

**Annual Integrated Management Plan
Report:
Upper Niobrara-White Natural Resources
District
&
Department of Natural Resources
2009**

Integrated Management Plan Annual Meeting June 2010

Annual report by Upper Niobrara White Natural Resources District (UNWNRD) on the activities related to the joint Integrated Management Plan (IMP) with the Nebraska Department of Natural Resources (DNR).

Purpose: The purpose of the report is to fulfill the UNWNRD's responsibilities under the IMP annual reporting obligations and provide updates to current monitoring projects or studies as outlined in the IMP.

Reporting and exchanging information gathered from monitoring projects, streamflow data, or other studies provides a basis to increase understanding of the surface water and hydrologically connected ground water system. As surface and ground water are hydrologically connected throughout much of the district, estimates of water quantity of either surface or ground water cannot be evaluated separately. The data gathered through this IMP's monitoring plan is designed to evaluate and measure the success of the objectives of this IMP. This information exchange also helps to test the validity of the conclusions and information upon which the IMP is based.

UNWNRD Reporting: Permitting

The IMP requires that the UNWNRD annually report to the following permitting actions within the district:

- 1) Ground water permitting
- 2) Ground water variances
- 3) New ground water uses

1) Ground Water Permitting

The following ground water permits were granted in 2009:

- 1) Replacement well permits
 - a. 12 Replacement Irrigation
 - b. 1 Replacement Public Water Supply
- 2) New well permits
 - a. 3 New Public Water Supply
 - b. 1 New Public Water/Irrigation (State Veteran Cemetery) Variance and Transfer approved in 2007.

3) Ground Water Variances

The following ground water variances were granted in 2009:

- 1) Glenn / Johnson Transfer: Dave Glenn is proposing to sell a small parcel of land in Section 11-29-46 with an irrigation well (G-051582) to Marvin Johnson. This well (G-051582) along with irrigation well (G-022191) currently irrigates 88.6 acres in Section 14-29-46 and there are 4.4 irrigated acres in Section 11-29-49. Dave would discontinue using well G-051582 and Marvin would install new line and pipe from well G-051582 to a 90 acre center pivot in Section 10-29-46. The center pivot is currently irrigated with ground water from irrigation well G-044276 in Section 15-29-46 and an allotment from the Mirage Flats Irrigation District. There will be no new total irrigated acres with this transfer.
- 2) Neal Weyers Transfer: Neal plans to install a center pivot on Section 3-29-45. There are 63.6 certified acres. The center pivot will irrigate approximately 55 acres. Irrigated land will be dried up to offset newly irrigated ground under center pivot. There will be no increase in irrigated acres.
- 3) Ralph Beutler Transfer: Ralph plans to install a center pivot, which will irrigate 60.9 acres. To do this he will dry up some currently irrigated ground. Ralph has certified 89.5 acres of irrigated ground. When the pivot is installed there will be 60.9 acres under the pivot and 28.6 gravity irrigated ground. There will be no increase in irrigated acres.
- 4) West Hills Land Company Transfer: The south side of pivot ground is very poor. They want to move the pivot 500 feet to the north to take advantage of better ground. There will be no increase in irrigated acres.
- 5) Bolek Feedlot Transfer: Bolek Feedlot would like to transfer 55.5 acres of existing gravity and side roll ground to all be under the proposed pivot. The currently certified acres will be dried up to irrigate some ground not currently irrigated. There will be no increase in irrigated acres.
- 6) Frank Dye Transfer: The previous gravity acres will be converted to a center pivot. Dye would like to transfer 5.5 acres to include new ground covered by new pivot. There will be no increase in irrigated acres.
- 7) Forney Ranch Transfer: Forney Ranch is proposing to install an 86 acre pivot on 39.57 acres currently irrigated ground and on 46.43 acres non-irrigated ground. Forney's will offset new acres by drying up 46.43 acres, so there will not be an increase in irrigated acres.
- 8) City of Alliance Request: The City of Alliance requests the ability to drill three test wells that will be cased and test pumped and kept as test/monitoring wells for future well sites.
- 9) Roger Rawle Transfer: Roger is proposing to remove old farmstead buildings and trees to allow center pivot to make a complete revolution. The center pivot irrigating this field is 1331' long with end-gun spray and currently cannot make a complete revolution because of the old farmstead. If this pivot made a complete revolution it would cover 127.76 acres, which would be an increase of 3.76 acres. These 3.76 acres would create a new use. To offset the new acres, Roger will install a diffuser to reduce the end-gun spray by 20', reducing the pivot length to 1311'. At 1311' the center pivot will irrigate 123.95 (124) acres. Approval conditioned with the requirement that Roger Rawle remove the end-gun. There will be no increase in irrigated acres.
- 10) Jared Roffers Transfer: Jared is proposing to dry up the 34.3 acres of sideroll irrigated ground to offset the installation of the center pivot in section 28-33-42. Currently there are 88.7 acres sideroll irrigated in this quarter, by transferring the 34.3 acres he will be able to install a 123 acres pivot. The 102 acre proposed pivot will be installed on currently irrigated ground and does not require an offset. He will

continue to irrigate 14 acres under the sideroll. There will be no increase in irrigated acres.

- 11) John Hoffman Transfer: John is proposing to dry up the 10.7 acres of gravity ground to offset the extension of his center pivot, to irrigate the same number of acres. There will be no increase of irrigated acres.
- 12) Jeff & Mutt LLC Transfer: They would like to convert gravity fields to center pivot. They currently have 73 certified irrigated acres that are gravity irrigated. They are proposing to put in a 60 acre half-circle pivot and continue to gravity irrigate 13 acres. The 3 acres of new ground at the North end of the pivot will be offset by not irrigating 3 acres of gravity ground on the East side of the property. There will be no increase in irrigated acres.

4) Ground Water Uses

No new ground water uses were granted in 2009.

Current Studies

Currently, DNR and UNWNRD have two joint studies:

- 1) Niobrara Hydrogeologic and Hydrostratigraphic Framework Study
- 2) Operations Model Study

1) Niobrara Hydrogeologic and Hydrostratigraphic Framework Study

This study provides geospatial coverages of aquifer properties throughout the upper portion of the Niobrara Basin. It is intended to help expand the Box Butte ground water model. The study is intended to finish at the end of June 2010.

2) Niobrara River Operations Model

The operations model will combine three separate models, CROPSIM, a ground water model, and a surface water model to develop operational scenarios that maximize water use efficiency. All portions of the operations model are currently in development.

**ANNUAL REPORT OF THE DEPARTMENT OF NATURAL RESOURCES TO
MEET THE REQUIREMENTS OF THE UPPER NIOBRARA-WHITE NATURAL
RESOURCE DISTRICT'S INTEGRATED MANAGEMENT PLAN
JUNE 2010**

Purpose: The purpose of the report is to fulfill the Department of Natural Resources responsibilities under the IMP annual reporting obligations and provide updates to current monitoring projects or studies as outlined in the IMP.

Reporting and exchanging information gathered from monitoring projects, streamflow data, or other studies provides a basis to increase understanding of the surface water and hydrologically connected groundwater system. As surface and groundwater are hydrologically connected throughout much of the district, estimates of water quantity of either surface or groundwater cannot be evaluated separately. The data gathered through this IMP's monitoring plan is designed to evaluate and measure the success of the objectives of this IMP. This information exchange also helps to test the validity of the conclusions and information upon which the IMP is based.

DNR Reporting: Data

The IMP requires that the Department of Natural Resources (DNR) annually report the following surface water data within the district:

- 1) Diversion records upstream of Box Butte Reservoir
- 2) Non-gaged stream measurements

- 1) Surface Water Diversion Records Upstream of Box Butte Reservoir

Historical surface water diversion records are located on DNR's website at:

<http://dnr.ne.gov/docs/hydrologic.html>. The 2009 surface water diversion records are in Appendix A.

- 2) Non-gaged Stream Measurements

The following non-gaged streams were measured this year: (provide list). The data for these measurements are in Appendix B.

The Department is working to compile this data and will provide this information on a CD in the near future.

DNR Reporting: Permitting

The IMP requires that the Department of Natural Resources (DNR) annually report to the following permitting actions within the district:

- 1) Changes in surface water permitting
- 2) Surface water variances
- 3) New surface water uses

1) Surface Water Permitting

No new surface water permits were granted in 2009.

2) Surface Water Variances

No surface water variances were granted in 2009.

3) Surface Water Uses

No new surface water uses were granted in 2009.

Current Studies

Currently, DNR and UNWNRD have two joint studies:

1) Niobrara Hydrogeologic and Hydrostratigraphic Framework Study

2) Operations Model Study

1) Niobrara Hydrogeologic and Hydrostratigraphic Framework Study

This study provides geospatial coverages of aquifer properties throughout the upper portion of the Niobrara Basin. It is intended to help expand the Box Butte groundwater model. The study is intended to finish at the end of June 2010.

2) Niobrara River Operations Model

The operations model will combine three separate models, CROPSIM, a groundwater model, and a surface water model to develop operational scenarios that maximize water use efficiency. All portions of the operations model are currently in development.

Appendix A

13000 Bennett-Kay Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.32
2	0.00	---	---	---	---	---	---	0.00	0.00	0.84	0.00	0.00
3	0.00	---	---	---	---	---	---	0.00	0.00	0.77	0.99	0.00
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.7	0.00
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.7	0.00
6	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.8	0.00
7	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.6	0.00
8	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.6	0.00
9	---	---	---	---	---	---	---	0.00	0.00	0.00	1.3	0.00
10	---	---	---	---	---	---	---	0.00	0.00	0.00	1.1	0.00
11	---	---	---	---	---	---	---	0.00	0.00	0.00	0.78	0.00
12	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	0.00	0.35	0.00	0.00
16	---	---	---	---	---	---	---	0.00	0.00	2.1	0.00	0.00
17	---	---	---	---	---	---	---	0.00	0.00	2.1	0.00	0.00
18	---	---	---	---	---	---	---	0.00	0.00	2.0	0.00	0.00
19	---	---	---	---	---	---	---	0.00	0.00	1.5	0.63	0.00
20	---	---	---	---	---	---	---	0.00	0.00	1.2	1.2	0.00
21	---	---	---	---	---	---	0.00	0.00	0.00	1.2	1.2	0.00
22	---	---	---	---	---	---	0.00	0.00	0.00	1.3	0.56	0.00
23	---	---	---	---	---	---	0.00	0.00	1.7	1.0	0.66	0.00
24	---	---	---	---	---	---	0.00	0.00	1.6	0.00	1.3	0.00
25	---	---	---	---	---	---	0.00	0.00	1.5	0.00	1.3	0.00
26	---	---	---	---	---	---	0.00	0.00	1.6	0.00	1.2	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.87	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.65	0.00
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
31	---	---	---	---	---	---	0.00	---	0.00	1.1	---	---
TOTAL	0	0	0	0	0	0	0	0	6.4	14.36	25.44	0.32
MEAN	0.000	---	---	---	---	---	0.000	0.000	0.21	0.47	0.82	0.011
MAX	0.00	---	---	---	---	---	0.00	0.00	1.7	2.1	1.8	0.32

MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13	28	50	0.6

CAL YEAR 2008 TOTAL	88	MEAN	0.43	MAX	3.3	MIN	0.000	AC-FT	174
WTR YEAR 2009 TOTAL	47	MEAN	0.27	MAX	2.1	MIN	0.000	AC-FT	92

AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

CAL YEAR 2008 TOTAL 51 MEAN 0.23 MAX 2.3 MIN 0.000 AC-FT 102
WTR YEAR 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

38200 Earnest Canal (North) from Niobrara Rive, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	0.00	---	---	---	---	---	---	0.00	4.2	0.00	0.00	0.00	
2	0.00	---	---	---	---	---	---	0.00	5.1	0.00	0.00	0.00	
3	0.00	---	---	---	---	---	---	0.00	4.9	0.00	0.00	0.00	
4	0.00	---	---	---	---	---	---	0.00	5.1	0.00	0.00	0.00	
5	0.00	---	---	---	---	---	---	0.00	4.6	0.00	0.00	0.00	
6	0.00	---	---	---	---	---	---	0.00	4.5	0.00	0.00	0.00	
7	0.00	---	---	---	---	---	---	0.00	4.4	0.00	0.00	0.00	
8	0.00	---	---	---	---	---	---	0.00	4.5	0.00	0.00	0.00	
9	---	---	---	---	---	---	---	0.00	4.7	0.00	0.00	0.00	
10	---	---	---	---	---	---	---	0.00	5.1	0.00	0.00	0.00	
11	---	---	---	---	---	---	---	0.00	5.2	0.00	0.00	0.00	
12	---	---	---	---	---	---	---	0.00	4.8e	0.00	0.00	0.00	
13	---	---	---	---	---	---	---	0.00	4.2e	0.00	0.00	0.00	
14	---	---	---	---	---	---	---	0.00	3.7e	0.00	0.00	0.00	
15	---	---	---	---	---	---	---	0.00	3.1e	0.00	0.00	0.00	
16	---	---	---	---	---	---	---	0.00	2.9	0.00	0.00	0.00	
17	---	---	---	---	---	---	---	0.00	2.9	0.00	0.00	0.00	
18	---	---	---	---	---	---	---	1.8	2.7	0.00	0.00	0.00	
19	---	---	---	---	---	---	---	3.8	2.5	0.00	0.00	0.00	
20	---	---	---	---	---	---	---	4.6	2.5	0.00	0.00	0.00	
21	---	---	---	---	---	---	---	5.0	2.4	0.00	0.00	0.00	
22	---	---	---	---	---	---	---	5.0	2.3	0.00	0.00	0.00	
23	---	---	---	---	---	---	---	4.8	2.2	0.00	0.00	0.00	
24	---	---	---	---	---	---	---	4.5	2.0	0.00	0.00	0.00	
25	---	---	---	---	---	---	---	4.8	1.9	0.00	0.00	0.00	
26	---	---	---	---	---	---	---	5.0	1.8	0.00	0.00	0.00	
27	---	---	---	---	---	---	---	3.8	1.8	0.00	0.00	0.00	
28	---	---	---	---	---	---	0.00	2.4	0.00	0.00	0.00	0.00	
29	---	---	---	---	---	---	0.00	2.1	0.00	0.00	0.00	0.00	
30	---	---	---	---	---	---	0.00	2.9	0.00	0.00	0.00	0.00	
31	---	---	---	---	---	---	---	4.1	---	0.00	0.00	---	
TOTAL	0	0	0	0	0	0	0	54.6	96	0	0	0	
MEAN	0.000	---	---	---	---	---	---	0.000	1.8	3.2	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.00	5.0	5.2	0.00	0.00	0.00

MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108	190	0.00	0.00	0.00

CAL YEAR 2008 TOTAL	186	MEAN	1.6	MAX	6.7	MIN	0.000	AC-FT	369
WTR YEAR 2009 TOTAL	151	MEAN	0.92	MAX	5.2	MIN	0.000	AC-FT	299

38100 Earnest Canal (South) from Niobrara Rive, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	1.5	0.00	0.00	0.00
2	0.00	---	---	---	---	---	---	0.00	2.5	0.00	0.00	0.00
3	0.00	---	---	---	---	---	---	0.00	2.4	0.00	0.00	0.00
4	0.00	---	---	---	---	---	---	0.00	2.2	0.00	0.00	0.00
5	0.00	---	---	---	---	---	---	0.00	2.1	0.00	0.00	0.00
6	0.00	---	---	---	---	---	---	0.00	2.0	0.00	0.00	0.00
7	0.00	---	---	---	---	---	---	0.00	2.0	0.00	0.00	0.00
8	0.00	---	---	---	---	---	---	0.00	2.0	0.00	0.00	0.00
9	---	---	---	---	---	---	---	0.00	1.9	0.00	0.00	0.00
10	---	---	---	---	---	---	---	0.00	1.8	0.00	0.00	0.00
11	---	---	---	---	---	---	---	0.00	1.8	0.00	0.00	0.00
12	---	---	---	---	---	---	---	0.00	3.7	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	2.6	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	1.0	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	0.39	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.00	0.21	0.00	0.00	0.00
17	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	---	1.8	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	0.00	2.1	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	0.00	2.1	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	1.8	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	2.2	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	10	30.1	0	0	0
MEAN	0.000	---	---	---	---	---	0.000	0.32	1.0	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	0.00	2.2	3.7	0.00	0.00	0.00

MIN 0.00 --- --- --- --- --- 0.00 0.00 0.00 0.00 0.00 0.00
AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 20 60 0.00 0.00 0.00

CAL YEAR 2008 TOTAL 172 MEAN 2.7 MAX 6.8 MIN 0.000 AC-FT 342
WTR YEAR 2009 TOTAL 40 MEAN 0.24 MAX 3.7 MIN 0.000 AC-FT 80

AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

CAL YEAR 2008 TOTAL 76 MEAN 0.34 MAX 2.9 MIN 0.000 AC-FT 151
WTR YEAR 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

63000 Geo. Hitshew Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
2	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
3	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
6	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
7	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
8	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
9	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
10	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
11	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
12	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
13	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
14	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
15	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
16	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
17	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
21	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
22	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
23	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
24	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
25	---	---	---	---	---	---	---	0.00	0.00	0.16	0.00	
26	---	---	---	---	---	---	---	0.00	0.00	0.17	0.00	
27	---	---	---	---	---	---	---	0.00	0.00	0.17	0.00	
28	---	---	---	---	---	---	---	0.00	0.00	0.18	0.00	
29	---	---	---	---	---	---	---	0.00	0.00	0.18	0.00	
30	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
31	---	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	0	0	0.86	0	0
MEAN	0.000	---	---	---	---	---	---	0.000	0.000	0.028	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.00	0.00	0.18	0.00	0.00

MIN	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00

CAL YEAR 2008 TOTAL	0	MEAN	0.033	MAX	0.18	MIN	0.000	AC-FT	0.7
WTR YEAR 2009 TOTAL	1	MEAN	0.006	MAX	0.18	MIN	0.000	AC-FT	1.7

62000 Harris-Neece Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.5	---	---	---	---	---	0.00	10	9.4	0.00	0.00	
2	8.0	---	---	---	---	---	0.00	14	8.8	0.00	0.00	
3	7.1	---	---	---	---	---	0.00	16	8.8	0.00	0.00	
4	7.0	---	---	---	---	---	0.00	16	8.3	4.1	0.00	
5	6.0	---	---	---	---	---	0.00	14	8.3	6.1	0.00	
6	5.4	---	---	---	---	---	0.00	14	4.4	6.4	0.00	
7	5.4	---	---	---	---	---	0.00	14	7.9	6.2	0.00	
8	5.8	---	---	---	---	---	0.00	14	10	6.3	0.00	
9	5.4	---	---	---	---	---	0.00	13	9.7	5.8	0.00	
10	5.1	---	---	---	---	---	0.00	14	10	7.3	0.00	
11	5.1	---	---	---	---	---	0.00	14	11	8.0	0.00	
12	5.1	---	---	---	---	---	0.00	7.9	11	7.4	0.00	
13	8.7	---	---	---	---	---	0.00	0.00	11	7.4	0.00	
14	15	---	---	---	---	---	0.00	0.00	9.0	9.4	0.00	
15	15	---	---	---	---	---	0.00	0.00	8.5	9.1	0.00	
16	15	---	---	---	---	---	0.00	0.00	7.3	8.2	0.00	
17	15	---	---	---	---	---	0.00	0.00	0.00	8.3	0.00	
18	15	---	---	---	---	---	0.00	0.00	0.00	8.2	0.00	
19	15	---	---	---	---	---	5.1	0.00	0.00	7.5	0.00	
20	15	---	---	---	---	---	7.1	0.00	0.00	6.6	0.00	
21	4.7	---	---	---	---	---	6.7	5.1	0.00	6.0	0.00	
22	0.00	---	---	---	---	---	6.3	7.1	0.00	6.6	0.00	
23	---	---	---	---	---	---	6.1	0.00	0.00	7.8	0.00	
24	---	---	---	---	---	---	6.3	0.00	0.00	9.4	0.00	
25	---	---	---	---	---	---	6.8	0.00	0.00	9.4	0.00	
26	---	---	---	---	---	---	7.1	0.00	0.00	7.8	0.00	
27	---	---	---	---	---	---	8.9	5.4	0.00	4.7	0.00	
28	---	---	---	---	---	0.00	9.5	7.1	0.00	0.00	0.00	
29	---	---	---	---	---	0.00	9.5	6.7	0.00	0.00	0.00	
30	---	---	---	---	---	0.00	8.9	8.5	0.00	0.00	0.00	
31	---	---	---	---	---	---	8.1	---	0.00	0.00	---	
TOTAL	191.3	0	0	0	0	0	0	96.4	200.8	143.4	174	0
MEAN	8.7	---	---	---	---	---	0.000	3.1	6.7	4.6	5.6	0.000
MAX	15	---	---	---	---	---	0.00	9.5	16	11	9.4	0.00
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

AC-FT 379 0.00 0.00 0.00 0.00 0.00 0.00 191 398 284 345 0.00

CAL YEAR 2008 TOTAL 1137 MEAN 5.2 MAX 18.0 MIN 0.000 AC-FT 2255

WTR YEAR 2009 TOTAL 806 MEAN 4.5 MAX 16.0 MIN 0.000 AC-FT 1598

AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

CAL YEAR 2008 TOTAL 32 MEAN 0.19 MAX 1.4 MIN 0.000 AC-FT 63
WTR YEAR 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

72000 Johnson Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	0.00	0.00	0.76	0.00	0.00	
2	---	---	---	---	---	---	0.00	0.00	6.2	0.00	0.00	
3	---	---	---	---	---	---	0.00	0.00	12	0.00	0.00	
4	---	---	---	---	---	---	0.00	0.00	14	4.5	0.00	
5	---	---	---	---	---	---	0.00	0.00	18	0.00	0.00	
6	---	---	---	---	---	---	0.00	0.00	8.8	0.00	0.00	
7	---	---	---	---	---	---	0.00	0.00	3.4	0.00	0.00	
8	---	---	---	---	---	---	0.00	0.00	9.8	0.00	0.00	
9	---	---	---	---	---	---	0.00	0.00	0.50	0.00	0.00	
10	---	---	---	---	---	---	0.00	0.00	0.07	0.00	0.00	
11	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
12	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
13	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
14	---	---	---	---	---	---	5.2	0.00	0.00	0.00	0.00	
15	---	---	---	---	---	---	4.5	0.00	0.00	0.00	0.00	
16	---	---	---	---	---	---	4.2	0.00	0.00	0.00	0.00	
17	---	---	---	---	---	---	3.3	0.00	0.00	0.00	0.00	
18	---	---	---	---	---	---	3.4	0.00	0.00	0.00	0.00	
19	---	---	---	---	---	---	3.4	0.00	0.00	0.00	0.00	
20	---	---	---	---	---	---	12	0.00	0.00	0.00	0.00	
21	---	---	---	---	---	---	12	0.00	0.00	0.00	0.00	
22	---	---	---	---	---	---	3.5	0.00	0.00	0.00	0.00	
23	---	---	---	---	---	---	3.6	0.00	0.00	0.00	0.00	
24	---	---	---	---	---	---	4.1	0.00	0.00	0.00	0.00	
25	---	---	---	---	---	---	6.8	0.00	0.00	0.00	0.00	
26	---	---	---	---	---	---	8.9	0.00	0.00	0.00	0.00	
27	---	---	---	---	---	---	2.9	0.00	0.00	0.00	0.00	
28	---	---	---	---	---	0.00	0.23	0.00	0.00	0.00	0.00	
29	---	---	---	---	---	0.00	0.06	0.00	0.00	0.00	0.00	
30	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	---	
31	---	---	---	---	---	---	0.00	---	0.00	0.00	---	
TOTAL	0	0	0	0	0	0	0	78.09	0	73.53	4.5	0
MEAN	---	---	---	---	---	---	0.000	2.5	0.000	2.4	0.14	0.000
MAX	---	---	---	---	---	---	0.00	12	0.00	18	4.5	0.00

MIN	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	155	0.00	146	8.9	0.00

CAL YEAR 2008 TOTAL	73	MEAN	0.47	MAX	7.4	MIN	0.000	AC-FT	144
WTR YEAR 2009 TOTAL	156	MEAN	1.0	MAX	18.0	MIN	0.000	AC-FT	310

78000 Labelle Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
2	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
3	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
6	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
7	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
8	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
9	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
10	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
11	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
12	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
17	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	0.00	---	0.00	0.00	---	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0.000	---	---	---	---	---	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

MIN 0.00 --- --- --- --- --- 0.00 0.00 0.00 0.00 0.00 0.00
AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

CAL YEAR 2008 TOTAL 104 MEAN 2.5 MAX 5.4 MIN 0.000 AC-FT 205
WTR YEAR 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

79000 Lakotah Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.83	---	---	---	---	---	---	4.5	3.1	1.2	0.34	1.2
2	0.83	---	---	---	---	---	---	4.4	4.6	1.1	0.30	1.2
3	0.83	---	---	---	---	---	---	4.5	3.8	0.41	0.27	1.2
4	0.89	---	---	---	---	---	---	4.3	4.0	0.18	0.24	1.1
5	0.94	---	---	---	---	---	---	3.9	3.9	0.14	0.10	1.1
6	1.00	---	---	---	---	---	---	3.6	3.8	0.21	0.10	1.00
7	1.1	---	---	---	---	---	---	3.3	3.1	0.83	0.10	1.1
8	1.1	---	---	---	---	---	---	3.0	3.1	0.27	0.10	1.1
9	1.1	---	---	---	---	---	---	2.9	3.2	0.37	0.10	1.1
10	1.1	---	---	---	---	---	---	2.8	4.3	0.54	0.30	1.2
11	1.2	---	---	---	---	---	---	2.7	4.7	0.50	0.34	1.2
12	1.3	---	---	---	---	---	---	2.8	5.8	0.41	0.34	1.2
13	1.4	---	---	---	---	---	---	2.7	5.0	0.34	0.27	1.4
14	1.4	---	---	---	---	---	---	2.7	4.8	0.30	0.27	1.5
15	1.5	---	---	---	---	---	---	0.63	4.7	0.24	0.27	1.5
16	1.8	---	---	---	---	---	---	0.00	3.9	0.24	0.34	1.5
17	1.8	---	---	---	---	---	---	0.00	3.5	0.21	0.34	1.6
18	1.3	---	---	---	---	---	---	0.00	3.1	0.21	0.34	1.5
19	1.3	---	---	---	---	---	---	0.00	3.0	0.21	0.61	1.4
20	1.3	---	---	---	---	---	---	0.00	2.8	0.21	1.4	1.4
21	1.3	---	---	---	---	---	---	0.00	2.1	0.21	1.2	1.5
22	1.4	---	---	---	---	---	---	0.00	1.8	0.21	1.1	1.6
23	---	---	---	---	---	---	---	0.00	2.0	0.21	1.0	1.7
24	---	---	---	---	---	---	---	0.00	2.4	0.21	0.97	1.8
25	---	---	---	---	---	---	---	0.00	2.0	0.21	1.2	1.9
26	---	---	---	---	---	---	---	0.00	1.9	0.21	1.3	1.9
27	---	---	---	---	---	---	---	0.03	1.9	0.21	1.3	1.9
28	---	---	---	---	---	---	5.0	1.5	1.5	0.30	1.3	1.9
29	---	---	---	---	---	---	4.6	2.8	1.4	0.37	1.4	1.9
30	---	---	---	---	---	---	4.0	2.7	1.2	0.34	1.3	1.9
31	---	---	---	---	---	---	2.7	---	0.34	1.2	---	---
TOTAL	26.72	0	0	0	0	0	13.6	58.46	96.4	10.94	19.74	43.5
MEAN	1.2	---	---	---	---	---	4.5	1.9	3.2	0.35	0.63	1.4
MAX	1.8	---	---	---	---	---	5.0	4.5	5.8	1.2	1.4	1.9

MIN	0.83	---	---	---	---	---	4.0	0.00	1.2	0.14	0.10	1.00
AC-FT	53	0.00	0.00	0.00	0.00	0.00	27	116	191	22	39	86

CAL YEAR 2008 TOTAL	316	MEAN	1.7	MAX	11.0	MIN	0.000	AC-FT	627
WTR YEAR 2009 TOTAL	269	MEAN	1.5	MAX	5.8	MIN	0.000	AC-FT	534

