

Field Data - Measurements taken on-site, 2010

MMCC1 - Middle Minnesota Watershed - Crow Creek at Noble Ave. -

Storet Code - S005-628

Flow Type	Date	Flow Time	Temp ©	DO	pH	TT1
snowmelt	3/16/2010	18:50	1.4	13.41	7.87	14.1
snowmelt	3/17/2010	10:30	1.0	12.41	7.97	15.6
snowmelt	3/25/2010	11:50	4.4	11.12	8.17	28.0
Base Flow	4/13/2010	11:30	10.2	13.37	8.31	60+
Base Flow	4/27/2010	9:20	8.3	10.65	8.30	60+
Base Flow	5/5/2010	9:15	8.4	10.88	8.36	60+
Base Flow	5/19/2010	9:20	9.8	10.69	8.23	60+
Base Flow	6/2/2010	9:30	13.7	9.21	8.26	60+
Storm Flow	6/11/2010	10:10	E9	E4	7.72	5.4
Storm Flow	6/11/2010	15:55				9.1
Storm Flow	6/14/2010	10:45	13.4?	E5	7.85	52.6
Storm Flow	6/18/2010	9:55	E9	E4	8.04	60+
Storm Flow	6/28/2010	18:45	E9	E4	7.76	19.2
Storm Flow	6/29/2010	10:30	16.3	7.76	7.13	22.0
Base Flow	7/8/2010	8:55	15.9?	E5	8.16	60+
Base Flow	7/14/2010	10:35				60+
Base Flow	7/30/2010	9:40	E9	E4	8.19	60+
Base Flow	8/5/2010	9:40	E9	E4	8.20	60+
Base Flow	8/17/2010	9:20	E9	E4	8.22	60+
Base Flow	8/24/2010	9:30				49.7
Base Flow	8/31/2010	11:25				58.8
Base Flow	9/2/2010	11:10	18.7	7.42	7.92	22.5
Base Flow	9/7/2010	12:45				60+
Storm Flow	9/16/2010	9:35	14.4	8.18	7.97	13.6
Storm Flow	9/23/2010	11:25	16.2	7.19	7.78	6.1
Storm Flow	9/23/2010	17:40	17.5	6.93		6.2
Storm Flow	9/24/2010	7:40	14.7	7.10	7.68	6.5

Issues with the DO meter resulted in missed (E9, E5 & E4) or questionable data (?)

Field Data - Measurements taken on-site, 2010

MMWC - Middle Minnesota Watershed - Wabasha Creek at Co. Hwy 11 in MN River Valley

Storet Code - S005-627

Flow Type	Date	Flow Time	Temp ©	DO	pH	TT1
snowmelt	3/16/2010	18:20	1.1	13.92	8.04	10.2
snowmelt	3/17/2010	11:10	0.6	12.42	8.11	11.2
MN R Affected	4/13/2010	12:15	12.4	12.63	8.78	41.8
MN R Affected	4/27/2010	9:55	9.6	9.65	8.35	60+
Base Flow	5/5/2010	10:00	10.0	9.49	8.39	60+
Base Flow	5/19/2010	10:05	12.9	9.09	8.31	52.7
Base Flow	6/2/2010	10:10	16.1	8.81	8.37	60+
Storm Flow	6/11/2010	10:50	E9	E4	8.18	3.9
Storm Flow	6/11/2010	15:30				8.3
Storm Flow	6/14/2010	11:25	14.0	9.32	8.27	28.7
Storm Flow	6/18/2010	10:30	17	E4	8.36	43.1
Storm Flow	6/28/2010	18:20	E9	E4	8.10	14.6
Storm Flow	6/29/2010	11:45	19.9	6.95	7.52	17.0
Base Flow	7/8/2010	9:30	18.6	7.34	8.35	46.0
Base Flow	7/14/2010	10:00				60+
Base Flow	7/30/2010	10:10	E9	E4	8.38	60+
Base Flow	8/5/2010	10:15	E9	E4	8.35	60+
Base Flow	8/17/2010	10:05	E9	E4	8.35	60+
Base Flow	8/24/2010	10:05				60+
Base Flow	8/31/2010	10:40				60+
Base Flow	9/2/2010	12:00	18.9	8.13	8.29	13.8
Base Flow	9/7/2010	13:25				60+
Storm Flow	9/16/2010	10:20	14.4	9.31	8.43	16.1
Storm Flow	9/23/2010	10:35	16.2	8.32	8.10	3.1
Storm Flow	9/23/2010	17:15				2.3
Storm Flow	9/24/2010	8:25	15.2	9.19	7.99	4.4

Issues with the DO meter resulted in missed (E9 & E4) data.

