

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998

[mg/L, milligrams per liter; <, less than detection limit indicated; >, greater than; --, data not collected. Numbers in parentheses () are the U.S. Geological Survey Water Data Storage and Retrieval System parameter codes]

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05420680, Wapsipinicon River near Tripoli, IA (site 1, fig. 1)													
10-09-96	1043	regular	<0.02	<0.01	<0.20	0.31	0.30	0.06	0.01	0.02	3.8	--	5
11-06-96	1058	blank	.03	.02	<.20	<.05	<.20	<.01	<.01	<.01	2.1	0.2	--
11-06-96	1118	regular	.09	.03	.30	1.8	.40	.03	.03	.02	3.0	.3	3
12-04-96	1011	do.	.15	.04	.30	7.3	.50	.03	.02	.04	2.6	.3	6
01-08-97	1103	do.	.41	.05	1.0	7.0	1.1	.21	.12	.11	4.4	.8	9
01-08-97	1108	replicate	.41	.06	.90	7.2	1.1	.21	.12	.11	4.3	.8	10
02-05-97	1105	regular	.23	.05	.50	4.1	.50	.04	.02	<.01	2.1	.30	8
03-17-97	1305	do.	.63	.06	1.3	3.3	1.6	.22	.08	.06	7.6	1.6	31
04-09-97	0858	do.	.08	.04	.40	8.5	1.3	.34	.03	.04	3.7	.7	144
05-05-97	1044	do.	.04	.07	.56	9.5	.56	.09	.05	.05	5.0	.5	18
06-04-97	0934	blank	<.02	<.01	<.20	<.05	<.20	<.01	<.01	<.01	.4	.2	--
06-04-97	0954	regular	<.02	.06	.21	6.5	.56	.08	<.01	.02	2.7	.5	15
06-22-97	1130	do.	.11	.09	.54	8.5	.98	.23	.12	.05	4.4	2.0	41
07-09-97	0824	do.	<.02	.02	.23	4.3	.58	.10	.02	.03	2.7	1.1	64
08-05-97	0819	do.	<.02	.03	.37	5.7	.41	.06	.06	.04	3.4	1.0	24
08-28-97	1230	do.	<.02	.15	.52	.17	.53	.03	.02	<.01	3.1	.9	8
09-04-97	0944	do.	<.02	.04	.36	3.9	.81	.18	.05	.05	3.9	1.1	26
10-09-97	1208	blank	<.02	<.01	<.20	.06	<.20	<.01	<.01	<.01	--	--	--
10-09-97	1228	regular	<.02	.04	.50	1.9	.53	.04	.04	<.01	3.0	.4	4
11-06-97	1249	do.	<.02	.03	.27	6.7	.37	.03	.02	.03	2.3	.4	6
12-03-97	1249	do.	<.02	.02	.19	4.6	.24	.02	.01	.01	2.1	.4	4
01-07-98	1247	do.	.05	<.01	.31	4.0	.25	.01	<.01	.02	2.2	.4	2
02-19-98	1351	do.	.84	.06	2.2	4.4	2.7	.57	.37	.29	14	3.6	72

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05420680, Wapsipinicon River near Tripoli, IA (site 1, fig. 1)—Continued													
03-13-98	1223	regular	0.08	0.04	0.30	11	0.52	0.05	<0.01	0.02	2.1	0.5	12
04-02-98	1443	do.	.08	.04	.81	8.9	1.2	.21	.10	.08	5.9	1.1	38
05-06-98	1249	do.	.03	.03	.27	7.8	.25	.01	<.01	.01	2.7	.4	10
05-19-98	0920	blank	--	--	--	--	--	--	--	--	.4	.3	--
05-19-98	0940	regular	.04	.06	.47	9.2	.66	.08	.02	.03	3.1	.9	18
05-19-98	0945	replicate	.02	.06	.47	9.2	.69	.07	.06	.03	--	--	18
05-27-98	1335	regular	.08	.10	.59	14	.88	.15	.03	.01	2.7	1.8	26
06-03-98	1450	do.	.03	.08	.36	12	.75	.06	.07	.04	2.6	.9	30
06-20-98	1030	do.	<.02	.07	.56	8.1	1.6	.35	.09	.08	5.5	4.0	143
07-08-98	1315	do.	.02	.10	.69	9.7	.98	.10	.02	.02	3.4	.9	38
08-05-98	1231	do.	.05	.02	.26	1.9	.44	.08	.03	.04	2.8	1.0	13
09-02-98	1308	do.	<.02	.04	.47	5.4	1.1	.17	.08	.06	4.6	1.1	34
05420720, East Fork Wapsipinicon River near Tripoli, IA (site a, fig. 1)													
08-28-97	0915	regular	<.02	.06	.98	1.2	1.0	.19	.16	.02	3.5	1.0	22
05-19-98	1405	do.	.03	.07	.42	11	.73	.06	.07	.01	2.3	.9	12
05420900, Little Wapsipinicon River at Littleton, IA (site b, fig. 1)													
08-20-97	1235	regular	<.02	.04	.23	2.7	.37	.03	.02	.01	3.0	.3	17
05-20-98	0947	do.	<.02	.06	.36	10	.47	.03	.01	.03	2.3	1.2	19
05421700, Buffalo Creek near Stone City, IA (site c, fig. 1)													
08-14-97	1400	regular	<.02	.05	<.20	3.5	.31	.03	.04	.03	2.1	.5	10
05-21-98	1523	do.	.04	.05	.27	11	.48	.04	.04	<.01	1.6	.6	39
05421870, Mud Creek near Donahue, IA (site d, fig. 1)													
08-14-97	0940	regular	<.02	.36	.94	.72	1.2	.17	.08	<.01	4.0	.8	41
05-21-98	1023	do.	.06	.08	.59	13	.86	.14	.06	<.01	2.0	.9	63
05422000, Wapsipinicon River near DeWitt, IA (site 2, fig. 1)													
10-15-96	1120	regular	.03	.02	.20	.11	1.9	.22	<.01	<.01	3.1	>5.0	55

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia plus nitrite, dissolved (mg/L as N)										
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05422000, Wapsipinicon River near DeWitt, IA (site 2, fig. 1)—Continued													
11-13-96	0946	regular	0.07	0.04	0.30	6.3	0.80	0.12	0.02	0.02	2.4	1.9	43
12-09-96	0924	do.	.06	.03	.30	8.2	.30	.04	.04	.05	2.2	.4	16
01-13-97	1025	do	.36	.04	.90	7.4	1.0	.16	.11	.11	4.2	.6	15
02-11-97	1017	do.	.27	.05	.50	4.6	.40	.10	.12	.10	2.4	.2	7
03-20-97	0920	do.	.46	.03	1.2	2.6	2.2	.37	.07	.07	7.3	2.8	207
04-07-97	1335	do.	<.02	.02	.30	4.7	.90	.21	.05	.07	3.0	1.6	89
05-06-97	0937	do.	<.02	.04	.43	10	1.5	.31	.05	.04	3.3	<5.0	252
06-02-97	1304	do.	<.02	.03	.29	6.2	1.8	.16	<.01	<.01	2.4	4.4	36
06-02-97	1309	replicate	.02	.03	<.20	6.0	1.8	.16	<.01	<.01	2.0	3.5	--
06-17-97	0935	regular	<.02	.04	<.20	4.7	1.7	.20	<.01	<.01	4.0	>5.0	101
06-26-97	0933	do.	<.02	.08	.46	10	2.1	.58	.10	.08	4.1	>5.0	472
07-07-97	1306	do.	<.02	.04	.48	8.1	1.7	.30	.08	.06	3.0	>5.0	219
08-06-97	1540	do.	<.02	.03	.38	.61	2.1	.33	<.01	.01	3.8	>5.0	96
09-03-97	1210	do.	<.02	.02	.26	.23	2.2	.30	.02	.02	3.0	>5.0	113
10-09-97	0907	do.	.07	.02	.24	.40	2.0	.19	<.01	.01	3.1	3.1	63
11-06-97	0915	do.	<.02	.02	.30	7.3	.57	.10	.05	.08	2.8	1.0	25
12-04-97	0900	do.	<.02	<.01	.20	6.6	.48	.08	.04	.04	2.1	1.2	34
01-08-98	0823	blank	<.02	<.01	<.10	<.05	<.10	.03	<.01	.02	--	--	--
01-08-98	0843	regular	.07	.02	.48	10	.85	.22	.08	.09	2.9	1.1	70
02-20-98	0842	do.	.09	.02	.41	7.9	.97	.23	.09	.08	3.7	1.1	63
03-12-98	0850	do.	<.02	.02	.33	12	.53	.12	.06	.06	2.1	1.7	51
04-02-98	0900	do.	.09	.04	.71	7.9	1.9	.56	.23	.22	7.2	2.7	232
05-06-98	0925	do.	.03	.02	.22	8.7	1.2	.18	<.01	.01	2.6	2.7	76
06-03-98	0915	do.	.07	.09	1.2	12	2.1	.38	.09	.10	3.7	2.9	179

