

05129290 GOLD PORTAGE OUTLET FROM KABETOGAMA LAKE NEAR RAY, MN

LOCATION.--Lat 48°31'28", long 93°04'29", in SW¹/₄NE¹/₄ 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	367	267	188	86	20	3.1	0.00	e0.01	1.5	31	e0.98	e0.12
2	367	268	184	83	19	2.8	0.00	e0.02	1.9	34	e0.76	e0.12
3	371	258	181	81	18	2.7	0.00	e0.02	2.1	35	e0.60	e0.12
4	365	254	178	77	16	2.4	0.00	e0.02	2.3	34	e0.50	e0.12
5	368	253	175	74	16	2.2	0.00	e0.01	2.2	39	e0.42	e0.12
6	362	243	172	72	14	2.2	0.00	e0.01	3.2	43	e0.35	e0.12
7	366	245	166	70	14	1.5	0.00	e0.01	4.3	42	e0.28	e0.12
8	361	240	163	67	13	1.2	0.00	e0.01	4.6	46	e0.23	e0.12
9	360	240	160	63	12	1.0	0.00	e0.02	5.3	53	e0.21	e0.12
10	363	229	156	60	11	0.86	0.00	e0.00	6.3	55	e0.18	e0.12
11	364	228	153	58	10	0.72	0.00	0.00	6.8	57	e0.16	e0.12
12	344	224	148	56	9.5	0.57	0.00	0.00	8.6	60	e0.14	e0.12
13	343	231	145	53	8.7	0.53	0.00	0.00	7.8	61	e0.13	e0.12
14	351	228	141	51	7.9	0.42	0.00	0.00	8.8	59	e0.12	e0.12
15	331	230	137	48	7.7	0.34	0.00	0.00	9.7	53	e0.12	e0.12
16	332	230	135	46	7.8	0.12	0.00	0.00	10	50	e0.12	e0.12
17	332	231	131	45	7.5	0.10	0.00	0.00	11	46	e0.12	e0.12
18	331	231	130	42	6.6	0.06	0.00	0.00	11	40	e0.12	e0.12
19	315	227	128	40	6.3	0.01	0.00	e0.00	12	33	e0.12	e0.12
20	318	224	124	37	5.8	0.00	0.00	e0.00	13	26	e0.12	e0.12
21	317	218	120	36	5.4	0.00	0.00	e0.00	14	23	e0.12	e0.12
22	308	217	117	33	5.2	0.00	0.00	e0.01	14	19	e0.12	e0.12
23	305	205	113	31	4.8	0.00	0.00	e0.01	14	17	e0.12	e0.12
24	305	201	111	30	4.4	0.00	0.00	e0.02	15	14	e0.12	e0.12
25	305	201	107	28	4.6	0.00	0.00	e0.02	20	11	e0.12	e0.12
26	295	198	104	27	4.1	0.00	e0.00	e0.03	18	8.0	e0.12	e0.12
27	296	199	101	27	3.7	0.00	e0.00	e0.02	23	6.1	e0.12	e0.12
28	303	199	97	24	3.4	0.00	e0.00	e0.01	28	4.5	e0.12	e0.12
29	295	193	96	23	---	0.00	e0.01	e0.07	27	3.0	e0.12	e0.12
30	284	190	92	22	---	0.00	e0.01	e0.12	29	2.2	e0.12	e0.12
31	272	---	87	21	---	0.00	---	e1.0	---	1.3	e0.12	---
TOTAL	10,296	6,802	4,240	1,511	266.4	22.83	0.02	1.44	334.4	1,006.1	7.10	3.60
MEAN	332	227	137	48.7	9.51	0.74	0.001	0.046	11.1	32.5	0.23	0.12
MAX	371	268	188	86	20	3.1	0.01	1.0	29	61	0.98	0.12
MIN	272	190	87	21	3.4	0.00	0.00	0.00	1.5	1.3	0.12	0.12
AC-FT	20,420	13,490	8,410	3,000	528	45	0.04	2.9	663	2,000	14	7.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003, BY WATER YEAR (WY)

MEAN	375	200	86.3	21.7	4.16	0.53	6.61	155	408	538	526	479
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	11.1	32.5	0.23	0.12
(WY)	(1999)	(1988)	(1988)	(1988)	(1983)	(1983)	(1983)	(1987)	(2003)	(2003)	(2003)	(2003)

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

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1983 - 2003	
ANNUAL TOTAL	92,242.03		24,490.89		235	
ANNUAL MEAN	253		67.1		340	
HIGHEST ANNUAL MEAN					67.1	2001
LOWEST ANNUAL MEAN						2003
HIGHEST DAILY MEAN	942	Jul 6	371	Oct 3	1,310	May 30, 2001
LOWEST DAILY MEAN	0.00	Mar 27	a0.00	Mar 20	b0.00	Jan 21, 1983
ANNUAL SEVEN-DAY MINIMUM	0.00	Mar 27	0.00	Mar 20	0.00	Jan 21, 1983
MAXIMUM PEAK FLOW			c385	Oct 14	1,310	May 29, 2001
MAXIMUM PEAK STAGE			d17.55	Jul 14	20.53	May 31, 2001
ANNUAL RUNOFF (AC-FT)	183,000		48,580		170,000	
10 PERCENT EXCEEDS	640		248		591	
50 PERCENT EXCEEDS	201		7.8		141	
90 PERCENT EXCEEDS	0.51		0.00		0.00	

- a Occurred Mar. 20 to Apr. 28, and May 10-21.
- b Many days, several years.
- c Gage height, 17.14 ft.
- d Backwater from beaver dam.
- e Estimated.