84000 McGinley-Stover Canal from Niobrara Rive, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	3.2	2.4	0.00	
2	0.00	---	---	---	---	---	---	0.00	2.9	2.3	0.00	
3	0.00	---	---	---	---	---	---	0.00	3.1	2.3	0.00	
4	0.00	---	---	---	---	---	---	0.00	3.0	2.3	0.00	
5	0.00	---	---	---	---	---	---	0.00	2.9	2.2	0.00	
6	0.00	---	---	---	---	---	---	0.00	2.9	2.1	0.00	
7	0.00	---	---	---	---	---	---	0.00	2.9	2.1	0.00	
8	0.00	---	---	---	---	---	---	0.00	2.9	2.1	0.00	
9	---	---	---	---	---	---	---	0.00	2.2	0.70	0.00	
10	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
11	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
12	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
13	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
14	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
15	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
16	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
17	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
19	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
20	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
21	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
24	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
25	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	
26	---	---	---	---	---	---	4.4	0.00	0.00	0.00	0.00	
27	---	---	---	---	---	---	6.7	0.00	1.3	0.00	0.00	
28	---	---	---	---	---	---	6.7	2.1	2.6	0.00	0.00	
29	---	---	---	---	---	---	1.5	2.6	2.6	0.00	0.00	
30	---	---	---	---	---	---	0.00	3.2	2.4	0.00	0.00	
31	---	---	---	---	---	---	0.00	---	2.4	0.00	---	
TOTAL	0	0	0	0	0	0	0	19.3	7.9	37.3	18.5	0
MEAN	0.000	---	---	---	---	---	---	1.5	0.26	1.2	0.60	0.000
MAX	0.00	---	---	---	---	---	---	6.7	3.2	3.2	2.4	0.00

MIN	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38	16	74	37	0.00

CAL YEAR 2008 TOTAL	227	MEAN	1.1	MAX	7.1	MIN	0.000	AC-FT	451
WTR YEAR 2009 TOTAL	83	MEAN	0.58	MAX	6.7	MIN	0.000	AC-FT	165

86000 McLaughlin Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	4.2	0.00	0.00	0.00
2	0.00	---	---	---	---	---	---	0.00	4.3	0.00	0.00	0.00
3	0.00	---	---	---	---	---	---	0.00	4.2	0.00	0.00	0.00
4	0.00	---	---	---	---	---	---	0.00	5.1	0.00	0.00	0.00
5	0.00	---	---	---	---	---	---	0.00	5.3	0.00	0.00	0.00
6	0.00	---	---	---	---	---	---	0.00	5.8	0.00	0.00	0.00
7	0.00	---	---	---	---	---	---	0.00	5.9	0.00	0.00	0.00
8	0.00	---	---	---	---	---	---	0.00	6.0	0.00	0.00	0.00
9	0.00	---	---	---	---	---	---	0.00	5.9	0.00	0.00	0.00
10	---	---	---	---	---	---	---	0.00	5.9	0.00	0.00	0.00
11	---	---	---	---	---	---	---	0.00	5.2	0.00	0.00	0.00
12	---	---	---	---	---	---	---	0.00	5.0	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	5.0	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	4.9	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	3.4	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
17	---	---	---	---	---	---	---	1.0	0.00	0.00	0.00	0.00
18	---	---	---	---	---	---	---	5.2	0.00	0.00	0.00	0.00
19	---	---	---	---	---	---	---	2.7	0.00	0.00	0.00	0.00
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	---	2.5	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	---	4.4	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	4.3	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	4.1	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	24.2	76.1	0	0	0
MEAN	0.000	---	---	---	---	---	---	0.000	0.78	2.5	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.00	5.2	6.0	0.00	0.00

MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48	151	0.00	0.00	0.00

CAL YEAR 2008 TOTAL	157	MEAN	0.83	MAX	6.7	MIN	0.000	AC-FT	312
WTR YEAR 2009 TOTAL	100	MEAN	0.62	MAX	6.0	MIN	0.000	AC-FT	199

89000 Mettlen Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	5.0
2	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	4.9
3	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	4.7
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	4.1
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.6
6	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.7
7	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.7
8	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.6
9	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.6
10	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.6
11	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.6
12	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.5
13	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	4.0
14	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	4.2
15	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	4.0
16	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.8
17	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.9
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.9
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.9
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	3.8
21	---	---	---	---	---	---	0.00	0.00	0.00	1.8	0.00	2.3
22	---	---	---	---	---	---	0.00	0.00	0.00	9.3	0.00	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	9.4	0.00	0.00
24	---	---	---	---	---	---	0.00	0.00	0.00	9.0	0.00	0.00
25	---	---	---	---	---	---	0.00	0.00	0.00	8.9	2.1	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	8.8	3.3	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	7.0	2.9	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	6.9	2.9	0.00
29	---	---	---	---	---	---	0.00	0.00	0.00	7.5	3.7	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	7.3	4.2	0.00
31	---	---	---	---	---	---	0.00	---	5.6	4.8	---	---
TOTAL	0	0	0	0	0	0	0	0	0	81.5	23.9	81.4
MEAN	0.000	---	---	---	---	---	0.000	0.000	0.000	2.6	0.77	2.7
MAX	0.00	---	---	---	---	---	0.00	0.00	0.00	9.4	4.8	5.0
MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 162 47 161

CAL YEAR 2008 TOTAL 187 MEAN 0.91 MAX 7.8 MIN 0.000 AC-FT 371

WTR YEAR 2009 TOTAL 187 MEAN 1.1 MAX 9.4 MIN 0.000 AC-FT 371

104000 Moore-Kay Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00e	0.02	0.00	0.00	
2	0.00	---	---	---	---	---	---	0.04	0.88	0.00	0.00	
3	0.00	---	---	---	---	---	---	0.07	2.6	0.00	0.00	
4	0.00	---	---	---	---	---	---	0.61	1.6	0.00	0.00	
5	0.00	---	---	---	---	---	---	2.5	0.88	1.4	0.00	0.00
6	0.00	---	---	---	---	---	---	2.2e	3.3	2.6	0.00	0.00
7	0.00	---	---	---	---	---	---	2.1e	2.3	1.7	0.00	0.00
8	0.00	---	---	---	---	---	---	2.0e	2.2	0.93	0.00	0.00
9	---	---	---	---	---	---	---	1.8e	1.8	0.05	0.00	0.00
10	---	---	---	---	---	---	---	1.6e	1.8	0.00	0.00	0.00
11	---	---	---	---	---	---	---	1.4e	1.9	0.00	0.00	0.00
12	---	---	---	---	---	---	---	1.2e	2.3	0.00	0.00	0.00
13	---	---	---	---	---	---	---	1.2e	2.2	0.00	0.00	0.00
14	---	---	---	---	---	---	---	1.1	2.1	0.00	0.00	0.00
15	---	---	---	---	---	---	---	1.3	1.9	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.96	1.5	0.00	0.00	0.00
17	---	---	---	---	---	---	---	0.87	1.1	0.00	0.00	0.00
18	---	---	---	---	---	---	---	0.95	1.4	0.00	0.00	0.00
19	---	---	---	---	---	---	---	0.00	1.8	0.00	0.00	0.00
20	---	---	---	---	---	---	---	0.42	3.1	0.00	0.00	0.00
21	---	---	---	---	---	---	---	0.38	2.8	0.00	0.00	0.00
22	---	---	---	---	---	---	---	0.31	2.2	0.00	0.00	0.00
23	---	---	---	---	---	---	---	0.32	2.3	0.00	0.00	0.00
24	---	---	---	---	---	---	---	0.54	1.6	0.00	0.00	0.00
25	---	---	---	---	---	---	---	0.70	1.1	0.00	0.00	0.00
26	---	---	---	---	---	---	---	0.37	0.97	0.00	0.00	0.00
27	---	---	---	---	---	---	---	0.00	0.89	0.00	0.00	0.00
28	---	---	---	---	---	---	---	0.00e	0.60	0.00	0.00	0.00
29	---	---	---	---	---	---	---	0.00e	0.63	0.00	0.00	0.00
30	---	---	---	---	---	---	---	0.00e	0.19	0.00	0.00	0.00
31	---	---	---	---	---	---	---	0.00e	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	24.22	45.58	11.78	0	0
MEAN	0.000	---	---	---	---	---	---	0.90	1.5	0.38	0.000	0.000
MAX	0.00	---	---	---	---	---	---	2.5	3.3	2.6	0.00	0.00

MIN 0.00 --- --- --- --- --- --- 0.00 0.00 0.00 0.00 0.00
AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 48 90 23 0.00 0.00

CAL YEAR 2008 TOTAL 119 MEAN 0.63 MAX 13.0 MIN 0.000 AC-FT 237
WTR YEAR 2009 TOTAL 82 MEAN 0.52 MAX 3.3 MIN 0.000 AC-FT 162

123000 Pioneer Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2009

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	3.4	0.00	0.00	0.37	
2	0.00	---	---	---	---	---	---	4.0	0.00	0.35	0.37	
3	0.00	---	---	---	---	---	---	3.9	0.00	1.0	0.36	
4	0.00	---	---	---	---	---	---	3.9	0.00	1.0	0.34	
5	0.00	---	---	---	---	---	---	3.9	0.00	1.0	0.37	
6	0.00	---	---	---	---	---	---	4.8	0.00	1.0	0.37	
7	0.00	---	---	---	---	---	0.00	4.7	0.00	1.0	0.37	
8	0.00	---	---	---	---	---	0.00	4.8	0.00	1.1	0.37	
9	0.00	---	---	---	---	---	0.00	4.8	0.00	0.73	0.37	
10	---	---	---	---	---	---	0.00	5.3	0.00	0.00	0.37	
11	---	---	---	---	---	---	0.00	5.6	0.00	0.00	0.27	
12	---	---	---	---	---	---	0.00	5.5	0.00	0.55	0.00	
13	---	---	---	---	---	---	0.00	5.4	0.00	1.2	0.00	
14	---	---	---	---	---	---	0.00	5.4	0.00	1.0	0.00	
15	---	---	---	---	---	---	0.00	5.3	0.00	0.00	0.00	
16	---	---	---	---	---	---	0.00	5.2	0.00	0.00	0.22	
17	---	---	---	---	---	---	0.00	5.2	0.00	0.00	0.90	
18	---	---	---	---	---	---	0.00	5.2	0.00	0.00	0.90	
19	---	---	---	---	---	---	0.55	5.2	0.00	0.00	0.90	
20	---	---	---	---	---	---	3.1	5.1	0.00	0.00	0.92	
21	---	---	---	---	---	---	3.2	4.9	0.00	0.34	0.48	
22	---	---	---	---	---	---	3.4	4.9	0.30	0.39	0.00	
23	---	---	---	---	---	---	3.3	2.2	1.5	0.40	0.00	
24	---	---	---	---	---	---	3.4	0.00	1.8	0.42	0.00	
25	---	---	---	---	---	---	3.6	0.00	1.3	0.43	0.00	
26	---	---	---	---	---	---	3.6	0.00	0.00	0.43	0.00	
27	---	---	---	---	---	---	3.6	0.00	0.00	0.42	0.00	
28	---	---	---	---	---	---	3.4	0.00	0.00	0.40	0.00	
29	---	---	---	---	---	---	3.4	0.00	0.00	0.40	0.00	
30	---	---	---	---	---	---	3.4	0.00	0.00	0.39	0.00	
31	---	---	---	---	---	---	3.3	---	0.00	0.37	---	
TOTAL	0	0	0	0	0	0	0	41.25	108.6	4.9	14.32	8.25
MEAN	0.000	---	---	---	---	---	---	1.7	3.6	0.16	0.47	0.28
MAX	0.00	---	---	---	---	---	---	3.6	5.6	1.8	1.2	0.92

MIN	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82	215	9.7	28	16

CAL YEAR 2008 TOTAL	246	MEAN	1.1	MAX	6.2	MIN	0.000	AC-FT	488
WTR YEAR 2009 TOTAL	177	MEAN	1.1	MAX	5.6	MIN	0.000	AC-FT	352

Appendix B

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Niobrara Ungaged Stream Measurements

Niobrara to Agate Measurements

Site	Name	Sub_Sec	Sec	Twn	Rng	Rng_Dir	7/22/09	8/10/09	8/19/09	9/8/09	9/29/09	6/30/10	8/4/10	9/21/10
Site #2	Wilson's Culvert	NENE	25	31	57	W	3.05	3.63	3.93	3.04	3.28	4.51	3.21	3
Site #3	Road blw Grote's	SENW	18	30	56	W	3.45	1.51	0.93	1.45	4.81	8.94	2.6	2.89
Site #4	Road into Neil Nunn's	NWSE	5	29	56	W	4.98	5.89	7.4	5.19	8.69	8.59	4.56	6.94
Site #5	Road into Joe Nunn's	NWSE	23	29	56	W	7.23	9.77	9.82	9.25	10.23	9.06	9.15	8.37
Site #6	600' upstream Cook C	SENW	2	28	56	W	8.08	7.79	8.01	7.7	8.68	11	6.05	6.6
Site #8	Road into Sandoz hou	NWNW	3	28	54	W	3.4	4.53	3.4	3.99	8.2	11.5	9.31	2.18

Niobrara Seepage Run Data

Id2	N2	LOCATION	SUB_SEC	S_1	T_1	R	D	CFS	CFS_1 (11-09-09)
82	Dry Creek	5 mi south	NWSW	29	28	51	W	0	0
83	Dry Creek	4 mi north	SWSW	20	28	49	W	0	0
84	Dry Creek	4 mi north	NWNE	28	28	49	W	0	0
85	Dry Creek	8 mi north	NESE	12	28	49	W	0	0
86	Cottonwoo	11 mi north	NWNE	22	30	50	W	0	0
87	Cottonwoo	3 mi north	NENE	16	29	49	W	0	0
88	Pebble Cre	8 mi north	SWSW	14	30	49	W	0	0
89	Pebble Cre	3 mi north	SWSE	8	29	48	W	0	0
90	Cottonwoo	2 mi north	SESE	22	29	48	W	1	0.14
92	Pepper Cre	5 mi north	SESW	1	29	48	W	0	NA
93	Pepper Cre	8 mi east o	SESE	22	29	47	W	0	NA
94	Unnamed c	9,mi north	SWSW	2	29	47	W	0	0
96	Box Butte	10 mi south	SENE	3	26	48	W	0	0
97	Box Butte	12 mi south	SWNW	7	26	47	W	0	0
98	Box Butte	15 mi south	NENW	3	26	47	W	0	0
99	Box Butte	4 mi east o	NWNW	12	27	49	W	0	0
100	Box Butte	6 mi east o	NENW	17	27	48	W	0	0
101	Box Butte	8 mi south	SESE	16	27	48	W	2	0.527
102	Box Butte	9 mi south	SESE	22	27	48	W	1	1.32
103	Box Butte	11 mi south	NENE	36	27	48	W	1	0
104	Box Butte	13 mi south	NWSW	33	27	47	W	1	0
105	Box Butte	16 mi south	NESE	26	27	47	W	2	0
106	Box Butte	7 mi east o	SENE	16	27	48	W	0	0
107	Box Butte	8 mi east o	NESE	15	27	48	W	0	0
108	Box Butte	10 mi east	NESE	13	27	48	W	0	0
109	Box Butte	12 mi east	SWNW	16	27	47	W	0	0
110	Box Butte	16 mi south	SESE	23	27	47	W	0	0
111	Box Butte	17 mi east	NENW	18	27	46	W	6	0
112	Box Butte	16 mi north	NWNE	23	28	47	W	0	0
113	Box Butte	19 mi south	NWNW	16	28	46	W	10	0
114	Box Butte	16 mi south	SESE	30	29	45	W	10	0
115	Box Butte	16 mi south	NESW	29	29	45	W	0	0
117	Tributary to	17 mi south	NWSE	27	29	45	W	0	0
119	Unnamed s	12 mi south	SWSW	35	30	45	W	0	0
120	Spring Cre	8 mi south	NWNW	23	30	46	W	0	0

