

## UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05247500 CROW WING RIVER NEAR PILLAGER, MN

LOCATION.--Lat 46°18'18", long 94°22'38", in SW $\frac{1}{4}$ NE $\frac{1}{4}$  sec. 30, T. 133 N., R. 29 W., Cass County, Hydrologic Unit 07010106, at Sylvan Dam power plant of Minnesota Power Co., 3.6 mi above mouth and 4.9 mi southeast of Pillager.

DRAINAGE AREA.--3,520 mi<sup>2</sup> (approximately).

PERIOD OF RECORD.--October 1968 to September 1986, October 1987 to current year. Records for August 1924 to September 1968 available in files of the Minnesota District Office.

GAGE.--Water-stage recorder. Datum of gage is 1,151.00 ft above sea level, adjustment of 1912. Prior to January 16, 1991, staff gage attached to retaining wall approximately 20 ft below the turbine outlet bays, at datum 1150.00 ft, adjustment of 1912.

REMARKS.--Records good. Discharge computed on the basis of power plant records prior to January 16, 1991. Records for Oct. 1, 1968 to Sept. 30, 1975, were adjusted for storage change in the Sylvan dam reservoir. Flow partly regulated by Sylvan Dam power plant and Gull Lake reservoir.

COOPERATION.--Prior to February 1991, records collected by Minnesota Power Company, in connection with a Federal Energy Regulatory Commission project.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily discharge since 1924, 18,300 ft<sup>3</sup>/s, Apr. 14, 1965.

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	759	1540	1690	931	878	753	1220	6710	3530	3670	1400	975
2	758	1590	1640	931	809	750	1430	6400	3500	3240	1280	970
3	765	1700	1420	928	790	751	1470	6240	3480	2950	1300	1010
4	665	2090	1290	926	774	854	1470	5740	3400	3020	1230	903
5	709	2140	1070	918	815	848	1740	5430	3280	2890	878	872
6	766	2100	993	911	863	846	2030	5070	3070	2590	1320	807
7	777	2480	1100	921	890	880	3390	4960	2970	2450	1310	1000
8	787	2870	1100	959	895	888	5450	4960	2940	2150	973	1050
9	798	2800	1080	969	900	1060	8000	4900	2960	2030	1000	1050
10	802	2810	1060	983	810	1010	13100	4760	2750	1970	1010	1060
11	808	2820	e1030	994	804	948	16100	4380	2750	1640	997	1060
12	808	2810	e970	989	783	918	16900	4160	3060	1650	942	1000
13	805	3020	e1060	984	788	918	16700	4050	3070	1620	882	849
14	791	3060	1130	981	806	949	15700	4010	5260	1580	911	948
15	783	2890	1120	976	844	1030	14300	3780	6830	1860	945	990
16	796	2620	1110	985	851	1080	12900	3700	8910	2470	972	922
17	809	2490	1130	982	863	1040	11600	3560	9470	922	863	917
18	822	2160	1100	997	857	1040	10100	3450	10300	580	1020	916
19	909	2310	1070	1060	846	1030	8760	3390	10300	1360	959	1110
20	892	2030	1040	1060	856	1050	7850	3490	9640	1360	950	1100
21	893	1330	1030	947	863	1040	7450	4040	8860	1470	928	907
22	892	1270	965	944	849	1080	7400	2330	8240	1370	915	905
23	897	1270	924	942	843	1050	7930	2980	7450	1380	801	964
24	918	1600	989	936	861	1160	8080	3770	6590	1480	771	942
25	921	1610	976	964	916	1250	8130	4000	5620	1280	777	915
26	921	1660	967	889	901	1270	8300	4030	4640	1210	812	945
27	918	1810	965	891	809	1110	8160	3950	4360	1270	865	942
28	938	1820	979	889	768	1100	7840	4000	4180	1490	868	935
29	1050	1690	962	886	---	1180	7310	3880	4020	1440	873	949
30	1130	1670	934	878	---	1190	7160	3830	3790	1360	776	908
31	1080	---	924	879	---	1190	---	3750	---	1480	810	---
TOTAL	26367	64060	33818	29430	23532	31263	247970	133700	159220	57232	30338	28821
MEAN	851	2135	1091	949	840	1008	8266	4313	5307	1846	979	961
MAX	1130	3060	1690	1060	916	1270	16900	6710	10300	3670	1400	1110
MIN	665	1270	924	878	768	750	1220	2330	2750	580	771	807
AC-FT	52300	127100	67080	58370	46680	62010	491800	265200	315800	113500	60180	57170
CFSM	.26	.65	.33	.29	.25	.31	2.50	1.31	1.61	.56	.30	.29
IN.	.30	.72	.38	.33	.27	.35	2.80	1.51	1.79	.65	.34	.32

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1246	1247	873	717	736	1408	3481	2483	1783	1466	1013	956
MAX	3771	3674	1699	1188	1360	2996	8266	5671	5307	3295	3520	3309
(WY)	1974	1972	1999	1986	1998	1972	2001	1986	2001	1972	1972	1986
MIN	215	215	199	218	255	548	882	545	447	206	120	161
(WY)	1977	1977	1977	1977	1977	1981	1981	1977	1988	1988	1976	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1969 - 2001
ANNUAL TOTAL	563873	865751	
ANNUAL MEAN	1541	2372	1451
HIGHEST ANNUAL MEAN			2564
LOWEST ANNUAL MEAN			446
HIGHEST DAILY MEAN	3400	May 14	16900
LOWEST DAILY MEAN	575	Sep 22	60
ANNUAL SEVEN-DAY MINIMUM	636	Sep 16	68
MAXIMUM PEAK FLOW			17500a
MAXIMUM PEAK STAGE			12.11a
INSTANTANEOUS LOW FLOW			78ab
ANNUAL RUNOFF (AC-FT)	1118000	1717000	1052000
ANNUAL RUNOFF (CFSM)	.47	.72	.44
ANNUAL RUNOFF (INCHES)	6.36	9.76	5.98
10 PERCENT EXCEEDS	2820	5670	2960
50 PERCENT EXCEEDS	1270	1070	978
90 PERCENT EXCEEDS	772	810	452

a Since Jan. 16, 1991.  
 b Result of regulation.  
 e Estimated.

