

**2016 ANNUAL REPORT OF 2015 DATA**  
**BY THE DEPARTMENT OF NATURAL RESOURCES**  
TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL  
RESOURCES DISTRICT'S INTEGRATED MANAGEMENT PLAN

Purpose: The purpose of the report is to fulfill the Department of Natural Resources (Department or NeDNR) responsibilities under the Upper Niobrara White Natural Resources District (District or UNWNRD) 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 water and groundwater are hydrologically connected throughout much of the District, estimates of water quantity of either surface water or groundwater cannot be evaluated separately. The data gathered through this IMP's monitoring plan are 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. This report contains information on variance activities and permit activities from January 1, 2015, through December 31, 2015. Also included are canal diversion measurements from October 1, 2014, through September 30, 2015.

**Department Reporting: Data**

The IMP requires that the Department annually report on the following surface water data within the district:

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

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

Surface water diversion records for the water year 2015 are included in Appendix A. The canals measured include: Bennett-Kay Canal; Cook Canal No. 1; Earnest Canal (South); Earnest Canal (North); Excelsior Canal; Harris-Neece Canal; Geo. Hitsheew Canal; Hughes Canal; Johnson Canal; Labelle Canal; Lakota Canal; Lichte Canal; McGinley-Stover Canal; McLaughlin Canal; Mettlen Canal; Montague Canal; and the Moore-Kay Canal.

***2) Non-gaged Stream Measurements***

Non-gaged stream measurements for the water year 2015 are included in Appendix B. Measurements were conducted at the following streams: Niobrara River and White River. Measurements were also conducted at various diversions: Armstrong Pump, Cook Pump, Delsing Pump, Harris-Cooper Canal, Montague Canal Pump, Pioneer Pump #2, White River Canal, Whitney Reservoir and Wilkins Pump.

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**Department Reporting: Permitting**

The IMP requires that the Department annually report the following permitting actions within the surface water control area of the district:

- Surface water variances
- Cancelled surface water rights
- New uses and increases in municipal and industrial consumptive uses

Table 1 below contains detailed information on the permitting activities for calendar year 2015.

***1) Surface Water Variances***

During calendar year 2015, no requests for leave to file an application for a new surface water appropriation within an area under a moratorium or stay (variance) were received.

***2) Cancelled Surface Water Rights***

During calendar year 2015, six surface water permits were cancelled. They were temporary, one-year permits for road construction granted to the Dawes County Road Department (Table 1).

***3) New or Increased Municipal and Industrial Groundwater Uses***

There were no new or increased municipal or industrial groundwater uses in calendar year 2015.

**Current Studies**

The WaterSMART program was completed in 2015 by NeDNR and the United States Bureau of Reclamation. It is proposed that the District will be utilizing the program to analyze alternative water management scenarios and forecasting future groundwater conditions.

The Upper Niobrara White NRD and the Department are currently working together to prepare a refined hydrogeologic and hydrostratigraphic framework along the Niobrara River between Agate, Nebraska, and the Dunlap diversion for the Mirage Flats irrigation project. The Department is contracting with the University of Nebraska-Lincoln's Conservation and Survey Division to conduct this study. The purpose of this study is to gain additional information regarding surface water/groundwater interaction along the Niobrara River near the Box Butte Reservoir. The resulting information will be used in considering the extent of hydrologic connection in this area.

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Table 1. Surface water permits cancelled during calendar year 2015, in the surface water control area of the UNWNRD

<b>Appropriation Number</b>	<b>Order of Cancellation Date</b>	<b>Variance</b>	<b>Sec</b>	<b>Twn</b>	<b>Rng</b>	<b>Dir</b>	<b>Use</b>	<b>Begin Acres</b>	<b>Cancelled Acres</b>	<b>Cancellation in CFS</b>	<b>Cancellation in AF</b>
A-19222	6/30/2015	VAR-4947	24	32	52	W	Manufacturing; Temporary Construction	N/A	N/A	N/A	10
A-19223	6/30/2015	VAR-4945	13	33	48	W	Manufacturing; Temporary Construction	N/A	N/A	N/A	10
A-19224	6/30/2015	VAR-4944	3	31	52	W	Manufacturing; Temporary Construction	N/A	N/A	N/A	10
A-19225	6/30/2015	VAR-4946	6	34	47	W	Manufacturing; Temporary Construction	N/A	N/A	N/A	10
A-19226	6/30/2015	VAR-4943	27	34	48	W	Manufacturing; Temporary Construction	N/A	N/A	N/A	10
A-19227	6/30/2015	VAR-4942	12	32	49	W	Manufacturing; Temporary Construction	N/A	N/A	N/A	10