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Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05422000, Wapsipinicon River near DeWitt, IA (site 2, fig. 1)—Continued													
06-17-98	1300	regular	0.05	0.05	0.50	11	1.0	0.26	0.10	0.10	3.9	2.0	102
07-09-98	0855	do.	.03	.04	.81	5.0	1.3	.19	.09	.06	5.2	2.0	92
08-06-98	0900	do.	.04	.02	.24	.97	1.6	.21	<.01	<.01	2.7	>5.0	76
09-02-98	0915	do.	.02	.02	.41	4.9	1.7	.38	.09	.09	4.6	>5.0	212
05449200, East Branch Iowa River at Belmond, IA (site e, fig. 1)													
08-26-97	0925	regular	<.02	.04	.39	.82	1.4	.18	.01	<.01	4.1	2.1	126
05-20-98	0856	do.	.03	.11	.55	11	1.2	.18	.06	.04	3.2	1.6	131
05449500, Iowa River near Rowan, IA (site 3, fig. 1)													
10-08-96	1010	regular	<.02	.03	.30	2.8	.60	.08	.04	.04	4.2	1.1	42
10-08-96	1015	replicate	<.02	.03	.20	2.8	.56	.07	.04	.04	3.7	.9	38
11-05-96	0935	regular	.10	.05	.40	7.7	.50	.07	.07	.08	3.0	.3	33
12-03-96	0928	do.	.20	.03	.40	9.7	.50	.09	.07	.08	3.6	.7	139
01-09-97	0950	do.	.35	.06	.90	7.7	1.0	.19	.15	.16	4.2	.5	14
01-09-97	0955	replicate	.34	.05	.80	7.4	1.0	.20	.18	.16	--	--	--
02-04-97	1015	regular	.88	.08	1.4	4.6	1.6	.33	.28	.30	4.9	.7	13
03-11-97	0950	do.	1.20	.12	2.4	1.4	3.9	1.1	.74	.71	13	2.8	93
03-18-97	0856	do.	.70	.13	1.8	2.7	2.3	.67	.52	.51	11	2.7	67
03-25-97	0908	do.	.47	.06	1.3	3.9	1.8	.52	.36	.33	8.3	1.1	51
04-03-97	0847	do.	.16	.04	.70	5.3	1.2	.27	.15	.14	6.3	.5	71
04-09-97	0854	do.	.08	.03	.50	6.4	.80	.18	.10	.11	5.3	--	50
04-15-97	0925	do.	.04	.03	.40	7.7	.90	.17	.07	.08	4.3	1.5	48
04-22-97	0944	do.	.05	.03	.39	7.7	1.2	.20	.05	.06	4.1	1.3	126
04-29-97	0913	do.	<.02	.03	.46	6.8	.88	.11	.05	.06	4.4	.4	142
05-03-97	1046	do.	.06	.05	.45	10	.86	.32	.10	.12	500	.4	73
05-13-97	0951	do.	<.02	.02	.37	8.8	.70	.08	.03	.04	--	--	88

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia plus nitrite, dissolved (mg/L as N) (00608)											Sediment (mg/L) (80154)
			Nitrogen, ammonia, dissolved (mg/L as N) (00613)	Nitrogen, nitrite, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)			
05449500, Iowa River near Rowan, IA (site 3, fig. 1)—Continued														
05-20-97	0853	regular	<0.02	0.03	0.43	9.6	0.94	0.09	0.05	0.05	12	0.7	215	
05-28-97	0933	do.	<.02	.03	.42	9.1	.72	.09	.02	.05	5.4	.8	79	
06-04-97	0921	do.	.02	<.01	.28	7.8	.47	.06	.02	.03	4.2	1.3	186	
06-10-97	0919	do.	<.02	.05	.23	7.1	1.2	.20	.06	.06	3.6	3.2	107	
06-17-97	0858	do.	.05	.08	.30	6.4	1.1	.24	.10	.09	5.9	1.5	200	
06-23-97	1156	do.	.12	.07	.52	5.9	.75	.64	.20	.16	5.4	>5.0	420	
07-01-97	0905	do.	.04	.06	.53	11	1.2	.25	.13	.12	5.1	2.6	134	
07-15-97	0850	do.	.04	.03	<.20	8.3	1.3	.24	.11	.12	3.8	3.6	170	
07-29-97	0900	do.	<.02	.03	.43	7.0	1.1	.23	.14	.13	4.0	2.4	118	
08-11-97	1200	do.	.05	.02	.31	1.7	1.9	.24	<.01	<.01	3.7	>5.0	61	
08-26-97	0837	do.	<.02	.03	.28	1.2	1.1	.19	.08	.06	3.7	3.8	45	
09-11-97	1005	do.	<.02	.04	.35	2.2	.83	.20	.12	.11	3.0	.6	169	
09-25-97	0852	do.	<.02	.04	.37	2.0	2.0	.33	.11	.09	3.4	1.2	106	
10-08-97	0928	blank	--	--	--	--	--	--	--	--	.4	.2	--	
10-08-97	0948	regular	<.02	.02	.28	1.3	1.1	.17	.12	.12	3.7	1.7	128	
10-20-97	1134	do.	<.02	.02	.28	3.6	.53	.16	.11	.11	3.3	1.1	107	
11-05-97	0857	do.	<.02	.04	.35	2.2	.34	.05	.06	.05	2.8	.7	46	
11-17-97	1134	do.	<.02	.02	.26	3.2	.27	.08	.05	.05	3.4	.3	65	
12-02-97	0908	do.	<.02	.02	.19	2.7	.25	.06	.04	.09	2.7	.6	21	
01-06-98	0919	do.	.04	.02	.35	3.2	.44	.10	.07	.02	3.1	.4	75	
02-18-98	0924	do.	1.14	.13	2.7	4.2	3.1	1.5	1.4	1.1	18	4.3	128	
03-12-98	0926	do.	.12	.06	.47	8.6	.58	.10	.09	.10	3.7	.4	58	
03-31-98	0922	do.	.12	.04	.76	13	1.5	.35	.20	.19	5.4	1.6	100	
05-05-98	0922	do.	.03	.03	.43	11	.90	.14	.03	.04	3.6	1.1	81	

