



## Grant All-Detail Report Disaster Relief 2016

**Grant Title** - 2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)

**Grant ID** - P16-6110

**Organization** - Marshall SWCD

<b>Grant Awarded Amount</b>	<b>\$189,924.00</b>	<b>Grant Execution Date</b>	<b>9/1/2015</b>
<b>Required Match Amount</b>	<b>\$0.00</b>	<b>Grant End Date</b>	<b>12/31/2017</b>
<b>Required Match %</b>	<b>0%</b>	<b>Grant Day To Day Contact</b>	<b>Darren Carlson</b>

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$189,924.00	\$189,924.00	\$0.00
Total Match Amount	\$0.00	\$0.00	\$0.00
Total Other Funds	\$37,196.21	\$37,196.21	\$0.00
<b>Total</b>	<b>\$227,120.21</b>	<b>\$227,120.21</b>	<b>\$0.00</b>

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Damon Stroble DRAP-03	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$1,440.00	\$1,440.00	10/26/2017	N
Damon Stroble DRAP-03	Agricultural Practices	Landowner Fund	Landowner Fund	\$160.00	\$160.00	10/26/2017	N
Engineering Expense	Technical/Engineering Assistance	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$30,810.00	\$30,810.00	12/8/2017	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Garth Kruger DRAP-04	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$33,394.50	\$33,394.50	8/15/2017	N
Garth Kruger DRAP-04	Agricultural Practices	Landowner Fund	Landowner Fund	\$3,710.50	\$3,710.50	8/15/2017	N
JD 8 Streambank Stabilization	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$0.00			N
Joey Potucek DRAP-01	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$41,743.72	\$41,743.72	11/1/2016	N
Joey Potucek DRAP-01	Agricultural Practices	Landowner Fund	Landowner Fund	\$4,638.19	\$4,638.19	11/1/2016	N
Johnson Farms DRAP-02	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$2,030.40	\$2,030.40	10/5/2017	N
Johnson Farms DRAP-02	Agricultural Practices	Landowner Fund	Landowner Fund	\$225.60	\$225.60	10/5/2017	N
MRSRWD - JD 29	Agricultural Practices	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$75,142.98	\$75,142.98	11/28/2017	N
MRSRWD - JD 29	Agricultural Practices	Landowner Fund	Landowner Fund	\$28,461.92	\$28,461.92	11/28/2017	N
Marshall SWCD Technical Assistance	Technical/Engineering Assistance	Current State Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)	\$5,362.40	\$5,362.40	12/7/2017	N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control Basin	7	7	7 COUNT	7 COUNT
410 - Grade Stabilization Structure	2	1	1 COUNT	1 COUNT
410 - Grade Stabilization Structure	3	3	3 COUNT	3 COUNT
412 - Grassed Waterway and Swales	1	1	3000 LINEAR FEET	3000 LINEAR FEET

## Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
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### Final Indicators Summary

Indicator Name	Total Value	Unit
<b>SEDIMENT (TSS)</b>	4,166.00	TONS/YR
<b>PHOSPHORUS (EST. REDUCTION)</b>	2,222.00	LBS/YR
<b>SOIL (EST. SAVINGS)</b>	2,594.00	TONS/YR

### Grant Activity

Grant Activity - Damon Stroble DRAP-03			
<b>Description</b>	One Side Water Inlet (SWI) will be installed in the NE 1/4 of Warrenton Township Section 4 adjacent to County Ditch 3 which is located within the Middle River/Snake River Watershed. A 27 acre watershed will be protected by this Side Water Inlet.		
<b>Category</b>	AGRICULTURAL PRACTICES		
<b>Start Date</b>	12-Oct-17	<b>End Date</b>	17-Oct-17
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	One Side Water Inlet (SWI) was installed in the fall of 2017 by Huffey Excavation of Newfolden, MN. Jim Hest, RRVCSA Engineer, approved the installation of the project. This project will help keep sediment out of County Ditch 3, which eventually reaches the Snake River.		

