

05476000 DES MOINES RIVER AT JACKSON, MN

LOCATION.--Lat 43°37'10", long 94°59'10", in SE¼SW¼ 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)
Mar 15	0530	544	4.93	Aug 3	2030	896	6.12
Jun 24	2230	2,340	9.86	Sep 15	1030	1,410	7.59
Jul 13	0100	*2,530	*10.29	Sep 22	0730	1,030	6.54

Minimum discharge, 4.8 ft³/s, Oct. 4, gage height, 2.30 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	27	e22	e19	e7.2	e52	403	200	1,170	1,490	663	141
2	12	20	e23	e20	e8.0	e101	402	206	1,260	1,440	628	124
3	13	21	e24	e18	e8.0	e134	378	198	1,380	1,290	711	93
4	10	25	e24	e16	e7.7	e129	337	194	1,570	1,410	766	87
5	13	30	e25	e15	e7.7	e110	323	186	1,770	1,540	685	98
6	10	23	e25	e12	e8.3	e131	337	172	1,930	1,430	625	100
7	9.2	18	e25	e10	e8.5	e192	303	166	1,970	1,410	591	89
8	8.6	e19	e26	e9.5	e8.6	e261	279	151	1,930	1,340	572	96
9	9.2	e20	e29	e9.9	e8.5	e266	240	168	1,840	1,260	532	87
10	8.3	e21	e24	e11	e8.6	e338	243	158	1,870	1,190	497	86
11	13	21	e21	e12	e8.9	e306	244	139	1,910	1,910	468	87
12	11	24	e21	e12	e9.0	e286	225	135	1,800	2,360	450	86
13	14	22	e20	e13	e9.0	392	219	158	1,670	2,420	427	77
14	10	21	e20	e13	e9.0	466	209	115	1,530	2,090	406	120
15	11	23	e20	e13	e9.2	462	199	89	1,450	1,860	387	846
16	11	30	e20	e12	e9.5	438	192	96	1,470	1,670	436	589
17	10	26	e19	e13	e9.9	419	177	129	1,470	1,530	468	565
18	30	24	e18	e9.8	e10	478	169	140	1,460	1,420	425	695
19	35	34	e18	e9.2	e11	444	192	139	1,450	1,350	380	699
20	30	47	e17	e8.4	e11	394	172	180	1,520	1,270	272	651
21	26	41	e17	e8.1	e11	334	174	248	1,700	1,270	255	757
22	23	42	e17	e7.8	e12	257	196	278	1,950	1,230	244	1,000
23	24	31	e16	e7.5	e12	317	184	380	2,160	1,160	235	975
24	25	e22	e16	e7.2	e12	326	198	382	2,290	1,100	217	955
25	24	e21	e16	e7.6	e13	321	233	442	2,310	1,040	166	878
26	24	e22	e16	e8.0	e13	314	258	559	2,210	981	157	792
27	21	e22	e16	e7.7	e14	318	237	624	2,030	914	154	749
28	20	e21	e19	e7.4	e16	372	230	666	1,850	851	150	713
29	22	e21	e20	e7.0	e24	400	242	712	1,700	794	141	679
30	20	e22	e20	e6.9	---	374	215	818	1,560	738	136	657
31	21	---	e19	e6.8	---	383	---	1,070	---	697	144	---
TOTAL	530.3	761	633	337.8	304.6	9,515	7,410	9,298	52,180	42,455	12,388	13,571
MEAN	17.1	25.4	20.4	10.9	10.5	307	247	300	1,739	1,370	400	452
MAX	35	47	29	20	24	478	403	1,070	2,310	2,420	766	1,000
MIN	8.3	18	16	6.8	7.2	52	169	89	1,170	697	136	77
AC-FT	1,050	1,510	1,260	670	604	18,870	14,700	18,440	103,500	84,210	24,570	26,920
CFSM	0.01	0.02	0.02	0.01	0.01	0.25	0.20	0.24	1.39	1.10	0.32	0.36
IN.	0.02	0.02	0.02	0.01	0.01	0.28	0.22	0.28	1.55	1.26	0.37	0.40