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05449500, Iowa River near Rowan, IA (site 3, fig. 1)—Continued													
05-20-98	1223	regular	0.07	0.09	0.78	10	1.7	0.22	0.07	<0.01	4.3	1.6	135
05-20-98	1228	replicate	.08	.09	.69	10	1.6	.19	.05	<.01	4.3	1.6	129
06-02-98	0904	regular	.06	.08	.54	12	1.9	.27	.07	.07	3.7	3.4	164
06-13-98	0928	do.	.05	.05	.53	14	1.2	.22	.07	.06	3.5	2.6	147
06-23-98	0848	do.	.02	.14	.87	9.7	1.9	.41	.21	.17	5.4	1.3	236
07-07-98	0900	do.	.08	.04	.67	10	2.1	.41	.16	.16	5.3	3.3	231
07-07-98	0905	replicate	.09	.05	.70	10	1.9	.40	.16	.15	5.3	2.5	305
08-04-98	0903	regular	.05	.02	.36	2.7	1.5	.28	.06	.07	3.7	4.4	182
09-01-98	0944	do.	.08	.04	.61	5.0	1.3	.23	.14	.14	5.1	2.2	93
05449600, Wheeler Creek near Rowan, IA (site f, fig. 1)													
09-10-98	1030	regular	.05	.03	.31	2.7	.37	.04	.04	.04	2.8	.4	53
05451210, South Fork Iowa River northeast of New Providence, IA (site 4, fig. 1)													
10-07-96	1215	regular	<.02	<.01	.40	.16	.50	.05	.02	.02	4.5	.8	26
11-04-96	1210	do.	.05	.06	.30	11	.40	.06	.05	.05	3.0	.4	17
12-02-96	1155	do.	.08	.02	.33	17	.44	.12	.10	.10	2.8	.7	54
01-06-97	1133	do.	1.1	.07	2.4	4.8	2.8	1.6	1.4	1.3	11	1.9	31
02-03-97	1108	do.	1.0	.09	2.2	4.5	2.2	.60	.55	.53	8.0	1.6	22
03-10-97	1155	do.	.88	.14	1.8	4.2	4.5	1.3	.52	.50	11	>5.0	857
03-10-97	1200	replicate	.85	.15	1.7	4.1	4.3	1.3	.47	.49	11	>5.0	--
04-10-97	0904	do.	<.02	.02	.30	14	.50	.08	.04	.07	2.7	.6	50
04-10-97	0909	do.	<.02	.02	.30	14	.50	.09	.07	.07	2.7	.7	61
05-15-97	1157	regular	.02	.02	.22	15	.40	.04	.02	.03	2.6	.7	68
05-22-97	0930	do.	<.02	.06	.33	13	.50	.04	<.01	<.01	2.9	.6	--
06-05-97	0818	do.	.02	.07	.26	14	.60	.04	<.01	.01	2.5	.7	17
06-21-97	1302	do.	.27	.09	.79	10	5.6	1.6	.18	.19	6.9	>5.0	1,290

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen,								Phos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)					
05451210, South Fork Iowa River northeast of New Providence, IA (site 4, fig. 1)—Continued														
07-10-97	0824	regular	<0.02	0.02	0.47	16	1.1	0.29	0.11	0.10	3.5	2.8	192	
08-04-97	1017	do.	<.02	.13	.56	6.9	.66	.04	<.01	<.01	4.0	.8	23	
08-19-97	0920	do.	.02	.02	.35	1.5	.52	.05	.04	.03	3.9	.4	30	
09-10-97	0830	do.	<.02	<.01	.35	.21	.86	.10	.02	.02	4.0	1.2	22	
10-07-97	1054	do.	<.02	.03	.36	<.05	.50	.06	.02	<.01	4.3	.4	16	
11-04-97	1120	do.	<.02	.04	.31	1.4	.38	.02	<.01	.02	4.4	.6	68	
12-01-97	1128	do.	<.02	.03	.54	3.1	.71	.10	.04	.08	4.6	.9	64	
01-05-98	1154	do.	<.02	.02	.29	4.7	.36	.04	.02	.01	3.1	.4	39	
01-05-98	1159	replicate	<.02	.03	.29	4.7	.38	.02	<.01	.01	--	--	--	
02-17-98	1058	regular	.76	.11	2.2	6.3	3.0	1.4	1.0	.93	15	>5.0	42	
03-11-98	0936	do.	.05	.04	.40	13	.49	.05	.04	.04	2.8	.4	58	
03-30-98	1113	do.	.09	.02	.52	13.	1.3	.30	.14	.14	3.4	1.4	112	
03-30-98	1118	replicate	.11	.02	.51	14	1.2	.29	.14	.14	3.4	1.6	--	
04-01-98	1033	regular	.04	<.01	.47	15	1.3	.16	.13	.11	3.5	1.8	122	
05-04-98	1120	do.	.03	.03	.31	16	.44	.02	<.01	.01	2.8	.6	24	
05-22-98	0656	do.	.05	.09	.45	14	.87	.05	.02	<.01	2.8	.9	97	
05-29-98	1246	do.	.26	.09	1.1	17	4.0	1.1	.20	.17	7.0	>5.0	931	
06-01-98	1318	do.	.10	.05	.54	22	1.6	.34	.12	.13	3.6	3.0	257	
06-12-98	1155	do.	.06	.03	.71	19	2.1	.43	.20	.18	4.6	>5.0	305	
07-06-98	1213	do.	.06	.05	.59	13	1.4	.34	.17	.16	4.4	2.7	302	
08-03-98	1046	do.	.05	.05	.41	7.6	.63	.07	.02	.03	4.0	.7	47	
08-31-98	1102	do.	.04	.03	.47	9.8	.60	.06	.04	.06	3.9	.6	19	

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05452020, Salt Creek at Belle Plaine, IA (site g, fig. 1)													
08-21-97	1245	regular	<0.02	0.03	<0.20	2.6	0.56	0.06	0.05	0.06	2.4	0.5	33
05-18-98	0925	do.	.04	.05	.35	10	.58	.11	.03	<.01	2.1	2.6	110
05453100, Iowa River at Marengo, IA (site 5, fig. 1)													
10-16-96	0939	regular	.03	.03	.30	.06	2.0	.22	<.01	<.01	2.9	>5.0	69
11-14-96	0925	do.	.06	.03	.30	1.7	1.2	.42	.12	.11	2.7	.6	424
12-10-96	0935	do.	.06	.02	.40	9.5	.40	.14	.11	.11	2.7	.6	44
01-14-97	1200	do.	.43	.04	.90	7.4	1.1	.43	.40	.37	4.2	.1	17
02-13-97	0949	do.	.41	.06	.70	5.2	.60	.24	.23	.24	3.0	.5	11
03-19-97	0955	do.	.40	.08	1.2	4.2	2.2	.63	.24	.26	7.4	4.3	403
04-10-97	1557	do.	.02	.02	.30	9.2	.90	.30	.15	.16	3.5	2.1	221
05-06-97	0914	do.	<.02	.04	.37	10	1.4	.46	.12	.12	420	3.1	479
06-05-97	1402	do.	<.02	.03	<.20	8.1	1.8	.42	.03	.05	2.4	4.3	64
06-24-97	1000	do.	.02	.13	.70	9.2	1.9	.61	.14	.14	5.5	>5.0	613
07-10-97	1343	do.	<.02	.02	.38	11	1.4	.51	.16	.16	3.1	3.9	366
08-05-97	1334	do.	<.02	.03	.29	5.5	1.2	.27	.12	.13	3.1	3.0	128
09-08-97	1043	do.	<.02	.02	.29	.48	1.5	.28	.02	.01	3.0	2.0	159
10-08-97	0937	do.	<.02	<.01	.46	<.05	1.7	.34	<.01	<.01	3.7	>5.0	110
10-08-97	0942	replicate	<.02	<.01	.47	<.05	1.8	.35	<.01	<.01	3.6	>5.0	--
11-05-97	0936	regular	<.02	.01	.19	6.4	2.0	.13	.12	.13	2.2	.3	40
12-03-97	0930	do.	<.02	.02	.16	4.8	.29	.14	.08	.14	2.4	.6	27
01-07-98	0846	do.	.14	.02	.62	6.7	1.2	.30	.13	.01	3.0	1.3	170
02-19-98	0856	blank	<.02	<.01	<.10	.07	<.10	<.01	<.01	.02	--	--	--
02-19-98	0916	regular	.29	.04	.97	5.8	2.2	.72	.24	.21	7.0	5.1	296