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**13000 Bennett-Kay Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND,  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	0.17	1.9	0.36	0.49	0
2	---	---	---	---	---	---	---	0.11	1.7	0.39	0.49	0
3	---	---	---	---	---	---	---	0.04	1.6	0.33	0.5	0
4	---	---	---	---	---	---	---	0.01	1.4	0.26	0.51	0
5	---	---	---	---	---	---	---	0.01	1.2	0.28	1.7	0
6	---	---	---	---	---	---	---	0.04	1.1	0.3	2.3	0
7	---	---	---	---	---	---	---	0.13	0.77	0.27	2.3	0
8	---	---	---	---	---	---	---	0.18	3.7	0.28	2.3	0
9	---	---	---	---	---	---	---	0.62	4.2	0.29	2.3	0
10	---	---	---	---	---	---	---	2.8	2.4	0.29	2.3	0
11	---	---	---	---	---	---	---	1.8	1.8	0.3	1.6	0
12	---	---	---	---	---	---	---	1.7	1.5	0.31	1.2	0
13	---	---	---	---	---	---	---	1.5	1.2	0.32	1.2	0
14	---	---	---	---	---	---	0	1.3	1	0.32	1.2	0
15	---	---	---	---	---	---	0	1.4	0.9	2.4	1.2	0
16	---	---	---	---	---	---	0	1.7	0.83	3.6	1.2	0
17	---	---	---	---	---	---	0.09	1.6	0.79	3.8	0.4	0
18	---	---	---	---	---	---	0.36	1.3	0.74	3.8	0	0
19	---	---	---	---	---	---	0.72	1.2	0.71	3.3	0	0
20	---	---	---	---	---	---	0.51	1.6	0.68	0.83	0	0
21	---	---	---	---	---	---	0.38	1.9	0.65	0.53	0	0
22	---	---	---	---	---	---	0.33	1.8	0.62	0.45	0	0
23	---	---	---	---	---	---	0.31	1.5	0.62	0.47	0	---
24	---	---	---	---	---	---	0.29	1.7	0.6	0.49	0	---
25	---	---	---	---	---	---	0.24	2.4	0.61	0.51	0	---
26	---	---	---	---	---	---	0.22	2.4	0.62	0.53	0	---
27	---	---	---	---	---	---	0.27	2.2	0.58	0.55	0	---
28	---	---	---	---	---	---	0.29	1.9	0.56	0.56	0	---
29	---	---	---	---	---	---	0.27	1.9	0.54	0.53	0	---
30	---	---	---	---	---	---	0.23	2	0.51	0.5	0	---
31	---	---	---	---	---	---	---	2	---	0.51	0	---
<b>Total</b>	---	---	---	---	---	---	4.51	40.91	36.03	27.66	23.19	0.00
<b>Mean</b>	---	---	---	---	---	---	0.26	1.32	1.2	0.89	0.74	0
<b>Max</b>	---	---	---	---	---	---	0.72	2.8	4.2	3.8	2.3	0
<b>Min</b>	---	---	---	---	---	---	0	0.01	0.51	0.26	0	0
<b>AC-FT</b>	---	---	---	---	---	---	8.9	81	71	55	46	0
<b>CAL YEAR</b>	2014	<b>TOTAL</b>	60	<b>MEAN</b>	0.34	<b>MAX</b>	3	<b>MIN</b>	0	<b>AC-FT</b>	119	
<b>WTR YEAR</b>	2015	<b>TOTAL</b>	132	<b>MEAN</b>	0.82	<b>MAX</b>	4	<b>MIN</b>	0	<b>AC-FT</b>	262	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**29000 Cook Canal No. 1 from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

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**38200 Earnest Canal (North) from Niobrara Rive  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	235	<b>MEAN</b>	1.74	<b>MAX</b>	8	<b>MIN</b>	0	<b>AC-FT</b>	465	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

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**38100 Earnest Canal (South) from Niobrara Rive  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	186	<b>MEAN</b>	1.38	<b>MAX</b>	7	<b>MIN</b>	0	<b>AC-FT</b>	369	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

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**46000 Excelsior Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	---	---	---	---	---
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13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**63000 Geo. Hitshew Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**62000 Harris-Neece Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	---	0.00	0.87	2.70	7.80
2	---	---	---	---	---	---	---	---	0.00	1.80	2.80	7.80
3	---	---	---	---	---	---	---	---	0.00	2.80	2.8	7.5
4	---	---	---	---	---	---	---	---	0.00	4.20	---	7.30
5	---	---	---	---	---	---	---	0	0	5.9	---	7
6	---	---	---	---	---	---	---	0	0	7.8	---	6.8
7	---	---	---	---	---	---	---	0	0	11	---	6.5
8	---	---	---	---	---	---	---	0	---	11	---	6.3
9	---	---	---	---	---	---	---	0	---	11	---	6.4
10	---	---	---	---	---	---	---	0	---	11	---	6.4
11	---	---	---	---	---	---	---	0	---	11	8.9	6.4
12	---	---	---	---	---	---	---	0	---	11	8.8	6.5
13	---	---	---	---	---	---	---	0	---	11	8.8	6.5
14	---	---	---	---	---	---	---	0	---	8	8.9	6.6
15	---	---	---	---	---	---	---	0	---	3.3	8.9	6.4
16	---	---	---	---	---	---	---	0	---	3.4	8.8	6.3
17	---	---	---	---	---	---	---	0	---	3.7	8.6	6.3
18	---	---	---	---	---	---	---	0	---	4	8.2	6.4
19	---	---	---	---	---	---	---	0	---	4.3	7.8	6.4
20	---	---	---	---	---	---	---	0	---	4.5	7.9	6.5
21	---	---	---	---	---	---	---	0	---	4.7	8	6.7
22	---	---	---	---	---	---	---	0	---	7.8	8	6.8
23	---	---	---	---	---	---	---	0	---	9.4	8.1	6.9
24	---	---	---	---	---	---	---	0	0.03	7.2	8.1	7.1
25	---	---	---	---	---	---	---	0	0.02	6.2	8.1	7.3
26	---	---	---	---	---	---	---	0	0.02	6.3	8.5	8.1
27	---	---	---	---	---	---	---	0	0.01	6.5	8.5	8.8
28	---	---	---	---	---	---	---	0	0.01	3.8	7.8	9.1
29	---	---	---	---	---	---	---	0	0	2.4	7.4	9.2
30	---	---	---	---	---	---	---	0	0.18	2.5	7.3	---
31	---	---	---	---	---	---	---	0	---	2.6	7.1	---
<b>Total</b>	---	---	---	---	---	---	---	0.00	0.27	190.97	180.80	204.10
<b>Mean</b>	---	---	---	---	---	---	---	0	0.02	6.19	7.53	7.04
<b>Max</b>	---	---	---	---	---	---	---	0	0.18	11	8.90	9.2
<b>Min</b>	---	---	---	---	---	---	---	0	0	0.87	2.7	6.3
<b>AC-FT</b>	---	---	---	---	---	---	---	0.00	0.50	379.00	359.00	405.00

