Water-Data Report 2008

05420500 Mississippi River at Clinton, IA

Upper Mississippi-Skunk-Wapsipinicon Basin
Copperas-Duck Subbasin

LOCATION.--Lat 41°46′50″, long 90°15′07″ referenced to North American Datum of 1927, in NW ¼ sec.34, T.81 N., R.6 E., Clinton County, IA, Hydrologic Unit 07080101, on right bank at end of 8th Avenue in Camanche, 5.0 mi upstream from Wapsipinicon River, 6.4 mi downstream from Clinton, 10.6 mi downstream from Lock and Dam 13, and at mile 511.8 upstream from Ohio River.

DRAINAGE AREA.--85,600 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to August 1873 (fragmentary), October 1873 to current year. October 1932 to September 1939, published as "at Le Claire"; June 1873 to December 1932, published in the Iowa State Planning Board report "Stream-flow records of Iowa, 1873-1932".

REVISED RECORDS.--WDR IA-75-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 562.68 ft above NGVD of 1929. June 6, 1969 to September 16, 1988, water-stage recorder at site 400 ft upstream at same datum. Auxiliary water-stage recorder at Lock and Dam 13 since October 1, 1958. See WSP 1728 for history of changes prior to October 1, 1955.

REMARKS.--Records are considered good, except for those estimated daily discharges, which are poor. Minor flow regulation caused by navigation dams. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry at station. Precipitation records are available online at the U.S. Army Corps of Engineers website: www2.mvr.usace.army.mil/WaterControl/datamining2.cfm.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1828, that of April 28, 1965.

05420500 Mississippi River at Clinton, IA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	40,500	84,400	27,000	e34,900	e33,200	e29,400	64,900	180,000	95,200	93,900	36,600	27,600
2	44,000	83,100	24,200	e34,700	e33,200	e29,500	68,700	171,000	90,800	88,000	34,000	26,500
3	47,800	78,000	20,200	e34,700	e33,200	e29,300	72,400	167,000	78,700	77,100	31,500	24,900
4	56,600	74,000	e18,500	e35,100	e33,400	e29,200	74,000	163,000	73,600	71,200	33,100	22,700
5	54,700	70,700	19,300	e35,700	e33,600	e29,100	77,100	159,000	76,000	64,500	39,000	22,600
6	46,300	67,300	22,300	e36,300	e33,700	e28,800	78,500	154,000	88,600	57,900	39,600	21,800
7	41,300	58,800	24,000	36,500	e33,800	e28,400	81,700	151,000	91,400	55,900	36,800	21,400
8	40,100	52,800	26,200	38,200	e33,900	e28,200	82,100	147,000	92,000	63,700	32,400	22,200
9	44,500	50,900	28,000	e39,000	e33,800	e28,100	84,400	143,000	118,000	68,300	29,900	24,500
10	63,300	47,900	30,400	e39,700	e33,400	e28,000	87,000	141,000	147,000	70,000	30,900	26,000
