

FIELD DATA - Measurements taken on site, 2006

PLC001 - Primary Lower Cottonwood River near New Ulm -

Non-impacted stream/Western Corn Belt Plains

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	TT 2
Base Flow	1/11/2006	658.00	13:15	0	13.75	8.8	60+	
Base Flow	2/14/2006	699.00	13:45	0.0	13.9		60+	
Snow Melt/Storm Flow	3/28/2006	968.00	14:00	4.5	13.5	8.2	14.3	
Snow Melt/Storm Flow	3/31/2006	2905.00	14:15	6.3	11.60	8.3	5.0	
Storm Flow	4/4/2006	5958.00	14:10	6.0	12.13	8.3	5.7	
Storm Flow	4/10/2006	2359.00	14:40	10.1	11.12		10.8	
Base Flow	4/26/2006	926.00	13:30	13.3	10.46	8.3	34.1	
Storm Flow	5/2/2006	4984.00	13:50	11.2	9.67	8.4	7.4	
Base Flow	5/16/2006	1413.00	13:40	13.8	10.36	8.2	25.6	
Base Flow	5/30/2006	758.00	14:30	23.6	11.73	8.3	48.2	
Storm Flow	6/7/2006	1347.00	14:15	24.0	8.01	8.0	9.6	
Storm Flow	6/12/2006	1925.00	14:15	16.3	9.33	8.3	8.4	
Base Flow	6/27/2006	1170.00	14:00	22	8.23	8.43	17.8	
Base Flow	7/10/2006	351.00	14:45	24.9	13.52	8.34	31.7	
Base Flow	7/27/2006	156.00	12:40	27.2	9.25	8.39	47.9	
Storm Flow	8/2/2006	271.00	13:45	26.4	9.54	8.56	6.7	
Base Flow	8/29/2006	76.00	15:00	25.6	9.65	8.56	28.6	
Base Flow	9/12/2006	53.00	14:45	19.8	9.91	8.54	33.1	
Base Flow	9/26/2006	82.00	13:45	16.4	10.90	8.51	36.2	
Base Flow	10/20/2006	56.00	12:15	8.6	12.43	8.59	60+	
Base Flow	11/28/2006	71.00	11:15	6.3	12.48	8.44	60+	
Base Flow	12/19/2006	62.00	12:30	0.2	13.92	8.28	60+	

FIELD DATA - Measurements taken on site, 2006

PLC010 - Primary Lower Cottonwood River near Leavenworth -

Non-impacted stream/Western Corn Belt Plains

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	TT 2
Snow Melt/Storm Flow	3/28/2006	563.58	11:30	3.8	12.88	7.7	30.3	
Snow Melt/Storm Flow	3/31/2006	2054.93	13:00	5.8	11.13	8.3	5.1	
Storm Flow	4/4/2006	4116.16	13:20	6.0	11.87	8.1	7.8	
Storm Flow	4/10/2006	1874.57	13:40	9.4	10.86	8.4	18.7	
Base Flow	4/26/2006	630.23	12:20	11.9	10.89	8.4	31.8	
Storm Flow	5/2/2006	3378.12	12:45	11.3	9.35	8.6	10.6	
Base Flow	5/16/2006	1174.59	12:30	12.7	10.18	8.2	20.1	
Base Flow	5/30/2006	505.47	13:20	22.9	9.50	8.2	38.1	
Base Flow	6/6/2006	412.25	14:10	23.0	9.50	8.3	38.9	
Storm Flow	6/7/2006	1025.86	13:20	21.3	7.32	7.9	3.6	
Base Flow	6/27/2006	819.01	12:50	20.8	7.96	8.31	23.2	
Base Flow	7/10/2006	220.60	13:30	23.2	10.61	8.44	41.6	
Base Flow	7/27/2006	80.92	11:30	25.1	8.45	8.29	34.6	
Storm Flow	8/2/2006	126.14	12:30	24.6	9.11	8.37	27.2	
Base Flow	8/29/2006	40.37	14:00	23.2	17.47	8.37	17.3	
Base Flow	9/12/2006	27.08	13:40	17.7	12.91	8.63	26.2	
Base Flow	9/26/2006	51.90	12:45	14.7	11.60	8.51	33.9	

