

UPPER MISSISSIPPI RIVER MAIN STEM

05476000 DES MOINES RIVER AT JACKSON, MN

LOCATION.--Lat 4337'10", long 9459'10", in SE 1 / 4 SW 1 / 4 sec. 24, T.102 N., R.35 W., Jackson County, Hydrologic Unit 07100001, on right bank in storage room of city power plant in Jackson.

DRAINAGE AREA.--1,250 mi² (revised).

PERIOD OF RECORD.--May 1909 to December 1913, August 1930 to current year (winter record incomplete prior to 1936). Published as Des Moines River near Jackson, 1930-35, as West Fork Des Moines River near Jackson, 1936-44, and as West Fork Des Moines River at Jackson, 1945-69.

REVISED RECORDS.--WSP 1115: 1942. WSP 1175: Drainage area. WSP 1238: 1950. WSP 1308: 1938(M).

GAGE.--Water-stage recorder. Datum of gage is 1,287.75 ft above mean sea level. May 31, 1909 to Dec. 20, 1913, nonrecording gage at site 0.6 mi downstream at datum 0.99 ft lower. Aug. 22, 1930 to Sept. 30, 1944, nonrecording gage at site 7 mi upstream at datum 17.10 ft higher. Oct. 1, 1944 to Oct. 26, 1949, nonrecording gage at site 600 ft upstream at datum 10.64 ft higher. Oct. 27, 1949 to Dec. 15, 1965, water-stage recorder 200 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Regulation at times from Yankton, Long, Shetek, and Heron Lakes.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 900 ft³/s and maximum (*)

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 03	1330	*1910	*9.15	(No other peak above base discharge.)			

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	34	47	35	38	378	1620	577	216	263	79	292
2	51	40	46	35	34	344	1790	546	214	239	81	291

TOTAL	1170	1372	1318	988	3723	10550	37979	11235	6468	5863	9790	3132
MEAN	37.7	45.7	42.5	31.9	133	340	1266	362	216	189	316	104
MAX	51	64	49	41	567	1490	1870	577	417	263	494	292
MIN	27	34	34	21	31	116	618	223	153	85	79	14
AC-FT	2320	2720	2610	1960	7380	20930	75330	22280	12830	11630	19420	6210
CFSM	.03	.04	.03	.03	.11	.28	1.04	.30	.18	.16	.26	.09
IN.	.04	.04	.04	.03	.11	.32	1.16	.34	.20	.18	.30	.10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	168	178	104	49.0	68.6	469	1072	645	627	543	236	180
MAX	1724	1833	792	298	504	2250	6045	3923	4892	6018	2192	2243
(WY)	1987	1980	1980	1980	1983	1983	1969	1993	1993	1993	1993	1942
MIN	.000	.000	.000	.000	.000	11.8	9.37	2.59	3.76	1.04	.13	.000
(WY)	1956	1956	1956	1956	1936	1959	1959	1934	1931	1931	1955	1931

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1930 - 1998				
ANNUAL TOTAL	280225	93588					
ANNUAL MEAN	768	256		383a			
HIGHEST ANNUAL MEAN				2098		1993	
LOWEST ANNUAL MEAN				15.1		1956	
HIGHEST DAILY MEAN	5450	Mar 31	1870	Apr 3	15500	Apr 11	1969
LOWEST DAILY MEAN	27	Oct 11	14	Sep 24	.00	Jul 19	1931
ANNUAL SEVEN-DAY MINIMUM	32	Oct 23	15	Sep 22	.00	Jul 19	1931
INSTANTANEOUS PEAK FLOW			1910	Apr 3	15700	Apr 11	1969

INSTANTANEOUS PEAK STAGE			9.15	Apr 3	19.45	Apr 11	1969
INSTANTANEOUS LOW FLOW			12	Sep 26	.00b	Jul 19	1931
ANNUAL RUNOFF (AC-FT)	555800		185600		277700		
ANNUAL RUNOFF (CFSM)	.63		.21		.31		
ANNUAL RUNOFF (INCHES)	8.54		2.85		4.27		
10 PERCENT EXCEEDS	2130		554		1030		
50 PERCENT EXCEEDS	166		151		88		
90 PERCENT EXCEEDS	40		32		3.1		

a Median of annual mean discharges is 260 ft³ /s.

b Many days, several years.

