

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

201%**

Integrated Management Plan Annual Meeting 5i [i gh201&



Serving Box Butte, Dawes, Sheridan and Sioux Counties

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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 and 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 2011:

A) Replacement well permits

- (1) 10 – Replacement Irrigation
- (2) 2 – Replacement Public Water Supply
- (3) 0 – Replacement Commercial/Industrial

B) New well permits

- (1) 0 – New Public Water Supply
- (2) 1 – New Irrigation – Failed to Decommission within 180 Days

2) Ground Water Variances/Modifications – The following ground water variances were requested in 2011:

- A) Ken Jelinek would like to move an existing 134-acre pivot south 75 feet in W ½ 17-25-49. He would then like to put up a new 40-acre pivot to the north. He currently has 175 irrigated acres in W ½ 17-25-49. There will be no new acres involved in the modification. John Burke moved to approve Ken Jelinek's modification of irrigated acres; Tod Dorshorst seconded the motion. PASS (January 2011)
- B) Paul & Brenda Schnell Modification: The Schnell's have purchased the rest of the farm and would like to put their pivot back to the way it was originally farmed before the land had been divided in NW1/4 26-25-48. They do not want to increase irrigated acres, just switch the acres around to accommodate the modification of certified acres under the pivot. John Burke moved to approve the Schnell modification; Tod Dorshorst seconded the motion. PASS (February 2011)
- C) Kent Green is looking to make his pivot in SE1/4 34-26-47 go around in a circle and get rid of the flood irrigation. John Burke moved to approve Green's modification; Tod Dorshorst seconded the motion. PASS (February 2011)
- D) Wade Simonson would like to modify his existing acres in NW1/4 28-32-41 to allow installation of a center pivot. John Burke moved to approve Simonson's modification; Tod Dorshorst seconded the motion. PASS (February 2011)
- E) Kent Van Meter Variance: Kent applied for a replacement well permit. He drilled the new well and was supposed to decommission or change the status of the old well within 180 days. Kent failed to do so in the 180 days. Kent has since decommissioned the old well but the new well is illegal at this time. Kent is requesting a late well permit to register his new well and come into compliance. Curt Roth moved to approve Kent Van Meter's variance; John Burke seconded the motion. PASS (June 2011)
- F) Kody Stricker is requesting to move his pivot in NE1/4 7-25-48 approximately 320' to the West and 320' to the North. There will not be a change in irrigated acres. With this change he will be able to move equipment around much easier. Curt Roth moved to approve Kody Stricker's modification of irrigated acres request; Dave Kadlecek seconded the motion. PASS (August 2011)

3) Ground Water Uses – No new ground water uses were granted in 2011.

The UNWNRD does allow through the "483" application process, additional acres to be added to existing wells in an area of subarea 3 that was once fully appropriated. The District received no applications.

Integrated Management Studies

Currently, DNR and UNWNRD have several joint/cooperative studies:

- 1) Niobrara Hydrogeologic and Hydrostratigraphic Framework Study (Finished 2010)
- 2) Niobrara Operations Model Study (IWMPPF)
- 3) Niobrara River Basin Study (Bureau of Reclamation Basin Study Program)
- 4) Economic implications of reduced ground water allocations in the Nebraska Panhandle and educational programming to improve management with less water (IWMPPF)

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 was finished in 2010, with basin coverages delivered to DNR.

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 developed and the model is being calibrated.

3) Niobrara River Basin Study

The basin study will assist in projecting water supply and demand in the basin, analyze water supply operations under alternate water availability conditions and develop and analyze options for providing and optimizing use of future water supplies. The study will include development of a basin-wide ground water model and a surface water operations model used to analyze conjunctive management options. Currently study is ongoing.

4) Economic implications of reduced ground water allocations study

The multi-NRD study has a goal to provide farm-level economic analysis of limited irrigation impacts for crops grown in the panhandle of Nebraska and to provide educational programming to assist producers effectively manage ground water irrigation in areas that instituted pumping allocations. Currently the study is ongoing.

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

August 8, 2012

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 integrated management plan.

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 integrated management plan's (IMP) 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 2011 surface water diversion records are included in Appendix A.

- 2) Non-gaged Stream Measurements

The 2011 non-gaged stream measurements are included in Appendix B.

DNR Reporting: Permitting

The IMP requires that DNR annually report 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 2011.

- 2) Surface Water Variances

There were 8 surface water variances granted in 2011, all temporary permits for road construction granted to the Dawes County Road Department. The permitted variances address public safety issues, meeting the criteria of Department Rules for *Surface Water 457 Neb. Admin. Code Chapter 23.001.05* for granting temporary permits. Of the 8 permits, 5 permits allow 3 acre-feet, while the remaining 3 allow 10 acre-feet.

3) New Surface Water Uses

No new surface water uses were granted in 2011.

Current Studies

Currently, DNR and UNWNRD have one joint study, the IWMPPF conjunctive water management study. This study will combine surface and groundwater modeling tools to evaluate potential water management strategies within the UNWNRD. Currently, both the surface and groundwater model components are in development. Project completion is expected within the next year. The IWMPPF study will be incorporated into the Niobrara River Basin Study. This study is similar to the IWMPPF study, except that it expands the study region, incorporates climate and economic components, and includes funding from the Bureau of Reclamation WaterSMART program. The study will incorporate several models, including land-use, groundwater, surface water, and economic models. All portions of the study are currently in development, with project completion expected by April 2013.

Appendix A

100000 Mirage Flats Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

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	0.00	0.00	0.00	111	108	
2	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	118	106	
3	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	121	101	
4	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40	120	78	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76	107	49	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77	115	34	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82	115	---	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92	113	---	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	91	113	---	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	101	112	---	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137	113	---	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	148	108	---	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	150	103	---	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	153	107	---	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	148	117	---	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	146	117	---	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	154	114	---	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	154	112	---	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143	66	---	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	138	0.00	---	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	131	0.00	---	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	148	0.00	---	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	148	0.00	---	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	143	0.00	---	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	130	0.00	---	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128	17	---	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128	51	---	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128	68	---	
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	123	100	---	
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	115	110	---	
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	111	109	---	
TOTAL	0	0	0	0	0	0	0	0	0	3463	2557	476	
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	111.7	82.5	79.3
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	154	121	108

MIN 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 34
AC-FT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6869 5072 944

CAL YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2011 TOTAL 6496 MEAN 19.3 MAX 154.0 MIN 0.000 AC-FT 12880

124000 Potmesil Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---

MIN --- --- --- --- --- --- --- --- --- --- ---
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 0.00

CAL YEAR 2010 TOTAL 295 MEAN 2.6 MAX 6.2 MIN 0.000 AC-FT 585
WTR YEAR 2011

123000 Pioneer Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.1	1.5	
2	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.1	1.5	
3	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.2	1.5	
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.2	1.5	
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.3	1.4	
6	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.3	1.3	
7	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.2	0.27	
8	---	---	---	---	---	---	---	0.00	0.00	0.00	1.2	0.06	
9	---	---	---	---	---	---	---	0.17	0.00	0.00	1.2	0.00	
10	---	---	---	---	---	---	---	2.1	0.00	0.00	1.2	0.00	
11	---	---	---	---	---	---	---	2.2	0.00	0.00	0.83	0.00	
12	---	---	---	---	---	---	---	2.4	0.00	0.00	0.00	0.00	
13	---	---	---	---	---	---	---	2.4	0.00	0.00	0.00	0.00	
14	---	---	---	---	---	---	---	2.4	0.00	0.00	0.00	0.00	
15	---	---	---	---	---	---	---	2.2	0.00	0.00	0.00	0.00	
16	---	---	---	---	---	---	---	1.1	0.00	0.00	0.00	0.00	
17	---	---	---	---	---	---	---	0.08	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	---	---	---	---	---	---	---	0.15	0.00	0.07	0.00	0.00	
21	---	---	---	---	---	---	---	0.08	0.00	1.1	0.00	0.00	
22	---	---	---	---	---	---	---	0.18	0.00	1.1	0.00	0.00	
23	---	---	---	---	---	---	---	0.45	0.00	1.1	0.00	---	
24	---	---	---	---	---	---	---	1.2	0.00	1.1	0.00	---	
25	---	---	---	---	---	---	---	1.8	0.00	1.2	0.00	---	
26	---	---	---	---	---	---	---	0.98	0.00	1.2	0.01	---	
27	---	---	---	---	---	---	---	0.30	0.00	1.2	1.2	---	
28	---	---	---	---	---	---	0.00	0.15	0.00	1.2	1.4	---	
29	---	---	---	---	---	---	0.00	1.4	0.00	1.2	1.5	---	
30	---	---	---	---	---	---	0.00	0.00	0.00	1.2	1.5	---	
31	---	---	---	---	---	---	---	0.00	---	1.1	1.5	---	
TOTAL	0	0	0	0	0	0	0	21.74	0	12.77	19.94	9.03	
MEAN	0.000	---	---	---	---	---	---	0.000	0.70	0.000	0.41	0.64	0.41
MAX	0.00	---	---	---	---	---	---	0.00	2.4	0.00	1.2	1.5	1.5

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	43	0.00	25	40	18	

CAL YEAR 2010 TOTAL	255	MEAN	1.6	MAX	7.9	MIN	0.000	AC-FT	505				
WTR YEAR 2011 TOTAL	63	MEAN	0.41	MAX	2.4	MIN	0.000	AC-FT	126				

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

DISCHARGE (CFS), WATER YEAR 2011

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
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	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
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	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	---	0.00	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	0	0	0	0	0
MEAN	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

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	0.00	0.00

CAL YEAR 2010 TOTAL	96	MEAN	0.64	MAX	9.5	MIN	0.000	AC-FT	190
WTR YEAR 2011 TOTAL	0	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT	0.00

102000 Montague Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---

MIN --- --- --- --- --- --- --- --- --- --- ---
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 0.00

