

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05331580 MISSISSIPPI RIVER AT HASTINGS, MN--Continued
(National Water-Quality Assessment Program)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1936-41, 1943-1977, 1995 to current year.

NASQAN samples previously collected at Mississippi River at Ninninger (station no. 05331570), January 1977 to September 1995.

PERIOD OF DAILY RECORD:

WATER TEMPERATURES.-- 1996 to 1998 (non-winter months).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	PH WATER WHOLE FIELD (STAND- ARD (US/CM) (00400)	PH WATER WHOLE LAB (STAND- ARD (US/CM) (00403)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED CENT SATUR- ATION) (MG/L) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	ALKA- LITY WAT DIS TOT IT FIELD CACO3 MG/L AS (39086)	BICAR- BONATE WATER DIS IT FIELD HCO3 MG/L AS (00453)
OCT	12...	416	431	8.2	8.1	13.7	744	12.0	119	180	148	181
NOV	18...	456	473	8.2	8.2	6.9	738	10.7	91	200	172	210
JAN	04...	554	570	7.9	7.9	.1	752	12.9	91	240	197	237
	20...	562	585	7.7	7.7	.0	755	12.9	90	230	203	247
FEB	23...	613	--	7.5	--	.8	744	12.9	93	--	--	--
MAR	07...	401	424	7.5	7.9	4.7	742	12.5	102	180	136	166
APR	25...	460	504	8.5	8.1	13.6	750	16.1	157	200	161	196
JUN	15...	623	631	7.9	7.9	21.5	735	7.9	90	290	200	244
JUL	06...	513	521	8.1	7.6	25.0	748	7.4	93	220	166	203
AUG	30...	504	529	8.1	8.1	23.2	747	5.9	71	220	154	188
SEP	07...	444	481	8.0	8.1	19.8	747	6.8	76	190	147	179

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL DIS- SOLVED (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS TOTAL PHOS- PHORUS (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	
OCT	12...	.065	.017	.65	.88	.649	.193	.095	.073	11	2.0	44.8	17.4
NOV	18...	.072	.028	.65	.93	1.02	.155	.100	.073	8.1	1.5	49.4	18.4
JAN	04...	.143	.036	.70	.88	1.52	.160	.126	.105	7.9	<.2	59.9	22.1
	20...	.236	.047	.76	1.1	1.76	.231	.159	.134	7.6	.3	57.5	21.8
FEB	23...	.467	.041	1.0	1.2	1.71	.229	.222	.198	--	--	--	--
MAR	07...	.437	.051	1.2	1.6	2.34	.226	.149	.104	--	1.2	44.9	16.1
APR	25...	<.020	.039	.64	1.4	.433	.180	.026	<.010	9.2	1.5	47.5	19.2
JUN	15...	.158	.077	.83	<.10	6.46	<.050	.167	.139	7.9	1.7	70.7	27.8
JUL	06...	.060	.043	.67	1.0	3.91	.225	.140	.113	9.2	1.0	55.1	20.8
AUG	30...	.184	.080	.76	1.2	1.06	.297	.186	.155	7.0	1.6	52.3	21.6
SEP	07...	--	--	--	--	--	--	--	--	7.1	1.2	43.9	18.5

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DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
OCT 12...	17.1	.6	2.7	19.6	29.5	.2	10.1	50	20	268	234
NOV 18...	19.3	.6	3.0	24.8	30.1	.2	7.5	50	8	274	261
JAN 04...	29.6	.8	3.2	37.8	38.8	.2	10.7	50	51	339	326
20...	28.3	.8	3.3	36.2	37.8	.1	12.0	50	55	354	327
FEB 23...	--	--	--	--	--	--	--	--	--	--	--
MAR 07...	13.6	.4	6.7	19.8	29.6	<.1	10.8	110	57	262	235
APR 25...	20.9	.6	3.5	28.5	40.5	<.1	1.9	40	31	291	260
JUN 15...	17.6	.4	3.3	24.9	71.6	.4	15.9	<10	10	418	381
JUL 06...	15.4	.4	2.5	22.9	45.9	.2	12.2	<10	3	323	293
AUG 30...	25.5	.7	3.0	29.4	43.1	.3	12.5	<10	<2	315	286
SEP 07...	24.6	.8	3.3	31.1	38.2	.2	10.7	<10	2	294	258

< Actual value is known to be less than the value shown.