Activity Action - Damon Stroble DRAP-03			
<b>Practice</b>	410 - Grade Stabilization Structure	<b>Count of Activities</b>	1
<b>Description</b>	One Side Water Inlet (SWI) was installed in the NE 1/4 of Warrenton Township Section 4 adjacent to County Ditch 3 which is located within the Middle River/Snake River Watershed. A 27 acre watershed will be protected by this Side Water Inlet. Huffey Excavation of Newfolden, MN installed the project.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	17-Oct-17
<b>Mapped Activities</b>	1 Point(s)		

Final Indicator for Damon Stroble DRAP-03			
Indicator Name	SOIL (EST. SAVINGS)	Value	89
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	County Ditch 3		
Final Indicator for Damon Stroble DRAP-03			
Indicator Name	SEDIMENT (TSS)	Value	89
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	County Ditch 3		
Final Indicator for Damon Stroble DRAP-03			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	89
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	County Ditch 3		

Grant Activity - Engineering Expense			
Description	The Marshall SWCD will use these funds to help offset the expense of using a Professional Engineer (PE). The Marshall SWCD will use the expertise of the Red River Valley Conservation Service Engineer, Jim Hest out of Grygla, MN and Houston Engineering out of Thief River Falls, MN. Jim has assisted the Mashall SWCD recently with numerous engineered conservation practices. Houston Engineering has assisted the Middle Snake River Watershed District with numerous engineering projects.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	3-Sep-15	End Date	08-Dec-17
Has Rates and Hours?	No		
Actual Results	The Marshall SWCD worked with Jim Hest, Professional Engineer out of Grygla, MN for the Red River Valley Conservation Service Area (RRVCSA) and Houton Engineering out of Thief River Falls, MN. 5 Side Water Inlets (SWIs), 7 Water and Sediment Control Basins with 1,860 feet of drainage tile, 3,100 feet of Grassed Waterway and close to one mile of Critical Area Planting and Outlet Repair work were designed, installed and signed off on.		

**Grant Activity - Garth Kruger DRAP-04**

<b>Description</b>	A Grassed Waterway and Side Water Inlets (3) will be constructed and shaped where it is currently is eroding in the Northeast Quarter of McCrea Township Section 2. This intermittent stream is also know as the Swift Coulee. Area was surveyed in 2016 and after a design is complete, construction will take place in 2017.		
<b>Category</b>	AGRICULTURAL PRACTICES		
<b>Start Date</b>	22-Oct-15	<b>End Date</b>	15-Aug-17
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	A grassed waterway was constructed to standards and specifications by Kraulik Excavating, Karlstad MN. This grassed waterway is 3,100 feet in length and was shaped/constructed, sloped and seeded to a critical area seed mix. This also had 3 Side Water Inlets (SWIs) installed in conjunction with the grassed waterway. Jim Hest, Red River Valley Conservation Service Area (RRVCSA) conservation engineer designed the project and also certified that it was installed correctly on 8/1/17.		

**Activity Action - Kruger Grassed Waterway DRAP - 04**

<b>Practice</b>	412 - Grassed Waterway and Swales	<b>Count of Activities</b>	1
<b>Description</b>	A Grassed Waterway and 3 Side Water Inlets (SWIs) were constructed and shaped where it was eroding in the Northeast Quarter of McCrea Township Section 2. This intermittent stream is also know as the Swift Coulee. Area was surveyed in 2016, a design was completed in spring 2017 and construction took place in the summer of 2017. Kraulik Excavating of Karlstad, MN were the contractors on site.		
<b>Proposed Size / Units</b>	3,000.00 LINEAR FEET	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	3,000.00 LINEAR FEET	<b>Installed Date</b>	1-Aug-17
<b>Mapped Activities</b>	1 Polygon(s)		

**Final Indicator for Kruger Grassed Waterway DRAP - 04**

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	1485
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	BWSR CALC (STREAM & DITCH STABILIZATION)
<b>Waterbody</b>	Swift Coulee		