<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	557	<b>MEAN</b>	3.44	<b>MAX</b>	11	<b>MIN</b>	0	<b>AC-FT</b>	1110	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	576	<b>MEAN</b>	4.61	<b>MAX</b>	11	<b>MIN</b>	0	<b>AC-FT</b>	1140	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**69000 Hughes Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL YEAR</b>	2014	<b>TOTAL</b>	11	<b>MEAN</b>	0.075	<b>MAX</b>	1	<b>MIN</b>	0	<b>AC-FT</b>	22	
<b>WTR YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**72000 Johnson Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	0	7.7	0	0	0
2	---	---	---	---	---	---	---	0	7.4	0	0	0
3	---	---	---	---	---	---	---	0	6.6	0	0	0
4	---	---	---	---	---	---	---	0	2.2	0	0	0
5	---	---	---	---	---	---	---	0	0.05	0	0	0
6	---	---	---	---	---	---	---	0	9.8	0	0	0
7	---	---	---	---	---	---	---	0	11	0	0	0
8	---	---	---	---	---	---	---	0	9.5	0	0	0
9	---	---	---	---	---	---	---	0	8.5	0	0	0
10	---	---	---	---	---	---	---	0.61	7.4	0	0	0
11	---	---	---	---	---	---	---	1.3	6.4	0	0	---
12	---	---	---	---	---	---	---	1.7	5.5	0	0	---
13	---	---	---	---	---	---	---	0.93	4.6	0	0	---
14	---	---	---	---	---	---	---	0.76	3.8	0	0	---
15	---	---	---	---	---	---	---	0.72	3	0	0	---
16	---	---	---	---	---	---	---	0.75	2.3	0	0	---
17	---	---	---	---	---	---	---	0.46	1.7	0	0	---
18	---	---	---	---	---	---	---	0.5	0.57	0	0	---
19	---	---	---	---	---	---	---	0.78	0	0	0	---
20	---	---	---	---	---	---	---	2.1	0	0	0	---
21	---	---	---	---	---	---	---	2.2	0	0	0	---
22	---	---	---	---	---	---	0	2.1	0	0	0	---
23	---	---	---	---	---	---	0	1.9	0	0	0	---
24	---	---	---	---	---	---	0	2	0	0	0	---
25	---	---	---	---	---	---	0	1.6	0	0	0	---
26	---	---	---	---	---	---	0	1.1	0	0	0	---
27	---	---	---	---	---	---	0	0.97	0	0	0	---
28	---	---	---	---	---	---	0	2.1	0	0	0	---
29	---	---	---	---	---	---	0	10	0	0	0	---
30	---	---	---	---	---	---	0	9.5	0	0	0	---
31	---	---	---	---	---	---	---	8.3	---	0	0	---
<b>Total</b>	---	---	---	---	---	---	0	52.38	98.02	0	0	0
<b>Mean</b>	---	---	---	---	---	---	0	1.7	3.26	0	0	0
<b>Max</b>	---	---	---	---	---	---	0	10	11	0	0	0
<b>Min</b>	---	---	---	---	---	---	0	0	0	0	0	0
<b>AC-FT</b>	---	---	---	---	---	---	0	104	194	0	0	0