11	71,500	45,700	33,600	e39,500	e32,900	e27,800	94,500	140,000	171,000	70,700	32,700	25,300
12	72,700	44,500	35,600	e39,200	e32,200	e28,700	106,000	146,000	178,000	76,800	28,700	22,600
13	72,300	44,000	36,000	e38,800	e31,700	e30,200	112,000	149,000	180,000	74,100	23,200	26,600
14	72,700	42,800	35,000	e38,400	e31,300	e33,600	117,000	148,000	178,000	59,200	21,800	30,600
15	73,100	41,600	35,400	e37,800	e31,000	e38,000	118,000	145,000	180,000	53,700	26,100	32,200
16	72,500	40,000	36,400	e36,900	e30,900	e43,000	121,000	140,000	183,000	55,300	31,400	30,100
17	69,400	37,500	36,300	e35,800	e30,800	54,300	127,000	135,000	183,000	53,700	30,800	28,400
18	71,500	37,800	35,700	e33,800	e30,600	60,200	133,000	129,000	179,000	54,700	32,900	26,200
19	81,400	38,000	34,700	e33,400	e30,300	64,800	141,000	121,000	174,000	59,500	29,600	26,000
20	85,000	36,300	35,200	e32,800	e30,100	75,100	151,000	113,000	169,000	67,500	28,200	26,000
21	82,000	37,200	34,800	e32,800	e29,800	75,700	156,000	110,000	164,000	68,200	26,800	26,000
22	78,900	38,200	34,500	e32,700	e29,600	69,100	156,000	102,000	159,000	60,100	24,600	25,000
23	78,000	38,900	40,400	e32,700	e29,400	63,300	153,000	98,300	151,000	48,800	23,300	21,600
24	78,600	37,600	38,500	e32,400	e29,400	57,000	149,000	91,900	142,000	47,800	22,600	22,900
25	78,700	35,700	36,900	e32,200	e29,400	51,400	150,000	85,300	135,000	46,800	22,200	25,900
26	83,000	34,300	35,600	e32,500	e29,600	57,100	171,000	99,400	125,000	46,900	21,700	27,800
27	89,100	34,100	34,600	e32,900	e29,500	59,500	193,000	96,100	117,000	45,200	22,200	28,100
28	91,100	33,300	e34,800	e33,600	e29,200	60,500	198,000	86,900	110,000	37,100	22,900	e27,500
29	91,400	33,600	e35,000	e34,000	e29,400	60,400	194,000	83,100	105,000	35,500	24,000	26,900
30	91,100	33,300	e35,100	e33,700	---	58,900	190,000	82,300	99,700	38,200	25,300	26,900
31	88,600	---	e34,900	e33,300	---	62,100	---	94,000	---	38,300	26,400	---
Total	2,151,700	1,432,300	989,100	1,094,000	912,300	1,418,700	3,701,300	3,971,300	4,034,000	1,848,600	891,200	772,800
Mean	69,410	47,740	31,910	35,290	31,460	45,760	123,400	128,100	134,500	59,630	28,750	25,760
Max	91,400	84,400	40,400	39,700	33,900	75,700	198,000	180,000	183,000	93,900	39,600	32,200
Min	40,100	33,300	18,500	32,200	29,200	27,800	64,900	82,300	73,600	35,500	21,700	21,400
Ac-ft	4,268,000	2,841,000	1,962,000	2,170,000	1,810,000	2,814,000	7,342,000	7,877,000	8,001,000	3,667,000	1,768,000	1,533,000
Cfsm	0.81	0.56	0.37	0.41	0.37	0.53	1.44	1.50	1.57	0.70	0.34	0.30
In.	0.94	0.62	0.43	0.48	0.40	0.62	1.61	1.73	1.75	0.80	0.39	0.34