**Final Indicator for Kruger Grassed Waterway DRAP - 04**

<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	1485
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	BWSR CALC (STREAM & DITCH STABILIZATION)
<b>Waterbody</b>	Swift Coulee		

Final Indicator for Kruger Grassed Waterway DRAP - 04			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1262
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Swift Coulee		

Grant Activity - JD 8 Streambank Stabilization			
Description	Marshall County approached the Marshall SWCD. Judicial Ditch 8 in Eagle Point Township Section 15 & 16 was severely eroding and down cutting. Marshall County was looking for assistance cost share as they had surveyed and designed a plan to fix the ditch. As the project was nearing completion, Marshall County found out that FEMA was going to cover the entire project, hence no need for DRAP Funds.		
Category	AGRICULTURAL PRACTICES		
Start Date	3-Sep-15	End Date	31-Dec-15
Has Rates and Hours?	No		
Actual Results	JD 8 was sloped and reshaped as designed by the Marshall County Engineers and cost share assistance was obtained from another source. DRAP funds will not be used for this project.		

Grant Activity - Joey Potucek DRAP-01			
Description	Joey Potucek DRAP-01 - Massive erosion in the SW 1/4 of New Maine Township Section 32, going directly into the Middle River. Survey was completed in the Spring of 2016. Conservation Engineer stated that Water and Sediment Control Basins (WASCBS) will be able to work. 7 WASCBS will be installed either in the fall of 2016 or spring 2017. Marshall SWCD Board approved up to 90% cost share assistance.		
Category	AGRICULTURAL PRACTICES		
Start Date	5-Oct-16	End Date	19-Oct-16
Has Rates and Hours?	No		
Actual Results	7 Water and Sediment Control Basins (WASCBS) were installed along with 2,850 feet of tile according to NRCS standards and specifications. Huffly Excavation of Newfolden, MN was the contractor. Jim Hest, Conservation Engineer, approved the project once it was installed.		

Activity Action - Joey Potucek DRAP-01			
Practice	638 - Water and Sediment Control Basin	Count of Activities	7
Description	Joey Potucek DRAP-01 - Massive erosion in the SW 1/4 of New Maine Township Section 32, going directly into the Middle River. Survey was completed in the Spring of 2016. Conservation Engineer stated that Water and Sediment Control Basins (WASCBS) will be able to work. 7 WASCBS were installed in the fall of 2016. Marshall SWCD Board approved up to 90% cost share assistance.		
Proposed Size / Units	7.00 COUNT	Lifespan	10 Years
Actual Size/Units	7.00 COUNT	Installed Date	19-Oct-16
Mapped Activities	7 Point(s)		

Final Indicator for Joey Potucek DRAP-01			
Indicator Name	SEDIMENT (TSS)	Value	990
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Middle River		
Final Indicator for Joey Potucek DRAP-01			
Indicator Name	SOIL (EST. SAVINGS)	Value	990
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Middle River		
Final Indicator for Joey Potucek DRAP-01			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	841
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Middle River		

**Grant Activity - Johnson Farms DRAP-02**

<b>Description</b>	Johnson Farms DRAP-02 - Side Water Inlet (SWI) is needed in the SE 1/4 of Viking Twp. Section 4 to help protect Judicial Ditch 15. Survey was done in the spring of 2016 with construction to take place in Fall of 2016 or Spring of 2017. A 17 acre watershed will be protected by this Side Water Inlet (SWI). Robert Wesolowski has taken over control of this contract.		
<b>Category</b>	AGRICULTURAL PRACTICES		
<b>Start Date</b>	12-Sep-17	<b>End Date</b>	13-Sep-17
<b>Has Rates and Hours?</b>	No		
<b>Actual Results</b>	One Side Water Inlet (SWI) was installed in the fall of 2017 by Huffey Excavation of Newfolden, MN. Jim Hest, RRVCSA Engineer, approved the installation of the project. This structure will help keep sediment out of JD 15, which drains to the Snake River.		

