

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05476000 DES MOINES RIVER AT JACKSON, MN

LOCATION.--Lat 43°37'10", long 94°59'10", in SE¹/₄SW¹/₄ 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 mi².

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. Regulation at times from Yankton, Long, Shetek, and Heron Lakes.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 540 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 12	1130	6,160	15.11	Jun 15	0730	2,770	10.80
Apr 28	0100	*6,550	*15.44	Jul 28	0630	848	5.97

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	42	34	15	e15	e15	e1700	5620	1730	1380	619	42
2	8.2	28	e31	15	e14	e15	e1850	5300	1650	1290	540	43
3	7.2	24	e29	14	e13	e15	e1700	4970	1560	1260	473	39
4	12	20	e26	15	e13	e16	e2100	4490	1490	1190	432	34
5	19	18	e23	15	e14	e16	2420	4060	1450	1100	355	28
6	13	39	e23	16	e14	e16	3080	3860	1420	1030	326	26
7	15	61	e22	16	e14	e16	3740	3770	1400	976	296	30
8	10	65	e21	16	e15	e16	4110	3660	1390	912	255	32
9	8.4	58	e19	16	e15	e16	4210	3450	1350	853	175	27
10	7.9	51	e18	16	e15	16	4120	3330	1320	794	138	23
11	8.1	45	e17	16	e14	16	5260	3250	1280	734	120	21
12	16	63	e16	16	e15	18	6010	3070	1240	674	102	21
13	18	95	e16	16	e15	16	6010	2880	1810	614	94	20
14	19	90	e15	16	e16	18	5660	2690	2490	563	86	22
15	18	58	e15	16	e16	17	5450	2490	2740	512	81	24
16	14	43	e16	16	e16	17	5350	2280	2620	464	78	35
17	13	e43	e16	16	e15	18	5150	2080	2560	431	77	41
18	21	e42	e17	e16	e14	19	4790	1920	2550	395	77	79
19	24	e40	e17	e15	e14	21	4430	1790	2510	365	73	61
20	20	e39	e17	e15	e15	36	4050	1770	2410	349	75	66
21	12	e38	e16	e15	e14	78	4020	1920	2260	345	70	62
22	9.6	e38	e16	e16	e14	139	3790	2040	2110	387	68	55
23	11	38	e16	e16	e14	179	4470	2060	1970	435	64	39
24	12	37	e15	e15	e14	270	5320	2010	1850	634	59	34
25	20	34	e14	e15	e15	270	5590	1970	1720	668	60	31
26	24	35	e14	e15	e15	210	5740	1980	1600	626	61	31
27	24	34	e14	e16	e15	179	6250	1980	1490	782	55	30
28	22	33	e14	e17	e15	176	6400	1980	1390	839	52	26
29	24	32	e15	e16	---	193	6230	1950	1370	800	51	24
30	27	33	16	e16	---	293	5920	1870	1410	737	52	23
31	38	---	15	e15	---	e800	---	1790	---	678	51	---
TOTAL	506.4	1316	573	484	408	3140	134920	88280	54140	22817	5115	1069
MEAN	16.3	43.9	18.5	15.6	14.6	101	4497	2848	1805	736	165	35.6
MAX	38	95	34	17	16	800	6400	5620	2740	1380	619	79
MIN	7.2	18	14	14	13	15	1700	1770	1240	345	51	20
AC-FT	1000	2610	1140	960	809	6230	267600	175100	107400	45260	10150	2120
CFSM	.01	.04	.01	.01	.01	.08	3.60	2.28	1.44	.59	.13	.03
IN.	.02	.04	.02	.01	.01	.09	4.02	2.63	1.61	.68	.15	.03

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	164	182	108	49.9	69.4	457	1112	679	640	542	230	173
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1930 - 2001

ANNUAL TOTAL	30706.3		312768.4		388a		
ANNUAL MEAN	83.9		857		2098		
HIGHEST ANNUAL MEAN					15.1		
LOWEST ANNUAL MEAN					1993		
HIGHEST DAILY MEAN	756	May 23	6400	Apr 28	15500	Apr 11	1969
LOWEST DAILY MEAN	2.1	Sep 21	7.2	Oct 3	.00b	Jul 19	1931
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 15	11	Oct 6	.00	Jul 19	1931
MAXIMUM PEAK FLOW			6550		15700		
MAXIMUM PEAK STAGE			15.44		Apr 28		
INSTANTANEOUS LOW FLOW			6.3		Oct 3		
ANNUAL RUNOFF (AC-FT)	60910		620400		281300		
ANNUAL RUNOFF (CFSM)	.067		.69		.31		
ANNUAL RUNOFF (INCHES)	.91		9.31		4.22		
10 PERCENT EXCEEDS	261		3070		1040		
50 PERCENT EXCEEDS	28		42		88		
90 PERCENT EXCEEDS	5.3		15		3.5		

a Median of annual mean discharges is 259 ft³/s.
 b Many days, several years.
 e Estimated.

