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

2010

Integrated Management Plan Annual Meeting June 2011

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 or studies as outlined in the IMP.

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

UNWNRD Reporting: Permitting

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

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

1) Ground Water Permitting

The following ground water permits were granted in 2010:

1) Replacement well permits

    a. 10 Replacement Irrigation
    b. 1 Replacement Public Water Supply
    c. 2 Replacement Commercial/Industrial

2) New well permits

    a. 2 New Public Water Supply

3) Ground Water Variances

The following ground water variances were requested in 2010:

Eugene & Elinor Vejraska Trust Variance: Vejraska is requesting a variance to transfer beyond an adjacent section. John Burke moved to deny the Vejraska variance request; Tod Dorshorst seconded the motion. PASS (February 2010)

Barbary Marcy Transfer: Marcy is requesting to transfer part of an allocation to allow for better irrigation of an alfalfa pivot. The transfer is to the adjacent section. John Burke moved to approve the Marcy transfer request; Tod Dorshorst seconded the motion. PASS (February 2010)

City of Alliance Variance: The City of Alliance had a well permit expire and they were unaware that there was an expiration date. They requested a variance for a late well permit for the expired well permit. John Burke moved to approve the City of Alliance variance; Tod Dorshorst seconded the motion. PASS (March 2010)

Bobby Stanko Transfer: Bobby Stanko is proposing to move a 124 acre pivot to the North, install a 91 acre ¾ pivot and discontinue two siderolls. The acres currently being irrigated will be dried up. There is no change in certified acres. John Burke moved to approve Stanko's transfer request; Curt Roth seconded the motion. PASS (May 2010)

Lee Farming & Harvesting Transfer: Lee Farming & Harvesting Inc. is requesting to transfer 14.51 acre-inches from SW1/4 5-29-46 which would result in 27.02 acre-inches added to the allocation in NW1/4 10-29-49. Everything falls within our requirements. John Burke moved to approve the request for transfer of allocation; Tod Dorshorst seconded the motion. PASS (July 2010)

Brian and Darren Jelinek are requesting a variance to transfer a well and acres beyond the three-mile limitation. Brian offered testimony stating that his well needs to be replaced and the ground that the well is currently on is highly erodible and it is next to Highway 385. This presents a problem when the wind blows and they are unable to control wind erosion. John Burke moved to deny the variance request to transfer beyond the three-mile limitation; Tod Dorshorst seconded the motion. PASS (September 2010)

NE Department of Veterans' Affairs Variance: A new well would be installed to provide a potable source of water for the Nebraska Veterans Cemetery at Alliance which is classified as a transient, non-community public water supply system. This well would supply water for domestic use. The normal operating conditions would be less than 10 gpm. However, the peak demand as required by the IMC plumbing code is 85 gpm. It is highly unlikely that this situation would occur and if it occurs, the maximum capacity of the well would be reached for a short duration. John Burke moved to approve the NE Department of Veterans' Affairs Variance for 85 gpm; Tod Dorshorst seconded the motion. PASS (December 2010)

Duane Sandberg is requesting to transfer irrigated acres from sections 4 and 8 to facilitate the installation of a center pivot in section 5. All acres are within the 3-mile requirement and the report of title shows no liens against the property. There is no net change in irrigated acres. John Burke moved to approve Sandberg's transfer request; Tod Dorshorst seconded the motion. PASS (December 2010)

4) Ground Water Uses

No new ground water uses were granted in 2010.

Current Studies

Currently, DNR and UNWNRD have several joint/cooperative studies:
1) Niobrara Hydrogeologic and Hydrostratigraphic Framework Study
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 is intended to finish at the end of June 2010.

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

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 in development stage.

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
July 19, 2011

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

Reporting and exchanging information gathered from monitoring projects, streamflow data, or other studies provides a basis to increase understanding of the surface water and hydrologically connected groundwater system. As surface and groundwater are hydrologically connected throughout much of the district, estimates of water quantity of either surface or groundwater cannot be evaluated separately. The data gathered through this 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 2010 surface water diversion records are in Appendix A.

2) Non-gaged Stream Measurements
The 2010 non-gaged stream measurements are in Appendix B.

Municipal consumptive use measurements are in Appendix C.

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 2010.

2) Surface Water Variances
No surface water variances were granted in 2010.

3) New Surface Water Uses
No new surface water uses were granted in 2010.

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 within two years.

Appendix A

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

DISCHARGE (CFS), WATER YEAR 2010

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	0.39	0.00	0.00
9	---	---	---	---	---	---	---	0.00	0.00	1.1	0.73	0.00
10	---	---	---	---	---	---	---	0.00	0.00	1.4	1.3	0.00
11	---	---	---	---	---	---	---	0.00	0.00	1.3	0.04	0.00
12	---	---	---	---	---	---	---	0.00	0.00	1.3	0.34	0.00
13	---	---	---	---	---	---	---	0.00	0.00	1.3	1.6	0.00
14	---	---	---	---	---	---	---	0.00	0.00	1.3	1.8	0.00
15	---	---	---	---	---	---	---	0.00	0.00	1.3	1.3	0.00
16	---	---	---	---	---	---	---	0.00	0.00	1.3	1.1	0.00
17	---	---	---	---	---	---	---	0.00	0.00	1.3	1.5	0.00
18	---	---	---	---	---	---	---	0.00	0.00	1.3	1.8	0.00
19	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.7	0.00
20	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.8	0.00
21	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.2	0.00
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
24	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
25	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.1	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.20	0.00
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	0	0	13.29	23.01	0
MEAN	---	---	---	---	---	---	0.000	0.000	0.000	0.44	0.74	0.000
MAX	---	---	---	---	---	---	0.00	0.00	0.00	1.4	1.8	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	26	46	0.00