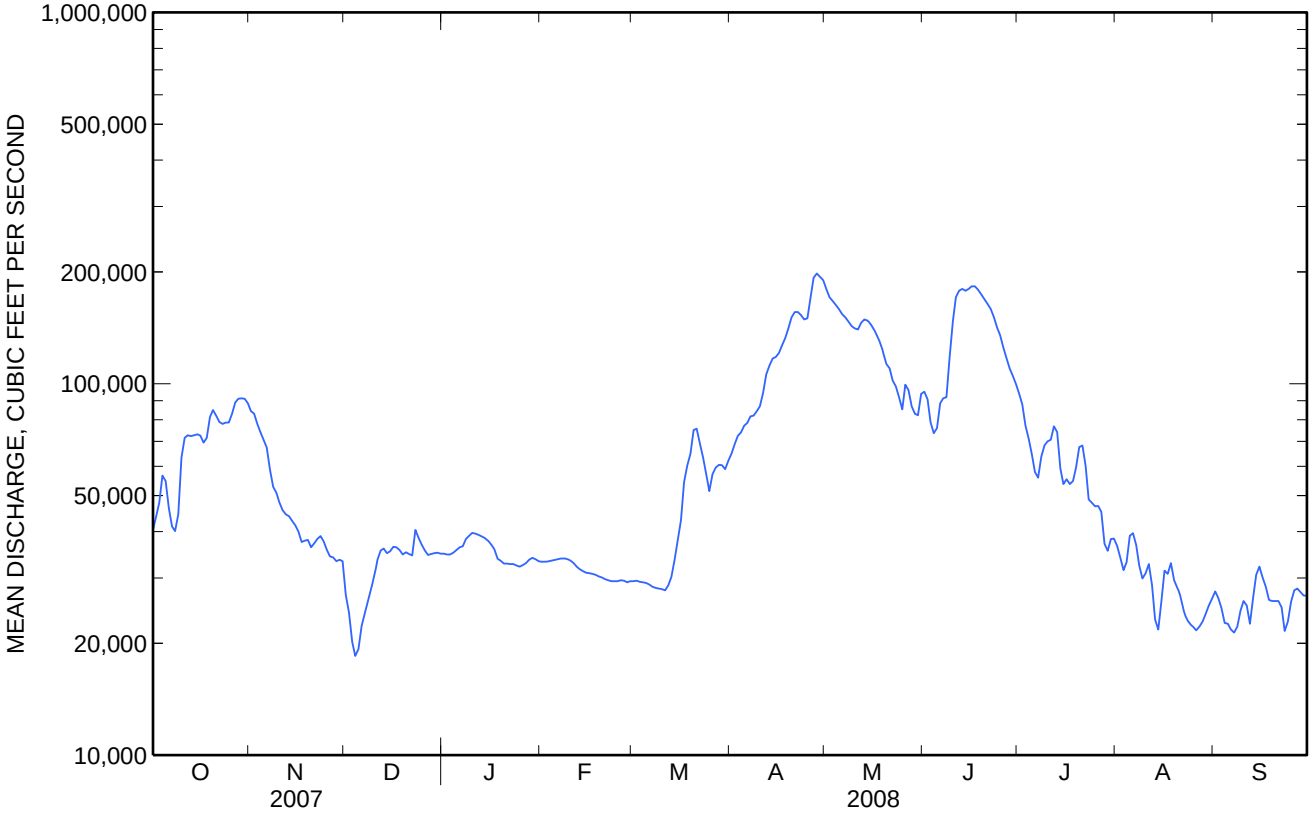
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1874 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	40,980	39,210	28,100	26,070	28,400	50,500	90,290	82,630	69,990	55,760	37,710	37,780
Max	203,600	146,800	73,590	54,100	65,680	127,500	175,900	212,400	182,100	198,900	113,400	92,380
(WY)	(1882)	(1882)	(1882)	(1973)	(1966)	(1973)	(1997)	(1888)	(1892)	(1993)	(1993)	(1938)
Min	13,490	13,760	11,120	11,390	14,000	17,600	26,040	23,190	15,420	14,690	12,460	13,870
(WY)	(1934)	(1934)	(1934)	(1890)	(1893)	(1934)	(1931)	(1977)	(1988)	(1988)	(1936)	(1933)

