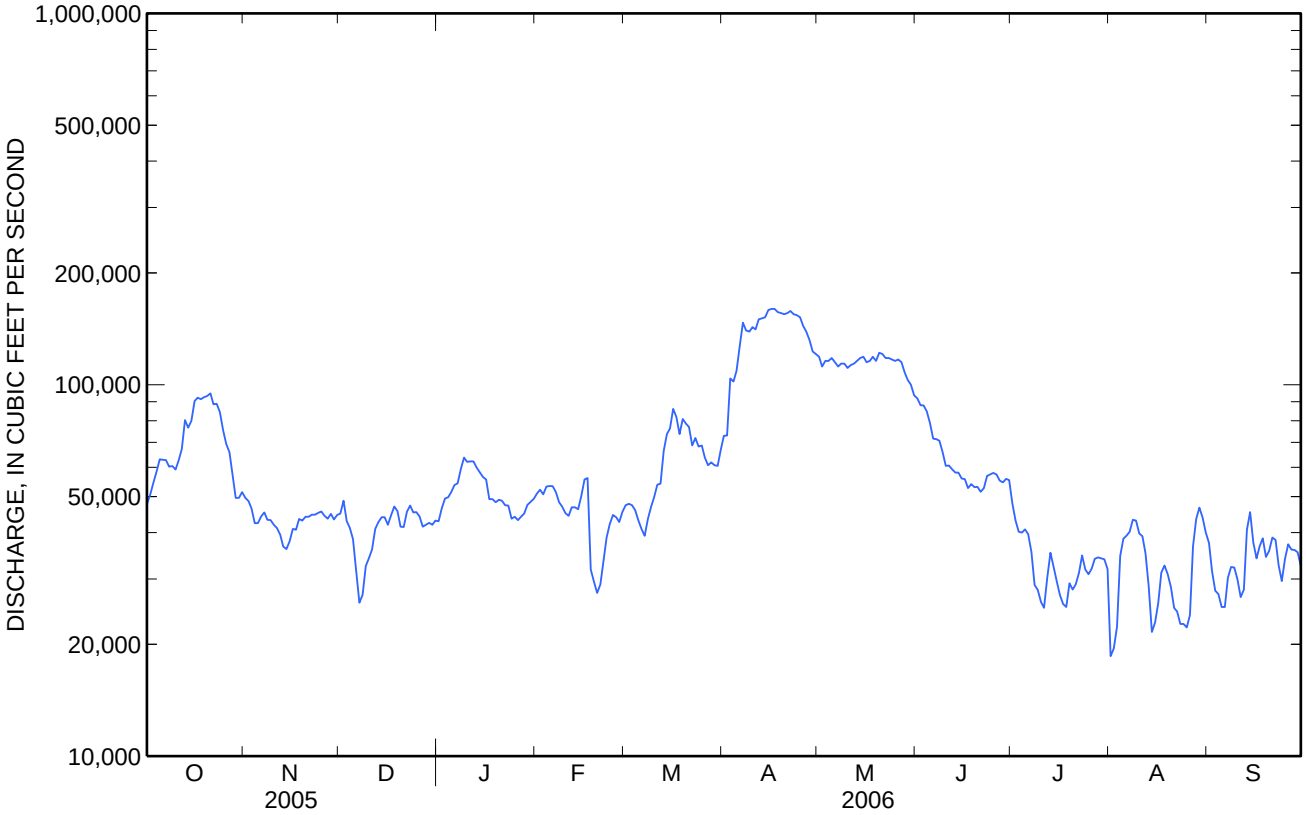
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	47,700	49,600	45,000	42,900	50,900	47,400	72,900	119,000	91,900	47,900	18,600	37,500
2	50,500	48,600	48,700	46,500	52,200	47,800	73,000	112,000	88,100	43,100	19,500	31,500
3	54,400	46,400	42,900	49,400	50,700	47,400	104,000	116,000	88,000	40,200	22,300	27,900
4	58,300	42,400	41,200	49,800	53,200	45,900	102,000	116,000	84,800	40,000	34,600	27,300
5	63,000	42,400	38,400	51,500	53,400	43,200	109,000	118,000	78,900	40,800	38,500	25,200
6	62,800	44,200	31,500	53,700	53,300	40,900	127,000	115,000	71,600	39,600	39,200	25,200
7	62,700	45,300	25,900	54,300	51,400	39,200	147,000	112,000	71,400	35,500	40,200	30,200
8	60,200	43,300	27,200	59,300	48,300	43,500	140,000	114,000	70,700	28,900	43,300	32,300
9	60,400	43,200	32,500	63,700	46,900	46,900	139,000	114,000	65,900	28,000	43,100	32,200
10	59,100	42,000	34,100	62,000	45,100	49,800	143,000	111,000	60,500	26,000	39,800	29,900
11	62,700	41,100	36,000	62,200	44,400	53,800	141,000	113,000	60,600	25,100	39,100	26,800
12	67,100	39,500	40,900	62,200	46,800	54,200	150,000	114,000	59,200	30,200	35,200	28,100
13	80,300	36,700	42,700	59,800	46,800	66,400	151,000	116,000	58,000	35,300	28,700	40,700
14	76,700	36,100	44,000	58,100	46,200	73,700	152,000	118,000	58,000	32,300	21,600	45,400
15	80,000	37,900	44,000	56,400	50,200	76,200	159,000	119,000	55,900	29,500	22,900	37,600
16	90,400	40,900	42,000	55,600	55,600	86,100	160,000	115,000	55,700	27,200	25,900	34,100
17	92,300	40,700	44,500	49,200	56,100	81,900	160,000	116,000	52,700	25,700	31,200	36,800
18	91,500	43,500	47,000	49,200	31,800	73,700	157,000	119,000	54,000	25,200	32,600	38,600
19	92,600	43,100	45,700	48,300	29,500	80,900	156,000	116,000	53,000	29,200	30,900	34,400
20	93,300	44,100	41,500	49,000	27,500	78,600	155,000	122,000	53,100	28,100	28,500	35,700
21	94,800	44,100	41,400	48,700	29,000	77,000	156,000	121,000	51,500	29,000	25,100	38,800
22	88,600	44,700	45,500	47,400	33,400	68,700	158,000	118,000	52,700	31,100	24,500	38,200
23	88,900	44,700	47,300	47,300	38,800	71,900	155,000	118,000	56,800	34,700	22,700	32,700