CAL YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2011

89000 Mettlen Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.4	0.00
2	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.4	0.00
3	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.4	0.00
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.5	0.00
5	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	1.7	0.00
6	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	1.6	0.00
7	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.7	0.00
8	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.7	0.00
9	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.6	0.00
10	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.5	0.00
11	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.6	0.00
12	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.6	0.00
13	---	---	---	---	---	---	0.00	0.00	0.00	1.0	1.5	0.00
14	---	---	---	---	---	---	0.00	0.00	0.00	1.7	1.4	0.00
15	---	---	---	---	---	---	0.00	0.00	0.00	1.6	1.4	0.00
16	---	---	---	---	---	---	0.00	0.00	0.00	1.8	1.3	0.00
17	---	---	---	---	---	---	0.00	0.00	0.00	2.3	1.4	0.00
18	---	---	---	---	---	---	0.00	0.00	0.00	2.8	1.4	0.00
19	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	1.3	0.00
20	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	1.3	0.00
21	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	1.3	0.00
22	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	1.2	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	1.2	0.00
24	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	0.00	0.00
25	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	0.00	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	2.7e	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	2.9	0.00	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	2.9	0.00	---
29	---	---	---	---	---	---	0.00	0.00	0.00	3.1	0.00	---
30	---	---	---	---	---	---	0.00	0.00	0.00	3.0	0.00	---
31	---	---	---	---	---	---	0.00	---	2.6	0.00	---	---
TOTAL	0	0	0	0	0	0	0	0	0	47.3	33.4	0
MEAN	0.000	---	---	---	---	---	0.000	0.000	0.000	1.5	1.1	0.000
MAX	0.00	---	---	---	---	---	0.00	0.00	0.00	3.1	1.7	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 94 66 0.00

CAL YEAR 2010 TOTAL 12 MEAN 0.072 MAX 5.8 MIN 0.000 AC-FT 24
WTR YEAR 2011 TOTAL 81 MEAN 0.44 MAX 3.1 MIN 0.000 AC-FT 160

86000 McLaughlin Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

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	---	---	---	---	---	---	0.17	0.00	0.00	0.00	0.00
4	0.00	---	---	---	---	---	---	0.83	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	2.4	0.00	0.00	0.00
8	---	---	---	---	---	---	---	0.00	4.9	0.00	0.00	0.00
9	---	---	---	---	---	---	---	0.00	4.1	0.00	0.00	0.00
10	---	---	---	---	---	---	---	0.00	4.4	0.00	0.00	0.00
11	---	---	---	---	---	---	---	0.00	5.0	0.00	0.00	0.00
12	---	---	---	---	---	---	---	0.00	5.0	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	2.8	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
22	---	---	---	---	---	---	---	0.00	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	0.00	0.00	---
26	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
27	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	---
29	---	---	---	---	---	---	0.00	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	1	28.6	0	0	0
MEAN	0.000	---	---	---	---	---	0.000	0.032	0.96	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	0.00	0.83	5.0	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	2.0	57	0.00	0.00	0.00

CAL YEAR 2010 TOTAL	107	MEAN	0.69	MAX	5.8	MIN	0.000	AC-FT	212
WTR YEAR 2011 TOTAL	30	MEAN	0.19	MAX	5.0	MIN	0.000	AC-FT	59

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

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	1.5	0.00	0.00	0.00	
2	---	---	---	---	---	---	---	1.5e	0.00	0.00	0.00	
3	---	---	---	---	---	---	---	1.5e	0.00	0.00	0.00	
4	---	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	
5	---	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	
6	---	---	---	---	---	---	---	2.3e	1.5	0.00	0.00	
7	---	---	---	---	---	---	---	2.3e	2.2	0.00	0.00	
8	---	---	---	---	---	---	---	2.2	2.2	1.3	0.00	
9	---	---	---	---	---	---	---	2.2	2.1	2.1	0.00	
10	---	---	---	---	---	---	---	2.1	2.0	1.4	0.00	
11	---	---	---	---	---	---	---	1.6	2.0	1.3	0.00	
12	---	---	---	---	---	---	---	0.65	2.1	1.2	0.00	
13	---	---	---	---	---	---	---	0.00	2.4	1.2	0.00	
14	---	---	---	---	---	---	---	0.00	2.2	1.3	0.00	
15	---	---	---	---	---	---	---	0.00	2.1	1.3	0.00	
16	---	---	---	---	---	---	---	0.00	2.2	1.2	0.00	
17	---	---	---	---	---	---	---	0.00	0.00	2.3	1.2	0.00
18	---	---	---	---	---	---	---	0.00	0.00	0.78	0.83	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	---	---	---	---	---	---	---	3.8	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	---	6.0	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	---	5.8	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	---	5.7	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	---	4.8	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	---	4.8	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	---	5.4	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	---	3.9	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	1.5	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	41.7	21.85	26.08	14.33	0
MEAN	---	---	---	---	---	---	---	2.8	0.72	0.85	0.46	0.000
MAX	---	---	---	---	---	---	---	6.0	2.3	2.4	2.1	0.00

MIN	---	---	---	---	---	---	---	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	83	43	52	28	0.00

CAL YEAR 2010 TOTAL	72	MEAN	0.64	MAX	4.2	MIN	0.000	AC-FT	143
WTR YEAR 2011 TOTAL	104	MEAN	0.76	MAX	6.0	MIN	0.000	AC-FT	206

81000 Lichte Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	0.00	0.00	1.0	0.00	
2	---	---	---	---	---	---	---	0.00	0.00	0.43	0.00	
3	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
4	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
5	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
6	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
7	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
8	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	
9	---	---	---	---	---	---	---	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	1.6	0.00	0.00	
19	---	---	---	---	---	---	0.00	0.00	3.4	0.00	0.00	
20	---	---	---	---	---	---	0.00	0.00	3.1	0.00	0.00	
21	---	---	---	---	---	---	0.00	0.00	0.89	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	0.00	0.00	---	
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---	
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---	
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---	
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---	
30	---	---	---	---	---	---	0.00	0.00	0.44	0.00	---	
31	---	---	---	---	---	---	0.00	---	1.0	0.00	---	
TOTAL	0	0	0	0	0	0	0	0	10.43	1.43	0	
MEAN	---	---	---	---	---	---	---	0.000	0.000	0.34	0.048	0.000
MAX	---	---	---	---	---	---	---	0.00	0.00	3.4	1.0	0.00

MIN	---	---	---	---	---	---	---	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	21	2.8	0.00

CAL YEAR 2010 TOTAL	0	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT	0.00
WTR YEAR 2011 TOTAL	12	MEAN	0.093	MAX	3.4	MIN	0.000	AC-FT	24

79000 Lakotah Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.0	---	---	---	---	---	0.00	5.7	3.0	0.00	0.00	
2	2.1	---	---	---	---	---	0.00	5.0	0.00	0.00	0.00	
3	2.2	---	---	---	---	---	0.00	4.5	0.00	0.00	0.00	
4	2.2	---	---	---	---	---	0.00	4.0	0.00	0.00	0.00	
5	2.2	---	---	---	---	0.00	1.4	3.5	0.00	0.00	0.00	
6	2.2	---	---	---	---	0.00	1.4	3.1	0.00	0.00	0.00	
7	2.2	---	---	---	---	0.00	1.4	0.00	0.00	0.00	0.00	
8	2.2	---	---	---	---	0.00	1.4	0.00	0.00	0.00	0.00	
9	2.4	---	---	---	---	0.00	1.8	0.00	0.00	0.00	0.00	
10	2.9	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	
11	3.1	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	
12	3.2	---	---	---	---	0.00	1.5	0.00	0.00	0.00	0.00	
13	3.3	---	---	---	---	0.00	1.6	0.00	2.2	0.00	0.00	
14	3.3	---	---	---	---	0.00	1.9	0.00	2.5	0.00	0.00	
15	3.2	---	---	---	---	0.00	1.2	0.00	2.1	0.00	0.00	
16	3.5	---	---	---	---	0.00	0.00	0.00	2.2	0.00	0.00	
17	3.2	---	---	---	---	0.00	0.00	0.00	2.1	0.00	0.00	
18	3.2	---	---	---	---	0.00	0.00	0.00	1.8	0.00	0.00	
19	3.2	---	---	---	---	0.00	0.00	4.3	1.6	0.00	0.00	
20	3.2	---	---	---	---	0.00	0.00	5.0	1.4	0.00	0.00	
21	3.2	---	---	---	---	0.00	0.00	4.6	1.2	0.00	0.00	
22	---	---	---	---	---	0.00	0.00	4.4	1.1	0.00	0.00	
23	---	---	---	---	---	0.00	0.00	4.6	0.00	0.00	0.00	
24	---	---	---	---	---	0.00	8.9	4.1	0.00	0.00	0.00	
25	---	---	---	---	---	0.00	15	4.8	0.00	0.00	0.00	
26	---	---	---	---	---	0.00	9.4	3.9	0.00	0.00	0.00	
27	---	---	---	---	---	0.00	8.4	3.9	0.00	0.00	0.00	
28	---	---	---	---	---	0.00	6.7	3.9	0.00	0.00	---	
29	---	---	---	---	---	0.00	6.6	3.6	0.00	0.00	---	
30	---	---	---	---	---	0.00	6.5	3.3	0.00	0.00	---	
31	---	---	---	---	---	---	6.2	---	0.00	0.00	---	
TOTAL	58.2	0	0	0	0	0	0	81.3	76.2	21.2	0	0
MEAN	2.8	---	---	---	---	---	0.000	2.6	2.5	0.68	0.000	0.000
MAX	3.5	---	---	---	---	---	0.00	15	5.7	3.0	0.00	0.00

MIN	2.0	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	161	151	42	0.00	0.00

CAL YEAR 2010 TOTAL	288	MEAN	1.6	MAX	9.0	MIN	0.000	AC-FT	572
WTR YEAR 2011 TOTAL	237	MEAN	1.2	MAX	15.0	MIN	0.000	AC-FT	470

78000 Labelle Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

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	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	0.00
10	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
11	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
12	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
13	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
14	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.89
15	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	1.5
16	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	1.4
17	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	1.5
18	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	1.7
19	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	1.7
20	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.0
21	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.2
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.1
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.1
24	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.1
25	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.1
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.0
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.0
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.2
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.1
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.0
31	---	---	---	---	---	---	0.00	---	0.00	0.00	---	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	31.59
MEAN	0.000	---	---	---	---	---	0.000	0.000	0.000	0.000	0.000	1.1
MAX	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	2.2

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	63

CAL YEAR 2010 TOTAL	7	MEAN	0.043	MAX	3.1	MIN	0.000	AC-FT	15
WTR YEAR 2011 TOTAL	32	MEAN	0.17	MAX	2.2	MIN	0.000	AC-FT	63

72000 Johnson Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.5	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
2	1.8	---	---	---	---	---	---	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	0.00
6	0.00	---	---	---	---	---	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	2.1	0.00	0.00	---
14	---	---	---	---	---	---	0.00	0.00	2.8	0.00	0.00	---
15	---	---	---	---	---	---	0.00	0.00	2.8	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	---
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	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	---
29	---	---	---	---	---	---	0.00	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	6.3	0	0	0	0	0	0	0	7.7	0	0	0
MEAN	1.0	---	---	---	---	---	0.000	0.000	0.26	0.000	0.000	0.000
MAX	4.5	---	---	---	---	---	0.00	0.00	2.8	0.00	0.00	0.00