CAL YEAR 2009	TOTAL	47	MEAN	0.29	MAX	2.1	MIN	0.000	AC-FT 92
WTR YEAR 2010	TOTAL	36	MEAN	0.22	MAX	1.8	MIN	0.000	AC-FT 72

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

DISCHARGE (CFS), WATER YEAR 2010

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	0.00
21	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0.000	---	---	---	---	---	---	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00

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

CAL YEAR 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

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

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	0.00	0.00	0.00	0.42
2	0.00	---	---	---	---	---	---	---	0.00	0.00	0.00	0.42
3	0.00	---	---	---	---	---	---	---	0.00	0.00	0.00	0.36
4	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.34
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.44
6	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.49
7	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.51
8	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.52
9	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.52
10	---	---	---	---	---	---	---	0.00	0.00	0.00	0.57	0.48
11	---	---	---	---	---	---	---	0.00	0.00	0.00	0.48	0.40
12	---	---	---	---	---	---	---	0.48	0.00	0.00	0.64	0.35
13	---	---	---	---	---	---	---	0.50	0.00	0.00	0.59	0.37
14	---	---	---	---	---	---	---	0.53	0.00	0.00	0.40	0.25
15	---	---	---	---	---	---	---	0.55	0.07	0.00	0.21	0.00
16	---	---	---	---	---	---	---	0.53	0.03	0.00	0.28	0.00
17	---	---	---	---	---	---	---	1.1	0.00	0.00	0.08	0.00
18	---	---	---	---	---	---	---	1.9	0.00	0.00	0.00	0.00
19	---	---	---	---	---	---	---	3.4	0.00	0.00	0.00	0.12
20	---	---	---	---	---	---	---	1.9	0.00	0.00	0.00	0.10
21	---	---	---	---	---	---	---	1.1	0.00	0.00	0.00	0.23
22	---	---	---	---	---	---	---	0.58	0.00	0.00	0.00	0.26
23	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.39
24	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.52
25	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.66
26	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.67
27	---	---	---	---	---	---	---	0.00	0.00	0.00	0.01	0.54
28	---	---	---	---	---	---	---	0.00	0.00	0.00	0.01	0.44
29	---	---	---	---	---	---	---	0.00	0.00	0.00	0.11	0.32
30	---	---	---	---	---	---	---	0.00	0.00	0.00	0.26	0.18
31	---	---	---	---	---	---	---	0.00	---	0.00	0.36	---
TOTAL	0	0	0	0	0	0	0	12.57	0.1	0	4	10.3
MEAN	0.000	---	---	---	---	---	---	0.45	0.003	0.000	0.13	0.34
MAX	0.00	---	---	---	---	---	---	3.4	0.07	0.00	0.64	0.67

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	25	0.2	0.00	7.9	20

CAL YEAR 2009	TOTAL	151	MEAN	0.93	MAX	5.2	MIN	0.000	AC-FT	299
WTR YEAR 2010	TOTAL	27	MEAN	0.17	MAX	3.4	MIN	0.000	AC-FT	53

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

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	7.8	0.00	0.00	0.00
2	0.00	---	---	---	---	---	---	---	7.6	0.00	0.00	0.00
3	0.00	---	---	---	---	---	---	---	7.6	0.00	0.00	0.00
4	0.00	---	---	---	---	---	---	0.00	7.7	0.00	0.00	0.00
5	0.00	---	---	---	---	---	---	0.00	7.6	0.00	0.00	0.00
6	0.00	---	---	---	---	---	---	0.00	7.2	0.00	0.00	0.00
7	---	---	---	---	---	---	---	0.00	7.0	0.00	0.00	0.00
8	---	---	---	---	---	---	---	0.00	5.7	0.00	0.00	0.00
9	---	---	---	---	---	---	---	0.00	3.3	0.00	0.00	0.00
10	---	---	---	---	---	---	---	0.00	3.1	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	---	---	---	---	---	---	---	8.1	0.00	0.00	0.00	0.00
18	---	---	---	---	---	---	---	12	0.00	0.00	0.00	0.00
19	---	---	---	---	---	---	---	10	0.00	0.00	0.00	0.00
20	---	---	---	---	---	---	---	8.9	0.00	0.00	0.00	0.00
21	---	---	---	---	---	---	---	9.1	0.00	0.00	0.00	0.00
22	---	---	---	---	---	---	---	9.0	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	---	9.0	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	---	8.3	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	---	7.7	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	---	7.5	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	---	7.4	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	---	8.6	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	---	9.2	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	---	8.4	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	7.9	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	131.1	64.6	0	0	0
MEAN	0.000	---	---	---	---	---	---	4.7	2.1	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	12	7.8	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	260	128	0.00	0.00	0.00

CAL YEAR 2009	TOTAL	40	MEAN	0.25	MAX	3.7	MIN	0.000	AC-FT 80
WTR YEAR 2010	TOTAL	196	MEAN	1.3	MAX	12.0	MIN	0.000	AC-FT 388