121	Spring Cre	11 mi south	SWSW	26	30	45	W	0	0
122	Pine Creek	16 mi south	SWSW	13	29	44	W	21	22.1
123	Pine Creek	12 mi south	SWSW	27	30	44	W	25	27.5
127	Rush Cree	at Rushville	SWSE	28	32	44	W	0	0
128	Tributary to	3 mi west of	SWNE	31	32	44	W	0	0
129	Rush Cree	1 mi south	SESE	33	32	44	W	0	0
130	Hay Spring	2 mi south	SESE	16	31	46	W	0	0
131	Hay Spring	3 mi south	NWNW	26	31	46	W	0	0
132	Tributary to	1 mi west of	SESW	3	31	46	W	0	0
133	Tributary to	1 mi south	NWNW	13	31	46	W	0	0
134	Hay Spring	6 mi south	NWSW	13	31	45	W	0	0
135	Tributary to	6 mi west of	SWSW	35	32	45	W	0	0
136	Tributary to	3 mi south	NWSW	5	31	44	W	0	0
137	Rush Cree	3 mi south	SESE	10	31	44	W	0	0
138	Rush Cree	7 mi south	SENE	32	31	43	W	0	NA
139	Rush Cree	10 mi south	SESW	30	31	42	W	0	NA
141	Sand Draw	9 mi south	NWNW	13	31	42	W	0	0
143	Tributary to	5 mi south	SEEN	19	32	41	W	0	0
145	Antelope C	1 mi north	SWSW	24	33	42	W	0	0
146	Antelope C	2 mi north	NESE	13	33	42	W	0	0
147	Antelope C	1 mi south	SWSW	29	33	41	W	0	0
148	Antelope C	6 mi south	SWNW	12	32	41	W	0	0
149	Antelope C	5 mi east of	SESE	26	33	41	W	0	0
150	Antelope C	11 mi south	SWSE	21	32	40	W	0	0
160	Dry Creek	7 mi north	SENE	23	34	42	W	0	0
180	Snake River	19 mi south	NESE	32	30	41	W	0	NA
181	Snake River	18 mi south	NWNW	21	30	40	W	1	1.87
474	Pine Creek	22 mi south	NWNE	15	28	44	W	NA	5.79

Site number	Site Name	NAME2	Date	Hydrogr apher	Gage- height	Discharge	Remarks
6025	Andrews Supply Canal fr Sow Belly Creek	A-2530	11/13/2008	TAM			put board in gate
6025	Andrews Supply Canal fr Sow Belly Creek	A-2530	11/26/2008	TAM			dry
6025	Andrews Supply Canal fr Sow Belly Creek	A-2530	9/23/2009	TAM		1.67	
6400	Armstrong Pump fr Niobrara River	A-10870	5/5/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	5/14/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	5/27/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	6/9/2009	TAM	0.00	0.00	
6400	Armstrong Pump fr Niobrara River	A-10870	6/16/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	6/23/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	6/30/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	7/14/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	7/21/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	8/11/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	8/18/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	8/25/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	9/1/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	9/8/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	9/15/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	9/22/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	9/30/2009	TAM			dry
6400	Armstrong Pump fr Niobrara River	A-10870	5/18/2010	TAM		0.00	No flow.
6400	Armstrong Pump fr Niobrara River	A-10870	6/1/2010	TAM		0.00	Pump, no flow.
6400	Armstrong Pump fr Niobrara River	A-10870	6/8/2010	TAM		0.00	Dry
6400	Armstrong Pump fr Niobrara River	A-10870	6/22/2010	TAM		0.00	Dry
6400	Armstrong Pump fr Niobrara River	A-10870	6/29/2010	TAM		0.00	No flow
6400	Armstrong Pump fr Niobrara River	A-10870	7/6/2010	TAM		0.00	Not pumping.
2550	Bennett-Kay Canal from Niobrara River		10/8/2008	TAM			dry, removed equip
2550	Bennett-Kay Canal from Niobrara River		4/21/2009	TAM	0.00		Dry, installed recorder for the year.
2550	Bennett-Kay Canal from Niobrara River		5/5/2009	TAM			dry
2550	Bennett-Kay Canal from Niobrara River		5/14/2009	TAM			dry
2550	Bennett-Kay Canal from Niobrara River		5/19/2009	TAM			dry
2550	Bennett-Kay Canal from Niobrara River		5/27/2009	TAM			dry
2550	Bennett-Kay Canal from Niobrara River		6/9/2009	TAM	0.00	0.00	

2530	Cook Canal #1 from Niobrara River		6/23/2009	TAM	0.26		ponded
2530	Cook Canal #1 from Niobrara River		6/30/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		7/14/2009	TAM			ponded
2530	Cook Canal #1 from Niobrara River		7/28/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		8/11/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		8/18/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		8/25/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		9/8/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		9/15/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		9/30/2009	TAM			dry
2530	Cook Canal #1 from Niobrara River		10/6/2009	TAM			dry remove -- equip
2530	Cook Canal #1 from Niobrara River		4/5/2010	TAM		0.00	Dry
2530	Cook Canal #1 from Niobrara River		4/20/2010	TAM	0.00	0.00	Install recorder BPT#1.
2530	Cook Canal #1 from Niobrara River		5/18/2010	TAM	0.28	0.00	Ponded. No flow. GH=0.28 OK
2530	Cook Canal #1 from Niobrara River		6/1/2010	TAM	0.00	0.00	Canal dry.
2530	Cook Canal #1 from Niobrara River		6/8/2010	TAM		0.00	Dry
2530	Cook Canal #1 from Niobrara River		6/15/2010	TAM		0.00	Dry
2530	Cook Canal #1 from Niobrara River		6/22/2010	TAM	1.20		Discharge pond
2530	Cook Canal #1 from Niobrara River		6/29/2010	TAM	0.00	0.00	Dry
2530	Cook Canal #1 from Niobrara River		7/6/2010	TAM	0.00	0.00	Dry.
6380	Cook Pump fr Niobrara River	D-980R	5/5/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	5/14/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	5/19/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	5/27/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	6/9/2009	TAM			
6380	Cook Pump fr Niobrara River	D-980R	6/16/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	6/23/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	6/30/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	7/14/2009	TAM			36 heads
6380	Cook Pump fr Niobrara River	D-980R	7/21/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	7/25/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	8/5/2009	TAM			680heads
6380	Cook Pump fr Niobrara River	D-980R	8/11/2009	TAM			35 heads
6380	Cook Pump fr Niobrara River	D-980R	8/18/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	8/25/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	9/1/2009	TAM			dry
6380	Cook Pump fr Niobrara River	D-980R	9/8/2009	TAM		0.84	38 heads

2520	Earnest Canal North from Niobrara River		6/16/2009	TAM	0.58		
2520	Earnest Canal North from Niobrara River		6/23/2009	TAM	0.24		ponded
2520	Earnest Canal North from Niobrara River		6/30/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		7/14/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		7/21/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		7/28/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		8/10/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		8/18/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		8/25/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		9/1/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		9/8/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		9/15/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		9/22/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		9/29/2009	TAM			dry
2520	Earnest Canal North from Niobrara River		4/5/2010	TAM		0.00	Dry
2520	Earnest Canal North from Niobrara River		5/4/2010	TAM	0.00	0.00	Install recorder.
2520	Earnest Canal North from Niobrara River		5/11/2010	TAM	0.00	0.00	
2520	Earnest Canal North from Niobrara River		5/18/2010	TAM	1.52	4.58	Checks in ditch.
2520	Earnest Canal North from Niobrara River		6/1/2010	TAM	0.10	0.00	GH=0.10 OK. Poned, no flow.
2520	Earnest Canal North from Niobrara River		6/8/2010	TAM		0.00	Dry
2520	Earnest Canal North from Niobrara River		6/15/2010	TAM		0.00	Dry
2520	Earnest Canal North from Niobrara River		6/22/2010	TAM		0.00	Dry
2520	Earnest Canal North from Niobrara River		6/29/2010	TAM	0.00	0.00	Dry
2520	Earnest Canal North from Niobrara River		7/6/2010	TAM	0.00	0.00	Dry
2515	Earnest Canal South from Niobrara River		4/28/2009	TAM			Dry.
2515	Earnest Canal South from Niobrara River		5/12/2009	TAM			dry
2515	Earnest Canal South from Niobrara River		5/19/2009	TAM	0.54		ponded
2515	Earnest Canal South from Niobrara River		5/27/2009	TAM	2.24	1.74	
2515	Earnest Canal South from Niobrara River		6/9/2009	TAM	1.72	1.96	
2515	Earnest Canal South from Niobrara River		6/16/2009	TAM	1.16		
2515	Earnest Canal South from Niobrara River		6/23/2009	TAM	0.50		ponded
2515	Earnest Canal South from Niobrara River		6/30/2009	TAM	0.43		ponded
2515	Earnest Canal South from Niobrara River		7/14/2009	TAM	0.43		ponded
2515	Earnest Canal South from Niobrara River		7/21/2009	TAM	0.43		
2515	Earnest Canal South from Niobrara River		7/28/2009	TAM	0.45		ponded
2515	Earnest Canal South from Niobrara River		8/10/2009	TAM	0.45		ponded
2515	Earnest Canal South from Niobrara River		8/18/2009	TAM	0.43		ponded

2515	Earnest Canal South from Niobrara River		8/25/2009	TAM	0.38		ponded
2515	Earnest Canal South from Niobrara River		9/1/2009	TAM	0.37		ponded
2515	Earnest Canal South from Niobrara River		9/8/2009	TAM			dry
2515	Earnest Canal South from Niobrara River		9/15/2009	TAM			dry
2515	Earnest Canal South from Niobrara River		9/22/2009	TAM			dry
2515	Earnest Canal South from Niobrara River		9/29/2009	TAM			dry
2515	Earnest Canal South from Niobrara River		10/6/2009	TAM			dry - remove equip
2515	Earnest Canal South from Niobrara River		4/5/2010	TAM		0.00	Dry
2515	Earnest Canal South from Niobrara River		5/4/2010	TAM	0.54		Install recorder. Poned
2515	Earnest Canal South from Niobrara River		5/11/2010	TAM	0.54		No flow. Poned.
2515	Earnest Canal South from Niobrara River		5/18/2010	TAM	2.22	12.80	Gage dropping. Just removed checks.
2515	Earnest Canal South from Niobrara River		6/1/2010	TAM	1.66	6.66	Corr recorder fr 1.76 to 1.66
2515	Earnest Canal South from Niobrara River		6/8/2010	TAM	1.63		
2515	Earnest Canal South from Niobrara River		6/15/2010	TAM	0.50	0.00	Dry
2515	Earnest Canal South from Niobrara River		6/22/2010	TAM	0.47		Discharge pond
2515	Earnest Canal South from Niobrara River		6/29/2010	TAM	0.46	0.00	Gh=0.46 OK. Poned.
2515	Earnest Canal South from Niobrara River		7/6/2010	TAM	0.46	0.00	Poned.
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	5/21/2009	TAM			dry
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	5/28/2009	TAM			running , see note
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	6/18/2009	TAM			dry
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	6/25/2009	TAM			dry
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	8/6/2009	TAM			dry
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	8/20/2009	TAM			dry
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	9/3/2009	TAM			dry
6435	Enterprise Pump fr Niobrara River	D-461R, A-5181R	6/24/2010	TAM		0.00	No flow.
2570	Excelsior Canal from Niobrara River		10/9/2008	TAM			dry, removed equip
2570	Excelsior Canal from Niobrara River		5/21/2009	TAM			dry
2570	Excelsior Canal from Niobrara River		5/28/2009	TAM			dry

2560	HitsheW Canal from Niobrara River		6/18/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		7/16/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		7/30/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		8/6/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		8/20/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		9/3/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		9/17/2009	TAM			dry
2560	HitsheW Canal from Niobrara River		10/8/2009	TAM			dry -- remove equip
2560	HitsheW Canal from Niobrara River		5/20/2010	TAM	0.00	0.00	Start recorder. Canal dry.
2560	HitsheW Canal from Niobrara River		6/3/2010	TAM	0.00	0.00	Canal dry.
2560	HitsheW Canal from Niobrara River		6/17/2010	TAM	0.95	1.59	cable off wheel
2560	HitsheW Canal from Niobrara River		6/24/2010	TAM	0.00	0.00	Dry
2560	HitsheW Canal from Niobrara River		7/1/2010	TAM	0.00	0.00	Dry
2560	HitsheW Canal from Niobrara River		7/8/2010	TAM	0.00	0.00	Dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	5/14/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	5/21/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	7/2/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	7/16/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	7/30/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	8/6/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	8/20/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	9/3/2009	TAM			dry
6415	HitsheW Pump #2 fr Niobrara River	A-4862	6/3/2010	TAM		0.00	Pump, no flow.
6415	HitsheW Pump #2 fr Niobrara River	A-4862	6/24/2010	TAM			No flow.
6415	HitsheW Pump #2 fr Niobrara River	A-4862	7/1/2010	TAM			No Meas. Site is dry.
6415	HitsheW Pump #2 fr Niobrara River	A-4862	7/8/2010	TAM		0.00	No flow.
6365	Hoover Pump fr Niobrara River	D-510R	5/12/2009	TAM			dry
6365	Hoover Pump fr Niobrara River	D-510R	6/17/2009	TAM			dry
6365	Hoover Pump fr Niobrara River	D-510R	7/22/2009	TAM			dry
6365	Hoover Pump fr Niobrara River	D-510R	8/10/2009	TAM			dry
6365	Hoover Pump fr Niobrara River	D-510R	8/19/2009	TAM			dry
6365	Hoover Pump fr Niobrara River	D-510R	4/5/2010	TAM		0.00	Dry
6365	Hoover Pump fr Niobrara River	D-510R	5/4/2010	TAM		0.00	Dry
6365	Hoover Pump fr Niobrara River	D-510R	6/7/2010	TAM		0.00	Dry
2575	Hughes Canal from Niobrara River		10/9/2008	TAM			dry, removed equip
2575	Hughes Canal from Niobrara River		5/28/2009	TAM			dry , visit with owner.
2575	Hughes Canal from Niobrara River		6/3/2010	TAM	0.00	0.00	Canal dry.