05420500 Mississippi River at Clinton, IA—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1874 - 2008	
Annual total	17,795,900		23,217,300			
Annual mean	48,760		63,440		48,990	
Highest annual mean					94,690	1882
Lowest annual mean					18,870	1934
Highest daily mean	127,000	Apr 5	198,000	Apr 28	307,000	Apr 28, 1965
Lowest daily mean	16,600	Aug 12	18,500	Dec 4	6,500	Dec 25, 1933
Annual seven-day minimum	20,200	Jul 31	22,100	Dec 2	7,430	Dec 24, 1933
Maximum peak flow			200,000	Apr 28	307,000	Apr 28, 1965
Maximum peak stage			21.16	Jun 15	24.65	Apr 28, 1965
Annual runoff (ac-ft)	35,300,000		46,050,000		35,490,000	
Annual runoff (cfsm)	0.570		0.741		0.572	
Annual runoff (inches)	7.73		10.09		7.78	
10 percent exceeds	93,600		145,000		95,200	
50 percent exceeds	39,100		39,600		37,900	
90 percent exceeds	22,400		26,200		19,000	



05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to September 1987, October 1994 to current year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 11

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Gage height, feet (00065)	Instantaneous discharge, ft3/s (00061)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unf lab, µS/cm 25 degC (90095)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, air, deg C (00020)
Nov													
19...	1015	9.81	38,000	19	.258	.189	742	11.4	7.9	8.3	494	474	9.0
Mar													
11...	1030	9.57	27,800	4.7	.144	.105	--	14.4	7.1	7.9	498	496	--
Apr													
02...	1015	11.53	68,700	23	.136	.101	754	11.8	8.0	8.1	458	446	9.9
23...	1015	17.14	153,000	28	.209	.156	751	9.6	7.8	7.9	348	350	22.0
29...	1000	20.17	199,000	97	.220	.165	747	8.8	7.8	7.7	302	300	14.0
May													
22...	0920	14.21	102,000	23	.303	.224	744	9.5	8.2	8.2	401	397	--
Jun													
04...	1030	12.81	E70,900	56	.217	.159	736	8.3	8.3	8.2	446	440	--
17...	1130	20.74	183,000	88	.198	.146	748	--	7.7	7.9	361	364	--
Jul													
10...	1020	11.39	67,100	51	.238	.173	--	6.3	8.0	8.2	465	472	--
23...	1030	11.13	48,800	27	.209	.152	750	6.5	8.0	8.2	437	447	--
Aug													
19...	1000	9.54	29,600	21	.182	.132	748	11.1	8.8	8.8	454	458	21.0
Sep													
03...	1000	9.03	27,000	30	.168	.121	748	8.3	8.8	8.7	451	449	--

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Carbonate, wat flt infl pt titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)
Nov													
19...	5.1	58.1	22.4	2.90	10.8	189	194	234	1.3	17.0	.20	14.3	33.8
Mar													
11...	.0	54.5	22.4	2.72	13.8	193	184	222	.8	21.9	.15	12.1	28.3
Apr													
02...	5.7	50.7	19.2	2.77	13.1	174	163	196	1.3	20.7	.14	10.3	23.4
23...	12.0	35.4	14.1	3.10	10.5	123	100	122	.0	16.7	E.10	9.23	22.5
29...	11.3	34.3	12.2	3.48	7.62	110	104	126	.0	13.8	.17	9.17	18.1
May													
22...	16.5	45.6	18.0	2.57	8.49	146	146	176	1.0	15.1	.14	5.21	32.3
Jun													
04...	18.9	45.7	19.6	2.54	8.23	163	157	189	1.0	15.5	.16	1.60	38.4
17...	21.0	40.5	15.3	3.37	6.24	136	136	165	.6	11.4	.14	8.06	24.1
Jul													
10...	25.1	52.4	21.7	2.68	8.49	178	168	203	1.2	14.8	.20	10.2	36.3
23...	25.8	46.9	21.2	2.63	8.72	171	178	215	.9	14.5	.17	10.1	32.6
Aug													
19...	25.5	46.0	23.3	2.18	10.2	192	180	212	3.3	16.7	.16	7.49	33.6
Sep													
03...	25.0	46.2	24.3	2.25	11.5	188	182	215	3.3	16.9	.15	7.29	30.2

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)
Nov													
19...	317	.61	.87	.072	3.34	.022	.14	.060	.071	.125	1.1	<.04	1.1
Mar													
11...	299	.64	.65	.095	3.13	.017	.08	.032	.062	.114	.8	<.04	.8
Apr													
02...	263	.44	.78	<.020	2.93	.018	.31	.031	.051	.160	2.3	<.04	2.3
23...	224	.52	1.2	<.020	2.42	.015	.43	.038	.053	.219	3.3	E.1	3.2
29...	198	.64	1.2	<.020	2.55	.025	.51	.047	.081	.303	4.0	<.04	4.0
May													
22...	259	.68	1.2	<.020	2.55	.034	.43	E.003	.028	.165	3.4	<.04	3.4
Jun													
04...	268	.71	1.2	<.020	2.78	.037	.55	E.005	.034	.223	5.2	<.04	5.2
17...	227	.63	1.1	.083	3.09	.076	.42	.095	.110	.26	3.8	<.04	3.8
Jul													
10...	289	.64	.97	.054	2.99	.061	.39	.100	.107	.234	2.9	<.04	2.9
23...	293	.58	.82	.048	2.12	.038	.27	.109	.117	.196	2.4	E.1	2.3
Aug													
19...	276	.45	.80	<.020	.79	.018	.47	.046	.075	.162	2.8	<.04	2.8
Sep													
03...	281	.42	1.0	<.020	.55	.013	.60	.071	.097	.194	3.8	M	3.7