46000 Excelsior Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

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
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	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	---
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
21	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
22	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
23	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
24	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
25	---	---	---	---	---	---	---	0.00	0.00	0.00	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	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 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

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

DISCHARGE (CFS), WATER YEAR 2010

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
10	---	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00
11	---	---	---	---	---	---	---	---	0.09	0.00	0.00	0.00
12	---	---	---	---	---	---	---	---	0.12	0.00	0.00	0.00
13	---	---	---	---	---	---	---	---	0.50e	0.00	0.00	0.00
14	---	---	---	---	---	---	---	---	0.65e	0.00	0.00	0.00
15	---	---	---	---	---	---	---	---	1.0e	0.00	0.00	0.00
16	---	---	---	---	---	---	---	---	1.3e	0.00	0.00	0.00
17	---	---	---	---	---	---	---	---	1.1e	0.00	0.00	0.00
18	---	---	---	---	---	---	---	---	0.24	0.00	0.00	0.00
19	---	---	---	---	---	---	---	---	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	---	---	---	---	---	---	---	0.02	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	---	0.76	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	---	0.38	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	---	0.23	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	---	0.18	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	1.57	5	0	0	0
MEAN	0.000	---	---	---	---	---	---	0.13	0.17	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.76	1.3	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	3.1	9.9	0.00	0.00	0.00

CAL YEAR 2009	TOTAL	1	MEAN	0.006	MAX	0.18	MIN	0.000	AC-FT 1.7
WTR YEAR 2010	TOTAL	7	MEAN	0.046	MAX	1.3	MIN	0.000	AC-FT 13

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

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00	11	0.00	4.9
2	0.00	---	---	---	---	---	---	0.00	0.00	9.6	0.00	5.1
3	0.00	---	---	---	---	---	---	0.00	0.00	8.4	0.00	5.3
4	0.00	---	---	---	---	---	---	0.00	0.00	8.9	0.00	5.5
5	0.00	---	---	---	---	---	---	0.00	0.00	9.4	0.00	5.8
6	0.00	---	---	---	---	---	---	0.00	0.00	9.5	5.6	6.0
7	---	---	---	---	---	---	---	0.00	0.00	9.5	6.3	6.2
8	---	---	---	---	---	---	---	0.00	0.00	9.0	6.2	6.1
9	---	---	---	---	---	---	---	0.00	0.00	8.8	5.8	6.0
10	---	---	---	---	---	---	---	0.00	0.00	8.7	5.5	6.0
11	---	---	---	---	---	---	---	0.00	0.00	8.8	5.3	6.2
12	---	---	---	---	---	---	---	0.00	0.00	10	4.9	6.2
13	---	---	---	---	---	---	---	0.00	0.00	9.9	4.7	6.2
14	---	---	---	---	---	---	---	0.00	0.00	9.7	5.0	6.3
15	---	---	---	---	---	---	---	0.00	0.00	10.0	4.6	6.4
16	---	---	---	---	---	---	---	0.00	0.00	9.9	4.7	6.4
17	---	---	---	---	---	---	---	0.00	0.00	8.4	5.2	6.6
18	---	---	---	---	---	---	---	0.00	0.00	8.9	5.2	6.6
19	---	---	---	---	---	---	0.00	0.00	0.00	9.6	5.2	6.9
20	---	---	---	---	---	---	0.00	6.4	0.00	9.5	5.9	7.3
21	---	---	---	---	---	---	0.00	12	0.00	9.5	6.1	7.3
22	---	---	---	---	---	---	0.00	11	0.00	9.9	5.9	7.4
23	---	---	---	---	---	---	0.00	11	0.00	10	5.6	7.6
24	---	---	---	---	---	---	0.00	12	0.00	10	5.4	7.9
25	---	---	---	---	---	---	0.00	9.2	0.00	8.6	5.7	8.3
26	---	---	---	---	---	---	0.00	0.00	0.00	2.8	5.9	8.4
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	6.0	7.9
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	6.2	7.6
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	6.3	7.6
30	---	---	---	---	---	---	0.00	0.00	12	0.00	4.4	7.6
31	---	---	---	---	---	---	---	0.00	---	0.00	4.5	---
TOTAL	0	0	0	0	0	0	0	61.6	12	238.3	142.1	199.6
MEAN	0.000	---	---	---	---	---	0.000	2.0	0.39	7.7	4.6	6.6
MAX	0.00	---	---	---	---	---	0.00	12	12	11	6.3	8.4

MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	4.9
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	122	24	473	282	396

CAL YEAR 2009 TOTAL 615 MEAN 3.8 MAX 16.0 MIN 0.000 AC-FT 1219
WTR YEAR 2010 TOTAL 654 MEAN 3.8 MAX 12.0 MIN 0.000 AC-FT 1296