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia plus nitrite, dissolved (mg/L as N)										
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05453100, Iowa River at Marengo, IA (site 5, fig. 1)—Continued													
03-11-98	0855	regular	0.05	0.02	0.40	7.5	0.57	0.17	0.10	0.10	2.5	1.8	81
04-02-98	1355	do.	.08	.04	.58	7.7	1.4	.34	.17	.16	4.6	2.7	236
05-08-98	0843	do.	.03	.03	.39	8.9	1.2	.26	.07	.06	3.0	3.3	206
06-05-98	0900	do.	.03	.04	.28	13	1.2	.36	.13	.12	2.2	3.3	216
06-13-98	0946	do.	.08	.05	.59	8.4	2.9	.90	.15	.14	3.8	>5.0	807
06-26-98	0922	do.	.02	.10	.43	6.3	1.5	.16	.16	.17	4.7	.7	229
07-07-98	0920	do.	.06	.07	.60	5.5	.94	.85	.22	.18	5.2	.6	22
08-07-98	0900	do.	.06	.03	.30	4.6	1.3	.28	.13	.12	3.3	4.1	281
09-04-98	0850	do.	.03	.07	.53	3.9	1.3	.35	.16	.11	2.9	2.4	188
09-04-98	0855	replicate	.03	.08	.69	3.8	1.4	.34	.11	.06	2.9	2.8	158
05455100, Old Man's Creek near Iowa City, IA (site 6, fig. 1)													
10-07-96	0948	regular	.03	<.01	.30	<.05	.70	.08	.05	.02	4.3	.3	9
11-12-96	0956	do.	.10	.05	.40	2.1	.40	.09	.03	.02	3.7	.4	20
12-02-96	0945	do.	.11	.05	.50	3.6	.50	.09	.02	.02	3.9	.5	39
01-06-97	0938	do.	.52	.07	1.2	3.8	1.3	.07	.01	.01	4.4	.2	7
02-04-97	0919	do.	1.2	.12	3.1	2.3	3.5	1.1	.91	.85	15	1.7	41
03-10-97	1025	do.	.59	.04	2.0	4.4	6.4	2.2	.25	.23	16	>5.0	1,780
04-08-97	1337	do.	.08	.04	.40	2.3	.60	.08	.02	.03	3.8	.5	7
05-01-97	0914	do.	.54	.15	1.4	5.7	3.5	.89	.17	.17	640	.8	550
05-08-97	0903	do.	.37	.09	.96	7.9	5.3	1.9	.12	.11	90	>5.0	2,020
05-27-97	0947	do.	.62	.25	1.5	13	6.3	2.1	.09	.06	8.1	>5.0	2,040
06-03-97	1246	do.	.04	.06	.26	13	.71	.29	.05	.08	2.2	.9	92
07-08-97	1210	do.	<.02	.05	.30	11	.44	.17	.11	.08	2.2	.9	53
08-07-97	1425	do.	.03	.03	.40	.78	.53	.09	.05	.05	4.3	1.1	11

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05455100, Old Man's Creek near Iowa City, IA (site 6, fig. 1)—Continued													
08-11-97	0908	regular	0.02	0.01	0.43	0.14	0.39	0.04	0.04	0.04	4.2	1.1	32
09-02-97	1545	do.	.08	.09	.53	1.0	1.1	.23	.08	.08	4.6	2.7	63
10-07-97	1330	blank	<.02	<.01	<.20	<.05	<.20	<.01	<.01	<.01	--	--	--
10-07-97	1350	regular	<.02	<.01	.53	<.05	.60	.12	.05	.03	4.5	.4	29
11-04-97	1243	do.	.03	.06	.31	7.9	.45	.12	.08	.08	1.8	.3	20
11-04-97	1248	replicate	.03	.05	.36	8.1	.66	.11	.08	.08	2.8	.3	19
12-02-97	1223	regular	<.02	.06	.24	4.5	.36	.07	.08	.04	3.2	.5	15
01-06-98	1240	do.	.19	.05	.68	10	1.6	.45	.08	.11	3.6	3.6	219
01-06-98	1245	replicate	.18	.05	.68	9.6	1.6	.46	.11	.09	--	--	--
02-18-98	1235	regular	.06	.03	.27	10	.56	.17	.05	.06	2.3	.8	82
03-10-98	1310	do.	.11	.01	.41	9.9	.87	.28	.05	.05	2.5	1.2	154
03-31-98	1245	do.	.02	.11	1.3	6.1	6.8	3.4	.10	<.01	7.7	>5.0	2,950
05-05-98	1343	do.	.05	.04	.26	11	.46	.13	.05	.05	2.5	1.3	125
05-18-98	0805	blank	--	--	--	--	--	--	--	--	.6	<.2	--
05-18-98	0825	regular	.05	.06	.35	13	.68	.22	.09	.04	1.9	1.6	142
05-18-98	0830	replicate	.06	.06	.31	13	.75	.26	.07	.04	1.9	1.9	142
06-02-98	1325	regular	.11	.07	.25	15	1.0	.16	.11	.11	1.8	1.6	132
06-10-98	0826	do.	.10	.09	.47	12	1.6	.52	.15	.12	3.4	--	443
06-30-98	1239	do.	.05	.10	.72	7.8	3.3	1.3	.10	.03	6.1	>5.0	1,070
07-10-98	0745	do.	.02	.14	.57	10	1.0	.24	.07	.06	3.0	1.7	126
07-10-98	0750	replicate	.04	.09	.45	10	1.2	.25	.09	.07	2.5	1.5	125
08-05-98	0810	regular	.07	.06	.39	4.4	.73	.23	.09	.08	3.5	1.4	69
09-01-98	1300	do.	.08	.05	.34	4.9	.76	.22	.13	.11	3.3	1.5	81