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)	Lithium water, fltrd, µg/L (01130)	Selen-ium, water, fltrd, µg/L (01145)	Stront-ium, water, fltrd, µg/L (01080)	Vana-dium, water, fltrd, µg/L (01085)	1-Naph-thol, water, fltrd 0.7u GF µg/L (49295)	2,6-Di-ethyl-aniline water, fltrd 0.7u GF µg/L (82660)	2Chloro-2',6'-diethyl acet-anilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, µg/L (61620)
Nov													
19...	10.9	1.0	42	29	10.4	.83	118	1.5	--	<.002	--	E.029	--
Mar													
11...	5.3	.46	22	44	3.2	.49	86.7	.43	<.04	<.006	<.010	E.035	<.010
Apr													
02...	4.5	.55	21	28	2.8	.46	81.6	.67	<.04	<.006	<.010	E.031	<.010
23...	5.8	.64	21	51	3.3	.35	70.1	.91	<.04	<.006	<.010	E.028	<.010
29...	12.6	.76	17	59	2.4	.38	60.0	1.1	<.04	<.006	<.010	E.038	<.010
May													
22...	13.5	.83	24	28	7.0	.75	92.8	1.2	<.04	<.006	<.010	E.021	<.010
Jun													
04...	14.4	.83	25	12	7.4	.72	101	1.2	<.04	<.006	<.010	E.062	<.010
17...	6.5	1.1	22	17	4.0	.51	85.2	1.6	<.04	<.006	<.010	E.139	<.010
Jul													
10...	21.9	1.3	22	E5	5.4	.77	117	2.0	<.04	<.006	<.010	E.134	<.010
23...	7.1	1.5	22	E7	5.0	.59	106	2.3	<.04	<.006	<.010	E.056	<.010
Aug													
19...	6.6	2.3	23	E5	4.6	.48	102	3.2	<.04	<.006	<.010	E.050	<.010
Sep													
03...	6.6	2.7	18	<8	3.2	.53	96.9	3.5	<.04	<.006	<.010	E.042	<.010

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	3,4-Dichloroaniline water, fltrd, µg/L (61625)	3,5-Dichloroaniline water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Acetochlor, water, fltrd, µg/L (49260)	Alachlor, water, fltrd, µg/L (46342)	alpha-Endosulfan, water, fltrd, µg/L (34362)	alpha-HCH, water, fltrd, µg/L (34253)	Atrazine, water, fltrd, µg/L (39632)	Azinphos-methyl oxon, water, fltrd, µg/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF µg/L (82686)	Benfluralin, water, fltrd 0.7u GF µg/L (82673)	Butylate, water, fltrd, µg/L (04028)	Carbaryl, water, fltrd 0.7u GF µg/L (82680)
Nov													
19...	--	--	--	E.004	<.006	--	<.002	.037	--	<.120	<.004	<.002	<.060
Mar													
11...	<.006	<.008	<.005	E.007	<.006	<.006	--	.022	<.04	<.120	<.010	--	<.060
Apr													
02...	<.006	<.008	<.005	.009	<.006	<.006	--	.024	<.04	<.120	<.010	--	<.060
23...	<.006	<.008	<.005	.012	<.006	<.006	--	.022	<.04	<.120	<.010	--	<.060
29...	<.006	<.008	<.005	.032	E.007	<.006	--	.042	<.04	<.120	<.010	--	<.060
May													
22...	<.006	<.008	<.005	.045	<.006	<.006	--	.032	<.04	<.120	<.010	--	<.060
Jun													
04...	<.006	<.008	<.005	.376	.017	<.006	--	.728	<.04	<.120	<.010	--	<.060
17...	<.006	<.008	<.005	.315	.010	<.006	--	.835	<.06	<.120	<.010	--	<.060
Jul													
10...	<.006	<.008	<.005	.147	E.007	<.006	--	.633	<.04	<.120	<.010	--	<.060
23...	<.006	<.008	<.005	.031	<.006	<.006	--	.174	<.04	<.120	<.010	--	<.060
Aug													
19...	<.006	<.008	<.005	.011	<.006	<.006	--	.100	<.04	<.120	<.010	--	<.060
Sep													
03...	<.006	<.008	<.005	E.006	<.006	<.006	--	.087	<.04	<.120	<.010	--	<.060