Field Data - Measurements taken on-site, 2010

MMNE - Middle Minnesota Watershed - North Eden Creek at Co. Hwy 10 in MN River Valley

Storet Code - S005-626

Flow Type	Date	Flow Time	Temp ©	DO	pH	TT1
snowmelt	3/16/2010	17:55	1.0		8.11	5.4
snowmelt	3/17/2010	11:40	0.9	14.34	8.13	7.9
snowmelt	3/19/2010	12:20	3.5	13.28	8.28	9.4
base flow	4/13/2010	12:45	12.5	11.23	8.60	60+
base flow	4/27/2010	10:30	9.6	11.17	8.46	60+
base flow	5/5/2010	10:30	9.9	10.72	8.48	60+
base flow	5/19/2010	10:30	11.8	10.22	8.41	60+
base flow	6/2/2010	10:40	15.1	E5	8.46	60+
Storm Flow	6/11/2010	11:10	E9	E4	8.35	52.1
Storm Flow	6/11/2010	15:05				58.2
Storm Flow	6/14/2010	11:55	13.4	9.99	8.38	51.0
Storm Flow	6/18/2010	10:50	E9	E4	8.44	60+
Storm Flow	6/28/2010	17:40	E9	E4	8.20	11.0
Storm Flow	6/29/2010	12:15	17.3	9.18	7.74	16.0
base flow	7/8/2010	9:55	E9	E4	8.42	60+
base flow	7/14/2010	9:40				60+
base flow	7/30/2010	10:40	E9	E4	8.39	60+
base flow	8/5/2010	10:40	E9	E4	8.33	60+
base flow	8/17/2010	14:55	E9	E4	8.36	60+
base flow	8/24/2010	10:25				60+
base flow	8/31/2010	10:15				60+
base flow	9/2/2010	12:30	17.9	8.95	8.35	60
base flow	9/7/2010	13:45				60+
Storm Flow	9/16/2010	10:50	13.4	9.86	8.44	60+
Storm Flow	9/23/2010	10:05	15.7	9.19	8.25	2.7
Storm Flow	9/23/2010	17:00				2.1
Storm Flow	9/24/2010	8:50	15.3	9.60	8.12	4.9

Issues with the DO meter resulted in missed (E9, E5 & E4) data.

Field Data - Measurements taken on-site, 2010

MMSC - Middle Minnesota Watershed - Spring Creek @ Co. Hwy 10 in MN River Valley

Storet Code - S005-625

Flow Type	Date	Flow	Time	Temp ©	DO	pH	TT1
Snowmelt	3/16/2010		17:30	1.4	15.56	8.03	6.4
Snowmelt	3/17/2010		12:00	1.3	14.11	8.08	7.4
Snowmelt	3/19/2010		12:50	0.7	13.96	8.22	5.1
Base Flow	4/13/2010		13:10	12.9	12.72	8.47	60+
Base Flow	4/27/2010		11:00	10.7	12.31	8.38	60+
Base Flow	5/5/2010		11:00	10.7	10.39	8.39	60+
Base Flow	5/19/2010		11:00	13.8	9.45	8.28	60
Base Flow	6/2/2010		11:10	16.2?	10.43?	8.33	60+
Storm Flow	6/11/2010		11:45	17.1	8.88?	8.31	35.5
Storm Flow	6/11/2010		14:45				52.4
Storm Flow	6/14/2010		12:30	E9	E4	8.32	37.3
Storm Flow	6/18/2010		11:20	18.2	E4	8.32	50.6
Storm Flow	6/28/2010		17:15	E9	E4	8.11	9.5
Storm Flow	6/29/2010		13:45	19.7	8.7	7.73	14
Base Flow	7/8/2010		10:20	E9	E4	8.32	60
Base Flow	7/14/2010		15:35				60+
Base Flow	7/30/2010		11:00	E9	E4	8.40	60+
Base Flow	8/5/2010		11:00	E9	E4	8.28	60+
Base Flow	8/17/2010		15:20			8.34	60+
Base Flow	8/24/2010		10:45				60+
Base Flow	8/31/2010		9:55				60+
Base Flow	9/2/2010		12:55	18.2	9.03	8.38	32.7
Base Flow	9/7/2010		14:00				60+
Storm Flow	9/16/2010		11:15	13.6	9.76	8.47	60+
Storm Flow	9/23/2010		9:30	16.0	8.59	8.19	3.3
Storm Flow	9/23/2010		16:35	17.3	8.21		2.8
Storm Flow	9/24/2010		9:20	15.6	9.09	8.00	4.3

