

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 in atold dam.

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. 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 (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 23	0130	1,040	6.71	Jun 12	2200	893	6.17
Mar 20	1630	835	6.00	Jul 6	0530	1,050	6.62
Apr 16	1400	*2,360	*9.76	Jul 19	(daily)	e650	--

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	393	898	e280	e180	e300	591	1490	820	637	229	17
2	21	400	874	e260	e182	e310	568	1490	815	629	207	16
3	32	397	844	e230	e182	e320	562	1420	807	e800	197	15
4	26	395	807	e210	e182	e320	552	1380	787	e1000	185	22
5	21	386	784	e190	e185	e320	583	1400	785	e1020	168	27
6	38	379	759	e185	e187	e320	666	1350	760	1040	146	21
7	83	391	726	e175	e188	e320	734	1470	727	979	138	17
8	117	381	704	e170	e190	e320	798	1510	676	e900	132	14
9	120	388	668	e175	e196	e320	1160	1480	639	e800	115	14
10	137	504	646	e170	e200	e350	1490	1460	692	e730	111	13
11	136	634	619	e170	e190	e365	1770	1450	792	e640	108	12
12	126	618	588	e170	e180	e380	2000	1400	876	e570	91	12
13	118	725	588	e170	e190	e410	2120	1320	878	e500	88	12
14	104	786	578	e170	e210	e430	2170	1260	826	e460	79	15
15	104	831	572	e170	e250	449	2270	1230	766	e430	58	25
16	129	846	547	e172	e260	534	2350	1220	726	e400	58	24
17	175	861	529	e172	e270	675	2340	1240	678	365	69	20
18	195	877	521	e172	e260	699	2270	1160	644	e450	59	26
19	200	909	342	e172	e260	752	2190	1110	665	e650	50	24
20	197	925	187	e172	e260	824	2100	1100	684	e500	50	19
21	212	927	180	e173	e250	781	1980	1140	671	529	44	17
22	221	1030	e180	e175	e250	714	1880	1120	658	549	44	19
23	223	1040	e235	e176	e250	674	1770	1140	656	533	39	19
24	218	1010	e340	e176	e260	639	1690	1220	630	512	32	19
25	209	995	e330	e176	e270	603	1630	1270	595	475	28	18
26	201	998	e330	e177	e280	578	1580	1220	570	438	26	19
27	237	989	e340	e177	e290	565	1550	1130	605	380	24	19
28	279	980	e350	e177	e290	583	1510	1040	670	347	22	19
29	307	962	e320	e178	---	579	1480	972	688	323	20	17
30	342	936	e300	e179	---	549	1470	910	657	291	20	21
31	405	---	e300	e180	---	589	---	849	---	261	19	---
TOTAL	4951	21893	15986	5699	6342	15572	45824	38951	21443	18138	2656	552
MEAN	160	730	516	184	226	502	1527	1256	715	585	85.7	18.4
MAX	405	1040	898	280	290	824	2350	1510	878	1040	229	27
MIN	18	379	180	170	180	300	552	849	570	261	19	12
AC-FT	9820	43420	31710	11300	12580	30890	90890	77260	42530	35980	5270	1090
CFSM	.13	.58	.41	.15	.18	.40	1.22	1.01	.57	.47	.07	.01
IN.	.15	.65	.48	.17	.19	.46	1.36	1.16	.64	.54	.08	.02

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	168	186	111	51.1	71.1	469	1079	653	628	544	233	177
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1930 - 1999
ANNUAL TOTAL	132558	198007	
ANNUAL MEAN	363	542	386 ^a
HIGHEST ANNUAL MEAN			2098
LOWEST ANNUAL MEAN			15.1
HIGHEST DAILY MEAN	1870	Apr 3	2350
LOWEST DAILY MEAN	14	Sep 24	12
ANNUAL SEVEN-DAY MINIMUM	15	Sep 22	13
INSTANTANEOUS PEAK FLOW			2360
INSTANTANEOUS PEAK STAGE			9.76
INSTANTANEOUS LOW FLOW			10
ANNUAL RUNOFF (AC-FT)	262900	392700	279500
ANNUAL RUNOFF (CFSM)	.29	.43	.31
ANNUAL RUNOFF (INCHES)	3.94	5.89	4.19
10 PERCENT EXCEEDS	903	1250	1030
50 PERCENT EXCEEDS	229	381	90
90 PERCENT EXCEEDS	32	26	3.2

a Median of annual mean discharges is 260 ft³/s.
 b Many days, several years.