MIN 0.00 --- --- --- --- --- 0.00 0.00 0.00 0.00 0.00 0.00
AC-FT 12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 15 0.00 0.00 0.00

CAL YEAR 2010 TOTAL 220 MEAN 1.3 MAX 27.0 MIN 0.000 AC-FT 437
WTR YEAR 2011 TOTAL 14 MEAN 0.086 MAX 4.5 MIN 0.000 AC-FT 28

69000 Hughes Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---

MIN --- --- --- --- --- --- --- --- --- --- ---
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 0.00

CAL YEAR 2010 TOTAL 8 MEAN 0.075 MAX 1.0 MIN 0.000 AC-FT 16
WTR YEAR 2011

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

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.6	---	---	---	---	0.00	0.00	10	7.2	10	5.4	
2	7.6	---	---	---	---	0.00	0.00	11	7.6	7.5	5.3	
3	7.6	---	---	---	---	0.00	0.00	11	7.6	6.6	5.5	
4	7.7	---	---	---	---	0.00	0.00	11	7.7	7.4	5.9	
5	7.9	---	---	---	---	0.00	0.00	12	8.6	7.9	6.1	
6	8.0	---	---	---	0.00	0.00	8.2	13	9.3	7.8	6.4	
7	7.9	---	---	---	0.00	0.00	10	14	9.3	7.6	6.5	
8	8.5	---	---	---	0.00	0.00	10	14	9.3	7.2	6.8	
9	9.3	---	---	---	0.00	0.00	10	10	8.8	6.9	7.3	
10	10	---	---	---	0.00	0.00	6.7	0.00	8.3	6.8	7.5	
11	10	---	---	---	0.00	0.00	6.6	0.00	7.7	7.4	7.2	
12	11	---	---	---	0.00	0.00	7.4	0.00	6.2	6.4	7.2	
13	11	---	---	---	0.00	0.00	7.9	0.00	8.2	4.3	7.6	
14	3.1	---	---	---	0.00	0.00	8.3	0.00	9.7	4.2	9.9	
15	0.00	---	---	---	0.00	0.00	9.1	0.00	10.0	4.2	12	
16	0.00	---	---	---	0.00	0.00	9.2	0.00	9.1	6.0	13	
17	0.00	---	---	---	0.00	0.00	9.6	0.00	8.7	5.4	13	
18	0.00	---	---	---	0.00	0.00	9.5	0.00	8.4	4.9	12	
19	0.00	---	---	---	0.00	0.00	9.5	0.00	3.5	4.5	12	
20	0.00	---	---	---	0.00	0.00	9.6	0.00	0.00	4.5	11	
21	0.00	---	---	---	0.00	0.00	9.3	0.04	0.00	4.5	10	
22	---	---	---	---	0.00	0.00	9.9	0.20	0.00	4.2	10	
23	---	---	---	---	0.00	0.00	9.8	0.37	0.00	4.0	10	
24	---	---	---	---	0.00	0.00	9.9	0.54	0.00	4.0	9.9	
25	---	---	---	---	0.00	0.00	9.4	0.70	0.00	4.1	9.7	
26	---	---	---	---	0.00	0.00	9.3	8.1	0.05	4.2	9.4	
27	---	---	---	---	0.00	0.00	9.2	16	0.24	3.7	9.3	
28	---	---	---	---	0.00	0.00	9.3	10	0.44	4.2	9.2	
29	---	---	---	---	0.00	0.00	9.1	7.6	0.64	4.6	9.0	
30	---	---	---	---	0.00	0.00	9.1	7.1	6.8	5.3	8.5	
31	---	---	---	---	0.00	---	9.2	---	9.4	5.5	---	
TOTAL	117.2	0	0	0	0	0	0	235.1	156.65	172.77	175.8	262.6
MEAN	5.6	---	---	---	---	0.000	0.000	7.6	5.2	5.6	5.7	8.8
MAX	11	---	---	---	---	0.00	0.00	10	16	10.0	10	13

MIN	0.00	---	---	---	---	0.00	0.00	0.00	0.00	0.00	3.7	5.3
AC-FT	232	0.00	0.00	0.00	0.00	0.00	0.00	466	311	343	349	521

CAL YEAR 2010 TOTAL	771	MEAN	4.1	MAX	12.0	MIN	0.000	AC-FT	1529
WTR YEAR 2011 TOTAL	1120	MEAN	4.9	MAX	16.0	MIN	0.000	AC-FT	2222

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

DISCHARGE (CFS), WATER YEAR 2011

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	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	---
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
20	---	---	---	---	---	---	---	0.16	0.00	0.00	0.00	---
21	---	---	---	---	---	---	---	0.21	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	0.00	0.00	---
26	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
27	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
28	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
29	---	---	---	---	---	---	---	0.00	0.00	0.00	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	0.37	0	0	0	0
MEAN	0.000	---	---	---	---	---	---	0.014	0.000	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.21	0.00	0.00	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 0.7 0.00 0.00 0.00 0.00

CAL YEAR 2010 TOTAL 7 MEAN 0.044 MAX 1.3 MIN 0.000 AC-FT 13
WTR YEAR 2011 TOTAL 0 MEAN 0.002 MAX 0.21 MIN 0.000 AC-FT 0.7

46000 Excelsior Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

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	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
22	---	---	---	---	---	---	---	0.00	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	0.00	0.00	---
26	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
27	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	---
29	---	---	---	---	---	---	0.00	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	0	0	0	0	0
MEAN	---	---	---	---	---	---	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

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	0.00	0.00	0.00

CAL YEAR 2010 TOTAL					0	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT	0.00
WTR YEAR 2011 TOTAL					0	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT	0.00

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

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00e	0.00	4.6	0.00	0.00
2	0.00	---	---	---	---	---	---	0.00e	0.00	4.6	0.00	0.00
3	0.00	---	---	---	---	---	5.0e	0.00e	0.00	4.6	0.00	0.00
4	0.00	---	---	---	---	---	5.0e	0.00	0.00	4.3	0.00	0.00
5	0.00	---	---	---	---	---	5.0e	0.00	0.00	4.1	0.00	0.00
6	0.00	---	---	---	---	---	5.0e	0.00	0.00	4.0	0.00	0.00
7	---	---	---	---	---	---	5.3e	0.00	0.00	3.7	0.00	0.00
8	---	---	---	---	---	---	4.5e	0.00	0.00	3.5	0.00	0.00
9	---	---	---	---	---	---	4.5e	0.00	0.00	3.3	0.00	0.00
10	---	---	---	---	---	---	4.5e	0.00	3.3	3.1	0.00	0.00
11	---	---	---	---	---	---	4.5e	0.00	4.9	2.8	0.00	0.00
12	---	---	---	---	---	---	4.0e	0.00	4.5	2.6	0.00	0.00
13	---	---	---	---	---	---	4.0e	0.00	4.0	3.3	0.00	0.00
14	---	---	---	---	---	---	4.0e	0.00	4.4	3.6	0.00	0.00
15	---	---	---	---	---	---	4.0e	0.00	3.8	4.0	0.00	0.00
16	---	---	---	---	---	---	0.00e	0.00	4.0	4.2	0.00	0.00
17	---	---	---	---	---	---	0.00e	0.00	4.6	3.6	0.00	0.00
18	---	---	---	---	---	---	0.00e	0.00	4.9	3.2	0.00	0.00
19	---	---	---	---	---	---	0.00e	0.00	4.7	2.9	0.00	0.00
20	---	---	---	---	---	---	0.00e	0.00	4.4	2.4	0.00	0.00
21	---	---	---	---	---	---	0.00e	0.00	4.0	1.8	0.00	0.00
22	---	---	---	---	---	---	0.00e	0.00	3.9	1.5	0.00	0.00
23	---	---	---	---	---	---	0.00e	0.00	3.6	1.3	0.00	0.00
24	---	---	---	---	---	---	0.00e	0.00	3.6	1.1	0.00	0.00
25	---	---	---	---	---	---	0.00e	0.00	3.7	0.00	0.00	0.00
26	---	---	---	---	---	---	0.00e	0.00	3.8	0.00	0.00	0.00
27	---	---	---	---	---	---	0.00e	0.00	3.9	0.00	0.00	0.00
28	---	---	---	---	---	---	0.00e	0.00	4.1	0.00	0.00	---
29	---	---	---	---	---	---	0.00e	0.00	4.5	0.00	0.00	---
30	---	---	---	---	---	---	0.00e	0.00	4.6	0.00	0.00	---
31	---	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	59.3	0	87.2	78.1	0	0
MEAN	0.000	---	---	---	---	---	2.1	0.000	2.9	2.5	0.000	0.000
MAX	0.00	---	---	---	---	---	5.3	0.00	4.9	4.6	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	118	0.00	173	155	0.00	0.00

CAL YEAR 2010 TOTAL	196	MEAN	1.3	MAX	12.0	MIN	0.000	AC-FT	388
WTR YEAR 2011 TOTAL	225	MEAN	1.2	MAX	5.3	MIN	0.000	AC-FT	445

