

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05476000 DES MOINES RIVER AT JACKSON, MN

LOCATION.--Lat 43°37'10", long 94°59'10", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ 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 to poor. 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 4	daily	e568	--	May 13	0130	*706	*5.51
May 2	2230	670	5.40	Aug 22	1300	640	5.31

Minimum discharge, 4.4 ft³/s, Aug. 1, gage height, 2.35 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	18	169	e69	e68	e92	e467	553	434	204	6.9	229
2	24	18	151	e67	e67	e96	e520	642	460	167	5.0	178
3	19	17	188	e67	e66	e82	e541	629	444	145	9.3	151
4	19	16	216	e69	e66	e82	e568	602	450	124	15	e130
5	19	16	213	e72	69	e81	e536	555	440	113	29	112
6	16	16	226	e73	64	e82	528	515	440	109	144	106
7	15	18	213	e74	65	e81	520	479	465	100	192	98
8	15	17	210	e75	66	e80	491	483	477	81	227	90
9	17	17	172	e76	70	e79	474	540	456	72	199	81
10	25	15	272	e79	69	e80	469	519	443	72	198	73
11	22	14	277	e80	68	80	507	526	450	68	185	66
12	21	16	278	e83	62	78	502	648	382	64	181	61
13	21	17	258	e84	71	83	502	687	349	73	169	56
14	24	20	191	e86	68	87	518	650	330	63	175	62
15	23	18	250	e86	73	89	525	639	281	53	151	57
16	21	16	264	e88	81	87	520	664	268	49	134	49
17	21	31	265	e87	89	96	556	631	259	43	115	46
18	37	69	240	e86	101	104	521	607	251	37	99	41
19	36	69	197	e82	117	e99	500	564	253	34	101	42
20	26	62	134	e79	132	e97	431	519	278	28	75	37
21	23	45	e110	e78	142	e98	481	480	264	29	186	34
22	19	46	e101	e77	154	e95	502	469	269	31	491	34
23	18	95	e92	e75	e155	e92	484	478	309	21	568	30
24	20	185	e84	e73	e140	e90	485	416	367	19	525	28
25	20	242	e82	e71	e122	e88	445	361	422	18	546	36
26	23	238	e90	e70	e98	e88	384	370	406	13	507	37
27	18	233	e93	e68	e96	e102	431	357	354	12	428	31
28	33	164	e87	e66	e98	e177	510	339	309	9.7	358	27
29	30	140	e82	e65	---	e288	519	341	274	12	303	28
30	24	189	e77	e65	---	e347	529	353	245	13	264	31
31	19	---	e72	e68	---	e410	---	404	---	8.9	239	---
TOTAL	691	2077	5354	2338	2537	3610	14966	16020	10829	1885.6	6825.2	2081
MEAN	22.3	69.2	173	75.4	90.6	116	499	517	361	60.8	220	69.4
MAX	37	242	278	88	155	410	568	687	477	204	568	229
MIN	15	14	72	65	62	78	384	339	245	8.9	5.0	27
AC-FT	1370	4120	10620	4640	5030	7160	29690	31780	21480	3740	13540	4130
CFSM	0.02	0.06	0.14	0.06	0.07	0.09	0.40	0.41	0.29	0.05	0.18	0.06
IN.	0.02	0.06	0.16	0.07	0.08	0.11	0.45	0.48	0.32	0.06	0.20	0.06