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen,	Nitrite plus	Nitrogen,	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
					ammonia plus organic, dissolved (mg/L as N) (00623)	nitrate, dissolved (mg/L as N) (00631)	ammonia plus organic, total (mg/L as N) (00625)						
05455500, English River near Kalona, IA (site h, fig. 1)													
08-11-97	1417	regular	0.80	0.05	1.4	0.27	2.1	0.46	0.17	0.18	5.2	2.5	79
05-18-98	1430	do.	.06	.05	.34	9.2	.63	.13	.08	.08	2.3	1.8	121
05456510, Turtle Creek at Austin, MN (site j, fig. 1)													
08-27-97	0840	regular	<.02	.08	.74	3.7	1.1	.16	<.01	<.01	7.2	4.5	258
05-19-98	0901	do.	.07	.10	.67	9.4	1.1	.10	<.01	.02	5.1	2.7	109
05457950, Little Cedar River near Floyd, IA (site l, fig. 1)													
08-27-97	1400	regular	<.02	.21	.29	2.0	.33	<.01	.01	<.01	2.4	.8	6
05-18-98	1346	do.	.04	.05	.28	13	.44	.07	<.01	.04	2.0	.6	21
05458870, Maynes Creek near Kesley, IA (site m, fig. 1)													
08-25-97	1500	regular	<.02	.04	.22	3.4	.33	.04	.03	.02	2.1	1.9	56
05-21-98	1221	do.	.07	.04	.41	10	.60	.04	.05	<.01	2.6	1.2	93
09-09-98	0957	do.	.02	.02	.27	6.6	.35	.04	.04	.04	2.4	.6	30
05459300, Winnebago River near Fertile, IA (site o, fig. 1)													
08-26-97	1250	regular	<.02	.02	.44	.44	2.1	.20	<.01	<.01	5.0	2.8	69
05-19-98	1308	do.	.04	.06	.71	13	1.7	.32	.06	.07	--	--	171
05461390, Flood Creek near Powersville, IA (site 7, fig. 1)													
10-23-96	1107	regular	.06	.05	.30	4.4	.80	.18	.05	.07	3.4	.3	87
12-11-96	1150	do.	.02	.03	<.20	8.0	<.20	.05	<.01	.06	1.3	.1	5
01-14-97	0950	do.	<.02	.03	<.20	9.4	<.20	.09	.09	.09	1.2	.3	0
02-19-97	1050	do.	.25	.08	.50	6.3	.80	.18	.17	.19	2.8	.7	7
03-18-97	1018	do.	.54	.06	1.5	3.3	2.3	.59	.33	.32	7.9	2.0	193
04-09-97	1426	blank	<.02	<.01	<.20	.06	<.20	<.01	<.01	<.01	.2	.1	--
04-09-97	1446	regular	.03	.02	<.20	13	.30	.10	.06	.06	1.7	.7	20
05-03-97	1053	do.	.07	.04	.38	14	.99	.21	.09	.12	4.2	.2	108
06-04-97	1310	do.	<.02	.04	<.20	9.8	<.20	.08	.06	.08	1.4	.4	59
07-09-97	1151	do.	<.02	.02	.24	10	.46	.16	.10	.09	1.5	1.2	44

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05461390, Flood Creek near Powersville, IA (site 7, fig. 1)—Continued													
08-04-97	1613	regular	<0.02	0.02	0.21	9.6	0.40	0.08	0.09	0.09	1.8	0.6	36
08-25-97	1130	do.	<.02	.07	<.20	8.3	.26	.05	.04	.05	1.6	.4	23
09-04-97	1248	do.	<.02	.07	<.20	7.8	<.20	.12	.06	.06	1.2	.3	7
10-09-97	0823	do.	.04	.18	.53	5.5	.65	.06	.07	<.01	2.2	.3	17
11-06-97	0855	do.	<.02	.04	.12	8.0	.24	.06	.07	.06	1.1	.3	11
12-03-97	0852	do.	<.02	.03	.14	7.7	.11	.05	.06	.07	1.2	1.0	21
01-07-98	0902	do.	<.02	.06	.27	6.1	.19	.05	.05	.08	1.6	.5	2
02-19-98	0948	do.	.96	.08	2.3	6.1	2.9	1.1	.98	.93	16	3.0	86
03-13-98	0850	do.	.04	.02	.13	11	.38	.05	.09	.07	1.2	.3	86
04-02-98	0843	do.	.07	.03	.51	17	1.2	.24	.14	.14	3.0	1.9	132
05-06-98	0838	do.	.02	.03	.25	13	.19	.07	.06	.07	1.4	.6	33
05-18-98	0944	blank	--	--	--	--	--	--	--	--	.3	.2	--
05-18-98	1004	regular	.02	.04	.17	12	.23	.10	.07	.09	1.3	.7	23
06-03-98	0906	do.	.08	.05	.20	16	.62	.09	.06	.08	1.5	1.4	75
07-08-98	0848	do.	<.02	.14	.61	12	.73	.12	.04	.02	1.5	.9	60
08-05-98	0837	do.	.06	.04	.23	8.4	.37	.10	.08	.10	1.4	1.2	21
09-02-98	0842	do.	<.02	.02	.13	9.4	.23	.11	.10	.09	1.4	.5	10
09-02-98	0847	replicate	<.02	.02	.15	9.4	.23	.10	.10	.08	1.2	.4	--
05462770, Beaver Creek near Parkersburg, IA (site p, fig. 1)													
08-19-97	1235	regular	.03	.04	.23	6.0	.54	.07	.04	.05	2.1	.6	55
05-21-98	0848	do.	<.02	.13	.40	12	.57	.02	<.01	<.01	2.1	.6	109
05463510, Black Hawk Creek at Waterloo, IA (site q, fig. 1)													
08-20-97	0910	regular	<.02	.03	<.20	3.5	.28	.09	.07	.06	2.6	.5	19
05-20-98	1253	do.	.04	.06	.27	14	.53	.12	.07	.07	1.7	1.8	71

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued										
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05464020, Cedar River at Gilbertville, IA (site 8, fig. 1)													
10-15-96	1120	regular	0.03	0.04	0.30	2.3	1.3	0.22	<0.01	<0.01	2.8	3.1	22
11-12-96	1103	do.	.22	.06	.50	6.3	.60	.17	.17	.13	2.5	.7	23
12-12-96	1340	do.	.30	.03	.60	7.1	.70	.14	.11	.12	3.0	.8	41
01-15-97	0855	do.	.69	.05	1.1	6.2	1.3	.22	.21	.20	3.1	.2	5
02-10-97	1015	do.	.80	.06	1.0	5.0	1.3	.24	.19	.23	2.6	.2	13
05464220, Wolf Creek near Dysart, IA (site 9, fig. 1)													
10-10-96	1047	regular	<.02	.04	<.20	3.9	.30	.06	.01	.02	3.8	.6	17
11-07-96	1018	do.	.13	.06	.50	9.2	.80	.18	.10	.10	2.2	1.0	82
12-05-96	0959	do.	.09	.03	.20	11	.40	.07	.09	.07	1.7	.5	86
01-13-97	1205	do.	.23	.04	.50	11	.70	.13	.09	.11	2.0	.8	14
01-13-97	1210	replicate	.23	.04	.50	11	.60	.15	.10	.11	--	--	--
02-06-97	0923	regular	.40	.06	.90	6.1	1.1	.33	.28	.29	5.0	.5	13
03-12-97	1035	do.	.27	.04	.70	6.9	1.2	.33	.13	.16	5.0	3.1	127
03-17-97	0945	do.	.24	.03	.70	7.9	1.0	.26	.10	.11	3.8	2.3	109
03-24-97	1026	do.	<.02	.10	.44	8.9	.25	.09	.09	.02	2.2	.9	47
04-02-97	1026	do.	<.02	.03	<.20	9.1	.40	.08	.05	.05	2.3	.4	33
04-08-97	1030	do.	.05	.03	.20	9.6	.30	.11	.06	.07	2.3	1.2	56
04-14-97	1235	do.	<.02	.03	.20	11	.57	.09	.05	.05	2.3	1.0	51
04-21-97	1028	do.	.06	.03	<.20	11	.36	.06	.04	.05	2.1	.8	32
04-28-97	1006	blank	--	--	--	--	--	--	--	--	.8	.1	--
04-28-97	1026	regular	<.02	.04	<.20	9.5	.35	.06	.03	.04	2.0	.3	35
05-05-97	1015	do.	<.02	.03	<.20	16	1.1	.35	.10	.07	550	.3	421
05-12-97	1022	do.	.02	.02	<.20	14	.57	.14	.05	.05	--	--	136
05-19-97	1033	do.	<.02	.03	.20	12	.46	.08	.04	.04	14	.7	76