<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	85	<b>MEAN</b>	0.52	<b>MAX</b>	6	<b>MIN</b>	0	<b>AC-FT</b>	168	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	150	<b>MEAN</b>	1.06	<b>MAX</b>	11	<b>MIN</b>	0	<b>AC-FT</b>	298	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**78000 Labelle Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	6.2	0.9	0	0	0
2	---	---	---	---	---	---	---	5.6	0.37	0	0	0
3	---	---	---	---	---	---	---	5.2	0.16	0	0	0
4	---	---	---	---	---	---	---	4.1	0.03	0	0	0
5	---	---	---	---	---	---	---	0.25	0	0	0	0
6	---	---	---	---	---	---	---	0.07	0	0	0	0
7	---	---	---	---	---	---	---	0.05	0.1	0	0	0
8	---	---	---	---	---	---	---	0.03	0.5	0	0	0
9	---	---	---	---	---	---	---	0.49	0.51	0	0	0
10	---	---	---	---	---	---	---	3.8	0.51	0	0	0
11	---	---	---	---	---	---	---	2.8	0.52	0	0	0
12	---	---	---	---	---	---	---	5.2	0.52	0	0	0
13	---	---	---	---	---	---	---	1.3	0.46	0	0	0
14	---	---	---	---	---	---	6.6	1.3	0.36	0	0	0
15	---	---	---	---	---	---	6.7	1.2	0.22	0	0	0
16	---	---	---	---	---	---	6.7	1.4	0	0	0	0
17	---	---	---	---	---	---	6.7	1.1	0	0	0	0
18	---	---	---	---	---	---	6.7	1	0	0	0	0
19	---	---	---	---	---	---	6.9	1.1	0	0	0	0
20	---	---	---	---	---	---	7.1	1.2	0	0	0	0
21	---	---	---	---	---	---	7.1	1	0	0	0	0
22	---	---	---	---	---	---	7.1	0.8	0	0	0	0
23	---	---	---	---	---	---	7.2	0.7	0	0	0	---
24	---	---	---	---	---	---	7.2	0.83	0	0	0	---
25	---	---	---	---	---	---	7.1	0.86	0	0	0	---
26	---	---	---	---	---	---	7.2	0.81	0	0	0	---
27	---	---	---	---	---	---	7.2	0.78	0	0	0	---
28	---	---	---	---	---	---	7.2	0.76	0	0	0	---
29	---	---	---	---	---	---	7.1	0.78	0	0	0	---
30	---	---	---	---	---	---	6.7	1.1	0	0	0	---
31	---	---	---	---	---	---	---	1.1	---	0	0	---
<b>Total</b>	---	---	---	---	---	---	118.5	52.91	5.16	0	0	0
<b>Mean</b>	---	---	---	---	---	---	6.97	1.7	0.17	0	0	0
<b>Max</b>	---	---	---	---	---	---	7.2	6.2	0.9	0	0	0
<b>Min</b>	---	---	---	---	---	---	6.6	0.03	0	0	0	0
<b>AC-FT</b>	---	---	---	---	---	---	235	105	10	0	0	0
<b>CAL YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR YEAR</b>	2015	<b>TOTAL</b>	177	<b>MEAN</b>	1.09	<b>MAX</b>	7	<b>MIN</b>	0	<b>AC-FT</b>	350	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**79000 Lakotah Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	3.1	---	---	---	---	---	---	3.7	0.76	0.21	2.2	2
2	2.8	---	---	---	---	---	---	3.5	0.6	0.22	2.1	2
3	3.4	---	---	---	---	---	---	3.3	0.48	0.97	2.1	1.9
4	3.4	---	---	---	---	---	---	3.1	0.46	1.3	2.2	1.9
5	2.3	---	---	---	---	---	---	3.1	0.67	1.2	2.2	1.9
6	1.7	---	---	---	---	---	---	3.4	1.1	1.2	2.3	1.9
7	---	---	---	---	---	---	---	4.3	0.68	2.3	2.4	1.8
8	---	---	---	---	---	---	---	4	0.64	4.3	2.4	1.8
9	---	---	---	---	---	---	---	5.5	0.7	4.5	2.4	1.8
10	---	---	---	---	---	---	---	8	1.4	4.4	2.3	1.8
11	---	---	---	---	---	---	---	8.3	1.9	4.1	2.3	1.9
12	---	---	---	---	---	---	---	9	1.9	3.7	2.4	2
13	---	---	---	---	---	---	---	8.1	1.8	3.4	2.7	2
14	---	---	---	---	---	---	---	8.4	1.8	3.3	2.8	2
15	---	---	---	---	---	---	0.82	8.3	1.7	3.3	2.4	2
16	---	---	---	---	---	---	2.2	9.2	1.7	3.7	2.1	2
17	---	---	---	---	---	---	2.8	7.9	1.7	3.9	2	1.9
18	---	---	---	---	---	---	4.1	5.5	1.6	6.9	2.3	1.9
19	---	---	---	---	---	---	4.5	2.5	1.5	11	2.6	2
20	---	---	---	---	---	---	4.3	2.3	1.3	7.2	2.7	2.1
21	---	---	---	---	---	---	4.2	1.8	1.1	5.3	2.7	2.1
22	---	---	---	---	---	---	4	1.6	0.94	5.3	2.5	2.1
23	---	---	---	---	---	---	3.5	1.5	0.82	4.7	2.4	2.1
24	---	---	---	---	---	---	3.3	1.9	0.76	3.8	2.2	2.2
25	---	---	---	---	---	---	3.2	2.1	0.76	3.3	2.2	2.2
26	---	---	---	---	---	---	3.3	1.9	0.74	3	2.1	2.2
27	---	---	---	---	---	---	3.9	1.8	0.68	2.8	2.2	2.2
28	---	---	---	---	---	---	3.9	3	0.63	2.6	2.3	2.2
29	---	---	---	---	---	---	4	1.9	0.58	2.4	2.2	2.2
30	---	---	---	---	---	---	4	1.1	0.36	2.3	2.2	---
31	---	---	---	---	---	---	---	1.1	---	2.2	2.1	---
<b>Total</b>	16.7	---	---	---	---	---	56.02	131.1	31.76	108.8	72	58.1
<b>Mean</b>	2.78	---	---	---	---	---	3.5	4.24	1.06	3.52	2.32	2
<b>Max</b>	3.4	---	---	---	---	---	4.5	9.2	1.9	11	2.8	2.2
<b>Min</b>	1.7	---	---	---	---	---	0.82	1.1	0.36	0.21	2	1.8
<b>AC-FT</b>	33	---	---	---	---	---	111	260	63	216	143	115