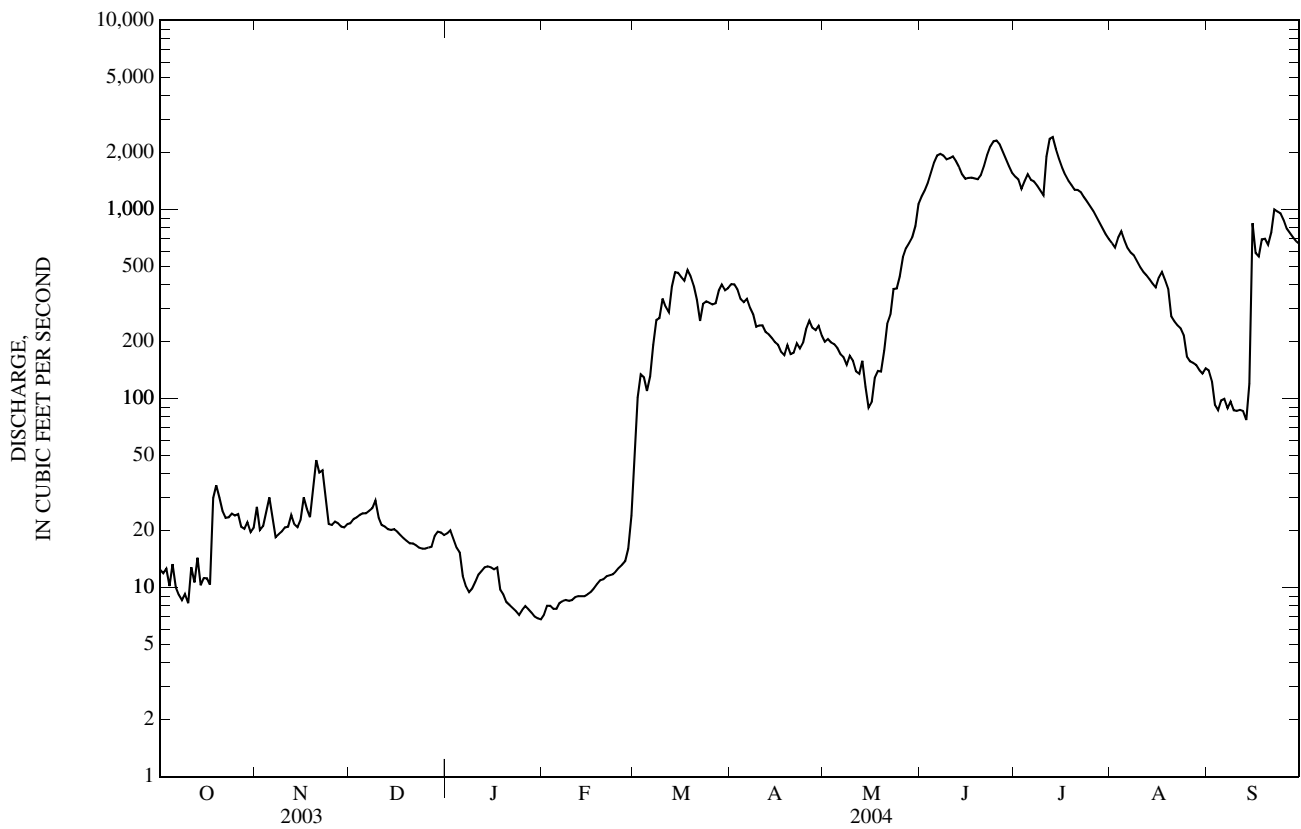
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

MEAN	160	178	107	49.6	68.0	446	1,084	676	652	546	230	173
MAX	1,724	1,833	792	298	504	2,250	6,045	3,923	4,892	6,018	2,192	2,243
(WY)	(1987)	(1980)	(1980)	(1980)	(1983)	(1983)	(1969)	(1993)	(1993)	(1993)	(1993)	(1942)
MIN	0.00	0.00	0.00	0.00	0.00	11.8	9.37	2.59	3.76	1.04	0.13	0.00
(WY)	(1956)	(1956)	(1956)	(1956)	(1936)	(1959)	(1959)	(1934)	(1931)	(1931)	(1955)	(1931)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL TOTAL	93,690.9		149,383.7		a384	
ANNUAL MEAN	257		408		2,098	
HIGHEST ANNUAL MEAN					15.1 1956	
LOWEST ANNUAL MEAN					15,500 Apr 11, 1969	
HIGHEST DAILY MEAN	1,370	May 15	2,420	Jul 13	15,500 Apr 11, 1969	
LOWEST DAILY MEAN	2.7	Sep 8	6.8	Jan 31	b0.00 Jul 19, 1931	
ANNUAL SEVEN-DAY MINIMUM	4.3	Sep 4	7.3	Jan 26	0.00 Jul 19, 1931	
MAXIMUM PEAK FLOW			2,530	Jul 13	15,700 Apr 11, 1969	
MAXIMUM PEAK STAGE			10.29	Jul 13	19.45 Apr 11, 1969	
INSTANTANEOUS LOW FLOW			c4.8	Oct 4	b0.00 Jul 19, 1931	
ANNUAL RUNOFF (AC-FT)	185,800		296,300		278,300	
ANNUAL RUNOFF (CFSM)	0.205		0.327		0.307	
ANNUAL RUNOFF (INCHES)	2.79		4.45		4.18	
10 PERCENT EXCEEDS	867		1,440		1,070	
50 PERCENT EXCEEDS	36		147		96	
90 PERCENT EXCEEDS	13		9.9		4.4	

- a Median of annual mean discharges is 260 ft³/s.
- b Many days, several years.
- c Unknown cause.
- e Estimated.



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