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05464220, Wolf Creek near Dysart, IA (site 9, fig. 1)—Continued													
05-27-97	0936	regular	0.04	0.04	0.35	12	0.96	0.14	0.04	0.05	3.8	0.4	91
06-03-97	1116	do.	.02	<.01	<.20	13	.65	.09	.03	.04	2.4	1.0	105
06-09-97	0946	do.	<.02	.04	<.20	14	.94	.19	.06	.06	1.7	2.5	141
06-16-97	0943	do.	.04	.06	.34	12	1.9	.48	.08	.09	4.2	>5.0	543
06-24-97	0951	do.	.34	.10	.56	16	1.4	.29	.14	.10	3.0	>5.0	510
06-30-97	1022	do.	<.02	.06	<.20	15	1.5	.33	.09	.08	2.8	3.9	342
07-14-97	0944	do.	<.02	.04	<.20	13	1.7	.33	.09	.09	1.8	3.2	151
07-28-97	0928	regular	<.02	.06	.30	9.7	.54	.13	.09	.08	2.0	1.2	47
07-28-97	0933	replicate	<.02	.07	.31	10	.53	.14	.10	.08	1.9	1.1	--
08-12-97	0916	regular	.08	.04	.24	4.2	.56	.09	.05	.06	2.8	1.5	32
08-21-97	0840	do.	<.02	.05	.20	3.8	.57	.05	.05	.04	2.4	.5	40
08-25-97	1000	do.	<.02	.07	.64	4.2	.96	.20	.18	.09	4.4	1.5	51
09-09-97	0945	do.	<.02	.07	.45	4.2	.65	.12	.10	.06	3.0	.7	80
09-24-97	0940	do.	<.02	.07	.48	5.4	1.0	.12	.09	.08	3.6	1.4	29
10-10-97	0938	do.	<.02	.07	.57	8.8	1.8	.31	.13	.10	5.0	2.0	133
10-10-97	0943	replicate	<.02	.07	.62	8.5	1.8	.32	.15	.08	5.1	1.2	136
10-21-97	0854	regular	.02	.02	<.20	11	.38	.10	.07	.07	1.5	.9	66
11-07-97	0919	do.	<.02	.03	.25	11	.40	.03	.04	.02	1.6	.4	23
11-18-97	0857	do.	<.02	.02	.21	9.9	.27	.04	.04	.05	1.7	.3	64
12-04-97	0919	do.	<.02	.02	.20	4.8	.26	.06	.04	.05	1.7	.6	26
01-08-98	0910	do.	<.02	.01	.21	11	.26	.05	.03	.04	1.6	1.5	42
01-08-98	0915	replicate	<.02	.01	.21	11	.23	.06	.04	.05	--	--	--
02-20-98	0941	regular	<.02	.01	.28	14	.83	.29	.11	.12	2.0	1.9	136

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia plus nitrite plus nitrate, dissolved (mg/L as N)										
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05464220, Wolf Creek near Dysart, IA (site 9, fig. 1)—Continued													
03-18-98	0918	regular	0.11	0.03	0.35	13	0.74	0.16	0.05	0.05	2.5	1.3	103
04-01-98	0945	do.	.12	.04	.73	12	2.0	.66	.20	.19	5.3	>5.0	1,030
05-07-98	0919	do.	.09	.03	.26	14	.20	.08	.03	.03	1.5	1.3	120
05-18-98	1327	do.	.03	.05	.18	14	.62	.10	.05	.04	1.5	2.3	88
06-04-98	0933	do.	.02	.04	.18	16	.84	.22	.07	.07	44	2.3	146
06-10-98	1215	do.	.07	.05	.43	14	2.3	.65	.15	.13	3.0	>5.0	679
06-12-98	1238	do.	.11	.04	.64	5.2	4.2	1.5	.34	.29	5.1	>5.0	947
06-22-98	1415	do.	.04	.05	.43	7.4	2.2	.74	.19	.19	3.8	>5.0	428
07-09-98	0924	do.	.02	.12	.63	14	1.6	.32	.07	.04	1.9	3.2	301
08-06-98	0855	do.	.09	.05	.63	7.6	1.7	.48	.18	.16	4.2	4.8	346
09-03-98	0936	blank	--	--	--	--	--	--	--	--	.3	<.2	--
09-03-98	0956	regular	<.02	.03	.25	8.2	.53	.10	.10	.09	1.9	.6	29
05464935, Cedar River at Nichols, IA (site 10a, fig. 1)													
10-29-96	1030	regular	.03	.04	.30	2.0	2.2	.27	<.01	<.01	3.5	>5.0	76
11-13-96	1013	do.	.16	.02	.60	1.1	.90	.18	.10	.09	3.1	1.6	21
12-05-96	1030	do.	.20	.03	.60	8.0	.90	.21	.12	.13	3.5	1.2	22
01-22-97	0950	do.	.78	.03	1.4	5.9	1.4	.24	.23	.23	3.4	.3	12
01-22-97	0955	replicate	.78	.04	1.3	6.0	1.5	.28	.24	.23	3.3	.4	--
02-03-97	0938	regular	.94	.05	1.5	4.9	1.7	.31	.28	.26	4.6	.8	14
03-13-97	0950	do.	.62	.03	1.4	3.4	3.0	.82	.21	.20	8.6	--	414
04-07-97	0921	do.	.07	.04	.99	3.8	.42	.15	.31	.21	4.2	1.4	507
05-07-97	0933	do.	<.02	.02	.33	9.8	1.3	.25	.06	.07	3.6	2.3	105
06-02-97	0838	do.	.02	.02	.29	6.8	1.9	.23	<.01	<.01	3.0	5.0	76

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05464935, Cedar River at Nichols, IA (site 10a, fig. 1)—Continued													
06-17-97	1418	regular	<0.02	0.03	0.24	4.1	1.6	0.24	<0.01	<0.01	4.5	>5.0	122
07-07-97	0902	do.	<.02	.03	.46	8.2	1.7	.37	.14	.13	3.3	4.5	134
08-06-97	1110	do.	<.02	.03	.58	5.0	2.0	.27	.05	.05	4.3	5.0	96
09-03-97	0834	do.	<.02	.02	.33	.42	2.6	.32	.01	.02	3.4	>5.0	94
10-09-97	1232	do.	.05	.01	.47	.34	2.6	.39	.02	.01	4.0	>5.0	154
11-06-97	1302	do.	<.02	.02	.31	6.6	.59	.17	.12	.16	2.4	1.0	31
12-04-97	1230	do.	<.02	.02	.24	5.1	.88	.16	.12	.13	2.4	2.2	12
01-08-98	1233	do.	.10	.02	.44	7.4	.81	.22	.12	.13	2.9	.6	46
02-20-98	1156	do.	.10	.02	.54	7.2	1.2	.41	.21	.19	3.7	2.9	86
03-12-98	1200	do.	.09	.02	.52	9.8	.76	.22	.16	.14	2.7	.9	38
04-03-98	0851	do.	.10	.04	.69	9.2	1.7	.44	.18	.17	4.6	4.3	253
05-07-98	0827	do.	<.02	.01	.39	9.2	.34	.06	.06	.07	2.8	1.1	81
06-04-98	0900	do.	.03	.03	.33	12	1.5	.34	.15	.12	2.6	4.8	154
07-06-98	0847	do.	.05	.06	.54	8.4	1.0	.33	.22	.18	4.7	2.1	1,210
08-04-98	1300	do.	<.02	.03	.44	2.7	2.5	.26	<.01	.01	3.2	>5.0	61
09-03-98	0840	do.	<.02	.02	.31	3.6	1.8	.26	.09	.07	3.7	>5.0	105
05465000, Cedar River near Conesville, IA (site 10b, fig. 1)													
10-10-96	1015	regular	<.02	.01	.30	.16	2.6	.27	<.01	<.01	2.2	>5.0	40
10-10-96	1020	replicate	<.02	.01	.31	.14	2.7	.27	.01	<.01	4.0	>5.0	42
10-29-96	0855	regular	.03	.05	.31	2.2	2.3	.26	<.01	<.01	3.8	4.8	75
05465310, Long Creek near Columbus Junction, IA (site r, fig. 1)													
08-12-97	1430	regular	.14	.02	.53	.68	1.0	.18	.05	.06	4.6	2.0	72
05-20-98	1442	do.	.04	.08	.32	13	.49	.08	.06	.06	2.4	.8	45

