

RAINY RIVER BASIN--Continued

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 to fair. Flow completely regulated by outlet dam on Namakan Lake.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	532	329	149	74	47	14	1.2	28	506	563	455	417
2	528	330	147	71	47	13	1.3	36	509	561	454	416
3	514	330	145	71	45	11	1.6	43	514	559	456	415
4	546	316	138	68	44	9.9	1.9	50	523	552	453	412
5	537	279	137	69	43	9.4	2.2	62	513	560	465	415
6	489	287	141	66	42	8.7	2.4	74	520	565	474	424
7	572	282	138	65	41	8.1	2.6	88	525	566	486	415
8	542	267	130	64	40	7.3	2.8	110	529	554	502	428
9	547	255	127	64	39	7.1	2.8	132	535	539	495	442
10	541	250	126	60	38	6.7	3.0	164	545	543	490	423
11	557	244	126	59	37	6.0	3.1	190	555	539	492	418
12	550	232	121	58	36	5.3	3.2	214	566	533	481	411
13	571	214	118	56	35	4.7	3.2	221	569	513	468	403
14	570	208	115	56	34	4.2	3.2	243	561	504	469	395
15	568	208	109	55	33	3.4	3.4	276	551	514	434	399
16	562	201	108	55	32	3.0	3.5	298	540	499	443	395
17	562	195	107	56	32	2.6	3.6	313	550	467	436	391
18	535	191	103	54	30	2.1	3.9	322	550	488	433	396
19	528	180	101	53	29	1.7	5.4	331	556	482	440	401
20	487	182	97	52	29	1.3	6.8	337	566	477	440	387
21	575	178	97	52	28	.84	8.4	354	562	477	431	401
22	561	169	95	51	27	.62	10	365	558	478	426	406
23	506	168	93	51	24	.61	13	387	571	475	422	398
24	490	165	90	51	22	.68	15	416	563	474	422	391
25	481	168	86	50	21	.76	17	436	560	468	415	392
26	476	160	83	50	20	.84	17	455	541	469	413	383
27	453	148	81	50	18	.86	19	469	541	468	415	387
28	421	149	80	50	18	.95	21	472	545	469	409	389
29	404	150	79	48	16	1.0	24	480	549	467	391	385
30	379	156	78	48	---	1.1	26	490	554	463	403	383
31	370	---	76	47	---	1.2	---	488	---	461	409	---
TOTAL	15954	6591	3421	1774	947	138.96	231.5	8344	16327	15747	13822	12118
MEAN	515	220	110	57.2	32.7	4.48	7.72	269	544	508	446	404
MAX	575	330	149	74	47	14	26	490	571	566	502	442
MIN	370	148	76	47	16	.61	1.2	28	506	461	391	383
AC-FT	31640	13070	6790	3520	1880	276	459	16550	32380	31230	27420	24040

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	386	198	80.1	18.4	3.28	.32	.88	123	380	563	562	526
MAX	530	267	149	57.2	32.7	4.48	7.72	307	583	683	686	787
(WY)	1986	1990	1992	2000	2000	2000	2000	1986	1985	1985	1988	1988
MIN	140	115	16.5	1.10	.000	.000	.000	.000	96.0	323	288	181
(WY)	1999	1988	1988	1988	1983	1983	1983	1987	1987	1998	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	99086.61		95415.46			
ANNUAL MEAN	271		261		238	
HIGHEST ANNUAL MEAN					280	
LOWEST ANNUAL MEAN					141	
HIGHEST DAILY MEAN	675 Sep 7		575 Oct 21		876 Sep 22 1988	
LOWEST DAILY MEAN	.00 Jan 23		.61 Mar 23		.00 ^a Jan 21 1983	
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 23		.74 Mar 21		.00 Jan 21 1983	
INSTANTANEOUS PEAK FLOW			668 Oct 21		897 Sep 21 1988	
INSTANTANEOUS PEAK STAGE			18.33 Oct 21		19.23 Sep 21 1988	
ANNUAL RUNOFF (AC-FT)	196500		189300		172500	
10 PERCENT EXCEEDS	635		545		590	
50 PERCENT EXCEEDS	169		226		152	
90 PERCENT EXCEEDS	.00		4.5		.00	

^a Many days, most years.

