

## UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05476000 DES MOINES RIVER AT JACKSON, MN

LOCATION.--Lat 43°37'10", long 94°59'10", in SE<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 24, T.102 N., R.35 W., Jackson County, Hydrologic Unit 07100001, on right bank at old dam structure in Jackson.

DRAINAGE AREA.--1,250 mi<sup>2</sup>.

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 sea level (NGVD of 1929). 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 to poor. Regulation at times from Yankton, Long, Shetek, and Heron Lakes.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 540 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 18	0830	*1,200	*7.02	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	13	11	e5.5	5.2	e47	21	33	398	159	107	11
2	21	11	11	e5.4	5.3	e45	19	28	405	186	95	13
3	16	14	13	e5.3	5.5	44	18	22	392	190	85	14
4	14	8.8	13	e5.3	5.5	42	20	23	443	188	80	12
5	16	9.0	15	e5.2	5.6	39	17	21	457	198	121	10
6	23	9.3	13	e5.2	5.8	37	20	20	402	194	107	8.4
7	20	11	13	e5.2	6.1	37	25	21	378	179	101	7.1
8	23	10	14	e5.3	6.2	48	21	28	364	198	133	5.8
9	25	11	13	e5.4	6.4	58	27	23	337	214	126	5.5
10	20	11	9.9	e5.5	6.3	48	22	20	313	268	109	4.9
11	14	11	12	e5.6	7.0	57	19	27	290	318	95	4.2
12	14	11	10	e5.6	6.3	44	17	32	248	443	89	2.7
13	10	10	11	e5.6	6.2	37	17	42	249	464	85	3.2
14	13	11	e11	e5.6	6.0	34	22	57	257	424	75	3.8
15	18	16	e10	e5.6	5.9	35	28	75	254	389	62	3.6
16	17	15	e7.7	e5.5	5.5	36	30	112	228	392	59	3.1
17	18	14	e7.0	e5.4	5.6	28	24	118	224	365	48	3.1
18	15	13	e7.0	e5.1	5.6	38	22	600	210	318	44	2.9
19	13	13	e7.4	e4.9	5.9	35	28	370	211	293	34	2.8
20	12	12	e6.5	e4.8	6.0	35	39	401	196	283	29	2.6
21	13	13	5.3	e4.7	6.6	40	50	587	196	258	27	2.1
22	11	12	4.9	e4.6	7.7	38	62	741	155	231	25	4.7
23	12	17	e4.8	e4.6	e13	37	50	756	134	218	22	4.6
24	13	16	e4.7	e4.6	e23	36	40	689	139	207	20	3.6
25	10	15	e4.8	e4.6	e36	39	34	569	186	194	19	4.6
26	8.8	15	e4.9	e4.6	e50	61	30	460	209	186	17	5.0
27	11	15	e5.1	e4.7	e53	50	34	437	199	167	15	5.5
28	9.0	15	e5.2	e4.8	e52	40	34	428	188	150	15	11
29	11	13	e5.4	e4.8	e50	29	32	385	188	136	13	12
30	12	11	e5.5	e4.9	---	30	34	373	172	126	12	10
31	11	---	e5.6	e5.0	---	26	---	396	---	117	12	---
TOTAL	463.8	376.1	271.7	158.9	409.2	1250	856	7894	8022	7653	1881	186.8
MEAN	15.0	12.5	8.76	5.13	14.1	40.3	28.5	255	267	247	60.7	6.23
MAX	25	17	15	5.6	53	61	62	756	457	464	133	14
MIN	8.8	8.8	4.7	4.6	5.2	26	17	20	134	117	12	2.1
AC-FT	920	746	539	315	812	2480	1700	15660	15910	15180	3730	371
CFSM	.01	.01	.01	.00	.01	.03	.02	.20	.21	.20	.05	.00
IN.	.01	.01	.01	.00	.01	.04	.03	.23	.24	.23	.06	.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	166	184	109	50.4	70.2	463	1064	648	623	540	231	175
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 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1930 - 2000

ANNUAL TOTAL		156288.6		29422.5								
ANNUAL MEAN		428		80.4						381 <sup>a</sup>		
HIGHEST ANNUAL MEAN										2098		1993
LOWEST ANNUAL MEAN										15.1		1956
HIGHEST DAILY MEAN				2350	Apr 16		756	May 23		15500		Apr 11 1969
LOWEST DAILY MEAN				4.7	Dec 24		2.1	Sep 21		.00 <sup>b</sup>		Jul 19 1931
ANNUAL SEVEN-DAY MINIMUM				4.9	Dec 22		2.9	Sep 15		.00		Jul 19 1931
INSTANTANEOUS PEAK FLOW							1200	May 18		15700		Apr 11 1969
INSTANTANEOUS PEAK STAGE							7.02	May 18		19.45		Apr 11 1969
INSTANTANEOUS LOW FLOW							1.7	Sep 20		.00 <sup>b</sup>		Jul 19 1931
ANNUAL RUNOFF (AC-FT)			310000				58360			276100		
ANNUAL RUNOFF (CFSM)			.34				.064			.30		
ANNUAL RUNOFF (INCHES)			4.65				.88			4.14		
10 PERCENT EXCEEDS			1250				261			1020		
50 PERCENT EXCEEDS			187				20			88		
90 PERCENT EXCEEDS			11				5.1			3.4		

<sup>a</sup> Median of annual mean discharges is 260 ft<sup>3</sup>/s.

<sup>b</sup> Many days, several years.

<sup>e</sup> Estimated.