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 6 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Carbo-furan, water, fltrd 0.7u GF µg/L (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7u GF µg/L (82687)	cis-Propi-cona-zole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	lambda-Cyhalo-thrin, water, fltrd, µg/L (61595)	Cyper-methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Dicro-tophos, water, fltrd, µg/L (38454)
Nov													
19...	<.020	--	<.005	<.010	--	<.020	--	--	--	<.003	<.012	<.005	--
Mar													
11...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
Apr													
02...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
23...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
29...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
May													
22...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
Jun													
04...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08
17...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	E.006	<.005	<.08
Jul													
10...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	E.004	<.005	<.08
23...	<.020	<.06	<.005	<.010	<.006	E.011	<.016	<.004	<.014	<.003	<.012	<.005	<.08
Aug													
19...	<.020	<.06	.010	<.010	<.006	<.020	<.016	<.004	<.014	<.003	E.004	<.005	<.08
Sep													
03...	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003	<.012	<.005	<.08

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 7 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd 0.7u GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7u GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethalfluralin, water, fltrd 0.7u GF µg/L (82663)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Ethoprop, water, fltrd 0.7u GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)
Nov													
19...	<.009	--	--	<.04	--	<.002	<.009	--	--	<.012	--	--	--
Mar													
11...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
Apr													
02...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
23...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
29...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
May													
22...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
Jun													
04...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
17...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
Jul													
10...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
23...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
Aug													
19...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03
Sep													
03...	<.009	<.006	<.01	<.04	<.022	<.002	--	<.02	<.006	<.012	<.053	<.20	<.03

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 8 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide water, fltrd, µg/L (62167)	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Lindane water, fltrd, µg/L (39341)	Linuron water, fltrd 0.7u GF µg/L (82666)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
Nov													
19...	<.029	<.013	<.024	<.020	<.010	--	--	--	<.006	<.060	--	<.016	--
Mar													
11...	<.029	<.013	<.024	E.007	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
Apr													
02...	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
23...	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
29...	<.029	E.007	<.024	<.020	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
May													
22...	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
Jun													
04...	<.029	<.013	<.024	E.005	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
17...	<.029	E.008	<.024	E.010	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
Jul													
10...	<.029	<.013	E.005	E.003	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
23...	<.029	<.013	<.024	E.004	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
Aug													
19...	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007
Sep													
03...	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	--	--	<.020	<.016	<.007

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 9 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Methidathion, water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7u GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7u GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Napropamide, water, fltrd 0.7u GF µg/L (82684)	Oxyfluorfen, water, fltrd, µg/L (61600)	p,p'-DDE, water, fltrd, µg/L (34653)	Parathion, water, fltrd, µg/L (39542)	Pebulate, water, fltrd 0.7u GF µg/L (82669)	Pendimethalin, water, fltrd 0.7u GF µg/L (82683)
Nov													
19...	--	--	<.008	.018	<.012	<.002	--	<.018	--	<.003	<.010	<.005	<.012
Mar													
11...	<.004	<.01	<.008	.011	<.012	<.003	<.010	--	<.006	--	--	--	<.012
Apr													
02...	<.004	<.01	<.008	.036	<.012	<.003	<.010	--	<.006	--	--	--	<.012
23...	<.004	<.01	<.008	.030	<.012	<.003	<.010	--	<.006	--	--	--	<.012
29...	<.004	<.01	<.008	.059	E.009	<.003	<.010	--	<.006	--	--	--	<.012
May													
22...	<.004	<.01	<.008	.032	<.012	<.003	<.010	--	<.006	--	--	--	<.012
Jun													
04...	<.004	<.01	<.008	.192	<.012	<.003	<.010	--	<.006	--	--	--	<.012
17...	<.004	<.01	<.008	.765	E.011	<.003	<.010	--	<.006	--	--	--	<.012
Jul													
10...	<.004	<.01	<.008	.205	<.012	<.003	<.010	--	<.006	--	--	--	<.012
23...	<.004	<.01	<.008	.100	<.012	<.003	<.010	--	<.006	--	--	--	<.012
Aug													
19...	<.004	<.01	<.008	.026	<.012	<.003	<.010	--	<.006	--	--	--	<.012
Sep													
03...	<.004	<.01	<.008	.016	<.012	<.003	<.010	--	<.006	--	--	--	<.012

