

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 2001 TO SEPTEMBER 2002

Date	Time	Sample type	Medium code	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
Date		BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	2,6-DI-ETHYL ANILINE WAT FLT GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)
OCT 24...	1005	ENVIRONMENTAL		--	731	11.0	107	8.4	--	519	10.0	11.7	179
NOV 20...	0935	ENVIRONMENTAL		--	750	11.4	98	8.2	--	510	4.0	7.7	176
DEC 17...	1015	ENVIRONMENTAL		--	743	14.3	106	8.2	--	578	2.0	2.7	183
JAN 22...	1100	ENVIRONMENTAL		--	738	14.2	100	7.7	--	619	4.0	.0	210
FEB 12...	1000	ENVIRONMENTAL		--	745	13.5	98	7.9	--	621	.0	.8	263
APR 24...	1055	BLANK		--	742	--	--	--	3	--	15.0	--	--
APR 24...	1100	ENVIRONMENTAL		28800	742	10.1	95	7.9	--	481	15.0	11.5	145
MAY 06...	1130	ENVIRONMENTAL		--	742	10.9	105	8.2	--	562	18.0	12.4	170
JUN 11...	1130	ENVIRONMENTAL		18700	741	7.8	91	7.9	--	665	22.0	22.0	182
JUN 11...	1135	SPIKE		18700	741	7.8	91	7.9	--	665	22.0	22.0	182
JUL 26...	1000	ENVIRONMENTAL		--	744	7.1	86	7.7	--	392	28.0	24.0	142
AUG 14...	1045	ENVIRONMENTAL		20100	743	7.9	96	8.0	--	465	24.0	23.5	172
OCT 24...	218	6	33.3	39.6	<.04	.76	.78	.024	.05	.190	<.002	.005	<.002
NOV 20...	215	5	31.9	40.8	E.03	1.1	.96	.033	.06	.193	--	--	--
DEC 17...	224	0	29.6	57.3	.05	.66	2.06	.034	.10	.161	<.002	.007	<.002
JAN 22...	256	0	34.2	67.5	.08	.75	2.23	.039	.12	.165	--	--	--
FEB 12...	320	0	38.0	62.2	.06	.80	1.96	.051	.11	.184	<.006	<.006	<.004
APR 24...	--	--	<.30	<.1	<.04	<.10	<.05	<.008	<.02	<.004	--	--	--
APR 24...	177	0	19.6	68.8	E.04	1.2	1.36	.027	.05	.183	<.006	.016	<.004
MAY 06...	202	2	22.2	81.2	<.04	1.3	1.89	.068	<.02	.148	<.006	.044	<.011
JUN 11...	222	0	26.5	81.6	.08	1.2	8.10	.087	.10	.23	<.006	.427	.016
JUN 11...	222	0	--	--	--	--	--	--	--	--	.107	.549	.134
JUL 26...	173	0	19.2	24.1	.05	1.3	.85	.028	.12	.24	<.006	.011	<.004
AUG 14...	210	--	19.7	28.6	--	--	--	--	--	--	<.006	.014	<.004

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
OCT													
24...	<.005	.030	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	E.003	<.005	<.02
NOV													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	<.005	.027	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	E.003	<.005	<.02
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.005	.027	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.014	<.005	<.005	<.02
APR													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.005	.040	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.007	<.005	<.005	<.02
MAY													
06...	<.005	.043	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.009	<.005	<.005	<.02
JUN													
11...	<.005	.957	<.010	<.002	<.041	<.020	<.005	.069	<.003	E.046	<.005	<.005	<.02
11...	.098	1.11	.088	.102	E.114	E.121	.104	.181	.110	E.113	.107	.090	.07
JUL													
26...	<.005	.230	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.028	E.003	<.005	<.02
AUG													
14...	<.005	.196	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.048	<.005	<.005	<.02
Date	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THON WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
OCT													
24...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.010	<.006	<.002	<.007
NOV													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
17...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.021	<.006	<.002	<.007
JAN													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.007	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	E.011	<.006	<.002	<.007
APR													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.049	<.006	<.002	<.007
MAY													
06...	.012	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.028	<.006	<.002	<.007
JUN													
11...	.014	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.227	.013	<.002	<.007
11...	.100	.091	.102	.108	.105	.144	.096	E.288	.128	.360	.109	.106	.109
JUL													
26...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.014	<.006	<.002	<.007
AUG													
14...	<.002	<.009	<.005	<.003	<.004	<.035	<.027	<.050	<.006	.038	<.006	<.002	<.007

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Date	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U (UG/L) (82676)	PROPA- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U (UG/L) (82670)
OCT 24...	<.003	<.007	<.002	<.010	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.011	<.02
NOV 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 17...	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.011	<.02
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 12...	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	E.002	<.02
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY 06...	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	<.02
JUN 11...	.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02
JUL 11...	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	<.02
AUG 14...	.064	.119	.108	.112	.037	.067	.13	.109	.119	.123	.08	.078	.13
	<.003	<.010	<.004	<.022	<.006	<.011	.02	<.004	<.010	<.011	<.02	<.005	<.02
	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004	<.010	<.011	<.02	<.005	<.02

Date	TER- BACIL WATER FLTRD 0.7 U (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U (UG/L) (82675)	THIO- BENCARB WATER FLTRD 0.7 U (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U (UG/L) (82661)	SEDI- SUS- PENDE (MG/L) (80154)	Data base number
OCT 24...	<.034	<.02	<.005	<.002	<.009	36	01
NOV 20...	--	--	--	--	--	30	01
DEC 17...	<.034	<.02	<.005	<.002	<.009	6.9	01
JAN 22...	--	--	--	--	--	3.2	01
FEB 12...	<.034	<.02	<.005	<.002	<.009	10	01
APR 24...	--	--	--	--	--	--	77
MAY 06...	<.034	<.02	<.005	<.002	<.009	48	01
JUN 11...	<.034	<.02	<.005	<.002	<.009	25	01
JUL 11...	E.105	.08	.106	.101	.096	--	77
AUG 14...	<.034	<.02	<.005	<.002	<.009	42	01
	<.034	<.02	<.005	<.002	<.009	44	01

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