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	170	<b>MEAN</b>	1.01	<b>MAX</b>	5	<b>MIN</b>	0	<b>AC-FT</b>	336	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	474	<b>MEAN</b>	2.73	<b>MAX</b>	11	<b>MIN</b>	0.21	<b>AC-FT</b>	941	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**81000 Lichte Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**84000 McGinley-Stover Canal from Niobrara Rive  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	0.01	---	---	---	---	---	---	0	0.01	0.36	2.7	0
2	0	---	---	---	---	---	---	0	0	0.39	2.3	0
3	0	---	---	---	---	---	---	0	0	0.38	2	0
4	0	---	---	---	---	---	---	0	0	0.36	1.8	0
5	0	---	---	---	---	---	---	0	0	0.36	1.6	0
6	0	---	---	---	---	---	---	0	4.9	0.32	1.5	0
7	0	---	---	---	---	---	---	0	22	0.14	1.4	0
8	---	---	---	---	---	---	---	0	18	0	1.5	0
9	---	---	---	---	---	---	---	0	15	0	1.3	0
10	---	---	---	---	---	---	---	0.41	11	0	1.2	0
11	---	---	---	---	---	---	---	0.37	6.9	0	1.3	0
12	---	---	---	---	---	---	---	0.34	2.2	0	1.1	0
13	---	---	---	---	---	---	---	0.32	0.53	0	0.87	0
14	---	---	---	---	---	---	---	0.3	0.1	0	0.84	0
15	---	---	---	---	---	---	---	0.34	0.1	0	0.68	0
16	---	---	---	---	---	---	---	0.25	0.15	0	0.65	0
17	---	---	---	---	---	---	---	0.18	0.59	0	0.76	0
18	---	---	---	---	---	---	---	0.13	0.19	0	0.42	0
19	---	---	---	---	---	---	---	0.08	0.16	0	0	0
20	---	---	---	---	---	---	---	0.07	0.17	0	0	0
21	---	---	---	---	---	---	---	0.06	0.15	0.49	0	0
22	---	---	---	---	---	---	0	0.04	0.16	0.13	0	0
23	---	---	---	---	---	---	0	0.03	4.5	0.06	0	0
24	---	---	---	---	---	---	0	0.02	8.5	3.4	0	0
25	---	---	---	---	---	---	0	0.02	5.1	5.5	0	0
26	---	---	---	---	---	---	0	0.01	3.4	4.1	0	0
27	---	---	---	---	---	---	0	0	3.1	3.1	0	---
28	---	---	---	---	---	---	0	0	1.8	2.9	0	---
29	---	---	---	---	---	---	0	0.02	1.6	3	0	---
30	---	---	---	---	---	---	0	0.03	0.89	3.2	0	---
31	---	---	---	---	---	---	---	0.02	---	2.9	0	---
<b>Total</b>	0.01	---	---	---	---	---	0	3.04	111.2	31.09	23.92	0
<b>Mean</b>	0.001	---	---	---	---	---	0	0.099	3.71	1	0.77	0
<b>Max</b>	0.01	---	---	---	---	---	0	0.41	22	5.5	2.7	0
<b>Min</b>	0	---	---	---	---	---	0	0	0	0	0	0
<b>AC-FT</b>	0.02	---	---	---	---	---	0	6	221	62	47	0
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	146	<b>MEAN</b>	0.86	<b>MAX</b>	5	<b>MIN</b>	0	<b>AC-FT</b>	289	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	169	<b>MEAN</b>	1.03	<b>MAX</b>	22	<b>MIN</b>	0	<b>AC-FT</b>	336	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**86000 McLaughlin Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**89000 Mettlen Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	0.85	0.02	0.01	0	0
2	---	---	---	---	---	---	---	0.74	0.02	0.01	0	0
3	---	---	---	---	---	---	---	0.63	0.02	0.01	0	0
4	---	---	---	---	---	---	---	0.54	0.02	0.01	0	0
5	---	---	---	---	---	---	---	0.19	0.02	0.02	0	0
6	---	---	---	---	---	---	---	0	0.02	0.02	0	0
7	---	---	---	---	---	---	---	0	0.04	0.02	0	0
8	---	---	---	---	---	---	---	0	0.14	0.02	0	0
9	---	---	---	---	---	---	---	0	0.07	0.02	0	0
10	---	---	---	---	---	---	---	0.05	0.05	0.02	0	0
11	---	---	---	---	---	---	---	0	0.03	0.01	0	0
12	---	---	---	---	---	---	---	0	0.03	0.01	0	0
13	---	---	---	---	---	---	---	0	0.02	0	0	0
14	---	---	---	---	---	---	0.94	0	0.02	0	0	0
15	---	---	---	---	---	---	0.94	0	0.03	0	0	0
16	---	---	---	---	---	---	0.94	0	0.03	0.01	0	0
17	---	---	---	---	---	---	0.95	0	0.03	0.01	0	0
18	---	---	---	---	---	---	0.97	0	0.02	0.02	0	0
19	---	---	---	---	---	---	0.97	0	0.02	0.01	0	0
20	---	---	---	---	---	---	0.97	0	0.02	0.01	0	0
21	---	---	---	---	---	---	0.97	0	0.02	0.03	0	0
22	---	---	---	---	---	---	0.97	0	0.01	0.04	0	0
23	---	---	---	---	---	---	0.97	0	0.01	0.02	0	---
24	---	---	---	---	---	---	0.97	0.01	0.01	0	0	---
25	---	---	---	---	---	---	0.96	0.01	0.01	0	0	---
26	---	---	---	---	---	---	0.96	0.01	0.01	0	0	---
27	---	---	---	---	---	---	0.97	0.01	0.01	0	0	---
28	---	---	---	---	---	---	0.97	0.01	0.01	0	0	---
29	---	---	---	---	---	---	0.97	0.02	0.01	0	0	---
30	---	---	---	---	---	---	0.95	0.02	0.01	0	0	---
31	---	---	---	---	---	---	---	0.02	---	0	0	---
<b>Total</b>	---	---	---	---	---	---	16.34	3.11	0.78	0.33	0	0
<b>Mean</b>	---	---	---	---	---	---	0.96	0.099	0.026	0.01	0	0
<b>Max</b>	---	---	---	---	---	---	0.97	0.85	0.14	0.04	0	0
<b>Min</b>	---	---	---	---	---	---	0.94	0	0.01	0	0	0
<b>AC-FT</b>	---	---	---	---	---	---	32	6.2	1.5	0.7	0	0

