

## MINNESOTA RIVER BASIN--Continued

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05292000 MINNESOTA RIVER AT ORTONVILLE, MN

LOCATION.--Lat 45°17'44", long 96°26'38", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 16, T.121 N., R.46 W., Big Stone County, Hydrologic Unit 07020001, on left bank 400 ft downstream from bridge on U.S. Highway 12 and 1,300 ft downstream from dam at outlet of Big Stone Lake, at Ortonville.

DRAINAGE AREA.--1,160 mi<sup>2</sup> (approximately).

PERIOD OF RECORD.--February 1938 to current year.

REVISED RECORDS.--WSP 895: 1939. WSP 1508: 1942 (yearly mean).

GAGE.--Water-stage recorder. Datum of gage is 956.38 ft above sea level (NGVD of 1929). Prior to Mar. 31, 1939, nonrecording gage on downstream side of dam 1,300 ft upstream at datum 1.31 ft higher.

REMARKS.--Records good. Affected by regulation of Big Stone Lake.

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	35	25	19	17	19	16	216	2170	461	209	21	13
2	35	21	19	17	19	15	265	2010	554	180	21	13
3	35	23	19	17	19	167	356	1740	534	160	22	13
4	34	22	18	17	18	511	768	1560	514	72	23	13
5	35	21	18	17	18	454	1050	1300	517	52	23	13
6	34	22	18	17	18	406	1150	1390	436	37	22	12
7	33	23	18	17	18	320	2150	1760	377	38	22	12
8	32	22	18	17	18	278	3510	1870	376	37	20	10
9	32	21	18	17	18	246	3880	1540	374	37	19	11
10	32	20	19	18	18	234	3900	1420	531	35	19	11
11	32	20	18	17	18	207	4070	1290	1370	33	19	10
12	32	20	19	17	17	206	4380	1130	1120	33	19	9.9
13	32	21	19	17	17	195	4670	1000	825	33	19	9.3
14	31	20	20	18	17	182	4790	675	1280	32	19	9.3
15	30	19	20	18	17	173	4740	524	1910	32	19	8.3
16	30	20	19	18	17	156	4570	511	1560	31	18	8.2
17	30	19	20	18	15	142	4240	519	1030	31	18	7.0
18	29	19	20	18	14	130	3900	448	771	30	15	7.6
19	29	19	20	18	14	129	3620	404	800	31	14	7.7
20	29	19	19	18	14	128	3520	412	638	35	14	8.4
21	26	19	19	18	15	122	3320	420	533	31	15	7.9
22	27	19	20	18	15	125	3060	430	510	30	15	7.5
23	27	19	20	18	15	123	3230	427	438	26	14	7.3
24	26	19	20	18	15	127	3080	396	365	25	14	6.8
25	26	19	18	18	16	137	2980	398	317	25	15	6.8
26	27	19	18	18	16	141	2880	386	342	25	15	7.2
27	26	19	18	18	16	144	2680	380	301	26	15	6.8
28	22	19	17	18	16	154	2500	381	267	22	15	7.0
29	14	19	17	19	---	164	2350	376	241	20	15	6.4
30	23	19	17	19	---	177	2320	374	224	20	15	6.1
31	23	---	17	19	---	205	---	375	---	20	14	---
TOTAL	908	606	579	549	467	5914	88145	28016	19516	1448	548	276.5
MEAN	29.3	20.2	18.7	17.7	16.7	191	2938	904	651	46.7	17.7	9.22
MAX	35	25	20	19	19	511	4790	2170	1910	209	23	13
MIN	14	19	17	17	14	15	216	374	224	20	14	6.1
AC-FT	1800	1200	1150	1090	926	11730	174800	55570	38710	2870	1090	548
CFSM	.03	.02	.02	.02	.01	.16	2.53	.78	.56	.04	.02	.01
IN.	.03	.02	.02	.02	.01	.19	2.83	.90	.63	.05	.02	.01

## MINNESOTA RIVER BASIN--Continued

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	31.9	24.3	22.4	22.4	34.4	202	533	280	189	154	75.6	35.0
MAX	441	269	194	164	273	1519	4109	904	1034	1781	1299	250
(WY)	1996	1996	1943	1943	1998	1994	1997	2001	1962	1993	1993	1942
MIN	.20	.20	.20	.17	.16	1.14	1.27	.91	1.30	1.11	.25	.18
(WY)	1939	1939	1939	1940	1940	1941	1941	1941	1977	1977	1959	1988

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1938 - 2001
ANNUAL TOTAL	14412	146972.5	
ANNUAL MEAN	39.4	403	135a
HIGHEST ANNUAL MEAN			514
LOWEST ANNUAL MEAN			2.39
HIGHEST DAILY MEAN	277	4790	5010
LOWEST DAILY MEAN	14	6.1	.00
ANNUAL SEVEN-DAY MINIMUM	17	6.7	.08
MAXIMUM PEAK FLOW		4830	5070
MAXIMUM PEAK STAGE		12.06	12.92
INSTANTANEOUS LOW FLOW		6.0b	.00
ANNUAL RUNOFF (AC-FT)	28590	291500	97900
ANNUAL RUNOFF (CFSM)	.034	.35	.12
ANNUAL RUNOFF (INCHES)	.46	4.71	1.58
10 PERCENT EXCEEDS	53	1330	350
50 PERCENT EXCEEDS	33	22	22
90 PERCENT EXCEEDS	19	14	1.2

a Median of annual mean discharges is 94 ft<sup>3</sup>/s.

b Due in part to regulation.