69000 Hughes Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	---	0.00	0.00	0.00
2	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	---	---	---	---	---	---	---	0.01	0.00	0.00	0.00
10	0.00	---	---	---	---	---	---	---	0.07	0.00	0.00	0.00
11	0.00	---	---	---	---	---	---	---	0.34	0.00	0.00	0.00
12	0.00	---	---	---	---	---	---	---	0.46	0.00	0.00	0.00
13	---	---	---	---	---	---	---	---	0.60	0.00	0.00	0.00
14	---	---	---	---	---	---	---	---	0.74	0.00	0.00	0.00
15	---	---	---	---	---	---	---	---	0.92	0.00	0.00	0.00
16	---	---	---	---	---	---	---	---	1.0	0.00	0.00	0.00
17	---	---	---	---	---	---	---	---	1.0	0.00	0.00	---
18	---	---	---	---	---	---	---	---	0.75	0.00	0.00	---
19	---	---	---	---	---	---	---	---	0.70	0.00	0.00	---
20	---	---	---	---	---	---	---	---	0.54	0.00	0.00	---
21	---	---	---	---	---	---	---	---	0.42	0.00	0.00	---
22	---	---	---	---	---	---	---	---	0.41	0.00	0.00	---
23	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
24	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
25	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
26	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
27	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
28	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
29	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
30	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
31	---	---	---	---	---	---	---	---	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	0	7.96	0	0	0
MEAN	0.000	---	---	---	---	---	---	---	0.29	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	---	1.0	0.00	0.00	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	16	0.00	0.00	0.00

CAL YEAR 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2010 TOTAL 8 MEAN 0.067 MAX 1.0 MIN 0.000 AC-FT 16

72000 Johnson Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	0.00	0.00	0.00	1.3e	2.4
2	---	---	---	---	---	---	---	0.00	0.00	0.00	1.3e	2.5
3	---	---	---	---	---	---	---	0.00	0.00	0.00	1.2	2.6
4	---	---	---	---	---	---	---	0.00	0.00	0.00	1.7	2.6
5	---	---	---	---	---	---	---	0.00	0.00	0.00	1.7	2.7
6	---	---	---	---	---	---	---	0.00	0.00	0.00	1.8	2.7
7	---	---	---	---	---	---	---	0.00	0.00	0.00	1.6	2.8
8	---	---	---	---	---	---	---	0.00	0.00	0.00	1.6	2.8
9	---	---	---	---	---	---	---	0.00	0.00	0.00	1.7	2.9
10	---	---	---	---	---	---	---	0.00	0.00	0.00	1.8	2.9
11	---	---	---	---	---	---	---	0.00	0.00	0.00	1.6	3.0
12	---	---	---	---	---	---	---	0.00	0.00	0.00	1.5	3.1
13	---	---	---	---	---	---	---	0.00	0.00	0.00	1.5	3.2
14	---	---	---	---	---	---	---	0.00	0.00	1.7	1.5	3.3
15	---	---	---	---	---	---	---	0.00	0.00	3.3	1.5	3.3e
16	---	---	---	---	---	---	---	0.00	0.00	2.4	1.6	3.3e
17	---	---	---	---	---	---	---	0.00	0.00	2.1	1.7	3.8e
18	---	---	---	---	---	---	---	0.00	0.00	2.1	1.8	4.2e
19	---	---	---	---	---	---	---	0.00	0.00	2.1	1.9	4.8e
20	---	---	---	---	---	---	0.00	0.00	0.00	2.1	1.9	5.0e
21	---	---	---	---	---	---	0.00	0.00	0.00	2.0	1.9	5.2
22	---	---	---	---	---	---	0.00	0.00	0.00	1.8	1.9	5.2
23	---	---	---	---	---	---	0.00	0.00	0.00	1.2	1.8	5.7
24	---	---	---	---	---	---	0.00	0.00	0.00	0.93	1.8	7.1
25	---	---	---	---	---	---	0.00	0.00	0.00	0.97	1.9	27
26	---	---	---	---	---	---	0.00	0.00	0.00	1.0	2.0	1.6
27	---	---	---	---	---	---	0.00	0.00	0.00	1.1	2.2	1.6
28	---	---	---	---	---	---	0.00	0.00	0.00	1.2	2.2	1.6
29	---	---	---	---	---	---	0.00	0.00	0.00	1.2e	2.3	0.87
30	---	---	---	---	---	---	0.00	0.00	0.00	1.2e	2.3	10
31	---	---	---	---	---	---	---	0.00	---	1.2e	2.3	---
TOTAL	0	0	0	0	0	0	0	0	0	29.6	54.8	129.77
MEAN	---	---	---	---	---	---	0.000	0.000	0.000	0.96	1.8	4.3
MAX	---	---	---	---	---	---	0.00	0.00	0.00	3.3	2.3	27

MIN	---	---	---	---	---	---	0.00	0.00	0.00	0.00	1.2	0.87
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59	109	257

CAL YEAR 2009 TOTAL 156 MEAN 1.0 MAX 18.0 MIN 0.000 AC-FT 310
WTR YEAR 2010 TOTAL 214 MEAN 1.3 MAX 27.0 MIN 0.000 AC-FT 425

78000 Labelle Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

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	0.47	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	0.86	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	0.61	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.00	0.64	0.00	0.00	0.00
17	---	---	---	---	---	---	---	0.00	0.59	0.00	0.00	0.00
18	---	---	---	---	---	---	---	0.00	0.38	0.00	0.00	0.00
19	---	---	---	---	---	---	0.00	0.00	0.24	0.00	0.00	0.00
20	---	---	---	---	---	---	0.00	0.00	0.16	0.00	0.00	0.00
21	---	---	---	---	---	---	0.00	0.00	0.08	0.00	0.00	0.00
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	0.00	3.1	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	0.00	0.30	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	3.4	4.03	0	0	0
MEAN	0.000	---	---	---	---	---	---	0.000	0.11	0.13	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	---	0.00	3.1	0.86	0.00	0.00	0.00

MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.7	8.0	0.00	0.00	0.00

CAL YEAR 2009	TOTAL	0	MEAN	0.000	MAX	0.000	MIN	0.000	AC-FT 0.00
WTR YEAR 2010	TOTAL	7	MEAN	0.043	MAX	3.1	MIN	0.000	AC-FT 15

79000 Lakotah Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.0	---	---	---	---	---	---	3.3	3.9	1.2	0.00	0.00
2	2.1	---	---	---	---	---	---	6.2	3.7	1.1	0.00	0.00
3	0.00	---	---	---	---	---	---	5.8	3.8	1.00	0.00	0.00
4	0.00	---	---	---	---	---	---	5.6	3.8	1.1	0.00	0.00
5	0.00	---	---	---	---	---	---	3.0	3.8	1.3	0.00	0.00
6	0.00	---	---	---	---	---	---	0.00	3.5	1.5	0.00	0.00
7	---	---	---	---	---	---	---	0.00	3.2	1.9	0.00	0.00
8	---	---	---	---	---	---	---	0.00	3.1	1.9	0.00	0.00
9	---	---	---	---	---	---	---	0.00	3.0	1.9	0.00	0.00
10	---	---	---	---	---	---	---	0.00	4.0	1.6	0.00	0.00
11	---	---	---	---	---	---	---	0.00	6.5	1.5	0.00	0.00
12	---	---	---	---	---	---	---	0.00	6.9	1.5	0.00	0.00
13	---	---	---	---	---	---	---	0.00	7.7	1.6	0.00	0.00
14	---	---	---	---	---	---	---	0.00	9.0	1.4	0.00	0.00
15	---	---	---	---	---	---	---	0.00	8.0	0.89	0.00	0.00
16	---	---	---	---	---	---	---	0.00	6.2	0.00	0.00	0.00
17	---	---	---	---	---	---	---	0.00	5.0	0.00	0.00	0.00
18	---	---	---	---	---	---	---	0.00	4.1	0.00	0.00	0.00
19	---	---	---	---	---	---	---	0.00	3.7	0.00	0.00	0.00
20	---	---	---	---	---	---	4.1	0.00	3.3	0.00	0.00	0.00
21	---	---	---	---	---	---	3.3	0.00	2.8	0.00	0.00	0.00
22	---	---	---	---	---	---	4.5	0.00	2.5	0.00	0.00	0.00
23	---	---	---	---	---	---	4.4	0.00	2.2	0.00	0.00	0.00
24	---	---	---	---	---	---	4.7	0.00	2.0	0.00	0.00	0.00
25	---	---	---	---	---	---	6.8	0.00	1.8	0.00	0.00	0.00
26	---	---	---	---	---	---	4.8	1.5	1.6	0.00	0.00	0.00
27	---	---	---	---	---	---	2.6	5.1	1.4	0.00	0.00	0.00
28	---	---	---	---	---	---	2.5	4.8	1.3	0.00	0.00	0.00
29	---	---	---	---	---	---	2.6	4.8	1.5	0.00	0.00	0.00
30	---	---	---	---	---	---	2.4	4.8	1.4	0.00	0.00	1.9
31	---	---	---	---	---	---	---	4.6	---	0.00	0.00	---
TOTAL	4.1	0	0	0	0	0	42.7	49.5	114.7	21.39	0	1.9
MEAN	0.68	---	---	---	---	---	3.9	1.6	3.8	0.69	0.000	0.062
MAX	2.1	---	---	---	---	---	6.8	6.2	9.0	1.9	0.00	1.9

MIN	0.00	---	---	---	---	---	2.4	0.00	1.3	0.00	0.00	0.00
AC-FT	8.1	0.00	0.00	0.00	0.00	0.00	85	98	228	42	0.00	3.8

CAL YEAR 2009	TOTAL	247	MEAN	1.5	MAX	5.8	MIN	0.000	AC-FT 489
WTR YEAR 2010	TOTAL	234	MEAN	1.4	MAX	9.0	MIN	0.000	AC-FT 465

81000 Lichte Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	---	0.00	0.00	0.00
2	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
10	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
11	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
12	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
13	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
14	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
15	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
16	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
17	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
18	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
19	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
20	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
21	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
22	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
23	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
24	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
25	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
26	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
27	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
28	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
29	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
30	---	---	---	---	---	---	---	---	0.00	0.00	0.00	---
31	---	---	---	---	---	---	---	---	---	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
MAX	0.00	---	---	---	---	---	---	---	0.00	0.00	0.00	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	0.00	0.00

CAL YEAR 2009 TOTAL 9 MEAN 0.056 MAX 3.1 MIN 0.000 AC-FT 17
WTR YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