<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	58	<b>MEAN</b>	0.36	<b>MAX</b>	4	<b>MIN</b>	0	<b>AC-FT</b>	115	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	21	<b>MEAN</b>	0.13	<b>MAX</b>	1	<b>MIN</b>	0	<b>AC-FT</b>	41	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**102000 Montague Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

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CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**104000 Moore-Kay Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	---	---	---	---	---	---	---	1	7.5	---	---	---
2	---	---	---	---	---	---	---	0.92	8.5	---	---	---
3	---	---	---	---	---	---	---	0.92	8.2	---	---	---
4	---	---	---	---	---	---	---	0.91	7.8	---	---	---
5	---	---	---	---	---	---	---	0.25	7.2	---	---	---
6	---	---	---	---	---	---	---	0	6.8	---	---	---
7	---	---	---	---	---	---	---	0.05	---	---	---	---
8	---	---	---	---	---	---	---	0.28	---	---	---	---
9	---	---	---	---	---	---	---	0.06	---	0	---	---
10	---	---	---	---	---	---	---	0	---	0	---	---
11	---	---	---	---	---	---	---	0	---	0	---	---
12	---	---	---	---	---	---	---	0	---	0	---	---
13	---	---	---	---	---	---	---	0	---	0	---	---
14	---	---	---	---	---	---	---	0	---	0	---	---
15	---	---	---	---	---	---	---	0.11	---	0	---	---
16	---	---	---	---	---	---	---	0.14	---	0	---	---
17	---	---	---	---	---	---	---	0.24	---	0	---	---
18	---	---	---	---	---	---	---	0.7	---	0	---	---
19	---	---	---	---	---	---	---	1.1	---	0	---	---
20	---	---	---	---	---	---	---	1.2	---	---	---	---
21	---	---	---	---	---	---	2.6	1.4	---	---	---	---
22	---	---	---	---	---	---	2.6	1.6	---	---	---	---
23	---	---	---	---	---	---	2.6	2.3	---	---	---	---
24	---	---	---	---	---	---	2.4	2.5	---	---	---	---
25	---	---	---	---	---	---	2.2	1.4	---	---	---	---
26	---	---	---	---	---	---	1.9	1.5	---	---	---	---
27	---	---	---	---	---	---	1.3	2.7	---	---	---	---
28	---	---	---	---	---	---	1.2	4	---	---	---	---
29	---	---	---	---	---	---	1.1	5.2	---	---	---	---
30	---	---	---	---	---	---	0.97	5.4	---	---	---	---
31	---	---	---	---	---	---	---	6.2	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	18.87	42.08	46	0	---	---
<b>Mean</b>	---	---	---	---	---	---	1.88	1.35	7.68	0	---	---
<b>Max</b>	---	---	---	---	---	---	2.6	6.2	8.5	0	---	---
<b>Min</b>	---	---	---	---	---	---	0.97	0	6.8	0	---	---
<b>AC-FT</b>	---	---	---	---	---	---	37	83	91	0	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	114	<b>MEAN</b>	0.73	<b>MAX</b>	5	<b>MIN</b>	0	<b>AC-FT</b>	225	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	107	<b>MEAN</b>	1.84	<b>MAX</b>	9	<b>MIN</b>	0	<b>AC-FT</b>	212	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**123000 Pioneer Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
1	e0.00	---	---	---	---	---	---	---	---	---	1	4.4
2	e0.00	---	---	---	---	---	---	---	---	0	1.2	4.3
3	e0.00	---	---	---	---	---	---	---	---	---	1.3	4.2
4	e0.00	---	---	---	---	---	---	---	---	---	2.3	4.2
5	e0.00	---	---	---	---	---	---	---	---	---	6.7	4.2
6	e0.00	---	---	---	---	---	---	---	---	---	9.2	4.1
7	e0.00	---	---	---	---	---	---	---	---	---	9.9	4.1
8	---	---	---	---	---	---	---	---	---	---	9.9	4.1
9	---	---	---	---	---	---	---	---	---	0	9.8	4.1
10	---	---	---	---	---	---	---	---	---	0	9.4	4.1
11	---	---	---	---	---	---	---	---	---	0	9.1	4.1
12	---	---	---	---	---	---	---	---	---	0	8.6	4.1
13	---	---	---	---	---	---	---	---	---	0	8.4	4.1
14	---	---	---	---	---	---	---	---	---	0	8.1	4.1
15	---	---	---	---	---	---	---	---	---	0	7.8	4.1
16	---	---	---	---	---	---	---	---	---	0	7.5	3.7
17	---	---	---	---	---	---	---	---	---	0	7.3	3.1
18	---	---	---	---	---	---	---	---	---	0	7.3	3.2
19	---	---	---	---	---	---	---	---	---	0	7.2	3.2
20	---	---	---	---	---	---	---	---	---	0	7.1	3.2
21	---	---	---	---	---	---	---	---	---	0	6.9	3.2
22	---	---	---	---	---	---	---	---	---	0	6.7	3.3
23	---	---	---	---	---	---	---	---	---	0.02	6.4	3.3
24	---	---	---	---	---	---	---	---	---	0.1	6	3.3
25	---	---	---	---	---	---	---	---	---	0.17	5.8	3.7
26	---	---	---	---	---	---	---	---	---	0.25	5.6	4.4
27	---	---	---	---	---	---	---	---	---	0.33	5.4	4.4
28	---	---	---	---	---	---	---	---	---	0.45	5.2	4.5
29	---	---	---	---	---	---	---	---	---	0.56	5	4.5
30	---	---	---	---	---	---	---	---	---	0.7	4.7	4.5
31	---	---	---	---	---	---	---	---	---	0.85	4.5	---
<b>Total</b>	0	---	---	---	---	---	---	---	---	3.43	201.3	117.8
<b>Mean</b>	0	---	---	---	---	---	---	---	---	0.14	6.49	3.92
<b>Max</b>	0	---	---	---	---	---	---	---	---	0.85	9.9	4.5
<b>Min</b>	0	---	---	---	---	---	---	---	---	0	1	3.1
<b>AC-FT</b>	0	---	---	---	---	---	---	---	---	6.8	399	234