2575	Hughes Canal from Niobrara River		6/17/2010	TAM	1.19	1.05	
2575	Hughes Canal from Niobrara River		6/24/2010	TAM	0.65		Corr recorder fr 0.78 to 0.65.
2575	Hughes Canal from Niobrara River		7/8/2010	TAM	0.00	0.00	Ponded.
3110	Jim Creek @ junction w/ Warbonnett Cr		9/23/2009	TAM		1.19	Dry
2505	Johnson Canal from Niobrara River		4/28/2009	TAM	0.00		will install recorder next visit
2505	Johnson Canal from Niobrara River		5/12/2009	TAM			dry
2505	Johnson Canal from Niobrara River		5/19/2009	TAM	1.00	3.50	
2505	Johnson Canal from Niobrara River		5/27/2009	TAM	0.39		ponded
2505	Johnson Canal from Niobrara River		6/16/2009	TAM			dry
2505	Johnson Canal from Niobrara River		6/23/2009	TAM			dry
2505	Johnson Canal from Niobrara River		6/30/2009	TAM			dry
2505	Johnson Canal from Niobrara River		7/14/2009	TAM			dry
2505	Johnson Canal from Niobrara River		7/21/2009	TAM			dry
2505	Johnson Canal from Niobrara River		7/28/2009	TAM			dry
2505	Johnson Canal from Niobrara River		8/19/2009	TAM			dry
2505	Johnson Canal from Niobrara River		8/25/2009	TAM			dry
2505	Johnson Canal from Niobrara River		9/1/2009	TAM			dry
2505	Johnson Canal from Niobrara River		9/8/2009	TAM			dry
2505	Johnson Canal from Niobrara River		9/22/2009	TAM			dry
2505	Johnson Canal from Niobrara River		9/29/2009	TAM			dry
2505	Johnson Canal from Niobrara River		4/5/2010	TAM		0.00	Dry
2505	Johnson Canal from Niobrara River		4/20/2010	TAM	0.00	0.00	Install recorder.
2505	Johnson Canal from Niobrara River		5/4/2010	TAM	0.00	0.00	??
2505	Johnson Canal from Niobrara River		5/4/2010	TAM	0.00	0.00	
2505	Johnson Canal from Niobrara River		5/11/2010	TAM	0.00	0.00	
2505	Johnson Canal from Niobrara River		5/18/2010	TAM	0.00	0.00	Canal dry.
2505	Johnson Canal from Niobrara River		6/1/2010	TAM	0.00	0.00	Canal dry.
2505	Johnson Canal from Niobrara River		6/15/2010	TAM		0.00	Dry
2505	Johnson Canal from Niobrara River		6/22/2010	TAM		0.00	Dry
2505	Johnson Canal from Niobrara River		6/29/2010	TAM	0.00	0.00	Dry
2505	Johnson Canal from Niobrara River		7/6/2010	TAM	0.00	0.00	Dry
2540	Labelle Canal from Niobrara River		10/8/2008	TAM			dry, removed equip
2540	Labelle Canal from Niobrara River		4/21/2009	TAM	0.45		Lowered shelf in shelter
2540	Labelle Canal from Niobrara River		5/5/2009	TAM			ponded
2540	Labelle Canal from Niobrara River		5/14/2009	TAM			dry
2540	Labelle Canal from Niobrara River		5/19/2009	TAM	0.50		ponded

2540	Labelle Canal from Niobrara River		5/27/2009	TAM	0.46		ponded
2540	Labelle Canal from Niobrara River		6/9/2009	TAM	0.48		
2540	Labelle Canal from Niobrara River		6/16/2009	TAM	0.53		ponded
2540	Labelle Canal from Niobrara River		6/23/2009	TAM	0.52		ponded
2540	Labelle Canal from Niobrara River		6/30/2009	TAM	0.05		ponded
2540	Labelle Canal from Niobrara River		7/14/2009	TAM	0.55		ponded
2540	Labelle Canal from Niobrara River		7/21/2009	TAM	0.60		
2540	Labelle Canal from Niobrara River		7/28/2009	TAM	0.75		ponded
2540	Labelle Canal from Niobrara River		8/5/2009	TAM	0.74		ponded
2540	Labelle Canal from Niobrara River		8/18/2009	TAM	0.80		ponded
2540	Labelle Canal from Niobrara River		8/25/2009	TAM	0.84	0.21	
2540	Labelle Canal from Niobrara River		9/1/2009	TAM	0.91		
2540	Labelle Canal from Niobrara River		9/8/2009	TAM	0.93		
2540	Labelle Canal from Niobrara River		9/15/2009	TAM	0.95		
2540	Labelle Canal from Niobrara River		9/22/2009	TAM	0.98		
2540	Labelle Canal from Niobrara River		9/30/2009	TAM	1.00		
2540	Labelle Canal from Niobrara River		10/6/2009	TAM	0.98		seepage from gates
2540	Labelle Canal from Niobrara River		4/6/2010	TAM		0.00	Dry
2540	Labelle Canal from Niobrara River		4/19/2010	TAM	0.00	0.00	Install recorder BPT9.
2540	Labelle Canal from Niobrara River		5/11/2010	TAM	0.15		Ponded.
2540	Labelle Canal from Niobrara River		5/18/2010	TAM	0.52	0.00	Ponded. No flow.
2540	Labelle Canal from Niobrara River		6/1/2010	TAM	0.52	0.00	Canal ponded, no flow.
2540	Labelle Canal from Niobrara River		6/8/2010	TAM	0.42		Discharge- pond
2540	Labelle Canal from Niobrara River		6/15/2010	TAM	1.05	0.67	
2540	Labelle Canal from Niobrara River		6/22/2010	TAM	72.00		Discharge pond
							Corr recorder fr 0.56 to 0.46.
2540	Labelle Canal from Niobrara River		6/29/2010	TAM	0.46	0.00	Ponded, no flow.
2540	Labelle Canal from Niobrara River		7/6/2010	TAM	0.42	0.00	Ponded.
2510	Lakotah Canal from Niobrara River		10/22/2008	TAM	0.36		removed recorder for year, dry
2510	Lakotah Canal from Niobrara River		4/28/2009	TAM	0.77	5.87	Start recorder.
2510	Lakotah Canal from Niobrara River		5/12/2009	TAM	0.56	3.44	
2510	Lakotah Canal from Niobrara River		5/19/2009	TAM			dry
2510	Lakotah Canal from Niobrara River		5/27/2009	TAM			dry
2510	Lakotah Canal from Niobrara River		6/9/2009	TAM	0.64		
2510	Lakotah Canal from Niobrara River		6/16/2009	TAM	0.70		
2510	Lakotah Canal from Niobrara River		6/23/2009	TAM	0.44		
2510	Lakotah Canal from Niobrara River		6/30/2009	TAM	0.32		

2510	Lakotah Canal from Niobrara River		7/8/2009	TAM	3.68	4.02	
2510	Lakotah Canal from Niobrara River		7/14/2009	TAM	0.15		
2510	Lakotah Canal from Niobrara River		7/21/2009	TAM	0.12		
2510	Lakotah Canal from Niobrara River		7/28/2009	TAM	0.14		
2510	Lakotah Canal from Niobrara River		8/10/2009	TAM	0.15		
2510	Lakotah Canal from Niobrara River		8/19/2009	TAM	0.15		
2510	Lakotah Canal from Niobrara River		8/25/2009	TAM	0.32	1.18	
2510	Lakotah Canal from Niobrara River		9/1/2009	TAM	0.33		
2510	Lakotah Canal from Niobrara River		9/8/2009	TAM	0.30		
2510	Lakotah Canal from Niobrara River		9/15/2009	TAM	0.38		
2510	Lakotah Canal from Niobrara River		9/22/2009	TAM	0.40		
2510	Lakotah Canal from Niobrara River		9/29/2009	TAM	0.47		
2510	Lakotah Canal from Niobrara River		10/6/2009	TAM	0.20		
2510	Lakotah Canal from Niobrara River		10/8/2009	TAM	0.32		remove -- remove equip
2510	Lakotah Canal from Niobrara River		4/5/2010	TAM		0.00	Dry
2510	Lakotah Canal from Niobrara River		4/20/2010	TAM	0.73	5.05	Install recorder. GH=0.73 Meas 0.73
2510	Lakotah Canal from Niobrara River		5/4/2010	TAM	0.80		Corr recorder fr 0.67 to 0.80 No
2510	Lakotah Canal from Niobrara River		5/11/2010	TAM	0.14		Meas. Water going down canal.
2510	Lakotah Canal from Niobrara River		5/18/2010	TAM	0.15		Corr recorder from 0.24 to 0.14
							Seepage past boards.
2510	Lakotah Canal from Niobrara River		6/1/2010	TAM	0.63	3.77	Corr recorder fr 0.64 to 0.63. Meas
2510	Lakotah Canal from Niobrara River		6/8/2010	TAM	0.56		3.77
2510	Lakotah Canal from Niobrara River		6/15/2010	TAM	1.09		
2510	Lakotah Canal from Niobrara River		6/22/2010	TAM	0.53		set recorder to .53 from .58
2510	Lakotah Canal from Niobrara River		6/29/2010	TAM	0.38		Corr recorder fr 0.47 to 0.38. No
							meas.
2510	Lakotah Canal from Niobrara River		7/6/2010	TAM	0.37		Water being retuned to river. No
							meas.
2590	Lichte Canal from Niobrara River		10/9/2008	TAM			dry, removed equip
2590	Lichte Canal from Niobrara River		5/7/2009	TAM			dry
2590	Lichte Canal from Niobrara River		5/21/2009	TAM			dry
2590	Lichte Canal from Niobrara River		5/28/2009	TAM			dry
2590	Lichte Canal from Niobrara River		6/11/2009	TAM			dry
2590	Lichte Canal from Niobrara River		6/18/2009	TAM			dry
2590	Lichte Canal from Niobrara River		7/2/2009	TAM			dry

2565	McLaughlin Canal from Niobrara River		5/21/2009	TAM	0.36		ponded
2565	McLaughlin Canal from Niobrara River		5/28/2009	TAM	1.34	4.74	just turned on
2565	McLaughlin Canal from Niobrara River		6/11/2009	TAM	1.43		
2565	McLaughlin Canal from Niobrara River		6/18/2009	TAM	0.25		ponded
2565	McLaughlin Canal from Niobrara River		6/25/2009	TAM	0.26		ponded
2565	McLaughlin Canal from Niobrara River		7/2/2009	TAM	0.26		ponded
2565	McLaughlin Canal from Niobrara River		7/9/2009	TAM	0.25		ponded
2565	McLaughlin Canal from Niobrara River		7/16/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		7/23/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		7/30/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		8/6/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		8/13/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		8/20/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		8/27/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		9/3/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		9/10/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		9/17/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		9/24/2009	TAM			dry
2565	McLaughlin Canal from Niobrara River		10/8/2009	TAM			dry - remove equip
2565	McLaughlin Canal from Niobrara River		5/5/2010	TAM	0.22		Ponded no flow
2565	McLaughlin Canal from Niobrara River		5/14/2010	TAM	0.25		No flow. Ponded
2565	McLaughlin Canal from Niobrara River		5/20/2010	TAM	0.24	0.00	GH=0.24 OK. Ponded.
2565	McLaughlin Canal from Niobrara River		6/3/2010	TAM	0.22	0.00	Canal ponded, no flow.
2565	McLaughlin Canal from Niobrara River		6/17/2010	TAM			unable to get to recorder
2565	McLaughlin Canal from Niobrara River		6/24/2010	TAM	0.26		Corr recorder fr 0.35 to 0.26. Ponded.
2565	McLaughlin Canal from Niobrara River		7/1/2010	TAM	0.22		GH=0.22 OK? No Meas. Site is a pond.
2565	McLaughlin Canal from Niobrara River		7/8/2010	TAM	0.00	0.00	Dry
2545	Mettlen Canal from Niobrara River		10/8/2008	TAM	0.40		ponded, removed equip
2545	Mettlen Canal from Niobrara River		4/21/2009	TAM	0.00		Dry, install recorder for the year.
2545	Mettlen Canal from Niobrara River		5/5/2009	TAM			ponded
2545	Mettlen Canal from Niobrara River		5/14/2009	TAM	0.20		ponded
2545	Mettlen Canal from Niobrara River		5/19/2009	TAM	0.28		ponded
2545	Mettlen Canal from Niobrara River		5/27/2009	TAM	0.45		ponded
2545	Mettlen Canal from Niobrara River		6/3/2009	TAM			dry
2545	Mettlen Canal from Niobrara River		6/9/2009	TAM	0.38		

