

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 (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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379	275	120	46	8.6	6.6	.84	294	1300	575	648	467
2	376	283	119	44	8.6	6.1	1.0	311	1280	580	693	449
3	357	254	118	42	8.5	5.8	1.5	342	1260	573	727	421
4	356	260	110	41	7.8	5.4	1.9	377	1240	543	740	431
5	352	262	106	38	7.5	4.9	2.6	422	1220	553	736	435
6	339	258	106	38	6.9	4.7	3.2	464	1180	555	720	431
7	333	261	105	37	6.4	4.4	6.2	487	1150	542	710	417
8	328	253	102	36	5.8	4.2	12	512	1130	532	701	410
9	329	241	99	34	5.4	4.2	21	557	1110	521	663	408
10	325	241	95	33	5.6	3.9	31	590	1070	516	659	394
11	323	243	93	31	6.0	3.8	40	626	1040	522	645	390
12	320	244	91	30	5.9	3.8	46	658	1010	522	629	374
13	318	231	89	29	5.7	3.7	57	692	987	521	615	381
14	324	220	87	27	5.6	3.5	70	725	1000	528	607	389
15	331	212	81	26	5.7	3.0	82	746	987	546	604	390
16	333	202	81	25	5.3	3.0	96	773	949	553	618	397
17	333	194	81	24	5.4	2.7	104	791	951	561	629	400
18	330	190	78	22	5.6	2.6	111	819	934	554	640	402
19	328	184	76	21	5.1	2.3	120	841	876	566	655	396
20	306	165	75	20	5.0	2.1	129	866	865	560	663	397
21	314	159	70	19	5.2	1.9	140	880	830	552	667	391
22	302	158	70	18	5.1	1.5	153	951	797	546	657	388
23	283	155	67	17	4.9	1.3	169	1050	761	517	647	384
24	278	150	64	15	5.3	1.1	185	1120	727	501	637	381
25	277	143	62	15	5.9	.88	198	1170	694	512	610	370
26	270	139	59	13	6.3	.78	207	1220	659	515	588	363
27	266	134	57	13	6.3	.77	221	1260	646	511	556	372
28	276	133	55	12	6.6	.75	238	1280	644	510	536	376
29	274	127	52	11	---	.54	252	1300	620	511	516	379
30	269	124	49	10	---	.47	269	1310	585	527	477	369
31	265	---	47	9.4	---	.61	---	1300	---	540	466	---
TOTAL	9794	6095	2564	796.4	172.0	91.30	2968.24	24734	28502	16665	19659	11952
MEAN	316	203	82.7	25.7	6.14	2.95	98.9	798	950	538	634	398
MAX	379	283	120	46	8.6	6.6	269	1310	1300	580	740	467
MIN	265	124	47	9.4	4.9	.47	.84	294	585	501	466	363
AC-FT	19430	12090	5090	1580	341	181	5890	49060	56530	33060	38990	23710

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	382	198	80.3	18.9	3.47	.50	7.42	168	418	561	567	518
MAX	530	267	149	57.2	32.7	4.48	98.9	798	950	683	686	787
(WY)	1986	1990	1992	2000	2000	2000	2001	2001	2001	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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1983 - 2001
ANNUAL TOTAL	87902.46	123992.94	
ANNUAL MEAN	240	340	245
HIGHEST ANNUAL MEAN			340
LOWEST ANNUAL MEAN			141
HIGHEST DAILY MEAN	571	1310	1310
LOWEST DAILY MEAN	.61	.47	.00a
ANNUAL SEVEN-DAY MINIMUM	.74	.68	.00
MAXIMUM PEAK FLOW		1310	1310
MAXIMUM PEAK STAGE		20.53	20.53
ANNUAL RUNOFF (AC-FT)	174400	245900	177400
10 PERCENT EXCEEDS	524	793	594
50 PERCENT EXCEEDS	236	270	157
90 PERCENT EXCEEDS	4.5	5.1	.00

a Many days, several years.