<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	110	<b>MEAN</b>	0.69	<b>MAX</b>	3	<b>MIN</b>	0	<b>AC-FT</b>	217	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	323	<b>MEAN</b>	3.51	<b>MAX</b>	10	<b>MIN</b>	0	<b>AC-FT</b>	640	

**APPENDIX A  
CANAL DIVERSIONS 2015**

2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

**124000 Potmesil Canal from Niobrara River  
DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCT 2014 TO SEP 2015  
Daily Mean Values**

Day	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15
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	---	---	---	---	---	---	---	---	---	---	---	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>AC-FT</b>	---	---	---	---	---	---	---	---	---	---	---	---
<b>CAL</b>												
<b>YEAR</b>	2014	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	
<b>WTR</b>												
<b>YEAR</b>	2015	<b>TOTAL</b>	0	<b>MEAN</b>	0	<b>MAX</b>	0	<b>MIN</b>	0	<b>AC-FT</b>	0	

**APPENDIX B**  
**NON-GAGED MEASUREMENTS 2015**  
2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL  
RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE  
NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

<b>Date</b>	<b>Site number</b>	<b>Site Name</b>	<b>Discharge</b>
4/21/2015	6400	Armstrong Pump fr Niobrara River	0
6/2/2015	6400	Armstrong Pump fr Niobrara River	0
6/24/2015	6400	Armstrong Pump fr Niobrara River	0
6/30/2015	6400	Armstrong Pump fr Niobrara River	0
7/7/2015	6400	Armstrong Pump fr Niobrara River	0
7/14/2015	6400	Armstrong Pump fr Niobrara River	0
7/21/2015	6400	Armstrong Pump fr Niobrara River	0
7/28/2015	6400	Armstrong Pump fr Niobrara River	0
8/4/2015	6400	Armstrong Pump fr Niobrara River	0
8/11/2015	6400	Armstrong Pump fr Niobrara River	0
8/18/2015	6400	Armstrong Pump fr Niobrara River	0
8/25/2015	6400	Armstrong Pump fr Niobrara River	0
9/8/2015	6400	Armstrong Pump fr Niobrara River	0
4/22/2015	6380	Cook Pump fr Niobrara River	0
4/30/2015	6380	Cook Pump fr Niobrara River	0
5/5/2015	6380	Cook Pump fr Niobrara River	0
6/3/2015	6380	Cook Pump fr Niobrara River	0
6/30/2015	6380	Cook Pump fr Niobrara River	0
7/7/2015	6380	Cook Pump fr Niobrara River	1.45
7/14/2015	6380	Cook Pump fr Niobrara River	0
7/22/2015	6380	Cook Pump fr Niobrara River	0
7/28/2015	6380	Cook Pump fr Niobrara River	0
8/4/2015	6380	Cook Pump fr Niobrara River	1.23
8/11/2015	6380	Cook Pump fr Niobrara River	1.34
8/18/2015	6380	Cook Pump fr Niobrara River	1.23
8/25/2015	6380	Cook Pump fr Niobrara River	0
9/1/2015	6380	Cook Pump fr Niobrara River	0
9/8/2015	6380	Cook Pump fr Niobrara River	0
7/2/2015	6440	Delsing Pump fr Niobrara River	0.99
7/9/2015	6440	Delsing Pump fr Niobrara River	0.99
7/14/2015	6440	Delsing Pump fr Niobrara River	0
7/16/2015	6440	Delsing Pump fr Niobrara River	0
8/6/2015	6440	Delsing Pump fr Niobrara River	0.99
8/13/2015	6440	Delsing Pump fr Niobrara River	0.99
8/20/2015	6440	Delsing Pump fr Niobrara River	0
8/28/2015	6440	Delsing Pump fr Niobrara River	0
9/14/2015	6440	Delsing Pump fr Niobrara River	0