2545	Mettlen Canal from Niobrara River		6/9/2009	TAM	0.38		
2545	Mettlen Canal from Niobrara River		6/16/2009	TAM	0.32		ponded
2545	Mettlen Canal from Niobrara River		6/23/2009	TAM	0.15		ponded
2545	Mettlen Canal from Niobrara River		7/14/2009	TAM	0.15		ponded
2545	Mettlen Canal from Niobrara River		7/21/2009	TAM	0.16		
2545	Mettlen Canal from Niobrara River		7/28/2009	TAM	1.56	7.01	
2545	Mettlen Canal from Niobrara River		8/5/2009	TAM			dry
2545	Mettlen Canal from Niobrara River		8/11/2009	TAM			dry
2545	Mettlen Canal from Niobrara River		8/18/2009	TAM			dry
2545	Mettlen Canal from Niobrara River		8/25/2009	TAM	1.08	2.59	
2545	Mettlen Canal from Niobrara River		9/1/2009	TAM	1.57		
2545	Mettlen Canal from Niobrara River		9/8/2009	TAM	1.04	3.28	
2545	Mettlen Canal from Niobrara River		9/15/2009	TAM	1.24		
2545	Mettlen Canal from Niobrara River		9/22/2009	TAM	0.18		ponded
2545	Mettlen Canal from Niobrara River		9/30/2009	TAM			dry
2545	Mettlen Canal from Niobrara River		10/6/2009	TAM			dry - remove equip
2545	Mettlen Canal from Niobrara River		4/6/2010	TAM		0.00	Dry
2545	Mettlen Canal from Niobrara River		4/19/2010	TAM	0.38	0.00	Ponded. Install recorder.
2545	Mettlen Canal from Niobrara River		5/11/2010	TAM	0.38		Ponded.
2545	Mettlen Canal from Niobrara River		5/18/2010	TAM	0.46	0.00	Ponded. No flow.
2545	Mettlen Canal from Niobrara River		6/1/2010	TAM	0.55	0.00	Canal ponded, no flow.
2545	Mettlen Canal from Niobrara River		6/8/2010	TAM	0.58	0.00	Discharge- pond
2545	Mettlen Canal from Niobrara River		6/15/2010	TAM	0.64	0.65	
2545	Mettlen Canal from Niobrara River		6/22/2010	TAM	0.50		
2545	Mettlen Canal from Niobrara River		6/29/2010	TAM	0.47		Ponded, Seepage??
2545	Mettlen Canal from Niobrara River		7/6/2010	TAM	0.46		Ponded.
2595	Mirage Flats Canal from Niobrara River		6/18/2009	TAM			dry
2595	Mirage Flats Canal from Niobrara River		7/16/2009	TAM	2.76	83.50	
2595	Mirage Flats Canal from Niobrara River		7/23/2009	TAM	3.50		unable to wade
2595	Mirage Flats Canal from Niobrara River		7/30/2009	TAM	3.22	118.00	
2595	Mirage Flats Canal from Niobrara River		8/6/2009	TAM	2.72	86.30	
2595	Mirage Flats Canal from Niobrara River		8/13/2009	TAM			dry
2595	Mirage Flats Canal from Niobrara River		8/20/2009	TAM	2.90	106.00	
2595	Mirage Flats Canal from Niobrara River		8/27/2009	TAM	3.13	118.00	
3160	Monroe Creek above Jordan Reservoir		9/23/2009	TAM			dry
2585	Montague Canal from Niobrara River		8/13/2009	TAM			dry
6445	Montague Canal Pump fr Niobrara River	A-2266	5/7/2009	TAM			dry

2555	Moore-Kay Canal from Niobrara River		8/18/2009	TAM	1.16		ponded
2555	Moore-Kay Canal from Niobrara River		8/25/2009	TAM	1.02		ponded
2555	Moore-Kay Canal from Niobrara River		9/8/2009	TAM			dry
2555	Moore-Kay Canal from Niobrara River		9/15/2009	TAM			dry
2555	Moore-Kay Canal from Niobrara River		9/22/2009	TAM	0.65		ponded
2555	Moore-Kay Canal from Niobrara River		9/30/2009	TAM	0.85		ponded
2555	Moore-Kay Canal from Niobrara River		5/11/2010	TAM			Ponded.
2555	Moore-Kay Canal from Niobrara River		5/18/2010	TAM	1.68	0.00	Flume washed out south side. Damed.
2555	Moore-Kay Canal from Niobrara River		6/1/2010	TAM			Still washed out. Seepage.
2555	Moore-Kay Canal from Niobrara River		6/15/2010	TAM			Discharge- pond
2555	Moore-Kay Canal from Niobrara River		6/22/2010	TAM		0.00	Discharge pond
2555	Moore-Kay Canal from Niobrara River		6/29/2010	TAM		0.00	GH=?. Ponded, No flow.
2555	Moore-Kay Canal from Niobrara River		7/6/2010	TAM	0.00	0.00	Dry.
3720	Niobrar River near Agate		10/2/2008	TAM	3.25	7.58	
3720	Niobrar River near Agate		11/3/2008	TAM	3.34	8.76	
3720	Niobrar River near Agate		12/30/2008	TAM	3.42	5.12	shore ice
3720	Niobrar River near Agate		12/30/2008	TAM	3.42	5.12	shore ice
3720	Niobrar River near Agate		1/16/2009	TAM	3.70	6.34	
3720	Niobrar River near Agate		1/16/2009	TAM	3.70	6.34	weeds in stream
3720	Niobrar River near Agate		2/3/2009	TAM	3.90	7.56	
3720	Niobrar River near Agate		2/24/2009	TAM	4.37	14.90	
3720	Niobrar River near Agate		3/31/2009	TAM	4.51		Weeds in stream below gage
3720	Niobrar River near Agate		4/13/2009	TAM	5.03	2.85	
3720	Niobrar River near Agate		4/21/2009	TAM	4.70		
3720	Niobrar River near Agate		4/28/2009	TAM	4.44	16.60	Backwater from weed dam below hiway bridge.
3720	Niobrar River near Agate		5/14/2009	TAM	4.21	12.00	
3720	Niobrar River near Agate		5/27/2009	TAM	4.21	12.20	weeds in stream
3720	Niobrar River near Agate		6/2/2009	TAM	4.58		
3720	Niobrar River near Agate		6/9/2009	JN	4.54	17.50	
3720	Niobrar River near Agate		6/16/2009	TAM	4.94	30.20	
3720	Niobrar River near Agate		6/23/2009	TAM	4.30		oil spill detected instream, reported to DEQ
3720	Niobrar River near Agate		6/30/2009	TAM	3.90	9.44	
3720	Niobrar River near Agate		7/14/2009	TAM	3.95	11.40	
3720	Niobrar River near Agate		7/21/2009	TAM	3.65		

3720	Niobrar River near Agate		7/22/2009	TAM	3.61	8.16	
3720	Niobrar River near Agate		8/5/2009	TAM	3.42		orifice maint
3720	Niobrar River near Agate		8/11/2009	TAM	3.49	8.42	
3720	Niobrar River near Agate		8/18/2009	TAM	3.52	8.95	
3720	Niobrar River near Agate		9/8/2009	TAM	3.38	8.32	
3720	Niobrar River near Agate		9/30/2009	TAM	3.47	8.89	
3720	Niobrar River near Agate		10/19/2009	TAM	3.88	13.40	
3720	Niobrar River near Agate		11/16/2009	TAM	3.98	13.30	Corr ISCO fr 3.94 to 3.98
3720	Niobrar River near Agate		12/21/2009	TAM	3.77	11.40	Channel clear. Float frozen in ice.
3720	Niobrar River near Agate		1/19/2010	TAM	3.68	10.60	Ice on top of float of A-35.
3720	Niobrar River near Agate		3/18/2010	TAM	4.52	29.10	GH=4.52 OK. Removed branch GH=4.47 after.
3720	Niobrar River near Agate		4/6/2010	TAM	4.22	24.40	GH=4.22 OK. Snow upstream.
3720	Niobrar River near Agate		4/28/2010	TAM	4.30	26.30	GH=4.30 OK. Meas 26.3
3720	Niobrar River near Agate		5/18/2010	TAM	4.24	22.80	Corr ISCO fr 4.26 to 4.24
3720	Niobrar River near Agate		6/1/2010	TAM	3.59		GH=3.59 OK. No meas, all OK.
3720	Niobrar River near Agate		6/8/2010	TAM	3.57	10.50	set time and pen on A-35
3720	Niobrar River near Agate		6/15/2010	TAM	4.67		
3720	Niobrar River near Agate		6/22/2010	TAM	4.06	20.00	
3720	Niobrar River near Agate		6/29/2010	TAM	3.87		GH=3.87 OK. No meas.
3720	Niobrar River near Agate		7/6/2010	TAM	3.50	10.70	Corr ISCO fr 3.53 to 3.50. Meas 10.7
1200	Niobrara River @ Wyoming - Nebraska State Line		10/2/2008	TAM	3.36	163.00	
1200	Niobrara River @ Wyoming - Nebraska State Line		11/3/2008	TAM	3.47	2.16	
1200	Niobrara River @ Wyoming - Nebraska State Line		12/30/2008	TAM	3.90	2.62	
1200	Niobrara River @ Wyoming - Nebraska State Line		1/16/2009	TAM	3.56	2.51	
1200	Niobrara River @ Wyoming - Nebraska State Line		1/16/2009	TAM	3.56	2.51	weeds in stream
1200	Niobrara River @ Wyoming - Nebraska State Line		2/3/2009	TAM	3.58	2.64	
1200	Niobrara River @ Wyoming - Nebraska State Line		2/24/2009	TAM	3.58	2.92	

1200	Niobrara River @ Wyoming - Nebraska State Line		3/31/2009	TAM	4.02	3.15	Stream full of snow below gage
1200	Niobrara River @ Wyoming - Nebraska State Line		4/13/2009	TAM	3.50	3.46	
1200	Niobrara River @ Wyoming - Nebraska State Line		4/28/2009	TAM	3.48	3.20	Old reeds in stream. Correct data logger time.
1200	Niobrara River @ Wyoming - Nebraska State Line		5/12/2009	TAM	3.45	2.89	
1200	Niobrara River @ Wyoming - Nebraska State Line		6/2/2009	TAM	3.68	5.12	
1200	Niobrara River @ Wyoming - Nebraska State Line		6/17/2009	TAM	3.58	3.62	
1200	Niobrara River @ Wyoming - Nebraska State Line		7/8/2009	TAM	3.68	4.02	Correct logger. Reeds and moss in stream.
1200	Niobrara River @ Wyoming - Nebraska State Line		7/14/2009	TAM	3.55		changed battery
1200	Niobrara River @ Wyoming - Nebraska State Line		7/22/2009	TAM	3.47	2.02	
1200	Niobrara River @ Wyoming - Nebraska State Line		8/10/2009	TAM	3.50	2.18	
1200	Niobrara River @ Wyoming - Nebraska State Line		8/19/2009	TAM	3.44	2.06	No correction. Reeds and moss in stream.
1200	Niobrara River @ Wyoming - Nebraska State Line		8/19/2009	TAM	3.44	2.06	
1200	Niobrara River @ Wyoming - Nebraska State Line		9/8/2009	TAM	3.40	1.65	
1200	Niobrara River @ Wyoming - Nebraska State Line		9/29/2009	TAM	3.38	1.87	
1200	Niobrara River @ Wyoming - Nebraska State Line		10/19/2009	TAM	3.46	2.23	
1200	Niobrara River @ Wyoming - Nebraska State Line		11/16/2009	TAM	3.48	2.76	Corr. Logger fr 3.46 to 3.48
1200	Niobrara River @ Wyoming - Nebraska State Line		12/18/2009	TAM	3.46	2.68	Shore Ice.
1200	Niobrara River @ Wyoming - Nebraska State Line		1/19/2010	TAM	3.42	2.98	

1200	Niobrara River @ Wyoming - Nebraska State Line		2/10/2010	TG	3.60	2.65	CK LEVELS CORRECT STAFF WORKED ON PHONE LINE
1200	Niobrara River @ Wyoming - Nebraska State Line		2/11/2010	TG	3.58		NO MEAS. CONNECT PHONE LINE
1200	Niobrara River @ Wyoming - Nebraska State Line		3/18/2010	TAM	3.62	3.41	RP=3.62 Log=3.63. Replaced phoneline. Meas 3.41
1200	Niobrara River @ Wyoming - Nebraska State Line		4/5/2010	TAM	3.67	4.04	GH=3.67 OK
1200	Niobrara River @ Wyoming - Nebraska State Line		4/27/2010	TAM	3.77	4.87	Installed ISCO 4230 DSE2778.
1200	Niobrara River @ Wyoming - Nebraska State Line		4/28/2010	TAM	3.73		Installed solar panel. Fixed orifice line. Corr ISCO fr 3.23 to 3.73.
1200	Niobrara River @ Wyoming - Nebraska State Line		4/29/2010	TAM	3.69		Replace solar panel. Corr ISCO fr 3.87 to 3.69
1200	Niobrara River @ Wyoming - Nebraska State Line		5/4/2010	TAM	3.63		Install new battery set ISCO
1200	Niobrara River @ Wyoming - Nebraska State Line		5/11/2010	TAM	3.66		Chk lines for leaks. Corr frome 3.74 to 3.66. No Meas.
1200	Niobrara River @ Wyoming - Nebraska State Line		5/19/2010	TAM	3.75	4.21	GH=3.75 OK. Meas 4.21. Water on phone jack.
1200	Niobrara River @ Wyoming - Nebraska State Line		6/7/2010	TAM	3.68	2.92	set isco to 3.68
1200	Niobrara River @ Wyoming - Nebraska State Line		6/15/2010	TAM	4.09	6.69	
1200	Niobrara River @ Wyoming - Nebraska State Line		6/29/2010	TAM	3.77	2.61	GH=3.77 OK. Meas 2.61
1210	Niobrara River above Box Butte Reservoir		10/9/2008	TAM	3.09		check gage
1210	Niobrara River above Box Butte Reservoir		10/20/2008	TAM	3.12	11.70	
1210	Niobrara River above Box Butte Reservoir		11/10/2008	TAM	5.19		stream full of snow, didn't have right equip to meas.
1210	Niobrara River above Box Butte Reservoir		11/12/2008	TAM	4.28	16.00	snow causing backwater in stream. Partial ice cover
1210	Niobrara River above Box Butte Reservoir		11/17/2008	TAM	3.24	13.40	orifice maint - lost power corr
1210	Niobrara River above Box Butte Reservoir		12/1/2008	TAM	3.16	11.30	cleaned control after meas
1210	Niobrara River above Box Butte Reservoir		12/12/2008	TAM	3.14	12.30	
1210	Niobrara River above Box Butte Reservoir		12/18/2008	TAM	3.32		ice cover
1210	Niobrara River above Box Butte Reservoir		12/23/2008	TAM	3.25	9.55	shore ice below control