FIELD DATA - Measurements taken on site, 2006

PLC005 - Primary Lower Sleepy Eye Creek near Cobden -

Non-impacted stream/Western Corn Belt Plains

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	TT 2
Snow Melt/Storm Flow	3/28/2006	291.52	13:00	3.3	13.58	8.3	11.2	
Snow Melt/Storm Flow	3/31/2006	1001.18	13:35	5.8	10.90	8.2	5.9	
Storm Flow	4/4/2006	859.69	13:35	5.9	11.86	8.2	32.8	
Storm Flow	4/10/2006	281.60	14:00	9.6	11.80	8.6	47.8	
Base Flow	4/26/2006	138.82	12:45	11.3	13.01	8.6	60+	
Storm Flow	5/2/2006	894.07	13:10	9.7	9.88	8.4	44.6	
Base Flow	5/16/2006	327.59	12:50	12.7	11.35	8.1	60+	
Base Flow	5/30/2006	154.90	13:45	20.6	11.09	8.2	60+	
Storm Flow	6/6/2006	199.90	13:15	21.0	9.03	8.2	44.4	
Storm Flow	6/12/2006	615.74	13:30	15.2	8.39	8.3	10.2	
Base Flow	6/27/2006	223.41	13:15	19.5	8.19	8.23	41.8	
Base Flow	7/10/2006	64.14	13:55	22.3	9.15	8.35	60+	
Base Flow	7/27/2006	19.61	11:50	25.8	12.48	8.54	38.3	
Storm Flow	8/2/2006	48.56	12:50	23.6	14.60	8.90	17.1	
Base Flow	8/29/2006	7.27	14:30	22.6	13.47	8.60	19.0	
Base Flow	9/12/2006	5.37	14:00	17.1	11.75	8.59	28.8	
Base Flow	9/26/2006	10.89	13:00	14.8	9.36	8.36	60+	

FIELD DATA - Measurements taken on site, 2006**PMC020 - Primary Middle Cottonwood River near Lamberton -****Non-impacted stream/Western Corn Belt Plains**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	TT 2
Snow Melt/Storm Flow	3/28/2006	409.19	10:50	3.3	13.43	8.2	18.8	
Snow Melt/Storm Flow	3/31/2006	1591.70	12:30	6.2	10.50	8.3	4.1	
Storm Flow	4/4/2006	2552.85	12:40	6.1	11.03	8.2	17.6	
Storm Flow	4/10/2006	980.92	13:00	9.3	10.19	8.2	20.4	
Base Flow	4/26/2006	385.92	11:30	10.4	10.96	8.2	41.3	
Storm Flow	5/2/2006	1921.15	12:00	10.9	8.95	8.6	23.7	
Base Flow	5/16/2006	587.78	11:40	12.0	9.99	8.2	28.2	
Base Flow	5/30/2006	297.14	12:30	22.1	8.58	8.1	46.8	
Storm Flow	6/6/2006	971.65	10:45	18.5	7.23	8.3	2.1	
Storm Flow	6/7/2006	706.93	12:40	19.6	7.45	7.9	9.4	
Base Flow	6/27/2006	244.58	12:00	19.4	8.14	8.25	28.8	
Base Flow	7/10/2006	66.02	12:45	22.2	8.64	8.34	40.6	
Base Flow	7/27/2006	32.05	10:30	24.7	7.63	8.21	38.7	
Storm Flow	8/2/2006	55.34	11:40	24.1	7.89	8.21	21.0	
Base Flow	8/29/06	14.08	13:00	21.9	10.89	8.36	23.2	
Base Flow	9/12/06	7.18	12:50	16.2	12.11	8.51	28.4	
Base Flow	9/26/06	24.54	12:00	14.1	9.54	8.28	32.8	

FIELD DATA - Measurements taken on site, 2006**TUP - Tertiary Plum Creek near Walnut Grove -****Non-impacted stream/Western Corn Belt Plains**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1	TT 2
Snow Melt/Storm Flow	3/31/2006	484.72	11:50	5.4	11.26	8.3	3.8	
Storm Flow	4/4/2006	399.55	12:10	5.1	12.38	8.0	8.0	
Storm Flow	4/11/2006	160.74	12:30	11.1	10.61	8.6	16.6	
Base Flow	4/25/2006	75.63	12:50	9.7	11.50	8.2	44.8	
Storm Flow	5/2/2006	374.14	11:30	9.7	9.93	8.6	11.8	
Base Flow	5/15/2006	112.50	12:40	11.2	10.36	8.2	41.7	
Base Flow	5/30/2006	49.69	11:55	19.8	8.78	8.2	52.2	
Storm Flow	6/6/2006	132.81	9:55	17.4	7.51	8.6	7.8	
Base Flow	6/27/2006	62.51	11:30	18.3	8.45	8.29	36.2	
Base Flow	7/10/2006	16.80	12:15	19.9	9.45	8.33	60+	
Base Flow	7/27/2006	6.33	10:00	21.6	7.37	8.13	60+	
Storm Flow	8/2/2006	12.42	11:00	21.0	7.77	8.11	25.2	
Base Flow	8/29/2006	1.87	12:30	17.4	8.08	7.98	60+	
Base Flow	9/12/2006	1.87	12:20	13.5	9.09	8.01	60+	
Base Flow	9/26/2006	5.75	11:30	11.4	9.25	8.14	60+	