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia plus nitrite, dissolved (mg/L as N)										
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05465500, Iowa River at Wapello, IA (site 11, fig. 1)													
10-08-96	1155	regular	0.02	<0.01	0.20	0.06	2.6	0.32	0.04	<0.01	4.4	>5.0	55
11-06-96	1038	do.	.03	.03	.30	3.9	1.2	.23	.09	.07	3.5	2.9	58
12-03-96	1040	do.	.25	.01	.62	7.3	1.0	.20	.12	.12	3.5	2.2	46
01-07-97	1115	do.	.38	.03	.80	6.9	1.0	.21	.17	.16	3.0	.4	28
01-07-97	1120	replicate	.39	.04	.80	7.2	.90	.21	.16	.16	--	--	--
02-05-97	1030	regular	.84	.10	2.1	3.6	2.1	.44	.48	.47	5.8	1.2	28
03-11-97	1220	do.	.61	.03	1.3	3.1	2.5	.78	.25	.23	7.4	>5.0	1,010
03-11-97	1225	replicate	.63	.03	1.3	3.1	3.0	1.1	.21	.20	7.3	>5.0	951
03-20-97	0918	regular	.59	.05	1.3	3.2	2.0	.39	.18	.18	7.2	1.9	158
03-27-97	0941	do.	.33	.02	.89	3.7	1.5	.43	.23	.20	6.4	2.7	105
03-31-97	0936	do.	.21	.05	.80	4.3	1.2	.36	.24	.18	6.2	2.0	153
04-10-97	0922	do.	.02	.02	.30	3.7	.90	.29	.13	.14	4.0	3.3	84
04-16-97	0931	do.	<.02	.02	.30	6.8	1.1	.29	.10	.12	3.9	1.8	69
04-23-97	0945	do.	.06	.01	.28	6.3	1.5	.26	.06	.06	3.1	4.6	101
04-30-97	0956	do.	<.02	.02	.27	4.3	2.0	.22	<.01	<.01	3.4	>5.0	79
05-07-97	0920	do.	<.02	.02	.23	8.8	1.4	.30	.05	.08	170	1.0	253
05-14-97	0955	do.	.13	.02	.31	8.5	1.3	.26	.10	.08	3.1	1.6	128
05-21-97	1028	do.	.03	.04	.34	6.6	3.4	.83	.07	.07	22	>5.0	670
05-29-97	1029	blank	<.02	<.01	<.20	.08	<.20	<.01	<.01	<.01	--	--	--
05-29-97	1049	regular	.02	.04	.40	7.7	1.6	.31	.07	.05	30	3.0	236
06-05-97	0940	do.	<.02	.03	<.20	6.3	1.5	.20	<.01	<.01	3.1	>5.0	121
06-12-97	0906	do.	<.02	.02	.31	4.7	1.8	.24	<.01	<.01	4.5	3.8	141
06-19-97	0908	do.	<.02	.03	.31	4.6	1.4	.29	.03	.04	3.8	>5.0	213

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05465500, Iowa River at Wapello, IA (site 11, fig. 1)—Continued													
06-25-97	0955	regular	0.03	0.04	0.28	6.3	0.98	0.36	0.13	0.10	3.3	>5.0	354
07-02-97	0912	do.	.02	.07	.41	7.9	1.8	.51	.19	.17	4.6	>5.0	256
07-16-97	0941	do.	<.02	.02	<.20	6.6	1.6	.33	.06	.07	3.1	>5.0	174
07-31-97	0927	do.	<.02	.05	.39	4.8	2.1	.29	.01	.02	4.1	5.2	127
08-13-97	0918	do.	<.02	.03	.31	2.2	2.2	.29	.02	.02	3.4	>5.0	81
08-28-97	0919	do.	<.02	.02	.27	.44	1.7	.26	.01	<.01	3.4	>5.0	114
09-05-97	0906	do.	<.02	.02	.32	1.0	1.3	.40	.04	.04	3.7	>5.0	181
09-23-97	0936	do.	<.02	<.01	.26	.31	2.0	.32	<.01	.01	2.9	>5.0	127
10-06-97	1030	blank	--	--	--	--	--	--	--	--	.3	<.2	--
10-06-97	1050	regular	<.02	<.01	.47	<.05	3.0	.35	<.01	<.01	3.4	>5.0	71
10-22-97	0951	do.	<.02	<.01	.30	5.7	.49	.15	.13	.14	3.2	1.9	85
11-03-97	0953	do.	.04	.02	.47	5.4	.95	.26	.13	.15	--	1.2	94
11-19-97	0935	do.	<.02	.02	.27	4.9	.60	.19	.11	.11	2.5	1.3	13
12-01-97	0928	do.	<.02	<.01	.22	4.6	.85	.19	.08	.11	2.8	3.4	36
01-05-98	0938	do.	.15	.04	.61	7.1	1.6	.47	.10	.08	3.5	3.8	305
02-17-98	0936	do.	.18	.02	.54	6.6	1.1	.26	.17	.15	4.1	.6	87
03-09-98	1000	do.	.10	.03	.60	8.8	1.3	.40	.19	.16	4.3	4.7	392
03-30-98	0905	do.	.05	.03	.34	9.9	1.2	.35	.12	.12	3.9	2.6	200
04-04-98	1020	do.	.04	.05	.72	10	2.1	.35	.16	.13	4.4	3.5	181
05-04-98	0909	do.	.03	.02	.26	9.9	.72	.16	.07	.08	3.0	2.6	109
05-27-98	1148	do.	.06	.05	.29	8.0	.36	.07	.05	.01	3.2	>5.0	556
06-01-98	0913	do.	.08	.06	.45	11	1.9	.41	.10	.12	3.0	3.3	207
06-19-98	1002	regular	.09	.06	.52	9.7	1.8	.48	.15	.14	3.4	4.5	400