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

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	0.00	2.9	0.00	0.00
2	0.00	---	---	---	---	---	---	---	0.00	2.0	0.00	0.00
3	0.00	---	---	---	---	---	---	---	0.00	2.1	0.27	0.00
4	0.00	---	---	---	---	---	---	---	0.00	2.1	1.9	0.00
5	0.00	---	---	---	---	---	---	---	2.0	2.0	1.9	0.00
6	0.00	---	---	---	---	---	---	---	1.5	1.9	1.8	0.00
7	---	---	---	---	---	---	---	---	2.4	1.8	1.7	0.00
8	---	---	---	---	---	---	---	---	2.6	1.8	1.7	---
9	---	---	---	---	---	---	---	---	2.3	1.7	1.8	---
10	---	---	---	---	---	---	---	---	2.3	2.3	1.7	---
11	---	---	---	---	---	---	---	---	1.8	2.6	1.7	---
12	---	---	---	---	---	---	---	---	1.7	0.94	1.7	---
13	---	---	---	---	---	---	---	---	1.8	0.00	1.7	---
14	---	---	---	---	---	---	---	---	0.41	0.00	1.7	---
15	---	---	---	---	---	---	---	---	0.00	0.00	1.8	---
16	---	---	---	---	---	---	---	---	0.00	0.00	1.8	---
17	---	---	---	---	---	---	---	---	0.00	0.00	0.72	---
18	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
19	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
20	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
21	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
22	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
23	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
24	---	---	---	---	---	---	---	0.00	0.00	0.00	0.00	---
25	---	---	---	---	---	---	---	0.00	0.00	0.00	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	1.3	0.00	0.00	---
30	---	---	---	---	---	---	---	0.00	4.2	0.00	0.00	---
31	---	---	---	---	---	---	---	0.00	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	0	24.31	24.14	23.89	0
MEAN	0.000	---	---	---	---	---	---	0.000	0.82	0.79	0.78	0.000
MAX	0.00	---	---	---	---	---	---	0.00	4.2	2.9	1.9	0.00

MIN	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48	48	47	0.00

CAL YEAR 2009	TOTAL	83	MEAN	0.59	MAX	6.7	MIN	0.000	AC-FT 165
WTR YEAR 2010	TOTAL	72	MEAN	0.61	MAX	4.2	MIN	0.000	AC-FT 143

86000 McLaughlin Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	0.00	0.00	2.4	0.00
2	0.00	---	---	---	---	---	---	---	0.00	0.00	2.4	0.00
3	0.00	---	---	---	---	---	---	---	0.00	0.00	2.0	0.00
4	0.00	---	---	---	---	---	---	---	0.00	0.00	1.9	0.00
5	0.00	---	---	---	---	---	---	0.00	0.00	0.00	1.5	0.00
6	0.00	---	---	---	---	---	---	0.00	1.0	0.00	1.2	0.00
7	0.00	---	---	---	---	---	---	0.00	2.5	0.00	1.5	0.00
8	0.00	---	---	---	---	---	---	0.00	4.1	0.00	1.5	0.00
9	---	---	---	---	---	---	---	0.00	4.3	0.00	0.48	0.00
10	---	---	---	---	---	---	---	0.00	5.2	0.00	0.00	0.00
11	---	---	---	---	---	---	---	0.00	5.5	0.00	0.00	0.00
12	---	---	---	---	---	---	---	0.00	5.6	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	5.6	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	5.7	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	5.8	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.00	5.8	0.09	0.00	0.00
17	---	---	---	---	---	---	---	0.00	5.8	0.18	0.00	0.00
18	---	---	---	---	---	---	---	0.00	3.4	0.30	0.00	0.00
19	---	---	---	---	---	---	---	0.00	0.00	0.41	0.00	0.00
20	---	---	---	---	---	---	---	0.00	0.00	0.53	0.00	0.00
21	---	---	---	---	---	---	---	0.00	0.00	1.4	0.00	0.00
22	---	---	---	---	---	---	---	0.00	0.00	4.2	0.00	0.00
23	---	---	---	---	---	---	---	0.00	0.00	2.8	0.00	0.00
24	---	---	---	---	---	---	---	0.00	0.00	2.6	0.00	0.00
25	---	---	---	---	---	---	---	0.00	0.00	2.3	0.00	0.00
26	---	---	---	---	---	---	---	0.82	0.00	2.1	0.00	0.00
27	---	---	---	---	---	---	---	1.1	0.00	1.9	0.00	0.00
28	---	---	---	---	---	---	---	2.4	0.00	1.7	0.00	0.00
29	---	---	---	---	---	---	---	0.00	0.00	2.1	0.00	0.00
30	---	---	---	---	---	---	---	0.00	0.00	2.5	0.00	0.00
31	---	---	---	---	---	---	---	0.00	---	2.4	0.00	---
TOTAL	0	0	0	0	0	0	0	4.32	60.3	27.51	14.88	0
MEAN	0.000	---	---	---	---	---	---	0.16	2.0	0.89	0.48	0.000
MAX	0.00	---	---	---	---	---	---	2.4	5.8	4.2	2.4	0.00

MIN	0.00	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.6	120	55	30	0.00

CAL YEAR 2009	TOTAL	100	MEAN	0.62	MAX	6.0	MIN	0.000	AC-FT 199
WTR YEAR 2010	TOTAL	107	MEAN	0.68	MAX	5.8	MIN	0.000	AC-FT 212