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

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.05	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	2.1
2	0.07	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	2.0
3	0.44	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	0.00
4	0.71	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
5	0.85	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
6	0.87	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
7	0.85	---	---	---	---	---	2.6	0.00	0.00	0.00	0.00	0.00
8	0.85	---	---	---	---	---	2.5	0.00	0.00	0.00	0.00	0.00
9	0.90	---	---	---	---	---	2.3	0.00	0.00	0.00	0.00	0.00
10	1.1	---	---	---	---	---	2.4	0.00	1.2	0.00	0.00	0.00
11	1.3	---	---	---	---	---	2.5	0.00	1.5	0.00	0.00	0.00
12	1.4	---	---	---	---	---	2.8	0.00	3.9	0.00	0.00	1.8
13	---	---	---	---	---	---	2.8	0.00	3.7	0.00	0.00	1.8
14	---	---	---	---	---	---	2.7	0.00	3.7	0.00	0.00	1.9
15	---	---	---	---	---	---	2.6	0.00	1.6	0.00	0.00	2.1
16	---	---	---	---	---	---	2.6	0.00	0.25	0.00	0.00	2.1
17	---	---	---	---	---	---	2.5	0.00	0.16	0.00	0.00	2.1
18	---	---	---	---	---	---	2.4	0.00	0.16	0.00	0.00	2.1
19	---	---	---	---	---	---	2.5	0.00	0.10	0.00	0.00	2.1
20	---	---	---	---	---	---	2.6	0.00	0.00	0.00	0.00	2.1
21	---	---	---	---	---	---	2.7	0.00	0.00	0.00	0.18	2.1
22	---	---	---	---	---	---	2.6	0.00	0.00	0.00	0.20	0.00
23	---	---	---	---	---	---	2.5	0.00	0.00	0.00	0.46	0.00
24	---	---	---	---	---	---	2.5e	0.00	0.00	0.00	0.76	0.00
25	---	---	---	---	---	---	2.5e	0.00	0.00	0.00	0.78	0.00
26	---	---	---	---	---	---	2.5e	0.00	0.00	0.00	1.7	0.00
27	---	---	---	---	---	---	2.5e	0.00	0.00	0.00	2.5	0.00
28	---	---	---	---	---	---	2.5e	0.00	0.00	0.00	2.4	---
29	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	2.2	---
30	---	---	---	---	---	---	2.0e	0.00	0.00	0.00	2.2	---
31	---	---	---	---	---	---	---	0.00	---	0.00	2.2	---
TOTAL	9.39	0	0	0	0	0	60.1	6	16.27	0	15.58	24.3
MEAN	0.79	---	---	---	---	---	2.5	0.19	0.55	0.000	0.50	0.90
MAX	1.4	---	---	---	---	---	2.8	2.0	3.9	0.00	2.5	2.1

MIN	0.05	---	---	---	---	---	2.0	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	19	0.00	0.00	0.00	0.00	0.00	119	12	32	0.00	31	48	

CAL YEAR 2010 TOTAL	36	MEAN	0.22	MAX	3.4	MIN	0.000	AC-FT	72
WTR YEAR 2011 TOTAL	132	MEAN	0.71	MAX	3.9	MIN	0.000	AC-FT	261

29000 Cook Canal No. 1 from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2011

MEAN DAILY VALUES

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

MIN 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 0.00

CAL YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2011 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

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

DISCHARGE (CFS), WATER YEAR 2011

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	0.34	1.5	0.00	0.00
4	---	---	---	---	---	---	0.00	0.00	1.6	1.5	0.00	0.00
5	---	---	---	---	---	---	0.00	0.00	1.6	1.5	0.00	0.00
6	---	---	---	---	---	0.00	0.00	0.47	1.2	1.5	0.00	0.00
7	---	---	---	---	---	0.00	0.00	0.94	1.1	1.5	0.00	0.00
8	---	---	---	---	---	0.00	0.00	1.9	1.3	1.5	0.00	0.00
9	---	---	---	---	---	0.00	0.00	2.6	1.3	1.5	0.00	0.00
10	---	---	---	---	---	0.00	0.00	2.5	1.00	1.5	0.00	0.00
11	---	---	---	---	---	0.00	0.00	2.4	0.89	1.5	0.00	0.00
12	---	---	---	---	---	0.00	0.00	2.3	1.1	1.1	0.00	0.00
13	---	---	---	---	---	0.00	0.00	2.2	1.1	0.31	0.00	0.00
14	---	---	---	---	---	0.00	0.00	2.2	0.30	0.00	0.00	0.00
15	---	---	---	---	---	0.00	0.00	2.2	0.00	0.00	0.00	0.00
16	---	---	---	---	---	0.00	0.00	1.5	0.00	0.00	0.00	0.00
17	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	---	---	---	---	---	0.00	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	0.00
23	---	---	---	---	---	0.00	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	0.00
25	---	---	---	---	---	0.00	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	0.00
27	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	---	---
29	---	---	---	---	---	0.00	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	0	21.21	12.83	14.91	0
MEAN	---	---	---	---	---	---	0.000	0.000	0.71	0.41	0.48	0.000
MAX	---	---	---	---	---	---	0.00	0.00	2.6	1.6	1.5	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	0.00	42	25	30	0.00

CAL YEAR 2010 TOTAL	36	MEAN	0.22	MAX	1.8	MIN	0.000	AC-FT	72
WTR YEAR 2011 TOTAL	49	MEAN	0.28	MAX	2.6	MIN	0.000	AC-FT	97

Appendix B

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Date	Site number	Site Name	Discharge
10/8/2009	1210	Niobrara River above Box Butte Reservoir	18.50
10/8/2009	1220	Niobrara River below Box Butte Reservoir	0.77
10/14/2009	1230	White River @ Crawford	22.70
10/15/2009	1222	Niobrara River nr Hay Springs	17.90
10/15/2009	3870	Niobrara River southeast of Gordon	101.00
10/19/2009	1200	Niobrara River @ Wyoming - Nebraska State Line	2.23
10/19/2009	3720	Niobrar River near Agate	13.40
11/6/2009	3200	Hat Creek at Montrose	4.83
11/6/2009	3250	Hat Creek near Ardmore, South Dakota	6.61
11/9/2009	1222	Niobrara River nr Hay Springs	18.10
11/9/2009	1222	Niobrara River nr Hay Springs	17.20
11/10/2009	1230	White River @ Crawford	23.10
11/16/2009	1200	Niobrara River @ Wyoming - Nebraska State Line	2.76
11/16/2009	3720	Niobrar River near Agate	13.30
11/17/2009	1210	Niobrara River above Box Butte Reservoir	25.10
11/19/2009	1222	Niobrara River nr Hay Springs	18.70
11/19/2009	3870	Niobrara River southeast of Gordon	104.00
12/11/2009	1222	Niobrara River nr Hay Springs	15.30
12/11/2009	3870	Niobrara River southeast of Gordon	104.00
12/16/2009	1210	Niobrara River above Box Butte Reservoir	18.40
12/17/2009	1230	White River @ Crawford	24.10
12/18/2009	1200	Niobrara River @ Wyoming - Nebraska State Line	2.68
12/21/2009	3720	Niobrar River near Agate	11.40
1/11/2010	3870	Niobrara River southeast of Gordon	94.00
1/12/2010	1210	Niobrara River above Box Butte Reservoir	16.20
1/15/2010	1222	Niobrara River nr Hay Springs	15.90
1/19/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.98
1/19/2010	3720	Niobrar River near Agate	10.60
1/25/2010	1230	White River @ Crawford	20.30
1/26/2010	1210	Niobrara River above Box Butte Reservoir	20.00
2/10/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.65
2/12/2010	3870	Niobrara River southeast of Gordon	111.00

2/17/2010	1222	Niobrara River nr Hay Springs	16.60
2/17/2010	1230	White River @ Crawford	27.20
3/1/2010	1222	Niobrara River nr Hay Springs	41.70
3/15/2010	1222	Niobrara River nr Hay Springs	26.80
3/15/2010	3870	Niobrara River southeast of Gordon	170.00
3/18/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	3.41
3/18/2010	3720	Niobrar River near Agate	29.10
3/29/2010	1230	White River @ Crawford	25.60
4/5/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	4.04
4/5/2010	2505	Johnson Canal from Niobrara River	0.00
4/5/2010	2510	Lakotah Canal from Niobrara River	0.00
4/5/2010	2515	Earnest Canal South from Niobrara River	0.00
4/5/2010	2520	Earnest Canal North from Niobrara River	0.00
4/5/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
4/5/2010	2530	Cook Canal #1 from Niobrara River	0.00
4/5/2010	6365	Hoover Pump fr Niobrara River	0.00
4/5/2010	6380	Cook Pump fr Niobrara River	0.00
4/6/2010	2535	Harris-Neece Canal from Niobrara River	0.00
4/6/2010	2540	Labelle Canal from Niobrara River	0.00
4/6/2010	2545	Mettlen Canal from Niobrara River	0.00
4/6/2010	3720	Niobrar River near Agate	24.40
4/9/2010	1220	Niobrara River below Box Butte Reservoir	0.93
4/12/2010	1210	Niobrara River above Box Butte Reservoir	43.00
4/12/2010	1222	Niobrara River nr Hay Springs	24.10
4/12/2010	3750	Niobrara River at old Dunlap Bridge	12.60
4/12/2010	3870	Niobrara River southeast of Gordon	120.00
4/14/2010	1230	White River @ Crawford	26.50
4/19/2010	2535	Harris-Neece Canal from Niobrara River	0.00
4/19/2010	2540	Labelle Canal from Niobrara River	0.00
4/19/2010	2545	Mettlen Canal from Niobrara River	0.00
4/19/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
4/20/2010	2505	Johnson Canal from Niobrara River	0.00
4/20/2010	2510	Lakotah Canal from Niobrara River	5.05
4/20/2010	2530	Cook Canal #1 from Niobrara River	0.00

4/20/2010	6380	Cook Pump fr Niobrara River	0.00
4/27/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	4.87
4/28/2010	3720	Niobrar River near Agate	26.30
5/3/2010	3870	Niobrara River southeast of Gordon	119.00
5/4/2010	2505	Johnson Canal from Niobrara River	0.00
5/4/2010	2520	Earnest Canal North from Niobrara River	0.00
5/4/2010	6365	Hoover Pump fr Niobrara River	0.00
5/5/2010	1210	Niobrara River above Box Butte Reservoir	33.80
5/5/2010	3750	Niobrara River at old Dunlap Bridge	13.20
5/7/2010	1230	White River @ Crawford	25.30
5/11/2010	2505	Johnson Canal from Niobrara River	0.00
5/11/2010	2520	Earnest Canal North from Niobrara River	0.00
5/11/2010	2535	Harris-Neece Canal from Niobrara River	0.00
5/11/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
5/14/2010	1210	Niobrara River above Box Butte Reservoir	43.90
5/14/2010	2580	Pioneer Canal from Niobrara River	0.00
5/14/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
5/17/2010	1230	White River @ Crawford	27.70
5/17/2010	6165	Whitney Pipeline fr White River	0.00
5/18/2010	2505	Johnson Canal from Niobrara River	0.00
5/18/2010	2515	Earnest Canal South from Niobrara River	12.80
5/18/2010	2520	Earnest Canal North from Niobrara River	4.58
5/18/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
5/18/2010	2530	Cook Canal #1 from Niobrara River	0.00
5/18/2010	2535	Harris-Neece Canal from Niobrara River	0.00
5/18/2010	2540	Labelle Canal from Niobrara River	0.00
5/18/2010	2545	Mettlen Canal from Niobrara River	0.00
5/18/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
5/18/2010	2555	Moore-Kay Canal from Niobrara River	0.00
5/18/2010	3720	Niobrar River near Agate	22.80
5/18/2010	6380	Cook Pump fr Niobrara River	0.00
5/18/2010	6400	Armstrong Pump fr Niobrara River	0.00
5/19/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	4.21