**APPENDIX B**  
**NON-GAGED MEASUREMENTS 2015**  
2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL  
RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE  
NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

<b>Date</b>	<b>Site number</b>	<b>Site Name</b>	<b>Discharge</b>
7/20/2015	6130	Harris-Cooper Canal fr White River	0
8/12/2015	6130	Harris-Cooper Canal fr White River	0
3/31/2015	3500	Indian Creek near Whitney	0.48
8/5/2015	6335	Meister Pump fr Bordeaux Creek	2.7
4/13/2015	6445	Montague Canal Pump fr Niobrara River	0
5/4/2015	6445	Montague Canal Pump fr Niobrara River	0
7/2/2015	6445	Montague Canal Pump fr Niobrara River	0
7/9/2015	6445	Montague Canal Pump fr Niobrara River	0
7/23/2015	6445	Montague Canal Pump fr Niobrara River	0
8/6/2015	6445	Montague Canal Pump fr Niobrara River	0
8/13/2015	6445	Montague Canal Pump fr Niobrara River	0
8/20/2015	6445	Montague Canal Pump fr Niobrara River	0
8/28/2015	6445	Montague Canal Pump fr Niobrara River	0
9/14/2015	6445	Montague Canal Pump fr Niobrara River	0
4/30/2015	6379	Niobrara River 600' upstream Cook Canal	12.9
4/13/2015	3750	Niobrara River at old Dunlap Bridge	10.4
7/2/2015	3750	Niobrara River at old Dunlap Bridge	18.8
4/30/2015	6366	Niobrara River at Wilson's Culvert (5' culvert)	6.27
4/30/2015	6369	Niobrara River Road into Joe Nunn's (3.5' culvert)	11.8
4/30/2015	6368	Niobrara River Road into Neil Nunn's (4' culvert)	7.48
4/30/2015	6381	Niobrara River Road into Sandoz house(4' culvert)	17.7
8/5/2015	6325	Pinkerton Pump fr Bordeaux Creek	0
4/16/2015	6425	Pioneer Pump #2 fr Niobrara River	0
7/9/2015	6425	Pioneer Pump #2 fr Niobrara River	0
7/16/2015	6425	Pioneer Pump #2 fr Niobrara River	0
7/23/2015	6425	Pioneer Pump #2 fr Niobrara River	0
8/6/2015	6425	Pioneer Pump #2 fr Niobrara River	0
8/13/2015	6425	Pioneer Pump #2 fr Niobrara River	0
8/20/2015	6425	Pioneer Pump #2 fr Niobrara River	0
8/28/2015	6425	Pioneer Pump #2 fr Niobrara River	0
9/3/2015	6425	Pioneer Pump #2 fr Niobrara River	0
3/24/2015	3390	Squaw Creek above Squaw Creek Reservoir	0.23
4/28/2015	3390	Squaw Creek above Squaw Creek Reservoir	0.4
5/15/2015	3390	Squaw Creek above Squaw Creek Reservoir	0.86
9/21/2015	3390	Squaw Creek above Squaw Creek Reservoir	0.07
3/24/2015	3400	Squaw Creek below Squaw Creek Reservoir	0.16
4/28/2015	3400	Squaw Creek below Squaw Creek Reservoir	0.32

**APPENDIX B**  
**NON-GAGED MEASUREMENTS 2015**  
 2016 ANNUAL REPORT OF 2015 DATA, BY THE DEPARTMENT OF NATURAL  
 RESOURCES TO MEET THE REQUIREMENTS OF THE UPPER NIOBRARA WHITE  
 NATURAL RESOURCES DISTRICT INTEGRATED MANAGEMENT PLAN

<b>Date</b>	<b>Site number</b>	<b>Site Name</b>	<b>Discharge</b>
5/15/2015	3400	Squaw Creek below Squaw Creek Reservoir	0.85
7/20/2015	6105	White River Canal fr White River	0
8/12/2015	6105	White River Canal fr White River	7.37
4/20/2015	6165	Whitney Pipeline fr White River	0
7/20/2015	6165	Whitney Pipeline fr White River	0
10/2/2014	6149	Whitney Reservoir	7030
1/20/2015	6149	Whitney Reservoir	9260
6/23/2015	6149	Whitney Reservoir	8830
7/20/2015	6149	Whitney Reservoir	10412
7/9/2015	6430	Wilkins Pump fr Niobrara River	0
8/6/2015	6430	Wilkins Pump fr Niobrara River	0
8/28/2015	6430	Wilkins Pump fr Niobrara River	0