89000 Mettlen Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	0.00	0.00e	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	0.70e	0.00	0.00	0.00
13	---	---	---	---	---	---	---	0.00	0.65e	0.00	0.00	0.00
14	---	---	---	---	---	---	---	0.00	0.65e	0.00	0.00	0.00
15	---	---	---	---	---	---	---	0.00	0.65	0.00	0.00	0.00
16	---	---	---	---	---	---	---	0.00	0.48	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	0.00
20	---	---	---	---	---	---	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
22	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
24	---	---	---	---	---	---	0.00	5.8	0.00	0.00	0.00	0.00
25	---	---	---	---	---	---	0.00	2.3	0.00	0.00	0.00	0.00
26	---	---	---	---	---	---	0.00	1.0	0.00	0.00	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00e	0.00	0.00	0.00	0.00
28	---	---	---	---	---	---	0.00	0.00e	0.00	0.00	0.00	0.00
29	---	---	---	---	---	---	0.00	0.00e	0.00	0.00	0.00	0.00
30	---	---	---	---	---	---	0.00	0.00e	0.00	0.00	0.00	0.00
31	---	---	---	---	---	---	---	0.00e	---	0.00	0.00	---
TOTAL	0	0	0	0	0	0	0	9.1	3.13	0	0	0
MEAN	0.000	---	---	---	---	---	0.000	0.29	0.10	0.000	0.000	0.000
MAX	0.00	---	---	---	---	---	0.00	5.8	0.70	0.00	0.00	0.00

MIN	0.00	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18	6.2	0.00	0.00	0.00

CAL YEAR 2009	TOTAL	187	MEAN	1.1	MAX	9.4	MIN	0.000	AC-FT 371
WTR YEAR 2010	TOTAL	12	MEAN	0.072	MAX	5.8	MIN	0.000	AC-FT 24

102000 Montague Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

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
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	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 2009 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00
WTR YEAR 2010 TOTAL 0 MEAN 0.000 MAX 0.000 MIN 0.000 AC-FT 0.00

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

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	0.00e	0.00e	6.1	0.00
2	---	---	---	---	---	---	---	---	0.00e	0.00e	6.2	0.00
3	---	---	---	---	---	---	---	---	0.00e	0.00e	6.1	0.00
4	---	---	---	---	---	---	---	---	0.00e	0.00e	2.4	0.00
5	---	---	---	---	---	---	---	---	0.00e	0.00e	0.13	0.00
6	---	---	---	---	---	---	---	---	0.00e	0.00	0.00	0.00
7	---	---	---	---	---	---	---	---	0.00e	0.00	0.00	0.00
8	---	---	---	---	---	---	---	---	0.00e	0.00	0.00	0.00
9	---	---	---	---	---	---	---	---	0.00e	0.00	0.00	0.00
10	---	---	---	---	---	---	---	---	0.00e	0.00	0.00	1.4
11	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.7
12	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.5
13	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.7
14	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	2.9
15	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.0
16	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	2.9
17	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	2.6
18	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.1
19	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.3
20	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.4
21	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.4
22	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	3.7
23	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	4.4
24	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	4.6
25	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	2.4
26	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	0.00
27	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	0.00
28	---	---	---	---	---	---	---	0.00e	0.00e	0.00	0.00	0.00
29	---	---	---	---	---	---	---	0.00e	0.00e	6.0	0.00	0.00
30	---	---	---	---	---	---	---	0.00e	0.00e	9.5	0.00	0.00
31	---	---	---	---	---	---	---	0.00e	---	7.3	0.00	---
TOTAL	0	0	0	0	0	0	0	0	0	22.8	20.93	52
MEAN	---	---	---	---	---	---	---	0.000	0.000	0.74	0.68	1.7
MAX	---	---	---	---	---	---	---	0.00	0.00	9.5	6.2	4.6

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	45	42	103

CAL YEAR 2009	TOTAL	82	MEAN	0.55	MAX	3.3	MIN	0.000	AC-FT 162
WTR YEAR 2010	TOTAL	96	MEAN	0.67	MAX	9.5	MIN	0.000	AC-FT 190

123000 Pioneer Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	---	---	---	---	---	---	6.8	0.00	1.1	0.88
2	0.00	---	---	---	---	---	---	---	6.4	0.00	4.1	0.79
3	0.00	---	---	---	---	---	---	---	6.1	0.00	4.2	0.79
4	0.00	---	---	---	---	---	---	---	6.0	0.00	4.4	0.80
5	0.00	---	---	---	---	---	---	0.00	5.9	0.00	0.00	0.77
6	0.00	---	---	---	---	---	---	3.9	5.9	0.00	0.00	0.78
7	0.00	---	---	---	---	---	---	7.2	6.0	0.00	0.00	0.79
8	0.00	---	---	---	---	---	---	7.2	5.9	2.0	0.00	0.78
9	---	---	---	---	---	---	---	6.9	5.5	4.1	0.00	0.00
10	---	---	---	---	---	---	---	2.0	6.0	4.1	0.00	0.00
11	---	---	---	---	---	---	---	0.00	3.4	4.2	0.00	0.00
12	---	---	---	---	---	---	---	0.00	0.41	4.3	0.00	0.00
13	---	---	---	---	---	---	---	0.00	0.35	4.3	0.00	0.00
14	---	---	---	---	---	---	---	0.00	0.98	4.4	0.00	0.00
15	---	---	---	---	---	---	---	0.00	0.21	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	2.0	0.00
20	---	---	---	---	---	---	---	0.00	0.00	0.00	3.4	0.00
21	---	---	---	---	---	---	---	0.00	0.00	0.00	3.1	0.00
22	---	---	---	---	---	---	---	0.00	0.00	2.2	2.7	0.00
23	---	---	---	---	---	---	---	0.00	0.00	4.2	2.4	0.00
24	---	---	---	---	---	---	---	0.00	0.00	4.3	2.3	0.00
25	---	---	---	---	---	---	---	0.00	0.00	4.5	2.0	0.00
26	---	---	---	---	---	---	---	2.6	2.6	4.4	1.8	0.00
27	---	---	---	---	---	---	---	7.1	6.7	2.5	1.6	0.00
28	---	---	---	---	---	---	---	7.9	6.6	0.52	1.4	0.00
29	---	---	---	---	---	---	---	7.7	6.6	0.00	1.2	0.00
30	---	---	---	---	---	---	---	7.3	3.1	0.00	1.1	0.00
31	---	---	---	---	---	---	---	7.1	---	0.00	1.0	---
TOTAL	0	0	0	0	0	0	0	66.9	91.45	50.02	39.8	6.38
MEAN	0.000	---	---	---	---	---	---	2.5	3.0	1.6	1.3	0.21
MAX	0.00	---	---	---	---	---	---	7.9	6.8	4.5	4.4	0.88