5/20/2010	2560	HitsheW Canal from Niobrara River	0.00
5/20/2010	2565	McLaughlin Canal from Niobrara River	0.00
5/20/2010	2570	Excelsior Canal from Niobrara River	0.00
5/20/2010	2580	Pioneer Canal from Niobrara River	0.00
5/20/2010	2600	Potmesil Canal from Niobrara River	0.00
5/20/2010	6440	Delsing Pump fr Niobrara River	1.02
5/20/2010	6445	Montague Canal Pump fr Niobrara River	0.00
5/27/2010	1230	White River @ Crawford	37.60
6/1/2010	2505	Johnson Canal from Niobrara River	0.00
6/1/2010	2510	Lakotah Canal from Niobrara River	3.77
6/1/2010	2515	Earnest Canal South from Niobrara River	6.66
6/1/2010	2520	Earnest Canal North from Niobrara River	0.00
6/1/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
6/1/2010	2530	Cook Canal #1 from Niobrara River	0.00
6/1/2010	2535	Harris-Neece Canal from Niobrara River	0.00
6/1/2010	2540	Labelle Canal from Niobrara River	0.00
6/1/2010	2545	Mettlen Canal from Niobrara River	0.00
6/1/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
6/1/2010	6380	Cook Pump fr Niobrara River	0.00
6/1/2010	6400	Armstrong Pump fr Niobrara River	0.00
6/2/2010	1222	Niobrara River nr Hay Springs	22.50
6/2/2010	3870	Niobrara River southeast of Gordon	104.00
6/3/2010	1210	Niobrara River above Box Butte Reservoir	30.10
6/3/2010	1220	Niobrara River below Box Butte Reservoir	1.03
6/3/2010	2560	HitsheW Canal from Niobrara River	0.00
6/3/2010	2565	McLaughlin Canal from Niobrara River	0.00
6/3/2010	2570	Excelsior Canal from Niobrara River	0.00
6/3/2010	2575	Hughes Canal from Niobrara River	0.00
6/3/2010	2580	Pioneer Canal from Niobrara River	5.99
6/3/2010	2590	Lichte Canal from Niobrara River	0.00
6/3/2010	2600	Potmesil Canal from Niobrara River	0.00
6/3/2010	3750	Niobrara River at old Dunlap Bridge	12.30
6/3/2010	6415	HitsheW Pump #2 fr Niobrara River	0.00
6/3/2010	6440	Delsing Pump fr Niobrara River	1.02

6/3/2010	6445	Montague Canal Pump fr Niobrara River	0.00
6/7/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.92
6/7/2010	1230	White River @ Crawford	30.40
6/7/2010	6365	Hoover Pump fr Niobrara River	0.00
6/8/2010	2520	Earnest Canal North from Niobrara River	0.00
6/8/2010	2525	McGinley-Stover Canal from Niobrara River	2.66
6/8/2010	2530	Cook Canal #1 from Niobrara River	0.00
6/8/2010	2535	Harris-Neece Canal from Niobrara River	0.00
6/8/2010	2545	Mettlen Canal from Niobrara River	0.00
6/8/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
6/8/2010	3720	Niobrar River near Agate	10.50
6/8/2010	6380	Cook Pump fr Niobrara River	0.00
6/8/2010	6400	Armstrong Pump fr Niobrara River	0.00
6/15/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	6.69
6/15/2010	2505	Johnson Canal from Niobrara River	0.00
6/15/2010	2515	Earnest Canal South from Niobrara River	0.00
6/15/2010	2520	Earnest Canal North from Niobrara River	0.00
6/15/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
6/15/2010	2530	Cook Canal #1 from Niobrara River	0.00
6/15/2010	2535	Harris-Neece Canal from Niobrara River	0.00
6/15/2010	2540	Labelle Canal from Niobrara River	0.67
6/15/2010	2545	Mettlen Canal from Niobrara River	0.65
6/15/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
6/16/2010	1222	Niobrara River nr Hay Springs	60.00
6/16/2010	3870	Niobrara River southeast of Gordon	480.00
6/17/2010	1210	Niobrara River above Box Butte Reservoir	54.00
6/17/2010	2560	Hitsheew Canal from Niobrara River	1.59
6/17/2010	2575	Hughes Canal from Niobrara River	1.05
6/17/2010	2580	Pioneer Canal from Niobrara River	0.00
6/17/2010	2600	Potmesil Canal from Niobrara River	0.00
6/17/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
6/17/2010	6440	Delsing Pump fr Niobrara River	0.00
6/17/2010	6445	Montague Canal Pump fr Niobrara River	0.00
6/21/2010	1230	White River @ Crawford	33.70

6/21/2010	3250	Hat Creek near Ardmore, South Dakota	15.00
6/21/2010	6105	White River Canal fr White River	0.00
6/21/2010	6130	Harris-Cooper Canal fr White River	0.00
6/21/2010	6165	Whitney Pipeline fr White River	0.00
6/22/2010	2505	Johnson Canal from Niobrara River	0.00
6/22/2010	2520	Earnest Canal North from Niobrara River	0.00
6/22/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
6/22/2010	2530	Cook Canal #1 from Niobrara River	
6/22/2010	2535	Harris-Neece Canal from Niobrara River	0.00
6/22/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
6/22/2010	2555	Moore-Kay Canal from Niobrara River	0.00
6/22/2010	3720	Niobrar River near Agate	20.00
6/22/2010	6380	Cook Pump fr Niobrara River	0.00
6/22/2010	6400	Armstrong Pump fr Niobrara River	0.00
6/23/2010	1220	Niobrara River below Box Butte Reservoir	35.00
6/23/2010	3870	Niobrara River southeast of Gordon	162.00
6/24/2010	2560	Hitsheew Canal from Niobrara River	0.00
6/24/2010	2580	Pioneer Canal from Niobrara River	0.00
6/24/2010	2590	Lichte Canal from Niobrara River	0.00
6/24/2010	2600	Potmesil Canal from Niobrara River	0.00
6/24/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
6/24/2010	6430	Wilkins Pump fr Niobrara River	0.00
6/24/2010	6435	Enterprise Pump fr Niobrara River	0.00
6/24/2010	6440	Delsing Pump fr Niobrara River	0.99
6/24/2010	6445	Montague Canal Pump fr Niobrara River	0.00
6/29/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.61
6/29/2010	2505	Johnson Canal from Niobrara River	0.00
6/29/2010	2515	Earnest Canal South from Niobrara River	0.00
6/29/2010	2520	Earnest Canal North from Niobrara River	0.00
6/29/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
6/29/2010	2530	Cook Canal #1 from Niobrara River	0.00

6/29/2010	2540	Labelle Canal from Niobrara River	0.00
6/29/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
6/29/2010	2555	Moore-Kay Canal from Niobrara River	0.00
6/29/2010	6380	Cook Pump fr Niobrara River	0.00
6/29/2010	6400	Armstrong Pump fr Niobrara River	0.00
7/1/2010	1210	Niobrara River above Box Butte Reservoir	28.00
7/1/2010	1220	Niobrara River below Box Butte Reservoir	1.27
7/1/2010	2560	Hitshew Canal from Niobrara River	0.00
7/1/2010	3750	Niobrara River at old Dunlap Bridge	14.90
7/1/2010	6425	Pioneer Pump #2 fr Niobrara River	0.71
7/6/2010	2505	Johnson Canal from Niobrara River	0.00
7/6/2010	2515	Earnest Canal South from Niobrara River	0.00
7/6/2010	2520	Earnest Canal North from Niobrara River	0.00
7/6/2010	2530	Cook Canal #1 from Niobrara River	0.00
7/6/2010	2535	Harris-Neece Canal from Niobrara River	10.10
7/6/2010	2540	Labelle Canal from Niobrara River	0.00
7/6/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
7/6/2010	2555	Moore-Kay Canal from Niobrara River	0.00
7/6/2010	3720	Niobrar River near Agate	10.70
7/6/2010	6380	Cook Pump fr Niobrara River	0.00
7/6/2010	6400	Armstrong Pump fr Niobrara River	0.00
7/7/2010	1222	Niobrara River nr Hay Springs	32.30
7/7/2010	3870	Niobrara River southeast of Gordon	126.00
7/8/2010	2560	Hitshew Canal from Niobrara River	0.00
7/8/2010	2565	McLaughlin Canal from Niobrara River	0.00
7/8/2010	2570	Excelsior Canal from Niobrara River	0.00
7/8/2010	2575	Hughes Canal from Niobrara River	0.00
7/8/2010	2600	Potmesil Canal from Niobrara River	5.75
7/8/2010	6415	Hitshew Pump #2 fr Niobrara River	0.00
7/8/2010	6430	Wilkins Pump fr Niobrara River	0.00
7/8/2010	6440	Delsing Pump fr Niobrara River	0.00
7/8/2010	6445	Montague Canal Pump fr Niobrara River	0.00
7/9/2010	1230	White River @ Crawford	25.00
7/13/2010	1222	Niobrara River nr Hay Springs	66.10

7/14/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.36
7/14/2010	2505	Johnson Canal from Niobrara River	0.00
7/14/2010	2515	Earnest Canal South from Niobrara River	0.00
7/14/2010	2520	Earnest Canal North from Niobrara River	0.00
7/14/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
7/14/2010	2530	Cook Canal #1 from Niobrara River	0.00
7/14/2010	2535	Harris-Neece Canal from Niobrara River	9.62
7/14/2010	2540	Labelle Canal from Niobrara River	0.00
7/14/2010	2545	Mettlen Canal from Niobrara River	0.00
7/14/2010	2550	Bennett-Kay Canal from Niobrara River	1.35
7/14/2010	2555	Moore-Kay Canal from Niobrara River	0.00
7/14/2010	6380	Cook Pump fr Niobrara River	0.00
7/14/2010	6400	Armstrong Pump fr Niobrara River	0.00
7/15/2010	1210	Niobrara River above Box Butte Reservoir	17.10
7/15/2010	2560	Hitshew Canal from Niobrara River	0.00
7/15/2010	2565	McLaughlin Canal from Niobrara River	0.00
7/15/2010	2570	Excelsior Canal from Niobrara River	0.00
7/15/2010	2575	Hughes Canal from Niobrara River	0.00
7/15/2010	2580	Pioneer Canal from Niobrara River	0.00
7/15/2010	2590	Lichte Canal from Niobrara River	0.00
7/15/2010	6415	Hitshew Pump #2 fr Niobrara River	0.00
7/15/2010	6440	Delsing Pump fr Niobrara River	0.00
7/15/2010	6445	Montague Canal Pump fr Niobrara River	0.00
7/19/2010	3870	Niobrara River southeast of Gordon	93.90
7/20/2010	2505	Johnson Canal from Niobrara River	2.14
7/20/2010	2510	Lakotah Canal from Niobrara River	0.00
7/20/2010	2515	Earnest Canal South from Niobrara River	0.00
7/20/2010	2520	Earnest Canal North from Niobrara River	0.00
7/20/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
7/20/2010	2530	Cook Canal #1 from Niobrara River	0.00
7/20/2010	2540	Labelle Canal from Niobrara River	0.00
7/20/2010	2545	Mettlen Canal from Niobrara River	0.00
7/20/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
7/20/2010	2555	Moore-Kay Canal from Niobrara River	0.00

