

MINNESOTA RIVER BASIN--Continued

05316500 REDWOOD RIVER NEAR REDWOOD FALLS, MN

LOCATION.--Lat 44°31'25', long 95°10'20", in SE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 9, T.112 N., R.36 W., Redwood County, Hydrologic Unit 07020006, on right bank 4 ft upstream from highway bridge, 3 mi west of town of Redwood Falls, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--629 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1909 to September 1914 (no winter records except 1911-12). August 1930 to September 1935 (no winter records), October 1935 to current year.

REVISED RECORDS.--WDR MN-89-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 972.33 ft above sea level (NGVD of 1929). July 1909 to September 1914, nonrecording gage at bridge 20 ft downstream at datum 0.22 ft lower. August 1930 to Oct. 25, 1949, nonrecording gage, at bridge 20 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair to poor. Natural discharge affected by unknown amount of interbasin flow between Yellow Medicine, Redwood, and Cottonwood River basins during extreme floods.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 20	2000	432	3.15	Jul 9	2400	*1,060	*4.46
Jun 2	1000	460	3.21				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	28	23	e18	e11	52	25	36	341	73	103	25
2	18	24	24	e18	e11	52	25	34	454	159	93	23
3	20	23	24	e17	e11	52	24	32	423	288	81	24
4	25	24	23	e17	e11	53	23	31	394	180	73	24
5	23	23	23	e17	e12	53	22	29	386	132	70	22
6	22	22	18	e17	e12	54	22	27	372	112	74	21
7	22	24	17	e17	e12	54	22	25	335	103	69	21
8	23	24	20	e17	e12	55	22	29	283	97	83	20
9	23	24	21	e17	e12	45	22	28	235	108	83	19
10	21	24	19	e17	e12	47	25	38	200	923	94	17
11	22	27	23	e16	e12	40	23	37	169	906	86	17
12	19	25	20	e16	e12	39	23	41	141	990	72	16
13	18	24	19	e16	e12	36	25	44	126	911	66	14
14	19	24	21	e15	e13	35	25	39	117	722	59	14
15	21	24	20	e14	e13	35	27	37	117	558	53	14
16	22	23	20	e14	e13	33	28	37	118	458	51	14
17	22	23	20	e14	e13	29	29	39	115	460	49	14
18	23	23	15	e14	e14	30	31	89	109	414	48	13
19	22	24	e15	e14	e14	30	32	315	98	353	45	12
20	22	24	e15	e14	e16	29	32	409	92	292	43	11
21	24	24	e15	e13	e19	28	36	388	83	247	40	9.4
22	27	24	e14	e13	e25	29	37	278	78	214	38	11
23	25	24	e14	e13	36	29	36	260	77	184	37	12
24	24	24	e14	e12	44	30	35	245	81	161	35	14
25	24	25	e15	e12	46	30	31	214	76	143	34	15
26	25	25	e15	e12	47	29	32	185	78	127	33	12
27	27	24	e15	e12	48	28	32	164	85	153	31	12
28	32	23	e16	e12	49	27	40	173	93	207	29	13
29	28	20	e17	e11	50	27	50	198	83	165	29	12
30	27	19	e17	e11	---	26	39	218	79	137	28	11
31	27	---	e18	e11	---	25	---	217	---	117	26	---
TOTAL	714	713	570	451	612	1161	875	3936	5438	10094	1755	476.4
MEAN	23.0	23.8	18.4	14.5	21.1	37.5	29.2	127	181	326	56.6	15.9
MAX	32	28	24	18	50	55	50	409	454	990	103	25
MIN	17	19	14	11	11	25	22	25	76	73	26	9.4
AC-FT	1420	1410	1130	895	1210	2300	1740	7810	10790	20020	3480	945
CFSM	.04	.04	.03	.02	.03	.06	.05	.20	.29	.52	.09	.03
IN.	.04	.04	.03	.03	.04	.07	.05	.23	.32	.60	.10	.03

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	56.7	61.2	37.0	17.5	23.6	241	436	222	257	151	78.3	51.0
MAX	509	541	245	104	167	1289	2880	1530	2724	1994	934	673
(WY)	1996	1980	1983	1994	1983	1983	1969	1993	1993	1993	1993	1986
MIN	.84	.96	.46	.19	.20	1.54	14.6	2.75	1.01	.44	.51	.31
(WY)	1937	1936	1936	1940	1937	1965	1934	1934	1934	1934	1934	1976

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1909 - 2000
ANNUAL TOTAL	63765	26795.4	
ANNUAL MEAN	175	73.2	150 <sup>a</sup>
HIGHEST ANNUAL MEAN			789
LOWEST ANNUAL MEAN			10.8
HIGHEST DAILY MEAN	1100	Apr 12	990
LOWEST DAILY MEAN	14	Dec 22	9.4
ANNUAL SEVEN-DAY MINIMUM	15	Dec 18	11
INSTANTANEOUS PEAK FLOW			1060
INSTANTANEOUS PEAK STAGE			4.46
INSTANTANEOUS LOW FLOW			8.8
ANNUAL RUNOFF (AC-FT)	126500	53150	108700
ANNUAL RUNOFF (CFM)	.28	.12	.24
ANNUAL RUNOFF (INCHES)	3.77	1.58	3.24
10 PERCENT EXCEEDS	466	184	325
50 PERCENT EXCEEDS	63	26	29
90 PERCENT EXCEEDS	20	13	2.2

<sup>a</sup> Median of annual mean discharges is 99 ft<sup>3</sup>/s.  
<sup>b</sup> Many days in 1940 and 1959.  
<sup>c</sup> Backwater from ice.  
<sup>e</sup> Estimated.

