

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, adjustment 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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	157	121	16	.00	.00	.00	4.9	319	558	619	610
2	133	158	118	15	.00	.00	.00	5.7	321	556	618	627
3	133	155	113	13	.00	.00	.00	7.2	332	560	611	652
4	136	153	112	12	.00	.00	.00	8.8	346	563	601	671
5	142	152	109	11	.00	.00	.00	9.9	345	546	598	666
6	135	151	101	9.7	.00	.00	.00	12	357	532	599	667
7	123	153	103	9.0	.00	.00	.00	14	360	542	599	675
8	131	152	99	7.9	.00	.00	.00	16	371	567	600	656
9	129	153	96	7.1	.00	.00	.00	20	385	568	607	645
10	127	146	88	6.0	.00	.00	.00	31	388	568	597	640
11	132	139	81	5.5	.00	.00	.00	36	398	573	612	650
12	120	152	74	4.6	.00	.00	.00	41	402	584	632	648
13	121	160	68	4.2	.00	.00	.00	47	390	614	631	633
14	129	157	63	3.8	.00	.00	.00	51	393	625	635	634
15	126	158	56	3.3	.00	.00	.00	54	407	639	642	641
16	129	163	52	2.5	.00	.00	.00	59	416	630	633	639
17	139	163	47	2.2	.00	.00	.12	64	425	644	637	643
18	135	169	44	1.3	.00	.00	.43	70	445	650	646	634
19	140	160	39	1.2	.00	.00	.87	85	461	654	656	615
20	146	161	36	.77	.00	.00	1.2	101	474	655	653	612
21	152	162	33	.68	.00	.00	1.5	116	487	655	647	581
22	152	156	32	.34	.00	.00	1.8	143	498	654	641	598
23	153	146	29	.00	.00	.00	2.0	161	493	655	634	586
24	154	153	27	.00	.00	.00	2.2	181	489	645	635	584
25	160	139	25	.00	.00	.00	2.4	200	514	661	636	578
26	157	137	24	.00	.00	.00	2.7	224	526	630	636	576
27	155	135	22	.00	.00	.00	3.4	244	528	642	622	579
28	157	132	20	.00	.00	.00	3.8	259	542	646	609	571
29	165	129	19	.00	---	.00	4.1	273	547	644	619	575
30	155	119	18	.00	---	.00	4.5	284	566	643	622	549
31	156	---	17	.00	---	.00	---	301	---	618	621	---
TOTAL	4350	4520	1886	137.09	0.00	0.00	31.02	3123.5	12925	18921	19348	18635
MEAN	140	151	60.8	4.42	.000	.000	1.03	101	431	610	624	621
MAX	165	169	121	16	.00	.00	4.5	301	566	661	656	675
MIN	120	119	17	.00	.00	.00	.00	4.9	319	532	597	549
AC-FT	8630	8970	3740	272	.00	.00	62	6200	25640	37530	38380	36960

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	377	196	77.8	15.4	.95	.000	.35	112	367	567	571	536
MAX	530	267	149	45.1	7.34	.002	1.66	307	583	683	686	787
(WY)	1986	1990	1992	1990	1990	1990	1985	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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1983 - 1999
ANNUAL TOTAL	41899.75	83876.61	
ANNUAL MEAN	115	230	236
HIGHEST ANNUAL MEAN			280
LOWEST ANNUAL MEAN			141
HIGHEST DAILY MEAN	341	Jul 20	675
LOWEST DAILY MEAN	.00	Feb 3	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 3	.00
INSTANTANEOUS PEAK FLOW			691
INSTANTANEOUS PEAK STAGE			18.48
ANNUAL RUNOFF (AC-FT)	83110	166400	171200
10 PERCENT EXCEEDS	305	635	593
50 PERCENT EXCEEDS	113	129	147
90 PERCENT EXCEEDS	.00	.00	.00

a Many days each year.

