

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 good. Flow completely regulated by outlet dam on Namakan Lake.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	383	363	216	178	115	42	12	200	782	588	486	422
2	384	363	217	181	112	40	15	208	779	594	483	420
3	373	365	216	180	109	39	18	218	764	597	477	433
4	370	344	209	180	107	37	25	231	750	599	452	441
5	378	341	209	180	106	35	33	242	738	600	463	438
6	377	331	208	181	101	34	43	254	709	595	469	426
7	377	310	204	178	99	32	55	275	717	587	469	427
8	366	310	202	176	97	31	65	286	722	583	473	433
9	373	311	199	173	94	30	76	308	692	574	471	440
10	375	286	196	171	92	29	89	332	685	570	469	444
11	366	284	196	168	89	26	103	363	684	560	473	438
12	362	284	191	165	87	26	113	402	682	550	460	452
13	348	282	190	160	85	25	120	424	674	546	462	446
14	353	280	191	158	82	23	124	440	684	549	464	439
15	344	278	188	153	78	22	126	466	693	542	458	446
16	317	277	182	149	75	21	128	498	699	544	458	438
17	324	273	184	146	72	20	130	525	701	549	477	436
18	333	267	178	145	69	19	133	541	704	519	506	428
19	337	271	178	142	65	18	140	554	697	534	496	431
20	325	260	179	140	63	17	143	558	685	534	476	427
21	332	262	173	138	61	16	147	568	674	538	470	432
22	328	265	173	135	58	15	146	569	670	535	472	422
23	324	243	172	134	55	14	151	581	661	536	468	433
24	326	251	172	131	53	13	158	588	636	505	470	432
25	324	252	170	128	50	12	165	612	633	500	460	431
26	326	247	169	125	49	12	169	666	636	487	452	427
27	325	236	169	123	46	11	174	732	621	485	445	431
28	322	229	170	123	44	10	181	764	609	481	441	404
29	319	226	171	121	---	10	193	775	620	487	444	421
30	341	223	174	120	---	9.6	198	784	596	491	446	418
31	362	---	177	117	---	11	---	786	---	489	445	---
TOTAL	10,794	8,514	5,823	4,699	2,213	699.6	3,373	14,750	20,597	16,848	14,455	12,956
MEAN	348	284	188	152	79.0	22.6	112	476	687	543	466	432
MAX	384	365	217	181	115	42	198	786	782	600	506	452
MIN	317	223	169	117	44	9.6	12	200	596	481	441	404
AC-FT	21,410	16,890	11,550	9,320	4,390	1,390	6,690	29,260	40,850	33,420	28,670	25,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	354	194	87.1	27.4	7.84	1.66	11.8	165	431	536	517	474
MAX	530	284	188	152	79.0	22.6	112	798	950	690	686	787
(WY)	(1986)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	83,562.16		115,721.6		235	
ANNUAL MEAN	228		317		340	
HIGHEST ANNUAL MEAN					340	2001
LOWEST ANNUAL MEAN					67.1	2003
HIGHEST DAILY MEAN	652	Jun 11	786	May 31	1,310	May 30, 2001
LOWEST DAILY MEAN	0.00	Jan 1	9.6	Mar 30	a0.00	Jan 21, 1983
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	11	Mar 25	0.00	Jan 21, 1983
MAXIMUM PEAK FLOW			791	May 31	1,310	May 29, 2001
MAXIMUM PEAK STAGE			18.85	May 31	20.53	May 31, 2001
INSTANTANEOUS LOW FLOW			8.3	Mar 30	a0.00	Jan 21, 1983
ANNUAL RUNOFF (AC-FT)	165,700		229,500		170,300	
10 PERCENT EXCEEDS	527		604		589	
50 PERCENT EXCEEDS	224		310		147	
90 PERCENT EXCEEDS	0.00		43		0.00	

a Many days, several years.