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia plus nitrite plus nitrate, dissolved (mg/L as N)										
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05465500, Iowa River at Wapello, IA (site 11, fig. 1)—Continued													
07-02-98	1049	regular	0.05	0.13	0.67	7.9	1.2	0.32	0.18	0.15	4.6	1.9	101
08-03-98	0925	do.	<.02	.05	.40	2.2	1.1	.21	.03	.05	4.1	3.8	109
08-31-98	0940	do.	.04	.07	.42	3.6	1.5	.46	.16	.14	4.6	4.8	193
05469980, South Skunk River near Story City, IA (site s, fig. 1)													
08-18-97	1430	regular	.03	.03	.44	2.7	.45	.18	.17	.16	3.7	.3	15
05-21-98	0743	do.	.08	.12	.75	14	.82	.10	.08	.02	2.9	.6	86
05471120, East Branch Indian Creek near Iowa Center, IA (site t, fig. 1)													
08-18-97	1057	regular	.04	.02	.33	.29	1.1	.12	.04	.04	5.6	.6	37
05-21-98	1137	do.	.05	.14	.49	14	.82	.08	.05	.02	2.8	1.1	86
05473060, Crooked Creek at Coppock, IA (site u, fig. 1)													
08-12-97	1002	regular	1.3	.03	2.1	.17	3.5	.78	.31	.31	7.5	4.4	137
05-19-98	0946	do.	.06	.09	.38	14	.64	.15	.11	.06	2.3	1.2	61
05473400, Cedar Creek near Oakland Mills, IA (site v, fig. 1)													
08-13-97	1355	regular	<.02	<.01	.41	<.05	1.1	.14	.02	.02	5.5	2.6	48
05-19-98	1449	do.	.05	.03	.41	8.5	.69	.22	.12	.07	3.3	1.0	41
05473550, Big Creek near Lowell, IA (site w, fig. 1)													
08-13-97	0945	regular	.08	.01	.52	.14	1.5	.53	.23	.25	5.9	2.7	330
05-20-98	0838	do.	.06	.09	.39	11	.75	.15	.13	.09	2.6	1.3	39
05474000, Skunk River at Augusta, IA (site 12, fig. 1)													
10-09-96	0940	regular	<.02	<.01	.20	<.05	1.6	.21	.03	<.01	.8	>5.0	133
11-07-96	0909	do.	.06	.04	.30	7.0	.70	.22	.14	.14	4.4	1.4	54
12-04-96	0933	do.	.03	.01	.30	12	.50	.18	.14	.15	2.9	.9	102
01-08-97	0930	do.	.08	.03	.30	10	.50	.12	.09	.11	2.3	.3	17
01-08-97	0935	replicate	.08	.02	.40	10	.40	.10	.10	.10	--	--	--
02-06-97	0857	regular	.79	.06	1.5	4.0	2.5	.62	.38	.36	10	1.4	75
03-12-97	0930	do.	.36	.03	.90	3.4	2.8	.83	.18	.18	5.2	>5.0	593
04-08-97	0840	do.	<.02	.01	.30	4.8	.80	.22	.13	.10	3.1	1.7	36

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)	Orthophos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
05474000, Skunk River at Augusta, IA (site 12, fig. 1)—Continued													
05-13-97	1110	regular	0.02	0.03	0.36	8.7	1.6	0.56	0.15	0.13	3.2	>5.0	545
05-28-97	1205	do.	.15	.09	.76	8.8	3.5	1.1	.12	.14	7.6	>5.0	1,060
06-03-97	0814	do.	<.02	.02	.29	11	.70	.26	.10	.13	2.5	2.3	204
06-26-97	1515	do.	<.02	.05	.40	13	3.2	1.1	.18	.16	4.0	>5.0	1,050
07-08-97	0804	do.	<.02	.02	.39	11	1.3	.52	.25	.22	3.3	>5.0	323
08-07-97	0930	do.	.02	.03	.36	2.6	1.8	.16	<.01	<.01	3.6	4.8	33
09-02-97	1050	do.	<.02	.02	.43	.27	1.1	.18	.09	.08	4.3	>5.0	129
10-07-97	0903	do.	<.02	<.01	.52	<.05	.81	.22	.03	.02	5.0	3.7	83
11-04-97	0822	do.	<.02	.03	.35	8.1	1.2	.33	.16	.16	3.6	1.6	175
12-02-97	0835	do.	<.02	.04	.43	5.0	.81	.21	.11	.15	4.6	1.3	49
01-06-98	0830	do.	.26	.06	.97	8.1	2.4	.72	.14	.12	5.2	>5.0	487
02-18-98	0835	do.	.12	.04	.42	8.2	.84	.26	.13	.12	4.1	1.1	119
03-10-98	0840	do.	.21	.04	.66	6.6	3.5	1.2	.15	.14	5.5	>5.0	1,030
03-31-98	0824	do.	.09	.04	.57	4.8	4.2	1.4	.13	.13	6.9	>2.5	2,780
05-05-98	0830	do.	.03	.03	.27	8.9	.93	.33	.11	.10	3.8	1.4	206
05-26-98	1200	do.	.15	.11	.84	7.9	3.2	.90	.13	.04	18	>5.0	875
06-02-98	0820	do.	.07	.08	.45	10	4.3	.97	.16	.17	3.5	>5.0	747
06-18-98	1044	do.	.05	.07	.51	8.3	1.5	.50	.14	.15	4.8	4.1	358
07-08-98	0930	do.	.03	.07	1.3	4.7	2.1	.56	.25	.13	5.2	>5.0	457
08-04-98	0810	do.	<.02	.02	.30	4.7	.95	.30	.16	.15	3.1	3.3	131
09-01-98	0815	do.	.02	.10	.50	2.2	3.1	.94	.18	.18	5.8	>5.0	673

Table 12. Nutrient, dissolved and suspended organic carbon, and sediment concentrations in samples from selected surface-water sampling sites, October 1996 through September 1998—Continued

Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen,								Phos- phorus, total (mg/L as P) (00671)	Dissolved organic carbon (mg/L) (00681)	Suspended organic carbon (mg/L) (00689)	Sediment (mg/L) (80154)
			Nitrogen, ammonia, dissolved (mg/L as N) (00608)	Nitrogen, nitrite, dissolved (mg/L as N) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L as N) (00623)	Nitrite plus nitrate, dissolved (mg/L as N) (00631)	Nitrogen, ammonia plus organic, total (mg/L as N) (00625)	Phos- phorus, total (mg/L) (00665)	Phos- phorus, dissolved (mg/L as P) (00666)					
424539093372001, Tile drain upstream from Iowa River near Rowan, IA (site x, fig. 1)														
01-09-97	1020	regular	0.09	0.02	0.30	11	0.30	0.12	0.13	0.14	--	--	--	
04-22-97	1004	do.	.08	<.01	<.20	14	.25	.12	.09	.10	--	--	--	
04-29-97	0933	do.	.93	.02	1.2	14	1.3	.27	.21	.25	--	--	--	
06-17-97	0830	do.	.11	.02	<.20	15	.32	.14	.13	.13	--	--	--	
07-15-97	0850	do.	<.02	.01	<.20	15	.20	.12	.10	.10	--	--	--	
07-29-97	0830	do.	.03	.02	.28	12	.24	.14	.13	.13	--	--	--	
08-11-97	1230	do.	.14	.01	<.20	14	<.20	.16	.13	.14	--	--	--	
08-26-97	0800	do.	<.02	.02	.22	15	<.20	.14	.13	.13	--	--	--	
05-05-98	0830	do.	.18	.02	.38	18	.42	.13	.12	.12	--	--	--	
06-02-98	0915	do.	.15	.03	.27	18	.36	.11	.11	.13	--	--	--	
06-13-98	0920	do.	.05	.02	.28	17	.44	.10	.09	.08	--	--	--	
08-04-98	0830	do.	.07	.03	.13	16	.15	.14	.20	.14	--	--	--	
09-01-98	0818	do.	.12	.02	.20	20	.21	.16	.15	.15	--	--	--	