7/20/2010	3720	Niobrar River near Agate	8.87
7/20/2010	6380	Cook Pump fr Niobrara River	0.00
7/20/2010	6400	Armstrong Pump fr Niobrara River	0.00
7/22/2010	1220	Niobrara River below Box Butte Reservoir	98.60
7/22/2010	2560	HitsheW Canal from Niobrara River	0.00
7/22/2010	2565	McLaughlin Canal from Niobrara River	6.59
7/22/2010	2570	Excelsior Canal from Niobrara River	0.00
7/22/2010	2580	Pioneer Canal from Niobrara River	0.00
7/22/2010	2590	Lichte Canal from Niobrara River	0.00
7/22/2010	6415	HitsheW Pump #2 fr Niobrara River	0.00
7/22/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
7/22/2010	6430	Wilkins Pump fr Niobrara River	0.00
7/22/2010	6435	Enterprise Pump fr Niobrara River	0.00
7/26/2010	3040	Hat Creek below Coffee Flood Canal	1.73
7/26/2010	3200	Hat Creek at Montrose	1.89
7/26/2010	6015	Coffee Flood Canal fr Hat Creek	0.00
7/26/2010	6035	Zimmerman Canal fr Sow Belly Canal	0.00
7/27/2010	2510	Lakotah Canal from Niobrara River	0.00
7/27/2010	2515	Earnest Canal South from Niobrara River	0.00
7/27/2010	2520	Earnest Canal North from Niobrara River	0.00
7/27/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
7/27/2010	2530	Cook Canal #1 from Niobrara River	0.00
7/27/2010	2535	Harris-Neece Canal from Niobrara River	0.00
7/27/2010	2540	Labelle Canal from Niobrara River	0.00
7/27/2010	2545	Mettlen Canal from Niobrara River	0.00
7/27/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
7/27/2010	2555	Moore-Kay Canal from Niobrara River	0.00
7/27/2010	6380	Cook Pump fr Niobrara River	0.00
7/27/2010	6400	Armstrong Pump fr Niobrara River	0.00
7/28/2010	1222	Niobrara River nr Hay Springs	19.20
7/29/2010	1210	Niobrara River above Box Butte Reservoir	16.50
7/29/2010	1220	Niobrara River below Box Butte Reservoir	160.00

7/29/2010	2560	HitsheW Canal from Niobrara River	0.00
7/29/2010	2565	McLaughlin Canal from Niobrara River	1.48
7/29/2010	2580	Pioneer Canal from Niobrara River	0.00
7/29/2010	6415	HitsheW Pump #2 fr Niobrara River	0.00
7/29/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
7/29/2010	6430	Wilkins Pump fr Niobrara River	0.00
7/29/2010	6440	Delsing Pump fr Niobrara River	0.00
7/29/2010	6445	Montague Canal Pump fr Niobrara River	0.00
7/30/2010	1230	White River @ Crawford	23.10
8/2/2010	6165	Whitney Pipeline fr White River	0.00
8/3/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	1.91
8/3/2010	2510	Lakotah Canal from Niobrara River	0.00
8/3/2010	2515	Earnest Canal South from Niobrara River	0.00
8/3/2010	2520	Earnest Canal North from Niobrara River	0.00
8/3/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
8/3/2010	2535	Harris-Neece Canal from Niobrara River	0.00
8/3/2010	2540	Labelle Canal from Niobrara River	0.00
8/3/2010	2545	Mettlen Canal from Niobrara River	0.00
8/3/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
8/3/2010	2555	Moore-Kay Canal from Niobrara River	5.83
8/3/2010	3720	Niobrara River near Agate	6.97
8/3/2010	6380	Cook Pump fr Niobrara River	1.63
8/3/2010	6400	Armstrong Pump fr Niobrara River	0.00
8/5/2010	1220	Niobrara River below Box Butte Reservoir	99.90
8/5/2010	2560	HitsheW Canal from Niobrara River	0.00
8/5/2010	2565	McLaughlin Canal from Niobrara River	1.83
8/5/2010	2570	Excelsior Canal from Niobrara River	0.00
8/5/2010	2580	Pioneer Canal from Niobrara River	0.00
8/5/2010	2585	Montague Canal from Niobrara River	0.00
8/5/2010	2590	Lichte Canal from Niobrara River	0.00
8/5/2010	2595	Mirage Flats Canal from Niobrara River	98.00
8/5/2010	6415	HitsheW Pump #2 fr Niobrara River	0.00
8/5/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00

8/5/2010	6430	Wilkins Pump fr Niobrara River	0.00
8/5/2010	6435	Enterprise Pump fr Niobrara River	0.00
8/5/2010	6440	Delsing Pump fr Niobrara River	0.00
8/9/2010	1230	White River @ Crawford	17.90
8/10/2010	2505	Johnson Canal from Niobrara River	1.82
8/10/2010	2510	Lakotah Canal from Niobrara River	0.00
8/10/2010	2515	Earnest Canal South from Niobrara River	0.00
8/10/2010	2520	Earnest Canal North from Niobrara River	0.56
8/10/2010	2525	McGinley-Stover Canal from Niobrara River	1.83
8/10/2010	2535	Harris-Neece Canal from Niobrara River	5.84
8/10/2010	2540	Labelle Canal from Niobrara River	0.00
8/10/2010	2545	Mettlen Canal from Niobrara River	0.00
8/10/2010	2550	Bennett-Kay Canal from Niobrara River	1.99
8/10/2010	2555	Moore-Kay Canal from Niobrara River	0.00
8/10/2010	6380	Cook Pump fr Niobrara River	1.10
8/10/2010	6400	Armstrong Pump fr Niobrara River	0.00
8/11/2010	1222	Niobrara River nr Hay Springs	21.10
8/11/2010	3870	Niobrara River southeast of Gordon	98.40
8/12/2010	1210	Niobrara River above Box Butte Reservoir	14.50
8/12/2010	1220	Niobrara River below Box Butte Reservoir	126.00
8/12/2010	2560	Hitshew Canal from Niobrara River	0.00
8/12/2010	2565	McLaughlin Canal from Niobrara River	0.00
8/12/2010	2570	Excelsior Canal from Niobrara River	0.00
8/12/2010	2575	Hughes Canal from Niobrara River	0.00
8/12/2010	2595	Mirage Flats Canal from Niobrara River	129.00
8/12/2010	2600	Potmesil Canal from Niobrara River	5.26
8/12/2010	6415	Hitshew Pump #2 fr Niobrara River	0.00
8/12/2010	6440	Delsing Pump fr Niobrara River	0.00
8/12/2010	6445	Montague Canal Pump fr Niobrara River	0.00
8/17/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.18
8/17/2010	2510	Lakotah Canal from Niobrara River	0.00
8/17/2010	2515	Earnest Canal South from Niobrara River	0.00
8/17/2010	2520	Earnest Canal North from Niobrara River	0.00

8/17/2010	2530	Cook Canal #1 from Niobrara River	0.00
8/17/2010	2540	Labelle Canal from Niobrara River	0.00
8/17/2010	2545	Mettlen Canal from Niobrara River	0.00
8/17/2010	2555	Moore-Kay Canal from Niobrara River	0.00
8/17/2010	6380	Cook Pump fr Niobrara River	0.00
8/17/2010	6400	Armstrong Pump fr Niobrara River	0.00
8/18/2010	6165	Whitney Pipeline fr White River	0.00
8/19/2010	1220	Niobrara River below Box Butte Reservoir	104.00
8/19/2010	2560	Hitsheew Canal from Niobrara River	0.00
8/19/2010	2565	McLaughlin Canal from Niobrara River	0.00
8/19/2010	2580	Pioneer Canal from Niobrara River	0.00
8/19/2010	2590	Lichte Canal from Niobrara River	0.00
8/19/2010	2595	Mirage Flats Canal from Niobrara River	108.00
8/19/2010	6415	Hitsheew Pump #2 fr Niobrara River	0.00
8/19/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
8/19/2010	6435	Enterprise Pump fr Niobrara River	0.00
8/19/2010	6440	Delsing Pump fr Niobrara River	0.00
8/19/2010	6445	Montague Canal Pump fr Niobrara River	3.53
8/23/2010	1230	White River @ Crawford	14.40
8/23/2010	6105	White River Canal fr White River	5.92
8/23/2010	6130	Harris-Cooper Canal fr White River	7.13
8/24/2010	2505	Johnson Canal from Niobrara River	0.00
8/24/2010	2510	Lakotah Canal from Niobrara River	0.00
8/24/2010	2515	Earnest Canal South from Niobrara River	0.00
8/24/2010	2520	Earnest Canal North from Niobrara River	0.00
8/24/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
8/24/2010	2530	Cook Canal #1 from Niobrara River	0.00
8/24/2010	2535	Harris-Neece Canal from Niobrara River	5.32
8/24/2010	2540	Labelle Canal from Niobrara River	0.00
8/24/2010	2545	Mettlen Canal from Niobrara River	0.00
8/24/2010	2550	Bennett-Kay Canal from Niobrara River	0.00

