

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)
Mar 17	daily	e500	--	May 12	0700	714	3.76
Apr 21	--	*1,160	*4.67				

Minimum discharge, 4.2 ft³/s, Sept. 9, gage height, 1.38 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	56	e41	e32	e14	e11	e98	320	e227	183	31	8.3
2	28	52	40	e30	e14	e11	e97	316	e217	157	28	8.3
3	26	67	e36	e29	e15	e10	e88	306	e200	128	25	8.2
4	50	59	e34	e29	e15	e10	e82	e306	215	149	23	8.6
5	124	62	e33	e29	e15	e9.9	e77	e336	214	268	23	8.2
6	112	62	e33	e29	e15	e9.6	e73	363	228	232	26	7.6
7	96	62	e33	e30	e14	e9.5	e68	362	278	193	31	7.1
8	88	61	e33	e31	e14	e9.2	e62	345	344	159	28	5.5
9	79	61	e33	e31	e14	e8.7	e58	370	336	129	25	4.4
10	75	59	e33	e30	e13	e8.4	e57	471	e312	116	22	6.1
11	73	58	e33	e26	e13	e8.3	e57	588	279	109	22	33
12	68	56	e33	e25	e13	e8.2	e56	704	263	98	21	73
13	65	57	e33	e24	e13	e8.1	e56	676	245	90	19	60
14	66	56	e34	e23	e13	e107	e54	624	226	80	18	41
15	64	56	e35	e22	e13	e300	55	559	212	77	17	36
16	61	52	e36	e21	e13	e469	227	e504	194	78	16	30
17	61	48	e38	e21	e13	e500	e620	e459	189	75	14	25
18	63	59	e39	e20	e13	e397	e760	e422	190	71	13	25
19	60	57	e40	e19	e13	e306	e950	e414	179	65	12	22
20	57	58	e39	e18	e13	e243	e1,000	e409	176	63	12	28
21	58	56	e37	e17	e13	e199	e1,140	e389	140	64	12	27
22	58	52	e36	e17	e13	e178	e1,000	356	130	65	9.8	23
23	56	50	e34	e16	e13	e157	e760	341	127	56	8.7	21
24	56	e40	e33	e15	e12	e140	e630	328	e130	52	9.1	21
25	57	e39	e33	e14	e12	e134	e540	317	146	47	9.2	19
26	59	e39	e32	e13	e12	e133	e480	304	226	e41	8.3	18
27	57	40	e33	e13	e12	e133	e440	292	252	e37	8.5	16
28	58	46	e34	e13	e12	e120	393	277	260	35	8.3	14
29	60	49	e34	e13	---	e104	352	260	239	32	8.4	14
30	62	e40	e34	e13	---	e100	327	252	209	30	8.0	13
31	63	---	e33	e13	---	e100	---	245	---	29	8.1	---
TOTAL	1,990	1,609	1,082	676	372	3,941.9	10,657	12,215	6,583	3,008	524.4	631.3
MEAN	64.2	53.6	34.9	21.8	13.3	127	355	394	219	97.0	16.9	21.0
MAX	124	67	41	32	15	500	1,140	704	344	268	31	73
MIN	26	39	32	13	12	8.1	54	245	127	29	8.0	4.4
AC-FT	3,950	3,190	2,150	1,340	738	7,820	21,140	24,230	13,060	5,970	1,040	1,250
CFSM	0.10	0.09	0.06	0.03	0.02	0.20	0.56	0.63	0.35	0.15	0.03	0.03
IN.	0.12	0.10	0.06	0.04	0.02	0.23	0.63	0.72	0.39	0.18	0.03	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2003, BY WATER YEAR (WY)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1909 - 2003
ANNUAL TOTAL	77,090	43,289.6	
ANNUAL MEAN	211	119	a154
HIGHEST ANNUAL MEAN			789
LOWEST ANNUAL MEAN			10.8
HIGHEST DAILY MEAN	1,510	Jun 22	13,200
LOWEST DAILY MEAN	23	Sep 25	b0.00
ANNUAL SEVEN-DAY MINIMUM	25	Sep 20	0.01
MAXIMUM PEAK FLOW		c1,160	19,700
MAXIMUM PEAK STAGE		c4.67	d18.01
INSTANTANEOUS LOW FLOW		4.2	b0.00
ANNUAL RUNOFF (AC-FT)	152,900	85,860	111,400
ANNUAL RUNOFF (CFSM)	0.34	0.19	0.24
ANNUAL RUNOFF (INCHES)	4.56	2.56	3.32
10 PERCENT EXCEEDS	616	336	365
50 PERCENT EXCEEDS	90	52	34
90 PERCENT EXCEEDS	34	12	2.8

a Median of annual mean discharges is 100 ft³/s.

b Many days in 1940 and 1959.

c From highwater mark.

d Backwater from ice.

e Estimated.

