

FIELD DATA - Measurements taken on site, 2009**PLC001 - Primary Lower Cottonwood River near New Ulm - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-918**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Base Flow	1/21/2009		11:35	0.5	12.44	7.82	60+
Base Flow	2/24/2009		12:00	0.2	14.05	7.87	60+
Base Flow	3/16/2009		11:00	0.1	14.06	7.87	21.7
Snowmelt/Tile	3/24/2009		13:15	4.6	14.06	8.23	7.4
Base Flow	4/9/2009		13:55	10.3	13.58	8.51	33.8
Base Flow	4/21/2009		14:15	13.3	14.62	8.56	29.4
Base Flow	5/1/2009		13:50	16.0	13.60	8.46	45.0
Base Flow	5/14/2009		13:05	16.0	11.85	8.69	31.6
Base Flow	5/26/2009		13:45	20.0	9.53	8.69	46.8
Base Flow	6/2/2009		12:30	22.9	10.37	8.84	46.9
Storm Flow	6/8/2009		11:45	14.1	12.06		23.6
Storm Flow	6/11/2009		14:05	18.9	11.01	9.19	21.8
Storm Flow	6/15/2009		14:40	21.4	11.31	9.12	36.4
Storm Flow	6/18/2009		14:45	26.0	10.86	9.13	34.9
Storm Flow	6/26/2009		11:55	28.5	10.89	8.40	24.3
Base Flow	6/30/2009		9:15	20.9	9.85	8.51	22.2
Base Flow	7/9/2009		14:40	25.2	11.44	8.79	19.4
Base Flow	7/15/2009		12:20	25.4	10.63	8.68	19.0
Base Flow	7/21/2009		14:25	26.9	9.10	8.52	20.8
Base Flow	7/30/2009		11:50	23.7	9.01	8.42	26.2
Base Flow	8/4/2009		14:40	28.4	8.41	8.56	27.4
Base Flow	8/10/2009		13:50	29.3	4.29	8.46	30.7
Base Flow	8/21/2009		12:15	20.3	4.32	8.90	22.1
Base Flow	8/26/2009		15:05	24.7	3.88	8.86	27.6
Base Flow	9/3/2009		11:35	20.9	4.00	8.47	40.4
Base Flow	9/16/2009		14:20	22.4	3.66	8.48	46.0
Base Flow	9/24/2009		11:10	18.8	4.10	8.47	57.8
Storm Flow	10/2/2009		14:30	12.3	4.56	8.49	29.8
Storm Flow	10/5/2009		10:45	9.8	5.05	8.54	60.0
Storm Flow	10/7/2009		14:05	12.0	5.05	8.59	21.2
Storm Flow	10/8/2009		12:50	11.1	5.54	8.63	29.2
Storm Flow	10/12/2009		12:15	5.4	5.20	8.79	60+
Storm Flow	10/22/2009		9:35	7.2	4.60	8.58	60+
Base Flow	11/10/2009		15:15	7.4	4.60	8.61	56.7
Base Flow	11/23/2009		14:10	6.6	15.74	8.59	60+
Base Flow	12/4/2009		11:20	0	19.42	8.69	60+

This affects all DO readings between these dates for all sites

DO readings NOT accurate, device out of calibration - after 8/4/09 till 11/23/09

FIELD DATA - Measurements taken on site, 2009**PLS005 - Primary Lower Sleepy Eye Creek near Cobden - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-919**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt/Tile	3/24/2009		12:30	3.2	12.84	8.07	5.6
Base Flow	4/9/2009		13:05	8.7	14.59	8.48	60+
Base Flow	4/21/2009		13:20	9.3	16.71	8.61	60+
Base Flow	5/14/2009		11:45	12.0	13.94	8.83	60+
Base Flow	5/26/2009		12:45	17.9	8.91	8.64	43.2
Base Flow	6/4/2009		13:35	19.9	10.80	9.13	46.8
Storm Flow	6/11/2009		12:35	16.2	9.67	8.96	40.2
Storm Flow	6/15/2009		13:15	19.2	8.80	9.01	55.2
Storm Flow	6/18/2009		13:45	22.7	8.69	8.96	44.2
Base Flow	6/25/2009		12:35	25.9	8.37	8.33	53.2
Base Flow	6/30/2009		10:10	19.8	7.95	8.44	58.6
Base Flow	7/9/2009		13:40	23.1	9.17	8.43	58.2
Base Flow	7/21/2009		13:10	24.3	10.73	8.60	60.0
Base Flow	8/4/2009		13:40	24.5	11.79	8.95	23.4
Base Flow	8/21/2009		11:10	18.6	3.99	8.68	29.4
Base Flow	8/26/2009		13:10	22.4	4.11	8.83	36.6
Base Flow	9/16/2009		13:15	21.7	3.91	8.47	44.6
Storm Flow	10/2/2009		12:25	12.0	4.23	8.36	60.0
Storm Flow	10/7/2009		12:45	9.6	5.33	8.37	52.9
Storm Flow	10/12/2009		11:20	5.2	5.09	8.69	60+