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 10 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propyzamide, water, fltrd 0.7u GF µg/L (82676)	Propachlor, water, fltrd, µg/L (04024)	Propanil, water, fltrd 0.7u GF µg/L (82679)	Propargite, water, fltrd 0.7u GF µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron water, fltrd 0.7u GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)
Nov													
19...	--	<.040	--	--	M	--	<.004	<.006	<.006	<.04	E.004	<.02	--
Mar													
11...	<.03	<.040	<.05	<.008	<.01	<.006	<.004	--	<.006	<.04	E.007	<.02	<.003
Apr													
02...	<.03	<.040	<.05	<.008	<.01	<.006	<.004	--	<.006	<.04	E.007	<.02	<.003
23...	<.03	<.040	<.05	<.008	<.01	<.006	<.004	--	<.006	<.04	.011	<.02	<.003
29...	<.03	<.040	<.05	<.008	<.01	<.006	<.004	--	<.006	<.04	.019	<.02	<.003
May													
22...	<.03	<.040	<.05	<.008	E.01	<.006	<.004	--	<.006	<.04	.017	<.02	<.003
Jun													
04...	<.03	<.040	<.05	<.008	E.01	<.006	<.004	--	<.006	<.04	.010	<.02	<.003
17...	<.03	<.040	<.05	<.008	E.01	<.006	<.004	--	<.006	<.04	.032	<.02	<.003
Jul													
10...	<.03	<.040	<.06	<.008	E.01	<.006	<.004	--	<.006	<.04	.015	<.02	<.003
23...	<.03	<.040	<.05	<.008	E.01	<.006	<.004	--	<.006	<.04	.010	<.02	<.003
Aug													
19...	<.03	<.040	<.06	<.008	E.01	<.006	<.004	--	<.006	<.04	E.007	<.02	<.003
Sep													
03...	<.03	<.040	<.05	<.008	E.01	<.006	<.004	--	<.006	<.04	<.008	<.02	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 11 of 11
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7u GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7u GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)	Triallate, water, fltrd 0.7u GF µg/L (82678)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7u GF µg/L (82661)	Dichlorvos, water, fltrd, µg/L (38775)	Suspnd. sediment, sieve diametr percent <62.5um (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
Nov												
19...	--	<.02	--	<.010	--	<.006	--	<.006	--	96	26	2,670
Mar												
11...	<.04	<.02	E.01	<.010	<.02	--	<.035	<.009	<.01	96	7	525
Apr												
02...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	100	44	8,160
23...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	98	96	39,700
29...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	98	146	78,400
May												
22...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	96	61	16,800
Jun												
04...	<.04	<.02	E.01	<.010	<.02	--	<.035	<.009	<.01	97	101	E19,300
17...	<.04	<.02	E.01	<.010	<.02	--	<.035	<.009	<.01	99	106	52,400
Jul												
10...	<.04	<.02	M	<.010	<.02	--	<.035	<.009	<.01	97	21	3,800
23...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	87	10	1,320
Aug												
19...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	93	29	2,320
Sep												
03...	<.04	<.02	<.01	<.010	<.02	--	<.035	<.009	<.01	99	47	3,430