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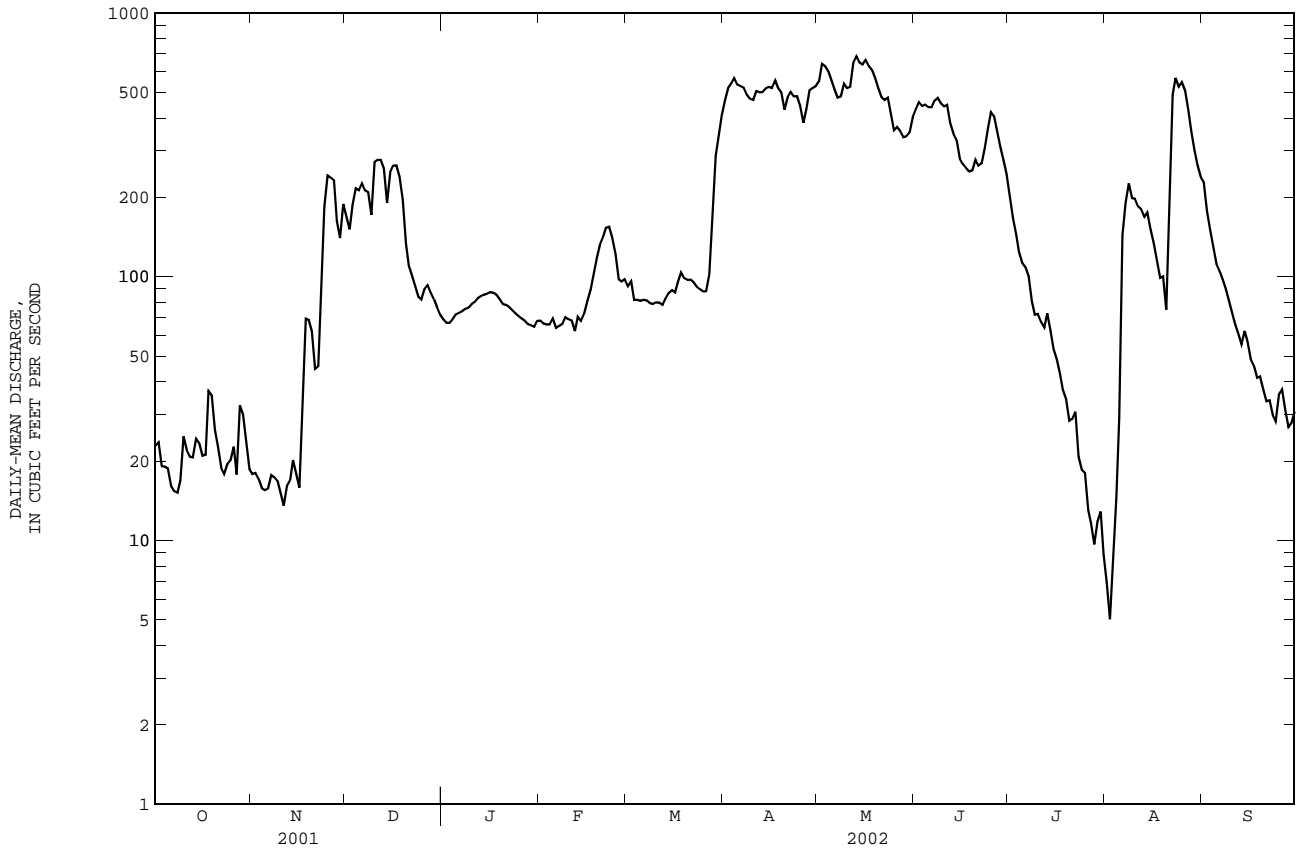
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	162	180	109	50.3	69.7	453	1104	677	636	536	230	172
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	0.000	0.000	0.000	0.000	0.000	11.8	9.37	2.59	3.76	1.04	0.13	0.000
(WY)	1956	1956	1956	1956	1936	1959	1959	1934	1931	1931	1955	1931

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1930 - 2002

ANNUAL TOTAL		318495		69213.8								
ANNUAL MEAN		873		190						385a		
HIGHEST ANNUAL MEAN										2098		1993
LOWEST ANNUAL MEAN										15.1		1956
HIGHEST DAILY MEAN			6400	Apr 28		687	May 13		15500	Apr 11		1969
LOWEST DAILY MEAN			13	Feb 3		5.0	Aug 2		0.00b	Jul 19		1931
ANNUAL SEVEN-DAY MINIMUM			14	Feb 1		9.3	Jul 28		0.00	Jul 19		1931
MAXIMUM PEAK FLOW						706c	May 13		15700	Apr 11		1969
MAXIMUM PEAK STAGE						6.07d	Apr 2		19.45	Apr 11		1969
INSTANTANEOUS LOW FLOW						4.4	Aug 1		0.00b	Jul 19		1931
ANNUAL RUNOFF (AC-FT)		631700		137300					279100			
ANNUAL RUNOFF (CFMS)		0.70		0.15					0.31			
ANNUAL RUNOFF (INCHES)		9.48		2.06					4.19			
10 PERCENT EXCEEDS		3070		507					1070			
50 PERCENT EXCEEDS		82		95					95			
90 PERCENT EXCEEDS		15		19					4.2			

- a Median of annual mean discharges is 256 ft³/s.
- b Many days, several years.
- c Gage height, 5.51 ft.
- d Backwater from ice.
- e Estimated.



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