FIELD DATA - Measurements taken on site, 2009**PLC010 - Primary Lower Cottonwood River near Leavenworth - Non-impacted stream/Western Corn Belt Plain****STORET CODE - S001-920**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt/Tile	3/24/2009		12:15	5.5	13.30	8.21	12.1
Base Flow	4/9/2009		12:45	8.4	13.34	8.43	33.1
Base Flow	4/21/2009		13:00	11.1	16.96	8.57	33.2
Base Flow	5/14/2009		11:20	14.1	12.54	8.71	60.0
Base Flow	5/26/2009		12:30	18.3	10.66	8.74	60.0
Base Flow	6/4/2009		13:20	21.0	12.09	9.14	51.2
Storm Flow	6/11/2009		12:20	16.8	9.92	9.04	37.7
Storm Flow	6/15/2009		12:55	20.3	9.27	9.06	51.6
Storm Flow	6/18/2009		13:20	23.7	8.82	9.02	29.8
Storm Flow	6/25/2009		12:15	26.6	12.31	8.63	21.2
Base Flow	7/9/2009		13:20	23.3	11.91	8.59	25.4
Base Flow	7/21/2009		12:50	25.6	11.61	8.67	19.8
Base Flow	8/4/2009		13:20	26.8	11.02	8.67	15.5
Base Flow	8/21/2009		10:55	19.3	4.03	8.49	42.3
Base Flow	8/26/2009		12:55	23.6	4.01	8.66	44.0
Base Flow	9/16/2009		12:55	23.2	4.10	8.40	45.2
Storm Flow	10/2/2009		12:10	11.9	4.31	8.37	46.6
Storm Flow	10/7/2009		12:30	10.2	5.38	8.42	29.4
Storm Flow	10/12/2009		11:00	4.7	5.26	8.63	60+

FIELD DATA - Measurements taken on site, 2009**PMC020 - Primary Middle Cottonwood River near Lambertton - Non-impacted stream/Western Corn Belt Plain****STORET CODE - S002-247**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt/Tile	3/24/2009		11:20	5.1	13.61	8.13	11.4
Base Flow	4/9/2009		12:00	7.3	15.60	8.39	40.4
Base Flow	4/21/2009		12:15	9.4	14.61	8.51	42.6
Base Flow	5/14/2009		10:40	13.5	12.18	8.64	60.0
Base Flow	5/26/2009		11:45	18.8	8.59	8.50	60.0
Base Flow	6/4/2009		12:40	19.9	11.27	8.93	51.0
Storm Flow	6/18/2009		12:40	23.3	7.51	8.76	30.3
Storm Flow	6/25/2009		11:40	26.2	9.32	8.37	15.8
Base Flow	7/9/2009		12:40	24.6	9.15	8.41	19.1
Base Flow	7/21/2009		12:15	23.5	10.56	8.52	28.0
Base Flow	8/4/2009		12:40	24.6	8.94	8.39	41.4
Base Flow	8/26/2009		12:15	22.5	4.06	8.39	60.0
Base Flow	9/16/2009		12:15	21.6	4.63	8.09	50.3
Storm Flow	10/2/2009		11:35	11.6	5.04	8.26	54.6
Storm Flow	10/7/2009		11:50	9.9	7.60	8.32	46.8
Storm Flow	10/12/2009		10:20	4.4	5.60	8.58	60+

FIELD DATA - Measurements taken on site, 2009**TUP - Tertiary Plum Creek near Walnut Grove - Non-impacted stream/Western Corn Belt Plains****STORET CODE - S001-913**

Flow Type	Date	FLOW	Time	Temp ©	DO	pH	TT 1
Snowmelt/Tile	3/24/2009		10:45	1.0	15.20	8.18	6.2
Site Est.	4/2/2009		10:10	3.0	16.00		
Base Flow	4/9/2009		11:05	6.1	14.46	8.37	60+
Base Flow	4/21/2009		11:20	8.0	15.53	8.40	60+
Base Flow	5/14/2009		9:50	11.3	12.53	8.54	60+
Base Flow	5/26/2009		11:00	16.6	8.40	8.49	60+
Base Flow	6/4/2009		11:45	17.1	10.59	8.79	60.0
Storm Flow	6/18/2009		11:45	22.1	7.69	8.77	27.5
Storm Flow	6/25/2009		11:10	24.5	7.15	8.25	26.8
Base Flow	7/9/2009		11:45	22.7	9.21	8.32	40.6
Base Flow	7/21/2009		11:25	20.7	9.66	8.26	57.8
Base Flow	8/4/2009		11:45	22.5	6.64	7.97	60.0
Base Flow	8/26/2009		11:25	20.5	3.55	8.03	34.9
Zero Flow	9/16/2009		11:35	No Flow, no sample			
Storm Flow	10/2/2009		11:10	11.0	3.97	8.13	46.2
Storm Flow	10/7/2009		11:20	8.3	5.08	8.40	60.0
Storm Flow	10/12/2009		9:50	3.5	5.13	8.49	60+