



11	27	e59	e27	e11	e8.7	e75	243	68	70	157	9.5	3.4
12	37	e64	27	e11	e8.7	e60	234	67	65	133	8.2	3.3
13	47	e66	26	e11	e8.7	e50	251	77	60	117	9.4	4.6
14	62	e59	26	e11	e8.7	e47	385	112	54	99	8.8	4.7
15	66	e53	e25	e10	e8.7	e44	481	190	59	87	7.5	3.7
16	71	e48	25	e10	e8.7	e43	467	1070	66	74	6.3	3.5
17	e75	e45	e24	e10	e9.0	e43	420	1380	73	64	5.8	2.8
18	e83	e43	e24	e9.8	e9.4	e42	356	1270	79	58	4.8	2.4
19	80	e41	e23	e9.5	e10	e42	304	1160	99	54	7.6	2.8
20	74	e39	e22	e9.4	e11	e42	261	1060	185	62	9.2	3.1
21	69	e37	22	e9.3	e13	e43	233	915	441	137	8.8	3.9
22	61	e36	21	e9.2	e16	e43	212	708	522	155	7.6	4.5
23	55	e35	e20	e9.1	e23	e44	195	542	510	148	8.5	5.3
24	51	34	20	e9.0	e40	e46	180	420	460	123	8.6	6.7
25	47	33	19	e8.9	e150	51	164	310	440	101	8.5	7.8
26	44	e32	e18	e8.8	e500	61	150	244	720	83	7.7	7.5
27	42	32	17	e8.7	e985	79	137	202	1070	69	10	8.8
28	40	e31	17	e8.7	e940	116	125	180	934	57	15	9.7
29	38	e31	16	e8.7	---	171	114	184	776	48	18	9.0
30	37	e30	e15	e8.7	---	210	105	203	772	40	15	10
31	36	---	15	e8.7	---	226	---	200	---	34	13	---
TOTAL	1326	1346	740	324.5	2845.6	5598	7260	11339	8640	5367	389.8	167.7
MEAN	42.8	44.9	23.9	10.5	102	181	242	366	288	173	12.6	5.59
MAX	83	66	30	14	985	850	481	1380	1070	664	30	10
MIN	15	30	15	8.7	8.7	42	105	64	54	34	4.8	2.4
AC-FT	2630	2670	1470	644	5640	11100	14400	22490	17140	10650	773	333
CFSM	.10	.10	.06	.02	.24	.42	.56	.85	.67	.40	.03	.01
IN.	.11	.12	.06	.03	.25	.48	.63	.98	.75	.46	.03	.01

e Estimated

## RED RIVER OF THE NORTH BASIN--Continued

### 05104500 ROSEAU RIVER BELOW SOUTH FORK NEAR MALUNG, MN--Continued

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	66.4	50.0	16.0	7.66	7.55	65.6	602	323	215	161	61.5	79.6
MAX	351	362	65.6	22.2	102	525	2035	1589	1140	1152	585	710
(WY)	1983	1995	1995	1997	1998	1995	1966	1950	1968	1968	1968	1957
MIN	.029	.16	.013	.000	.000	.83	5.60	8.77	4.16	.092	.000	.025
(WY)	1991	1991	1977	1977	1977	1977	1991	1990	1980	1980	1961	1988

  

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1947 - 1998		
ANNUAL TOTAL	83912.6		45343.6				
ANNUAL MEAN	230		124			138a	
HIGHEST ANNUAL MEAN						304	1950
LOWEST ANNUAL MEAN						7.28	1990
HIGHEST DAILY MEAN	4300	Apr 19	1380	May 17	6970	May 19	1996
LOWEST DAILY MEAN	2.3	Sep 15	2.4	Sep 18	.00b	Jul 23	1961
ANNUAL SEVEN-DAY MINIMUM	3.0	Sep 14	3.2	Sep 15	.00	Jul 23	1961
INSTANTANEOUS PEAK FLOW			1460	May 16	7310	May 19	1996
INSTANTANEOUS PEAK STAGE			11.94c	Feb 27	23.45d	Apr 20	1996
INSTANTANEOUS LOW FLOW			2.3	Sep 18			
ANNUAL RUNOFF	166400		89940			99860	

(AC-FT)							
ANNUAL RUNOFF (CFSM)	.53		.29		.32		
ANNUAL RUNOFF (INCHES)	7.26		3.92		4.36		
10 PERCENT EXCEEDS	573		316		316		
50 PERCENT EXCEEDS	27		42		18		
90 PERCENT EXCEEDS	8.1		8.7		1.7		

a Median of annual mean discharges is 120 ft<sup>3</sup>/s.

b Many days, several years.

c Backwater from ice.

d From highwater mark, backwater from ice.

