

RAINY RIVER BASIN

05129290 GOLD PORTAGE OUTLET FROM KABETOGAMA LAKE NEAR RAY, MN

LOCATION.--Lat 4831'28", long 9304'29", in SW 1 / 4 NE 1 / 4 sec. 30, T.70 N., R.21 W., St. Louis County, Hydrologic Unit 09030003, on right bank in bay at head of Gold Portage Outlet from Kabetogama Lake, 9.8 mi northeast of Ray.

PERIOD OF RECORD.--October 1982 to September 1993, October 1993 to September 1994 (peak gage height and discharge only), October 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,100 ft above mean sea level, adjustment of 1912 (U.S. Army Corp of Engineers benchmark), water surface transfer.

REMARKS.--Records good. Flow completely regulated by outlet dam on Namakan Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	456	286	162	29	.46	.00	.00	.00	103	280	333	230
2	446	281	152	26	.13	.00	.00	.00	100	287	333	232
3	448	288	143	24	.00	.00	.00	.00	102	295	331	231
4	433	282	136	22	.00	.00	.00	.00	115	299	330	226
5	432	273	129	21	.00	.00	.00	.00	121	308	327	220
6	428	265	122	19	.00	.00	.00	.00	126	312	324	209
7	435	249	117	18	.00	.00	.00	.00	131	315	322	205
8	433	235	110	17	.00	.00	.00	.03	140	317	317	207
9	398	223	106	16	.00	.00	.00	.55	147	325	301	206
10	410	215	101	15	.00	.00	.00	1.4	157	329	305	198
11	416	207	98	e14	.00	.00	.00	2.6	159	325	306	192

12	420	207	93	e13	.00	.00	.00	4.2	161	328	300	191
13	387	204	90	e12	.00	.00	.00	7.0	167	321	293	188
14	377	193	87	e11	.00	.00	.00	11	173	338	283	181
15	368	187	83	e11	.00	.00	.00	14	175	326	288	181
16	354	185	79	e9.7	.00	.00	.00	15	180	331	282	176
17	352	189	76	e8.9	.00	.00	.00	23	189	332	281	173
18	344	185	73	e8.1	.00	.00	.00	27	207	337	283	174
19	320	186	66	e7.4	.00	.00	.00	31	212	329	277	177
20	324	185	64	e6.8	.00	.00	.00	38	213	341	268	157
21	320	186	60	e6.2	.00	.00	.00	44	210	330	269	158
22	323	184	55	e5.6	.00	.00	.00	50	214	327	276	158
23	316	185	53	e5.0	.00	.00	.00	55	227	328	262	152
24	311	184	49	e4.5	.00	.00	.00	59	237	334	261	150
25	304	179	46	e4.0	.00	.00	.00	63	241	336	262	149
26	305	177	42	3.4	.00	.00	.00	69	251	334	263	146
27	307	174	41	3.0	.00	.00	.00	73	255	327	263	142
28	290	172	38	2.4	.00	.00	.00	74	257	326	254	141
29	287	168	35	2.0	---	.00	.00	84	260	331	247	138
30	299	165	32	1.5	---	.00	.00	91	273	333	248	129
31	295	---	31	.88	---	.00	---	91	---	334	244	---
TOTAL	11338	6299	2569	347.38	0.59	0.00	0.00	927.78	5503	10015	8933	5417
MEAN	366	210	82.9	11.2	.021	.000	.000	29.9	183	323	288	181
MAX	456	288	162	29	.46	.00	.00	91	273	341	333	232
MIN	287	165	31	.88	.00	.00	.00	.00	100	280	244	129
AC-FT	22490	12490	5100	689	1.2	.00	.00	1840	10920	19860	17720	10740

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	396	200	79.2	16.3	1.03	.000	.30	112	362	564	566	529
MAX	530	267	149	45.1	7.34	.002	1.66	307	583	683	686	787
(WY)	1986	1990	1992	1990	1990	1990	1985	1986	1985	1985	1988	1988
MIN	285	115	16.5	1.10	.000	.000	.000	.000	96.0	323	288	181
(WY)	1985	1988	1988	1988	1983	1983	1983	1987	1987	1998	1998	1998

SUMMARY STATISTICS	FOR 1998 WATER YEAR		WATER YEARS 1983 - 1998		
ANNUAL TOTAL	51349.75				
ANNUAL MEAN	141		237		
HIGHEST ANNUAL MEAN			280		1986
LOWEST ANNUAL MEAN			141		1998
HIGHEST DAILY MEAN	456	Oct 1	876	Sep 22	1988
LOWEST DAILY MEAN	.00	Feb 3 to May 7	.00a	Jan 21	1983
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 3	.00	Jan 21	1983
INSTANTANEOUS PEAK FLOW	464	Oct 1	897	Sep 21	1988
INSTANTANEOUS PEAK STAGE	17.53	Oct 1	19.23	Sep 21	1988
ANNUAL RUNOFF (AC-FT)	101900		171600		
10 PERCENT EXCEEDS	328		590		
50 PERCENT EXCEEDS	126		153		
90 PERCENT EXCEEDS	.00		.00		

a Many days in each year.