8/24/2010	2555	Moore-Kay Canal from Niobrara River	0.00
8/24/2010	3720	Niobrar River near Agate	6.21
8/24/2010	6380	Cook Pump fr Niobrara River	0.00
8/24/2010	6400	Armstrong Pump fr Niobrara River	0.00
8/25/2010	3040	Hat Creek below Coffee Flood Canal	0.33
8/25/2010	3160	Monroe Creek above Jordan Reservoir	0.00
8/25/2010	3200	Hat Creek at Montrose	0.10
8/25/2010	6015	Coffee Flood Canal fr Hat Creek	0.00
8/25/2010	6025	Andrews Supply Canal fr Sow Belly Creek	0.00
8/25/2010	6035	Zimmerman Canal fr Sow Belly Canal	0.00
8/25/2010	6045	Warbonnett Canal fr Warbonnet Creek	1.09
8/26/2010	1210	Niobrara River above Box Butte Reservoir	9.84
8/26/2010	1220	Niobrara River below Box Butte Reservoir	129.00
8/26/2010	2565	McLaughlin Canal from Niobrara River	0.00
8/26/2010	2580	Pioneer Canal from Niobrara River	0.00
8/26/2010	2595	Mirage Flats Canal from Niobrara River	138.00
8/26/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
8/26/2010	6445	Montague Canal Pump fr Niobrara River	3.53
8/27/2010	1230	White River @ Crawford	0.00
8/27/2010	6130	Harris-Cooper Canal fr White River	3.21
8/31/2010	2510	Lakotah Canal from Niobrara River	0.00
8/31/2010	2515	Earnest Canal South from Niobrara River	0.00
8/31/2010	2520	Earnest Canal North from Niobrara River	0.41
8/31/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
8/31/2010	2540	Labelle Canal from Niobrara River	0.00
8/31/2010	2545	Mettlen Canal from Niobrara River	0.00
8/31/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
8/31/2010	2555	Moore-Kay Canal from Niobrara River	0.00
8/31/2010	6380	Cook Pump fr Niobrara River	0.00
8/31/2010	6400	Armstrong Pump fr Niobrara River	0.00
9/1/2010	1222	Niobrara River nr Hay Springs	11.60
9/1/2010	3870	Niobrara River southeast of Gordon	90.50

9/2/2010	1220	Niobrara River below Box Butte Reservoir	0.96
9/2/2010	2560	Hitshew Canal from Niobrara River	0.00
9/2/2010	2565	McLaughlin Canal from Niobrara River	0.00
9/2/2010	2570	Excelsior Canal from Niobrara River	0.00
9/2/2010	2580	Pioneer Canal from Niobrara River	0.78
9/2/2010	2600	Potmesil Canal from Niobrara River	0.00
9/2/2010	6415	Hitshew Pump #2 fr Niobrara River	0.00
9/2/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
9/2/2010	6440	Delsing Pump fr Niobrara River	0.00
9/3/2010	1230	White River @ Crawford	16.10
9/7/2010	2510	Lakotah Canal from Niobrara River	0.00
9/7/2010	2515	Earnest Canal South from Niobrara River	0.00
9/7/2010	2525	McGinley-Stover Canal from Niobrara River	0.00
9/7/2010	2535	Harris-Neece Canal from Niobrara River	6.28
9/7/2010	2540	Labelle Canal from Niobrara River	0.00
9/7/2010	2545	Mettlen Canal from Niobrara River	0.00
9/7/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
9/7/2010	2555	Moore-Kay Canal from Niobrara River	0.00
9/7/2010	3720	Niobrar River near Agate	5.70
9/7/2010	6380	Cook Pump fr Niobrara River	0.00
9/7/2010	6400	Armstrong Pump fr Niobrara River	0.00
9/9/2010	2560	Hitshew Canal from Niobrara River	0.00
9/9/2010	2565	McLaughlin Canal from Niobrara River	0.00
9/9/2010	2570	Excelsior Canal from Niobrara River	0.00
9/9/2010	2580	Pioneer Canal from Niobrara River	0.00
9/9/2010	2590	Lichte Canal from Niobrara River	0.00
9/9/2010	2600	Potmesil Canal from Niobrara River	0.00
9/9/2010	6415	Hitshew Pump #2 fr Niobrara River	0.00
9/9/2010	6425	Pioneer Pump #2 fr Niobrara River	0.00
9/9/2010	6430	Wilkins Pump fr Niobrara River	0.00
9/9/2010	6440	Delsing Pump fr Niobrara River	0.00
9/9/2010	6445	Montague Canal Pump fr Niobrara River	0.00
9/15/2010	1230	White River @ Crawford	16.20
9/16/2010	1210	Niobrara River above Box Butte Reservoir	9.89

9/16/2010	2560	Hitsheew Canal from Niobrara River	0.00
9/16/2010	2565	McLaughlin Canal from Niobrara River	0.00
9/16/2010	2570	Excelsior Canal from Niobrara River	0.00
9/16/2010	2575	Hughes Canal from Niobrara River	0.00
9/16/2010	2580	Pioneer Canal from Niobrara River	0.00
9/16/2010	6415	Hitsheew Pump #2 fr Niobrara River	0.00
9/21/2010	2510	Lakotah Canal from Niobrara River	0.00
9/21/2010	2515	Earnest Canal South from Niobrara River	0.00
9/21/2010	2535	Harris-Neece Canal from Niobrara River	7.26
9/21/2010	2540	Labelle Canal from Niobrara River	0.00
9/21/2010	2545	Mettlen Canal from Niobrara River	0.00
9/21/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
9/21/2010	2555	Moore-Kay Canal from Niobrara River	3.68
9/21/2010	3720	Niobrar River near Agate	6.83
9/21/2010	6400	Armstrong Pump fr Niobrara River	0.00
9/22/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.01
9/22/2010	6365	Hoover Pump fr Niobrara River	0.00
9/23/2010	1222	Niobrara River nr Hay Springs	21.50
9/23/2010	3870	Niobrara River southeast of Gordon	103.00
9/27/2010	3040	Hat Creek below Coffee Flood Canal	1.28
9/27/2010	3110	Jim Creek @ junction w/ Warbonnett Cr	0.20
9/27/2010	3200	Hat Creek at Montrose	0.72
9/27/2010	3225	Hat Creek near Semroska	0.74
9/27/2010	3250	Hat Creek near Ardmore, South Dakota	0.03
9/27/2010	6015	Coffee Flood Canal fr Hat Creek	0.00
9/27/2010	6025	Andrews Supply Canal fr Sow Belly Creek	0.00
9/27/2010	6035	Zimmerman Canal fr Sow Belly Canal	0.00
9/27/2010	6045	Warbonnett Canal fr Warbonnet Creek	0.00
9/28/2010	2505	Johnson Canal from Niobrara River	1.63
9/28/2010	2515	Earnest Canal South from Niobrara River	0.00
9/28/2010	2520	Earnest Canal North from Niobrara River	0.52
9/28/2010	2540	Labelle Canal from Niobrara River	0.00
9/28/2010	2545	Mettlen Canal from Niobrara River	0.00

9/28/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
9/28/2010	2555	Moore-Kay Canal from Niobrara River	0.00
10/5/2010	1230	White River @ Crawford	15.80
10/6/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.14
10/6/2010	2505	Johnson Canal from Niobrara River	0.00
10/6/2010	2515	Earnest Canal South from Niobrara River	0.00
10/6/2010	2535	Harris-Neece Canal from Niobrara River	7.83
10/6/2010	2540	Labelle Canal from Niobrara River	0.00
10/6/2010	2545	Mettlen Canal from Niobrara River	0.00
10/6/2010	2550	Bennett-Kay Canal from Niobrara River	0.00
10/6/2010	2555	Moore-Kay Canal from Niobrara River	0.00
10/6/2010	3720	Niobrara River near Agate	7.77
10/7/2010	2560	Hitschew Canal from Niobrara River	0.00
10/7/2010	2565	McLaughlin Canal from Niobrara River	0.00
10/7/2010	2580	Pioneer Canal from Niobrara River	0.00
10/13/2010	1222	Niobrara River nr Hay Springs	19.80
10/13/2010	3870	Niobrara River southeast of Gordon	94.90
10/19/2010	3040	Hat Creek below Coffee Flood Canal	1.47
10/19/2010	3200	Hat Creek at Montrose	2.01
10/19/2010	3250	Hat Creek near Ardmore, South Dakota	1.80
10/21/2010	2535	Harris-Neece Canal from Niobrara River	0.00
11/2/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.68
11/2/2010	3720	Niobrara River near Agate	7.88
11/3/2010	1210	Niobrara River above Box Butte Reservoir	20.50
11/9/2010	1222	Niobrara River nr Hay Springs	22.00
11/9/2010	3870	Niobrara River southeast of Gordon	104.00
11/10/2010	1230	White River @ Crawford	23.30
12/2/2010	1210	Niobrara River above Box Butte Reservoir	21.10
12/3/2010	1222	Niobrara River nr Hay Springs	22.60
12/3/2010	3870	Niobrara River southeast of Gordon	106.00
12/14/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.91
12/14/2010	3720	Niobrara River near Agate	13.80
12/27/2010	1230	White River @ Crawford	25.80

12/28/2010	1200	Niobrara River @ Wyoming - Nebraska State Line	2.89
12/28/2010	1210	Niobrara River above Box Butte Reservoir	18.70
12/28/2010	3720	Niobrar River near Agate	12.70
12/29/2010	1222	Niobrara River nr Hay Springs	19.90
12/29/2010	3870	Niobrara River southeast of Gordon	105.00
1/18/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	3.60
1/18/2011	3720	Niobrar River near Agate	14.10
1/20/2011	1210	Niobrara River above Box Butte Reservoir	14.30
1/20/2011	1220	Niobrara River below Box Butte Reservoir	
1/24/2011	1230	White River @ Crawford	26.10
2/2/2011	1222	Niobrara River nr Hay Springs	23.70
2/2/2011	3870	Niobrara River southeast of Gordon	111.00
2/14/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	5.69
2/15/2011	1210	Niobrara River above Box Butte Reservoir	22.70
2/15/2011	1220	Niobrara River below Box Butte Reservoir	
2/15/2011	3720	Niobrar River near Agate	16.50
2/16/2011	1230	White River @ Crawford	44.00
2/17/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	95.40
2/17/2011	3720	Niobrar River near Agate	37.40
2/18/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	14.20
2/18/2011	3720	Niobrar River near Agate	154.90
2/22/2011	3200	Hat Creek at Montrose	5.59
2/22/2011	6015	Coffee Flood Canal fr Hat Creek	0.00
2/28/2011	1222	Niobrara River nr Hay Springs	22.90
2/28/2011	3870	Niobrara River southeast of Gordon	131.00
3/2/2011	1210	Niobrara River above Box Butte Reservoir	51.70
3/3/2011	1230	White River @ Crawford	30.00
3/15/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	25.00
3/15/2011	3720	Niobrar River near Agate	102.00
3/16/2011	1230	White River @ Crawford	28.40
3/17/2011	1210	Niobrara River above Box Butte Reservoir	51.90