Issues with the DO meter resulted in missed (E9 & E4) or questionable data (?)

Field Data - Measurements taken on-site, 2010

**County Ditch 13 - Middle Minnesota Watershed - @ Co Hwy 10 -
Storet Code - S005-624**

Flow Type	Date	Flow Time	Temp ©	DO	pH	TT1
Snowmelt	3/16/2010	17:15	0.6	13.83	7.89	6.6
Snowmelt	3/17/2010	12:15	0.8	12.73	7.98	11.2
Base Flow	4/13/2010	13:35	12.1	14.23	8.46	60+
Base Flow	4/27/2010	11:20	10.1	11.42	8.21	60+
Base Flow	5/5/2010	11:30	9.0	10.77	8.30	60+
Base Flow	5/19/2010	11:20	12.8	10.21	8.11	60+
Base Flow	6/2/2010	11:40	E9	N/A	8.14	60+
Storm Flow	6/11/2010	12:10	E9	E5	8.00	60
Base Flow	7/8/2010	10:40	E9	E5	8.06	60+
Base Flow	7/14/2010	15:50	N/A	N/A	N/A	60+
Base Flow	7/30/2010	11:20	E9	E5	8.17	60+
Base Flow	8/5/2010	11:15	E9	E5	8.19	60+
Base Flow	8/17/2010	15:35	E9	E5	8.24	60+
Base Flow	8/24/2010	11:00				60+
Base Flow	8/31/2010	9:45				53.0
Base Flow	9/2/2010	13:20	17.8	8.29	8.13	58.2
Base Flow	9/7/2010	14:15				60+
Storm Flow	9/16/2010	11:35	14.2	8.85	8.29	60+
Storm Flow	9/23/2010	16:20				

Issues with the DO meter resulted in missed (E9 & E5) data.

Field Data - Measurements taken on-site, 2010

County Ditch 10 - Middle Minnesota Watershed - @ Co. Hwy 29 -

Storet Code - S005-623

Flow Type	Date	Flow Time	Temp ©	DO	pH	TT1
Snowmelt	3/16/2010	16:50	1.3	14.16	7.97	13.4
Snowmelt	3/17/2010	12:50	1.6	12.79	7.92	17.8
Base Flow	4/13/2010	13:55	11.0	12.92	8.48	60+
Base Flow	4/27/2010	11:40	10.6	11.01	8.42	60+
Base Flow	5/5/2010	11:45	9.9	9.26	8.28	60+
Base Flow	5/19/2010	11:40	11.8	9.41	8.14	60+
Base Flow	6/2/2010	11:55	E9	N/A	8.24	60+
Storm Flow	6/11/2010	12:30	E9	E4	7.99	38.1
Base Flow	7/8/2010	10:55	E9	E4	8.14	60+
Base Flow	7/14/2010	16:00	N/A	N/A		60+
Base Flow	7/30/2010	11:35	E9	E4	8.30	60+
Base Flow	8/5/2010	11:35	E9	E4	8.31	60+
Base Flow	8/17/2010	15:55			8.32	60+
Base Flow	8/24/2010	11:15				60+
Base Flow	8/31/2010	9:30				57.1
Base Flow	9/2/2010	13:45	17.2	8.67	8.15	9.3
Base Flow	9/7/2010	14:25				60+
Storm Flow	9/16/2010	11:55	13.5	9.04	8.32	25.2
Storm Flow	9/23/2010	16:10				
Storm Flow	9/24/2010	9:45				7.3

Issues with the DO meter resulted in missed (E9 & E4) data.