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 1 of 6
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Time	1-Methylnaphthalene, water, unfltrd µg/L (81696)	2,6-Dimethylnaphthalene, water, unfltrd µg/L (62805)	2-Methylnaphthalene, water, unfltrd µg/L (30194)	3,4-Dichlorophenyl isocyanate wat unf µg/L (63145)	3-beta-Coprostanol, water, unfltrd µg/L (62806)	3-Methyl-1H-indole, water, unfltrd µg/L (62807)	3-tert-Butyl-4-hydroxyanisole wat unf µg/L (61702)	4-Cumylphenol, water, unfltrd µg/L (62808)	4-n-Octylphenol, water, unfltrd µg/L (62809)	4-Nonylphenol, all isomers wat unf µg/L (62829)	4-Nonylphenol diethoxylate, wat unf µg/L (61703)	4-Nonylphenol monoethoxylate, wat unf µg/L (61704)
Jun													
17...	1130	<.2	<.2	<.2	<2.0	<.8	<.2	<.2	<.2	<.2	<2	<3	<2.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 6
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	4t-Octylphenol diethoxylate, wat flt µg/L (61705)	4t-Octylphenol monoethoxylate, wat flt µg/L (61706)	4-tert-Octylphenol, water, unfltrd µg/L (62810)	5-Methyl-1H-benzotriazole, wat unf µg/L (61944)	Acetophenone water, unfltrd µg/L (62811)	AHTN, water, unfltrd µg/L (62812)	Anthracene, water, unfltrd µg/L (34220)	9,10-Anthraquinone water, unfltrd µg/L (62813)	Atrazine, water, unfltrd µg/L (39630)	BDE congenr 47, water, unfltrd µg/L (63147)	Benzo[a]pyrene, water, unfltrd µg/L (34247)	Benzophenone water, unfltrd µg/L (62814)	beta-Sitosterol, water, unfltrd µg/L (62815)
Jun 17...	<.32	<1	<.2	<2	<.3	<.2	<.2	<.2	1.1	<.2	<.2	<.2	<.8

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 6
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	beta-Stigmastanol, water, unfltrd µg/L (61948)	Bis(2-ethylhexyl) phthalate, wat unf µg/L (39100)	Bisphenol A, water, unfltrd µg/L (62816)	Bromacil, water, unfltrd µg/L (30234)	Caffeine, water, unfltrd µg/L (81436)	Camphor water, unfltrd µg/L (62817)	Carbaryl, water, unfltrd µg/L (39750)	Carbazole, water, unfltrd µg/L (77571)	Chlorpyrifos water, unfltrd µg/L (38932)	Cholesterol, water, unfltrd µg/L (62818)	Cotinine, water, unfltrd µg/L (61945)	DEET, water, unfltrd µg/L (61947)	Diazinon, water, unfltrd µg/L (39570)
Jun 17...	<.8	<2	<.4	<.3	<.2	<.2	<.2	<.2	<.2	M	<.8	<.2	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 6
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Dichlorvos, water, unfltrd µg/L (30218)	Diethyl phthalate, water, unfltrd µg/L (34336)	D-Limonene, water, unfltrd µg/L (62819)	Fluoranthene water, unfltrd µg/L (34376)	HHCB, water, unfltrd µg/L (62823)	Indole, water, unfltrd µg/L (62824)	Isoborneol, water, unfltrd µg/L (62825)	Isophorone water, unfltrd µg/L (34408)	Isoquinoline, water, unfltrd µg/L (62826)	Menthol water, unfltrd µg/L (62827)	Metalaxyl, water, unfltrd µg/L (04254)	Methyl salicylate, water, unfltrd µg/L (62828)	p-Cresol, water, unfltrd µg/L (77146)
Jun 17...	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2

05420500 Mississippi River at Clinton, IA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 5 of 6
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Pentachlorophenol, water, unfltrd µg/L (39032)	Phenanthrene, water, unfltrd µg/L (34461)	Phenol, water, unfltrd µg/L (34694)	Prometon, water, unfltrd µg/L (39056)	Pyrene, water, unfltrd µg/L (34469)	Tributyl phosphate, water, unfltrd µg/L (62832)	Triclosan, water, unfltrd µg/L (61708)	Triethyl citrate water, unfltrd µg/L (62833)	Triphenyl phosphate, water, unfltrd µg/L (62834)	Tris(2-butoxyethyl) phosphate, wat unf µg/L (62830)	Tris(2-chloroethyl) phosphate, wat unf µg/L (62831)	Tris-(diCl-i-Pr) phosphate, wat unf µg/L (61707)	1,4-Dichlorobenzene water, unfltrd µg/L (34571)
Jun													
17...	<.8	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	M	<.2	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 6 of 6
[Remark codes: <, less than; M, presence verified but not quantified.]

Date	Tribromomethane water, unfltrd µg/L (32104)	Isopropylbenzene water, unfltrd µg/L (77223)	Naphthalene, water, unfltrd µg/L (34696)	Tetrachloroethene, water, unfltrd µg/L (34475)
Jun				
17...	<.2	<.2	<.2	<.4