3/21/2011	1210	Niobrara River above Box Butte Reservoir	69.70
3/23/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	22.20
3/23/2011	3720	Niobrara River near Agate	26.80
3/28/2011	6165	Whitney Pipeline fr White River	0.00
4/4/2011	1222	Niobrara River nr Hay Springs	24.10
4/4/2011	3870	Niobrara River southeast of Gordon	125.00
4/5/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	5.02
4/5/2011	2505	Johnson Canal from Niobrara River	0.00
4/5/2011	2510	Lakotah Canal from Niobrara River	0.00
4/5/2011	6365	Hoover Pump fr Niobrara River	0.00
4/6/2011	2525	McGinley-Stover Canal from Niobrara River	0.00
4/6/2011	2530	Cook Canal #1 from Niobrara River	0.00
4/6/2011	2535	Harris-Neece Canal from Niobrara River	0.00
4/6/2011	2540	Labelle Canal from Niobrara River	0.00
4/6/2011	2545	Mettlen Canal from Niobrara River	0.00
4/6/2011	3720	Niobrara River near Agate	17.40
4/6/2011	6380	Cook Pump fr Niobrara River	0.00
4/7/2011	2515	Earnest Canal South from Niobrara River	5.35
4/7/2011	2520	Earnest Canal North from Niobrara River	2.55
4/12/2011	1230	White River @ Crawford	26.00
4/28/2011	1210	Niobrara River above Box Butte Reservoir	38.40
4/28/2011	2565	McLaughlin Canal from Niobrara River	0.00
4/28/2011	2570	Excelsior Canal from Niobrara River	0.00
4/28/2011	2580	Pioneer Canal from Niobrara River	0.00
5/2/2011	1230	White River @ Crawford	23.70
5/4/2011	2515	Earnest Canal South from Niobrara River	0.00
5/4/2011	2520	Earnest Canal North from Niobrara River	0.00
5/4/2011	2535	Harris-Neece Canal from Niobrara River	0.00
5/4/2011	2540	Labelle Canal from Niobrara River	0.00
5/4/2011	2545	Mettlen Canal from Niobrara River	0.00
5/4/2011	2550	Bennett-Kay Canal from Niobrara River	0.00
5/4/2011	2555	Moore-Kay Canal from Niobrara River	0.00

5/4/2011	3720	Niobrar River near Agate	18.30
5/5/2011	2560	Hitsheew Canal from Niobrara River	0.00
5/5/2011	2565	McLaughlin Canal from Niobrara River	0.00
5/5/2011	2570	Excelsior Canal from Niobrara River	0.00
5/5/2011	2580	Pioneer Canal from Niobrara River	0.00
5/9/2011	1222	Niobrara River nr Hay Springs	22.70
5/9/2011	3870	Niobrara River southeast of Gordon	118.00
5/10/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	4.89
5/10/2011	2505	Johnson Canal from Niobrara River	0.00
5/10/2011	2510	Lakotah Canal from Niobrara River	0.00
5/10/2011	2515	Earnest Canal South from Niobrara River	0.00
5/10/2011	2520	Earnest Canal North from Niobrara River	0.00
5/10/2011	2535	Harris-Neece Canal from Niobrara River	13.70
5/10/2011	2540	Labelle Canal from Niobrara River	0.00
5/10/2011	2545	Mettlen Canal from Niobrara River	0.00
5/10/2011	2550	Bennett-Kay Canal from Niobrara River	0.00
5/10/2011	2555	Moore-Kay Canal from Niobrara River	0.00
5/10/2011	6400	Armstrong Pump fr Niobrara River	0.00
5/13/2011	1210	Niobrara River above Box Butte Reservoir	41.10
5/13/2011	1220	Niobrara River below Box Butte Reservoir	1.08
5/13/2011	2565	McLaughlin Canal from Niobrara River	0.00
5/13/2011	2580	Pioneer Canal from Niobrara River	2.39
5/13/2011	2600	Potmesil Canal from Niobrara River	0.00
5/13/2011	3750	Niobrara River at old Dunlap Bridge	14.50
5/13/2011	6440	Delsing Pump fr Niobrara River	0.00
5/13/2011	6445	Montague Canal Pump fr Niobrara River	0.00
5/16/2011	1230	White River @ Crawford	26.80
5/17/2011	2505	Johnson Canal from Niobrara River	0.00
5/17/2011	2510	Lakotah Canal from Niobrara River	0.00
5/17/2011	2515	Earnest Canal South from Niobrara River	0.00
5/17/2011	2520	Earnest Canal North from Niobrara River	0.00
5/17/2011	2525	McGinley-Stover Canal from Niobrara River	0.00
5/17/2011	2530	Cook Canal #1 from Niobrara River	0.00
5/17/2011	2535	Harris-Neece Canal from Niobrara River	9.63

5/17/2011	2540	Labelle Canal from Niobrara River	0.00
5/17/2011	2545	Mettlen Canal from Niobrara River	0.00
5/17/2011	2550	Bennett-Kay Canal from Niobrara River	0.00
5/17/2011	2555	Moore-Kay Canal from Niobrara River	0.00
5/17/2011	3720	Niobrar River near Agate	23.40
5/17/2011	6380	Cook Pump fr Niobrara River	0.00
5/17/2011	6400	Armstrong Pump fr Niobrara River	0.00
5/18/2011	2565	McLaughlin Canal from Niobrara River	0.00
5/18/2011	2580	Pioneer Canal from Niobrara River	0.00
5/18/2011	2590	Lichte Canal from Niobrara River	0.00
5/23/2011	1222	Niobrara River nr Hay Springs	36.60
5/23/2011	3870	Niobrara River southeast of Gordon	161.00
5/24/2011	1200	Niobrara River @ Wyoming - Nebraska State Line	10.80
5/24/2011	2515	Earnest Canal South from Niobrara River	0.00
5/24/2011	2520	Earnest Canal North from Niobrara River	0.00
5/24/2011	2540	Labelle Canal from Niobrara River	0.00
5/24/2011	2540	Labelle Canal from Niobrara River	0.00
5/24/2011	2550	Bennett-Kay Canal from Niobrara River	0.00
5/24/2011	2555	Moore-Kay Canal from Niobrara River	0.00
5/24/2011	6380	Cook Pump fr Niobrara River	0.00
5/25/2011	1210	Niobrara River above Box Butte Reservoir	92.50
5/31/2011	2505	Johnson Canal from Niobrara River	0.00
5/31/2011	2510	Lakotah Canal from Niobrara River	6.64
5/31/2011	2515	Earnest Canal South from Niobrara River	0.00
5/31/2011	2520	Earnest Canal North from Niobrara River	0.00
5/31/2011	2530	Cook Canal #1 from Niobrara River	0.00
5/31/2011	2535	Harris-Neece Canal from Niobrara River	8.74
5/31/2011	2540	Labelle Canal from Niobrara River	0.00
5/31/2011	2545	Mettlen Canal from Niobrara River	0.00
5/31/2011	2550	Bennett-Kay Canal from Niobrara River	0.00
5/31/2011	2555	Moore-Kay Canal from Niobrara River	0.00
5/31/2011	3720	Niobrar River near Agate	25.10
5/31/2011	6380	Cook Pump fr Niobrara River	0.00
5/31/2011	6400	Armstrong Pump fr Niobrara River	0.00

Appendix 7

Municipal Pumping and Consumption Analysis

IMP Report 24 August 2012

Total Ground Water Consumed						
Year	Harrison	Crawford	Chadron	Hemingford	Alliance	Totals
2001-2002	42,659,770.00	2,317,170.85	290,590,000.00	92,127,600.00	939,049,000.00	1,366,743,540.85
2002-2003	32,881,170.00	1,134,426.67	205,370,000.00	73,471,700.00	747,359,000.00	1,060,216,296.67
2003-2004	38,736,290.00	1,139,258.38	222,540,000.00	80,977,600.00	762,402,000.00	1,105,795,148.38
2004-2005	30,832,360.00	989,245.19	167,290,000.00	73,997,700.00	700,382,000.00	973,491,305.19
2005-2006	34,191,160.00	3,397,553.26	213,950,000.00	73,666,200.00	854,551,000.00	1,179,755,913.26
Baseline Average	35,860,150.00	1,795,530.87	219,948,000.00	78,848,160.00	800,748,600.00	1,137,200,440.87
2006-2007	33,515,350.00	6,098,591.49	215,840,000.00	62,344,500.00	755,301,000.00	1,073,099,441.49
2007-2008	30,508,130.00	6,178,706.41	252,880,000.00	62,902,801.00	726,318,000.00	1,078,787,637.41
2008-2009	28,186,390.00	1,460,376.57	170,430,000.00	62,396,468.00	572,650,000.00	835,123,234.57
2009-2010	23,009,380.00	1,883,287.76	78,112,467.72	63,859,442.00	528,620,000.00	695,484,577.48
2010-2011	28,995,660.00	407,234.35	22,194,626.27	59,925,360.00	553,488,000.00	665,010,880.62
5 Year Average	28,842,982.00	3,205,639.32	147,891,418.80	62,285,714.20	627,275,400.00	869,501,154.31
2011-2012	35,879,760.00	2,673,073.78	92,617,749.00	76,119,700.00	698,624,000.00	905,914,282.78
2001-2012 Total	359,395,420.00	27,678,924.71	1,931,814,842.99	781,789,071.00	7,838,744,000.00	10,939,422,258.70

Total Ground Water Consumed per person per day						
Year	Harrison	Crawford	Chadron	Hemingford	Alliance	Averages
2001-2002	442.71	5.75	140.73	263.20	295.58	229.59
2002-2003	333.65	2.84	99.04	209.90	236.82	176.45
2003-2004	383.13	2.85	107.49	237.79	247.46	195.74
2004-2005	316.38	2.54	83.44	222.05	232.25	171.33
2005-2006	352.16	8.81	108.17	224.50	287.30	196.19
Baseline Average	365.61	4.56	107.77	231.49	259.88	193.86
2006-2007	357.29	15.99	110.57	192.13	256.61	186.52
2007-2008	327.78	16.37	126.82	193.42	246.09	182.10
2008-2009	312.64	3.91	86.28	192.29	192.93	157.61
2009-2010	262.66	5.01	39.36	201.33	180.99	137.87
2010-2011	316.49	1.12	6.39	204.46	189.50	143.59
5 Year Average	315.37	8.48	73.88	196.73	213.22	161.54
2011-2012	391.64	7.35	43.37	259.71	239.19	188.25
2001-2012 Avg.	345.14	6.59	86.51	218.25	236.79	178.66