

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e310	538	439	413
2	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e390	541	435	413
3	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e485	542	430	404
4	e0.40	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	575	540	430	402
5	e0.17	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	590	545	424	409
6	e0.12	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	602	536	424	410
7	e0.10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	640	529	430	408
8	e0.08	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.01	625	526	426	417
9	e0.07	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.02	635	518	417	412
10	e0.06	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.02	643	520	413	406
11	e0.05	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.03	652	543	415	388
12	e0.05	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.03	629	538	417	404
13	e0.04	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.04	612	515	415	409
14	e0.03	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.05	606	513	414	393
15	e0.03	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.06	613	508	415	398
16	e0.03	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.08	607	497	413	417
17	e0.02	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.10	604	492	407	441
18	e0.02	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.12	570	484	388	445
19	e0.02	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.40	578	472	395	447
20	e0.02	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1.2	573	469	390	447
21	e0.02	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e5.0	568	446	403	427
22	e0.01	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e7.0	564	436	398	430
23	e0.01	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e10	568	442	412	429
24	e0.01	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e16	555	449	415	423
25	e0.01	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e24	555	443	413	419
26	e0.01	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e35	557	448	421	416
27	e0.01	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e50	554	448	414	399
28	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e69	549	448	423	401
29	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e120	548	446	423	400
30	e0.00	e0.00	e0.00	e0.00	---	e0.00	e0.00	e180	538	449	409	398
31	e0.00	---	e0.00	e0.00	---	e0.00	---	e245	---	446	413	---
TOTAL	5.39	0.00	0.00	0.00	0.00	0.00	0.00	763.16	17,095	15,267	12,881	12,425
MEAN	0.17	0.00	0.00	0.00	0.00	0.00	0.00	24.6	570	492	416	414
MAX	2.0	0.00	0.00	0.00	0.00	0.00	0.00	245	652	545	439	447
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	310	436	388	388
AC-FT	11	0.00	0.00	0.00	0.00	0.00	0.00	1,510	33,910	30,280	25,550	24,640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

MEAN	354	189	81.5	20.5	3.92	0.50	6.24	148	417	535	520	476
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	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.1	32.5	0.23	0.12
(WY)	(2004)	(2004)	(2004)	(2004)	(1983)	(1983)	(1983)	(1987)	(2003)	(2003)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	3,158.28		58,436.55			
ANNUAL MEAN	8.65		160		230	
HIGHEST ANNUAL MEAN					340	2001
LOWEST ANNUAL MEAN					67.1	2003
HIGHEST DAILY MEAN	86	Jan 1	652	Jun 11	1,310	May 30, 2001
LOWEST DAILY MEAN	0.00	Mar 20	0.00	Oct 28 - May 7	a0.00	Jan 21, 1983
ANNUAL SEVEN-DAY MINIMUM	0.00	Mar 20	0.00	Oct 28	0.00	Jan 21, 1983
MAXIMUM PEAK FLOW			680	Jun 11	1,310	May 29, 2001
MAXIMUM PEAK STAGE			18.45	Jun 7, 11	20.53	May 31, 2001
ANNUAL RUNOFF (AC-FT)	6,260		115,900		167,000	
10 PERCENT EXCEEDS	34		527		588	
50 PERCENT EXCEEDS	0.12		0.00		133	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a Many days, several years.
e Estimated.

