

RAINY RIVER BASIN--Continued

05129290 GOLD PORTAGE OUTLET FROM KABETOGAMA LAKE NEAR RAY, MN

LOCATION.--Lat 48°31'28", long 93°04'29", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ 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 sea level (NGVD of 1912, U.S. Army Corp of Engineers benchmark), water surface transfer.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow completely regulated by outlet dam on Namakan Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366	257	176	64	19	e2.8	0.00	11	371	808	479	398
2	369	243	182	59	18	e2.6	0.00	12	404	800	472	393
3	363	247	177	57	17	e2.3	0.00	18	440	792	478	370
4	345	241	174	54	16	e2.1	0.00	20	459	817	464	387
5	343	239	175	53	15	e1.9	0.00	26	486	904	464	390
6	353	228	e170	50	e14	e1.8	0.00	30	518	942	466	389
7	355	230	e160	49	e13	e1.7	0.00	36	509	925	474	388
8	361	216	e155	48	e12	e1.5	0.00	45	527	897	470	386
9	348	219	150	46	e12	e1.4	0.00	46	575	872	458	378
10	344	214	148	e44	e11	e1.3	0.00	53	632	850	458	380
11	355	213	149	e43	e10	e1.1	0.00	63	713	809	456	385
12	363	211	142	e41	e9.8	e1.0	0.00	69	721	771	454	383
13	349	203	136	e40	e9.2	e0.94	0.00	73	734	741	443	392
14	341	199	135	e39	e8.5	e0.84	0.00	84	729	709	446	380
15	329	193	132	e38	e8.0	e0.76	0.00	90	718	685	440	387
16	326	196	127	e36	e7.6	e0.71	0.00	93	706	653	439	386
17	329	191	121	e35	e7.2	e0.64	e0.01	102	703	632	418	393
18	312	181	118	e34	e6.7	e0.54	e0.02	108	698	620	414	395
19	300	172	e115	e33	e6.3	e0.47	e0.03	117	697	598	417	390
20	289	178	e110	e31	e5.8	e0.39	e0.06	125	680	583	415	395
21	285	176	e105	e30	e5.4	e0.30	e0.11	137	680	565	409	378
22	287	176	e102	e29	e5.0	e0.23	e0.20	150	689	540	406	374
23	279	169	e100	e28	e4.6	e0.15	e0.40	155	713	549	405	383
24	283	168	98	e27	e4.3	e0.09	e0.84	175	723	553	400	386
25	249	173	91	e26	e3.9	e0.06	e1.6	195	722	555	400	377
26	265	184	88	e25	e3.6	e0.04	3.5	202	722	548	402	376
27	280	188	85	e24	e3.3	0.00	5.7	227	729	557	408	373
28	275	189	81	23	e3.2	0.00	6.8	252	766	547	398	380
29	269	187	75	22	---	0.00	7.0	286	794	533	400	385
30	276	182	71	21	---	0.00	8.7	319	806	520	403	382
31	272	---	67	20	---	0.00	---	339	---	514	407	---
TOTAL	9860	6063	3915	1169	259.4	27.66	34.97	3658	19364	21389	13463	11539
MEAN	318	202	126	37.7	9.26	0.89	1.17	118	645	690	434	385
MAX	369	257	182	64	19	2.8	8.7	339	806	942	479	398
MIN	249	168	67	20	3.2	0.00	0.00	11	371	514	398	370
AC-FT	19560	12030	7770	2320	515	55	69	7260	38410	42430	26700	22890

05129290 GOLD PORTAGE OUTLET FROM KABETOGAMA LAKE NEAR RAY, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	378	199	83.1	20.0	3.82	0.52	7.03	165	432	569	558	509
MAX	530	267	149	57.2	32.7	4.48	98.9	798	950	690	686	787
(WY)	1986	1990	1992	2000	2000	2000	2001	2001	2001	2002	1988	1988
MIN	140	115	16.5	1.10	0.000	0.000	0.000	0.000	96.0	323	288	181
(WY)	1999	1988	1988	1988	1983	1983	1983	1987	1987	1998	1998	1998

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1983 - 2002
ANNUAL TOTAL	125377.94	90742.03	
ANNUAL MEAN	344	249	245
HIGHEST ANNUAL MEAN			340 2001
LOWEST ANNUAL MEAN			141 1998
HIGHEST DAILY MEAN	1310 May 30	942 Jul 6	1310 May 30 2001
LOWEST DAILY MEAN	0.47 Mar 30	0.00 Mar 27 - Apr. 16	0.00a Jan 21 1983
ANNUAL SEVEN-DAY MINIMUM	0.68 Mar 26		0.00 Jan 21 1983
MAXIMUM PEAK FLOW		985 Jul 6	1310 May 29 2001
MAXIMUM PEAK STAGE		19.58 Jul 6	20.53 May 31 2001
ANNUAL RUNOFF (AC-FT)	248700	180000	177600
10 PERCENT EXCEEDS	793	640	594
50 PERCENT EXCEEDS	269	182	160
90 PERCENT EXCEEDS	5.1	0.51	0.00

a Many days, several years.
e Estimated.



