

MINNESOTA RIVER BASIN--Continued

05316500 REDWOOD RIVER NEAR REDWOOD FALLS, MN

LOCATION.--Lat 44°31'25', long 95°10'20", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ 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 mi².

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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 7	2200	3,770	8.68	Jun 18	0400	1,030	4.40
Apr 25	1200	*5,830	10.93	Jul 24	1700	498	3.30

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	11	41	e22	e15	e22	e15	e354	1810	448	319	160	37
2	9.9	45	e21	e15	e21	e16	e702	1550	428	300	153	34
3	8.8	42	e21	e14	e21	e16	e1820	1360	398	282	136	30
4	9.2	32	e20	e15	e21	e16	e2380	1220	365	260	119	27
5	11	30	e20	e16	e20	e17	e2840	1110	342	239	109	25
6	11	36	e19	e17	e20	e17	3070	1080	335	221	99	24
7	11	49	e19	e17	e20	e18	3460	1100	351	208	90	38
8	13	70	e19	e17	e20	e18	3320	1100	398	196	84	89
9	15	61	e19	e18	e19	e18	2740	1110	428	181	78	73
10	15	53	e19	e18	e18	e17	2470	1070	412	168	72	53
11	17	47	e18	e19	e18	e17	2400	979	418	155	67	45
12	18	46	e18	e19	e18	e17	2770	892	420	144	62	40
13	17	45	e18	e20	e18	e18	2540	823	431	132	57	36
14	19	e40	e17	e20	e18	e20	2790	770	687	121	53	33
15	19	e25	e17	e21	e17	e21	2760	716	875	111	53	33
16	20	e26	e17	e21	e17	e21	2360	665	953	102	53	37
17	17	e26	e17	e21	e17	e21	1950	622	1010	96	56	41
18	17	e26	e17	e21	e17	e19	1630	576	1020	90	53	53
19	19	e25	e16	e21	e17	e21	1400	533	908	85	51	45
20	18	e21	e16	e21	e16	e42	1230	507	763	81	48	44
21	17	e20	e15	e22	e16	e102	1110	530	685	106	42	42
22	19	e20	e15	e22	e16	e169	1280	548	598	208	44	47
23	21	e20	e15	e21	e16	e226	3010	539	523	454	42	47
24	19	e20	e15	e21	e17	e231	3350	553	455	477	40	55
25	21	e21	e15	e21	e17	e228	5620	565	395	471	38	49
26	23	e21	e15	e21	e16	e221	5170	557	342	418	36	43
27	23	e21	e15	e23	e15	e221	4100	569	313	341	34	40
28	22	e21	e16	e23	e15	e229	3180	566	292	281	32	37
29	22	e21	e16	e23	---	e233	2550	546	269	237	33	33
30	31	e22	e16	e23	---	e245	2110	518	267	207	37	30
31	41	---	e16	e22	---	e287	---	479	---	182	47	---
TOTAL	554.9	993	539	608	503	2777	76466	25563	15529	6873	2078	1260
MEAN	17.9	33.1	17.4	19.6	18.0	89.6	2549	825	518	222	67.0	42.0
MAX	41	70	22	23	22	287	5620	1810	1020	477	160	89
MIN	8.8	20	15	14	15	15	354	479	267	81	32	24
AC-FT	1100	1970	1070	1210	998	5510	151700	50700	30800	13630	4120	2500
CFSM	.03	.05	.03	.03	.03	.14	4.05	1.31	.82	.35	.11	.07
IN.	.03	.06	.03	.04	.03	.16	4.52	1.51	.92	.41	.12	.07

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	56.2	60.8	36.8	17.6	23.5	239	464	230	261	152	78.1	50.9
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1909 - 2001

ANNUAL TOTAL	26885.3	133743.9	
ANNUAL MEAN	73.5	366	153a
HIGHEST ANNUAL MEAN			789
LOWEST ANNUAL MEAN			10.8
HIGHEST DAILY MEAN	990	Jul 12	5620
LOWEST DAILY MEAN	8.8	Oct 3	8.8
ANNUAL SEVEN-DAY MINIMUM	10	Sep 30	10
MAXIMUM PEAK FLOW			5830
MAXIMUM PEAK STAGE			13.28c
INSTANTANEOUS LOW FLOW			7.9
ANNUAL RUNOFF (AC-FT)	53330	265300	111000
ANNUAL RUNOFF (CFSM)	.12	.58	.24
ANNUAL RUNOFF (INCHES)	1.59	7.91	3.31
10 PERCENT EXCEEDS	184	1090	332
50 PERCENT EXCEEDS	28	41	29
90 PERCENT EXCEEDS	12	16	2.2

- a Median of annual mean discharges is 100 ft³/s.
- b Many days in 1940 and 1959.
- c Backwater from ice.
- e Estimated.