24	84,400	45,200	45,300	43,600	42,200	68,200	154,000	117,000	57,400	31,800	22,700	29,600
25	75,500	45,600	45,400	44,100	44,600	68,600	152,000	116,000	57,900	30,900	22,200	34,000
26	69,200	44,400	44,200	43,200	44,000	63,700	144,000	117,000	57,300	32,000	24,000	37,200
27	65,800	43,600	41,500	44,100	42,700	60,700	139,000	115,000	55,200	34,000	36,700	36,000
28	57,300	44,900	42,000	45,000	45,500	61,800	132,000	108,000	54,600	34,300	43,500	35,900
29	49,600	43,400	42,500	47,500	---	60,700	123,000	103,000	55,800	34,100	46,700	35,400
30	49,600	44,600	42,000	48,400	---	60,500	121,000	100,000	55,400	33,900	43,900	32,500
31	51,400	---	43,100	49,300	---	66,900	---	93,700	---	31,900	40,000	---
Mean	70,360	43,210	41,160	51,350	45,020	61,490	137,700	114,200	62,890	32,760	31,860	33,590
Max	94,800	49,600	48,700	63,700	56,100	86,100	160,000	122,000	91,900	47,900	46,700	45,400
Min	47,700	36,100	25,900	42,900	27,500	39,200	72,900	93,700	51,500	25,100	18,600	25,200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1879 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	51,060	51,140	38,780	36,220	43,070	80,080	119,800	109,500	95,140	74,780	49,490	47,160
Max	221,100	211,300	125,600	101,600	95,620	185,400	250,100	260,700	227,300	385,800	223,000	163,300
(WY)	(1882)	(1882)	(1983)	(1973)	(1984)	(1973)	(1993)	(1888)	(1892)	(1993)	(1993)	(1993)
Min	16,060	16,020	13,450	14,650	15,790	21,780	32,930	27,600	17,400	16,280	13,030	15,530
(WY)	(1934)	(1934)	(1934)	(1940)	(1899)	(1934)	(1895)	(1934)	(1934)	(1988)	(1936)	(1976)

05474500 MISSISSIPPI RIVER AT KEOKUK, IA—Continued

SUMMARY STATISTICS

	Water Year 2006		Water Years 1879 - 2006	
Annual mean	60,500		66,400	
Highest annual mean			162,500	1993
Lowest annual mean			21,540	1934
Highest daily mean	160,000	Apr 16 [a]	434,000	Jul 10, 1993
Lowest daily mean	18,600	Aug 1	5,000	Dec 27, 1933
Annual seven-day minimum	24,200	Aug 20	8,270	Dec 25, 1933
Maximum peak flow			446,000	Jul 10, 1993
Maximum peak stage			27.58	Jul 10, 1993 [b]
10 percent exceeds	116,000		133,000	
50 percent exceeds	47,400		51,000	
90 percent exceeds	29,600		23,000	

[a] Also Apr 17.
[b] From floodmark.