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	133	181	99	79	13

CAL YEAR 2009 TOTAL 177 MEAN 1.1 MAX 5.6 MIN 0.000 AC-FT 352
WTR YEAR 2010 TOTAL 255 MEAN 1.6 MAX 7.9 MIN 0.000 AC-FT 505

124000 Potmesil Canal from Niobrara River, ---

DISCHARGE (CFS), WATER YEAR 2010

MEAN DAILY VALUES

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	0.00	0.00	2.9	4.7
2	---	---	---	---	---	---	---	---	0.00	0.00	4.9	0.93
3	---	---	---	---	---	---	---	---	0.00	3.1	5.4	0.00
4	---	---	---	---	---	---	---	---	0.00	6.1	5.8	0.00
5	---	---	---	---	---	---	---	---	0.00	5.5	5.7	0.00
6	---	---	---	---	---	---	---	---	0.00	6.1	5.6	0.00
7	---	---	---	---	---	---	---	---	0.00	6.0	5.6	0.00
8	---	---	---	---	---	---	---	---	0.00	5.8	5.6	0.00
9	---	---	---	---	---	---	---	---	0.00	5.8	5.4	0.00
10	---	---	---	---	---	---	---	---	0.00	5.7	5.3	---
11	---	---	---	---	---	---	---	---	0.00	6.0	5.0	---
12	---	---	---	---	---	---	---	---	0.00	5.8	5.1	---
13	---	---	---	---	---	---	---	---	0.00	4.1	5.1	---
14	---	---	---	---	---	---	---	---	0.00	4.1	4.8	---
15	---	---	---	---	---	---	---	---	0.00	4.2	4.7	---
16	---	---	---	---	---	---	---	---	0.00	4.2	4.6	---
17	---	---	---	---	---	---	---	---	0.00	4.7	4.1	---
18	---	---	---	---	---	---	---	---	0.00	4.6	4.0	---
19	---	---	---	---	---	---	---	---	0.00	4.7	3.9	---
20	---	---	---	---	---	---	---	0.00	0.00	4.2	4.1	---
21	---	---	---	---	---	---	---	0.00	0.00	4.4	4.2	---
22	---	---	---	---	---	---	---	0.00	0.00	5.0	4.1	---
23	---	---	---	---	---	---	---	0.00	0.00	5.4	4.4	---
24	---	---	---	---	---	---	---	0.00	0.00	5.7	4.7	---
25	---	---	---	---	---	---	---	0.00	0.00	5.6	4.8	---
26	---	---	---	---	---	---	---	0.00	0.00	5.7	4.8	---
27	---	---	---	---	---	---	---	0.00	0.00	6.0	4.7	---
28	---	---	---	---	---	---	---	0.00	0.00	6.2	2.4	---
29	---	---	---	---	---	---	---	0.00	0.00	5.9	2.3	---
30	---	---	---	---	---	---	---	0.00	0.00	4.5	2.0	---
31	---	---	---	---	---	---	---	0.00	---	4.5	3.8	---
TOTAL	0	0	0	0	0	0	0	0	0	149.6	139.8	5.63
MEAN	---	---	---	---	---	---	---	0.000	0.000	4.8	4.5	0.63
MAX	---	---	---	---	---	---	---	0.00	0.00	6.2	5.8	4.7

MIN	---	---	---	---	---	---	---	0.00	0.00	0.00	2.0	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	297	277	11

CAL YEAR 2009 TOTAL 360 MEAN 3.2 MAX 7.8 MIN 0.000 AC-FT 715
WTR YEAR 2010 TOTAL 295 MEAN 2.6 MAX 6.2 MIN 0.000 AC-FT 585

Appendix B

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	Hitshew 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	Hitshew 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	Niobrar 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	Hitshew 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	Hitshew 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	Hitshew 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	Hitshew 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	Niobrar River near Agate	7.77
10/7/2010	2560	Hitshew 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	Niobrar 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	Niobrar 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	Niobrar 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	Niobrar 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	Hitshew 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 C

Municipal Pumping and Consumption Analysis

IMP Report 13 October 2011

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
2001-2011 Total	323,515,660.00	25,005,850.93	1,839,197,093.99	705,669,371.00	7,140,120,000.00	10,033,507,975.92

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
2001-2011 Avg.	340.49	6.52	90.83	214.11	236.55	177.70