1210	Niobrara River above Box Butte Reservoir		12/31/2008	TAM	3.22		
1210	Niobrara River above Box Butte Reservoir		1/5/2009	TAM	3.54	10.80	shore ice , see note
1210	Niobrara River above Box Butte Reservoir		1/7/2009	TAM	3.11	11.50	see note
1210	Niobrara River above Box Butte Reservoir		1/27/2009	TG	3.62		NO MEAS. INSTALL ELECT. 100% ICE COVER
1210	Niobrara River above Box Butte Reservoir		2/2/2009	TAM	3.28	13.20	
1210	Niobrara River above Box Butte Reservoir		2/23/2009	TAM	3.51	17.60	weeds in stream
1210	Niobrara River above Box Butte Reservoir		3/12/2009	TAM	4.10	22.90	floating slush - shore ice
1210	Niobrara River above Box Butte Reservoir		4/1/2009	ASL	3.88	27.60	Weeds dams in stream
1210	Niobrara River above Box Butte Reservoir		4/13/2009	TAM	4.51	64.50	weeds in stream below gage.
1210	Niobrara River above Box Butte Reservoir		4/20/2009	TAM	4.40	62.70	
1210	Niobrara River above Box Butte Reservoir		4/30/2009	TAM	3.93		no meas check gage
1210	Niobrara River above Box Butte Reservoir		4/30/2009	TAM	3.93		no meas check gage
1210	Niobrara River above Box Butte Reservoir		5/4/2009	TAM	4.06	37.00	
1210	Niobrara River above Box Butte Reservoir		5/4/2009	TAM	4.06	37.00	
1210	Niobrara River above Box Butte Reservoir		5/21/2009	TAM	3.40	14.30	
1210	Niobrara River above Box Butte Reservoir		6/11/2009	TAM	4.03		
1210	Niobrara River above Box Butte Reservoir		6/18/2009	TAM	3.69	22.70	
1210	Niobrara River above Box Butte Reservoir		6/25/2009	TAM	3.77		
1210	Niobrara River above Box Butte Reservoir		7/2/2009	TAM	3.63	21.10	
1210	Niobrara River above Box Butte Reservoir		7/9/2009	TAM	3.89		check gage
1210	Niobrara River above Box Butte Reservoir		7/23/2009	TAM	3.05	8.92	
1210	Niobrara River above Box Butte Reservoir		8/6/2009	TAM	3.17	14.70	
1210	Niobrara River above Box Butte Reservoir		8/20/2009	TAM	3.22	14.80	
1210	Niobrara River above Box Butte Reservoir		9/3/2009	TAM	3.12	11.80	
1210	Niobrara River above Box Butte Reservoir		9/9/2009	TAM	3.12	10.80	
1210	Niobrara River above Box Butte Reservoir		9/24/2009	TAM	3.22	15.90	
1210	Niobrara River above Box Butte Reservoir		10/8/2009	TAM	3.34	18.50	
1210	Niobrara River above Box Butte Reservoir		11/17/2009	TAM	3.70	25.10	Submerged Corr ISCO fr 3.65 to 3.70
1210	Niobrara River above Box Butte Reservoir		12/16/2009	TAM	3.52	18.40	Shore Ice.
1210	Niobrara River above Box Butte Reservoir		1/12/2010	TAM	3.40	16.20	Broke Ice at sensor. Corr log fr 3.43 to 3.40
1210	Niobrara River above Box Butte Reservoir		1/26/2010	TAM	4.58	20.00	Ice jamming. Corr log fr 4.77 to 4.64
1210	Niobrara River above Box Butte Reservoir		4/12/2010	TAM	4.05	43.00	GH=4.05 OK. Meas 43.0
1210	Niobrara River above Box Butte Reservoir		4/28/2010	TAM	4.26		GH=4.26 OK No Meas.

1210	Niobrara River above Box Butte Reservoir	5/5/2010	TAM	3.92	33.80	Sand and moss building on control
1210	Niobrara River above Box Butte Reservoir	5/11/2010	TAM	3.99		Reset AxSys. Stopped logging.
1210	Niobrara River above Box Butte Reservoir	5/14/2010	TAM	4.12	43.90	GH=4.12 OK. Meas 43.9
1210	Niobrara River above Box Butte Reservoir	5/20/2010	TAM	4.19		GH=4.19 OK. No meas.
1210	Niobrara River above Box Butte Reservoir	5/28/2010	TAM	4.74		GH=4.74 OK. No meas.
1210	Niobrara River above Box Butte Reservoir	6/3/2010	TAM	3.73	30.10	GH=3.73 OK. Meas 30.1
1210	Niobrara River above Box Butte Reservoir	6/11/2010	TAM	4.12		
1210	Niobrara River above Box Butte Reservoir	6/17/2010	TAM	4.41	54.00	#3 large section due to strong wind and power line over measure sec.
1210	Niobrara River above Box Butte Reservoir	6/24/2010	TAM	4.10		GH=4.10 OK. No meas.
1210	Niobrara River above Box Butte Reservoir	7/1/2010	TAM	3.73	28.00	GH = 3.73 OK. Meas. 28
3750	Niobrara River at old Dunlap Bridge	5/4/2009	TAM		11.30	no gage
3750	Niobrara River at old Dunlap Bridge	5/4/2009	TAM		11.30	no gage
3750	Niobrara River at old Dunlap Bridge	6/25/2009	TAM		10.80	no gage
3750	Niobrara River at old Dunlap Bridge	4/12/2010	TAM		12.60	
3750	Niobrara River at old Dunlap Bridge	5/5/2010	TAM		13.20	Sand channel
3750	Niobrara River at old Dunlap Bridge	6/3/2010	TAM		12.30	Meas 12.3. No gage.
3750	Niobrara River at old Dunlap Bridge	7/1/2010	TAM		14.90	GH = No Meas.
1220	Niobrara River below Box Butte Reservoir	11/10/2008	TAM	2.03		check gage
1220	Niobrara River below Box Butte Reservoir	12/1/2008	TAM	2.06	0.72	
1220	Niobrara River below Box Butte Reservoir	1/5/2009	TAM	2.02		
1220	Niobrara River below Box Butte Reservoir	2/2/2009	TAM	2.02		station maint
1220	Niobrara River below Box Butte Reservoir	2/23/2009	TAM	2.03		no meas, check gage
1220	Niobrara River below Box Butte Reservoir	3/12/2009	TAM	2.03		no meas
1220	Niobrara River below Box Butte Reservoir	4/1/2009	TAM	2.05		
1220	Niobrara River below Box Butte Reservoir	4/20/2009	TAM	2.08	0.88	
1220	Niobrara River below Box Butte Reservoir	5/4/2009	TAM	2.16	0.80	trash in v notch-clean after meas
1220	Niobrara River below Box Butte Reservoir	6/18/2009	TAM	2.09		
1220	Niobrara River below Box Butte Reservoir	6/25/2009	TAM	2.08	1.03	
1220	Niobrara River below Box Butte Reservoir	7/16/2009	TAM	3.84	81.10	
1220	Niobrara River below Box Butte Reservoir	7/23/2009	TAM	4.05	120.00	
1220	Niobrara River below Box Butte Reservoir	7/29/2009	TAM	4.10		
1220	Niobrara River below Box Butte Reservoir	7/30/2009	TAM	4.00	104.00	
1220	Niobrara River below Box Butte Reservoir	8/6/2009	TAM	3.86	84.50	
1220	Niobrara River below Box Butte Reservoir	8/13/2009	TAM	2.04		

1220	Niobrara River below Box Butte Reservoir		8/20/2009	TAM	3.98	104.00	
1220	Niobrara River below Box Butte Reservoir		8/27/2009	TAM	4.04	114.00	
1220	Niobrara River below Box Butte Reservoir		9/3/2009	TAM	2.02	0.84	
1220	Niobrara River below Box Butte Reservoir		9/9/2009	TAM	3.34	27.20	
1220	Niobrara River below Box Butte Reservoir		9/17/2009	TAM	3.34		
1220	Niobrara River below Box Butte Reservoir		9/24/2009	TAM	3.34	28.30	
1220	Niobrara River below Box Butte Reservoir		10/8/2009	TAM	2.03	0.77	
1220	Niobrara River below Box Butte Reservoir		11/17/2009	TAM	2.04		No meas.
1220	Niobrara River below Box Butte Reservoir		4/9/2010	TAM	2.07	0.93	GH=2.07 OK. Meas 0.93
1220	Niobrara River below Box Butte Reservoir		4/12/2010	TAM	2.06		GH=2.06 OK. Replaced chart. No meas.
1220	Niobrara River below Box Butte Reservoir		5/5/2010	TAM	2.07		Checking gage
1220	Niobrara River below Box Butte Reservoir		6/3/2010	TAM	2.08	1.03	GH=2.08 OK. Meas 1.03.
1220	Niobrara River below Box Butte Reservoir		6/11/2010	TAM	2.14		
1220	Niobrara River below Box Butte Reservoir		6/23/2010	TAM	1.96	35.00	GH=1.96 OK. Meas 35.0
1220	Niobrara River below Box Butte Reservoir		6/24/2010	TAM	2.10		GH=2.10 OK. No meas.
1220	Niobrara River below Box Butte Reservoir		7/1/2010	TAM	2.10	1.27	GH = 2.10 OK. Meas. 1.27
1222	Niobrara River nr Hay Springs		10/14/2008	TAM	1.50	16.60	
1222	Niobrara River nr Hay Springs		11/18/2008	TAM	1.73	22.40	
1222	Niobrara River nr Hay Springs		12/19/2008	TAM	1.36	9.86	shore ice, jamming below gage
1222	Niobrara River nr Hay Springs		1/20/2009	TAM	1.70	19.80	
1222	Niobrara River nr Hay Springs		2/5/2009	TAM	1.74	25.90	
1222	Niobrara River nr Hay Springs		3/2/2009	TAM	1.54	19.50	
1222	Niobrara River nr Hay Springs		4/2/2009	TAM	1.54	17.70	
1222	Niobrara River nr Hay Springs		4/23/2009	TAM	1.66	21.00	
1222	Niobrara River nr Hay Springs		5/11/2009	TAM	1.60	17.70	
1222	Niobrara River nr Hay Springs		5/26/2009	BS	1.55	14.70	Running Niob. River appropriations. 14.7 cfs available, not pumping.
1222	Niobrara River nr Hay Springs		6/8/2009	TAM	1.87	20.20	
1222	Niobrara River nr Hay Springs		6/22/2009	TAM	1.76	16.20	
1222	Niobrara River nr Hay Springs		7/13/2009	TAM	1.68	11.60	
1222	Niobrara River nr Hay Springs		8/4/2009	TAM	1.50	7.81	
1222	Niobrara River nr Hay Springs		8/21/2009	TAM	1.71	13.60	
1222	Niobrara River nr Hay Springs		9/2/2009	TAM	1.72	11.90	
1222	Niobrara River nr Hay Springs		9/2/2009	JN	1.72	11.30	
1222	Niobrara River nr Hay Springs		9/28/2009	TAM	1.72	15.40	

1222	Niobrara River nr Hay Springs		10/15/2009	JN	1.67	17.90	
1222	Niobrara River nr Hay Springs		11/9/2009	ASL	1.55	18.10	150' blw Meas during seep run.
1222	Niobrara River nr Hay Springs		11/9/2009	JN	1.55	17.20	Meas. during seep run.
1222	Niobrara River nr Hay Springs		11/19/2009	TAM	1.54	18.70	Corr. ISCO fr 1.50 to 1.54
1222	Niobrara River nr Hay Springs		12/11/2009	TAM	1.60	15.30	Worked on orifice line.
1222	Niobrara River nr Hay Springs		1/15/2010	TAM	1.48	15.90	Corr ISCO fr 1.45 to 1.50
1222	Niobrara River nr Hay Springs		2/17/2010	TAM	1.49	16.60	Shore Ice.
1222	Niobrara River nr Hay Springs		3/1/2010	TAM	2.22	41.70	HWM=5.30 on staff. GH=2.22 OK Meas 41.7
1222	Niobrara River nr Hay Springs		3/15/2010	TAM	1.59	26.80	Corr ISCO fr 1.62 to 1.59 Meas 26.8
1222	Niobrara River nr Hay Springs		4/12/2010	TAM	1.53	24.10	Corr ISCO fr 1.56 to 1.53. Meas 24.1
1222	Niobrara River nr Hay Springs		6/2/2010	TAM	1.54	22.50	Corr ISCO fr 1.58 to 1.54. Meas 22.5
1222	Niobrara River nr Hay Springs		6/16/2010	TAM	2.71	60.00	Corr logger fr 2.69 to 2.72. meas 60.0
1222	Niobrara River nr Hay Springs		7/7/2010	TAM	1.92	32.30	Corr ISCO fr 1.95 to 1.92
3870	Niobrara River southeast of Gordon		10/14/2008	TAM	0.53	99.30	
3870	Niobrara River southeast of Gordon		11/18/2008	TAM	0.51	105.00	
3870	Niobrara River southeast of Gordon		12/19/2008	TAM	0.83	76.40	100% ice cover
3870	Niobrara River southeast of Gordon		12/19/2008	TAM	0.83	76.40	100% ice cover
3870	Niobrara River southeast of Gordon		1/20/2009	TAM	0.58	111.00	
3870	Niobrara River southeast of Gordon		2/5/2009	TAM	0.58	112.00	
3870	Niobrara River southeast of Gordon		2/11/2009	JCR	0.65		
3870	Niobrara River southeast of Gordon		3/2/2009	TAM	0.50	110.00	clean orifice
3870	Niobrara River southeast of Gordon		4/2/2009	TAM	0.50	108.00	cleaned trash from orifice
3870	Niobrara River southeast of Gordon		4/23/2009	TAM	0.58	145.00	Removed trash from orifice line, gage dropped to 0.61. Correct ISCO.
3870	Niobrara River southeast of Gordon		5/11/2009	TAM	0.38	105.00	cleaned orifice
3870	Niobrara River southeast of Gordon		5/26/2009	TAM	0.36	97.20	cleaned orifice
3870	Niobrara River southeast of Gordon		6/8/2009	TAM	0.49	115.00	
3870	Niobrara River southeast of Gordon		6/22/2009	TAM	0.36	90.90	
3870	Niobrara River southeast of Gordon		7/13/2009	TAM	0.32	86.10	
3870	Niobrara River southeast of Gordon		8/3/2009	TAM	0.26	74.80	
3870	Niobrara River southeast of Gordon		8/4/2009	TAM	0.30		maint

3870	Niobrara River southeast of Gordon		8/21/2009	TAM	0.34	88.20	
3870	Niobrara River southeast of Gordon		9/2/2009	TAM	0.32	80.60	
3870	Niobrara River southeast of Gordon		9/28/2009	TAM	0.44	96.60	
3870	Niobrara River southeast of Gordon		10/15/2009	TAM	0.48	101.00	
3870	Niobrara River southeast of Gordon		11/19/2009	TAM	0.42	104.00	Removed brush fr orf. 0.45 to 0.42
3870	Niobrara River southeast of Gordon		12/11/2009	TAM	0.85	104.00	Part Ice cover. Change battery
3870	Niobrara River southeast of Gordon		12/16/2009	TAM	0.86		Work on ISCO. 90% ICE cover.
3870	Niobrara River southeast of Gordon		12/17/2009	TAM	0.90		Worked on ISCO. Raised orifice.
3870	Niobrara River southeast of Gordon		1/11/2010	TAM	1.28	94.00	100% Ice below gage. 10' open at staff.
3870	Niobrara River southeast of Gordon		2/12/2010	TG	0.82	111.00	CK LEVELS NO CORRECTIONS CORRECT ISCO
3870	Niobrara River southeast of Gordon		3/15/2010	TAM	0.28	170.00	GH=0.28 OK Meas 170
3870	Niobrara River southeast of Gordon		4/12/2010	TAM	0.53	120.00	Corr ISCO fr 0.57 to 0.53. Meas 120 GH corr after moss removed from
3870	Niobrara River southeast of Gordon		5/3/2010	TAM	0.46	119.00	around orifice. Meas 119
3870	Niobrara River southeast of Gordon		6/2/2010	TAM	0.39	104.00	Corr ISCO fr 0.43 to 0.37. Clean debris fr orifice gh drop. Meas 104
3870	Niobrara River southeast of Gordon		6/16/2010	TAM	0.85	480.00	max gh 1.92 6/15/10
3870	Niobrara River southeast of Gordon		6/23/2010	TAM	0.29	162.00	ISCO corr itself fr 0.36 to 0.29 after debris removed fr orifice.
3870	Niobrara River southeast of Gordon		7/7/2010	TAM	0.27	126.00	Corr ISCO fr 0.33 to 0.28 by removing trash. Meas 126
2580	Pioneer Canal from Niobrara River		10/9/2008	TAM			dry, removed equip
2580	Pioneer Canal from Niobrara River		4/30/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		4/30/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		5/7/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		5/14/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		5/21/2009	TAM	1.39		ponded
2580	Pioneer Canal from Niobrara River		5/28/2009	TAM	1.43	3.22	
2580	Pioneer Canal from Niobrara River		6/11/2009	LEB	1.60	5.69	
2580	Pioneer Canal from Niobrara River		6/25/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		7/2/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		7/9/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		7/16/2009	TAM			dry
2580	Pioneer Canal from Niobrara River		7/23/2009	TAM	1.32	1.47	

2580	Pioneer Canal from Niobrara River		7/30/2009	TAM				dry
2580	Pioneer Canal from Niobrara River		8/6/2009	TAM	1.34	1.02		
2580	Pioneer Canal from Niobrara River		8/13/2009	TAM	1.34	1.19		
2580	Pioneer Canal from Niobrara River		8/20/2009	TAM				dry
2580	Pioneer Canal from Niobrara River		8/27/2009	TAM	1.36	0.43		
2580	Pioneer Canal from Niobrara River		9/3/2009	TAM	1.32			
2580	Pioneer Canal from Niobrara River		9/10/2009	TAM	3.32			
2580	Pioneer Canal from Niobrara River		9/17/2009	TAM	1.36	0.85		
2580	Pioneer Canal from Niobrara River		9/24/2009	TAM				dry
2580	Pioneer Canal from Niobrara River		5/5/2010	TAM	0.00			Install recorder
2580	Pioneer Canal from Niobrara River		5/14/2010	TAM	0.00	0.00		Dry
2580	Pioneer Canal from Niobrara River		5/20/2010	TAM	0.00	0.00		Canal dry.
2580	Pioneer Canal from Niobrara River		6/3/2010	TAM	1.58	5.99		Corr recorder fr 1.65 to 1.58. Meas 5.99.
2580	Pioneer Canal from Niobrara River		6/17/2010	TAM		0.00		dry
2580	Pioneer Canal from Niobrara River		6/24/2010	TAM	0.00	0.00		Dry
2580	Pioneer Canal from Niobrara River		7/1/2010	TAM				No Meas. Dry
2580	Pioneer Canal from Niobrara River		7/8/2010	TAM	0.28			Just turned on. GH=0.28 OK.
6425	Pioneer Pump #2 fr Niobrara River	A-3812	5/7/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	5/14/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	5/21/2009	TAM				16 heads
6425	Pioneer Pump #2 fr Niobrara River	A-3812	5/28/2009	TAM				15 heads
6425	Pioneer Pump #2 fr Niobrara River	A-3812	6/11/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	6/18/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	6/25/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/2/2009	TAM				14 heads
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/9/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/16/2009	TAM				17 heads
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/23/2009	TAM				17 heads
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/30/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	8/6/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	8/13/2009	TAM				11 heads
6425	Pioneer Pump #2 fr Niobrara River	A-3812	8/20/2009	TAM				12 heads running
6425	Pioneer Pump #2 fr Niobrara River	A-3812	8/27/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	9/3/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	9/10/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	9/17/2009	TAM				dry

6425	Pioneer Pump #2 fr Niobrara River	A-3812	9/24/2009	TAM				dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	5/14/2010	TAM			0.00	Dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	6/3/2010	TAM	17.00			17 head. From well.
6425	Pioneer Pump #2 fr Niobrara River	A-3812	6/17/2010	TAM			0.00	dry
6425	Pioneer Pump #2 fr Niobrara River	A-3812	6/24/2010	TAM			0.00	No flow.
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/1/2010	TAM	9.00		0.71	GH = 9 heads. Meas. 0.71
6425	Pioneer Pump #2 fr Niobrara River	A-3812	7/8/2010	TAM	17.00			17 head. Disch ???
2600	Potmesil Canal from Niobrara River		10/9/2008	TAM				dry, removed equip
2600	Potmesil Canal from Niobrara River		5/21/2009	TAM				dry
2600	Potmesil Canal from Niobrara River		5/28/2009	TAM				dry
2600	Potmesil Canal from Niobrara River		6/18/2009	TAM				dry
2600	Potmesil Canal from Niobrara River		6/25/2009	TAM				dry
2600	Potmesil Canal from Niobrara River		7/2/2009	TAM	0.66		7.13	
2600	Potmesil Canal from Niobrara River		7/9/2009	TAM	0.74			
2600	Potmesil Canal from Niobrara River		7/16/2009	TAM	0.68			
2600	Potmesil Canal from Niobrara River		7/23/2009	TAM	0.69		6.05	
2600	Potmesil Canal from Niobrara River		7/23/2009					
2600	Potmesil Canal from Niobrara River		7/30/2009	TAM	0.57			
2600	Potmesil Canal from Niobrara River		8/13/2009	TAM	0.74			
2600	Potmesil Canal from Niobrara River		8/20/2009	TAM	0.60		4.43	
2600	Potmesil Canal from Niobrara River		8/27/2009	TAM	0.58			
2600	Potmesil Canal from Niobrara River		9/10/2009	TAM				dry
2600	Potmesil Canal from Niobrara River		9/17/2009	TAM				dry
2600	Potmesil Canal from Niobrara River		5/20/2010	TAM	0.00		0.00	Canal dry. Start recorder.
2600	Potmesil Canal from Niobrara River		6/3/2010	TAM	0.00		0.00	Canal dry.
2600	Potmesil Canal from Niobrara River		6/17/2010	TAM			0.00	dry
2600	Potmesil Canal from Niobrara River		6/24/2010	TAM	0.00		0.00	Dry
2600	Potmesil Canal from Niobrara River		7/2/2010	TAM				No Meas. Dry
2600	Potmesil Canal from Niobrara River		7/8/2010	TAM	0.62		5.75	Corr recorder fr 0.20 to 0.62 Meas 5.75
6160	Rasher-Forbes Canal fr White River	A-456, A-534, A-1128	8/12/2009	TAM	0.30		1.35	
3060	Sow Belly Creek below Andrews Supply Canal		11/13/2008	TAM			1.99	
3060	Sow Belly Creek below Andrews Supply Canal		9/23/2009	TAM			0.48	

3170	Sow Belly Creek below Jim Creek Junction		9/23/2009	TAM				dry
3050	Sow Belly Creek below Sow Belly Canal		11/13/2008	TAM			2.24	
3050	Sow Belly Creek below Sow Belly Canal		9/23/2009	TAM			2.15	
3072	Sow Belly Creek below Staudenmair		9/23/2009	TAM				dry
3065	Sow Belly Creek below Zimmerman Canal		11/26/2008	TAM			1.25	
3065	Sow Belly Creek below Zimmerman Canal		9/23/2009	TAM			0.30	
3390	Squaw Creek above Squaw Creek Reservoir		5/12/2009	TG				DRY
3390	Squaw Creek above Squaw Creek Reservoir		9/16/2009	TG			2.85	
3100	Warbonnet Creek below Warbonnett Canal		9/23/2009	TAM			1.83	
6045	Warbonnett Canal fr Warbonnet Creek	D-548, A-892	9/23/2009	TAM				dry
1230	White River @ Crawford		10/1/2008	TAM	2.04		13.40	
1230	White River @ Crawford		10/20/2008	TAM	2.11		14.60	
1230	White River @ Crawford		11/19/2008	TAM	2.20		17.00	
1230	White River @ Crawford		12/11/2008	TAM	2.25		19.80	
1230	White River @ Crawford		12/29/2008	TAM	2.25		19.20	ice shelf above stream no ice affect.
1230	White River @ Crawford		1/13/2009	TAM	2.38		20.90	shore ice
1230	White River @ Crawford		1/13/2009	TAM	2.38		20.90	shore ice
1230	White River @ Crawford		1/16/2009	TAM	2.25			
1230	White River @ Crawford		1/16/2009	TAM	#####			no meas
1230	White River @ Crawford		1/30/2009	TAM	2.28		21.30	
1230	White River @ Crawford		2/17/2009	TAM	2.30		21.90	
1230	White River @ Crawford		3/11/2009	TAM	2.29		21.60	floating ice
1230	White River @ Crawford		3/25/2009	TAM	2.33			Check gage
1230	White River @ Crawford		4/8/2009	TAM	2.59		34.10	Rock Bed
1230	White River @ Crawford		4/17/2009	TAM	2.74			Light rain, check gage
1230	White River @ Crawford		5/29/2009	TAM	2.30		21.20	
1230	White River @ Crawford		6/2/2009	TAM	3.11		59.90	rising stage .see note
1230	White River @ Crawford		6/12/2009	TAM				lost power ,changed battery
1230	White River @ Crawford		6/19/2009	TAM	2.45		28.20	
1230	White River @ Crawford		6/23/2009	TAM	2.40			check gage
1230	White River @ Crawford		6/29/2009	TAM	2.23		22.80	

1230	White River @ Crawford		7/6/2009	TAM	2.36	29.90	Corr logger fr 2.53 to 2.35
1230	White River @ Crawford		7/14/2009	TAM	2.24		
1230	White River @ Crawford		7/15/2009	TAM	2.19	21.70	changed probe
1230	White River @ Crawford		7/21/2009	TAM	2.15		
1230	White River @ Crawford		7/27/2009	TAM	2.17	21.90	
1230	White River @ Crawford		8/12/2009	TAM	2.07	18.00	
1230	White River @ Crawford		8/18/2009	TAM	2.13		
1230	White River @ Crawford		8/24/2009	LEB	2.02	15.80	
1230	White River @ Crawford		9/18/2009	TAM	2.05	17.40	
1230	White River @ Crawford		10/14/2009	JN	2.24	22.70	
1230	White River @ Crawford		10/26/2009	TAM	2.24		No Meas. Corr log from 2.09 to 2.24
1230	White River @ Crawford		11/10/2009	TAM	2.24	23.10	Corr log fr 2.22 to 2.24. Corr time.
1230	White River @ Crawford		12/17/2009	TAM	2.27	24.10	Well frozen Corr log fr 2.20 to 2.27
1230	White River @ Crawford		1/4/2010	TAM	2.29		Stream open. Shore ice.
1230	White River @ Crawford		1/25/2010	TAM	2.17	20.30	Corr log fr 2.21 to 2.16. Broke ice in well
1230	White River @ Crawford		2/17/2010	TAM	2.31	27.20	Corr logger fr 2.27 to 2.34. No Ice
1230	White River @ Crawford		3/29/2010	TAM	2.32	25.60	Corr log fr 2.37 to 2.32
1230	White River @ Crawford		4/7/2010	TAM	2.48		Corr. Logger fr 2.41 to 2.48. No measure.
1230	White River @ Crawford		4/9/2010	TAM	2.35		Corr logger fr 2.45 to 2.35. No Meas.
1230	White River @ Crawford		4/14/2010	TAM	2.30	26.50	Corr logger fr 2.28 to 2.30. Meas 26.5
1230	White River @ Crawford		5/7/2010	TAM	2.30	25.30	gh=2.30 OK. Meas 25.3. Flushed well.
1230	White River @ Crawford		5/17/2010	TAM	2.39	27.70	Corr log fr 2.35 to 2.39
1230	White River @ Crawford		5/27/2010	TAM	2.57	37.60	Corr log fr 2.59 to 2.57. Meas 37.6
1230	White River @ Crawford		6/7/2010	TAM	2.41	30.40	set logger to 2.41
1230	White River @ Crawford		6/8/2010	TAM	3.38		High water mark 4.08 on staff
1230	White River @ Crawford		6/14/2010	TAM	2.88		check guage
1230	White River @ Crawford		6/21/2010	TAM	2.47	33.70	
1230	White River @ Crawford		7/9/2010	TAM	2.27	25.00	GH=2.27 OK. Meas 25.0
6105	White River Canal fr White River	D-477, A-936	6/24/2009	TAM			dry

6105	White River Canal fr White River	D-477, A-936	8/12/2009	TAM	1.72	4.55	
6105	White River Canal fr White River	D-477, A-936	6/21/2010	TAM		0.00	Dry
6165	Whitney Pipeline fr White River	A-1603, A-1625	4/14/2009	TAM			Dry
6165	Whitney Pipeline fr White River	A-1603, A-1625	6/24/2009	TAM			dry
6165	Whitney Pipeline fr White River	A-1603, A-1625	8/12/2009	TAM			dry
6165	Whitney Pipeline fr White River	A-1603, A-1625	5/17/2010	TAM		0.00	No flow.
6165	Whitney Pipeline fr White River	A-1603, A-1625	6/21/2010	TAM		0.00	Dry
6430	Wilkins Pump fr Niobrara River	A-16398	5/7/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	5/21/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	5/28/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	6/18/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	6/25/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	7/2/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	7/16/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	7/30/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	8/6/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	8/20/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	8/27/2009	TAM			dry
6430	Wilkins Pump fr Niobrara River	A-16398	9/10/2009	TAM			
6430	Wilkins Pump fr Niobrara River	A-16398	9/17/2009	TAM			run ?????
6430	Wilkins Pump fr Niobrara River	A-16398	6/24/2010	TAM		0.00	No flow.
6430	Wilkins Pump fr Niobrara River	A-16398	7/1/2010	TAM			No meas. Dry
6430	Wilkins Pump fr Niobrara River	A-16398	7/8/2010	TAM		0.00	No flow.
6035	Zimmerman Canal fr Sow Belly Canal	A-532, A-4790	11/26/2008	TAM		1.23	
6035	Zimmerman Canal fr Sow Belly Canal	A-532, A-4790	9/23/2009	TAM		0.40	