<b>Activity Action - Johnson Farms DRAP-02</b>			
<b>Practice</b>	410 - Grade Stabilization Structure	<b>Count of Activities</b>	1
<b>Description</b>	One Side Water Inlet (SWI) was installed to protect a 17 acre watershed. SWI was installed by Huffey Excavation of Newfolden, MN. This structure will help keep sediment out of JD 15, which drains to the Snake River.		
<b>Proposed Size / Units</b>	1.00 COUNT	<b>Lifespan</b>	10 Years
<b>Actual Size/Units</b>	1.00 COUNT	<b>Installed Date</b>	13-Sep-17
<b>Mapped Activities</b>	1 Point(s)		

**Final Indicator for Johnson Farms DRAP-02**

<b>Indicator Name</b>	PHOSPHORUS (EST. REDUCTION)	<b>Value</b>	30
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	<b>Calculation Tool</b>	BWSR CALC (GULLY STABILIZATION)
<b>Waterbody</b>	JD 15 - Branch B		

**Final Indicator for Johnson Farms DRAP-02**

<b>Indicator Name</b>	SOIL (EST. SAVINGS)	<b>Value</b>	30
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	BWSR CALC (GULLY STABILIZATION)
<b>Waterbody</b>	JD 15 - Branch B		

**Final Indicator for Johnson Farms DRAP-02**

<b>Indicator Name</b>	SEDIMENT (TSS)	<b>Value</b>	30
<b>Indicator Subcategory/Units</b>	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	<b>Calculation Tool</b>	BWSR CALC (GULLY STABILIZATION)
<b>Waterbody</b>	JD 15 - Branch B		



Grant Activity - MRSRWD - JD 29			
Description	Middle-Snake-Tamarac Watershed District staff approached the Marshall SWCD. Judicial Ditch 29, Lat. 1 and Lat. 2 in Fork Township were severely eroding and down cutting and their outlets before entering the Snake River. The Watershed District is working with Houston Engineering for a design to fix these outlet areas.		
Category	AGRICULTURAL PRACTICES		
Start Date	1-Aug-17	End Date	06-Nov-17
Has Rates and Hours?	No		
Actual Results	Outlet repair/Grade Stabilization Structures completed on Judicial Ditch #29 Main Ditch, along with Lateral #1 and #2. Houston Engineering came up with a design to repair the ditches and they also certified that the practices were installed correctly. R.J Zavoral & Sons, Inc. of East Grand Forks, MN and The Spruce Valley Corporation of Middle River, MN were the contractors for the project.		

Activity Action - MRSRWD - JD 29			
Practice	410 - Grade Stabilization Structure	Count of Activities	3
Description	Outlet repair completed on Judicial Ditch #29 Main Ditch, along with Lateral #1 and #2. Houston Engineering came up with a design to repair the ditches and they also certified that the practices were installed correctly. R.J Zavoral & Sons, Inc. out of East Grand Forks, MN and The Spruce Valley Corporation out of Middle River, MN were the contractors for the project.		
Proposed Size / Units	3.00 COUNT	Lifespan	10 Years
Actual Size/Units	3.00 COUNT	Installed Date	13-Nov-17
Mapped Activities	3 Line(s)		

Final Indicator for MRSRWD - JD 29			
Indicator Name	SEDIMENT (TSS)	Value	1572
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	JD 29 & lat. 1 & 2		

## Grant Activity - Marshall SWCD Technical Assistance

<b>Description</b>	Marshall SWCD will use funds to help with Technical Assistance of this program.		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	3-Sep-15	<b>End Date</b>	07-Dec-17
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	Marshall SWCD used staff 123.5 hours to administer the Disaster Relief Assistance Program (DRAP) for years 2016 and 2017. Staff hours were used for creating maps, site visits, construction checks, construction checkouts, creating contracts and vouchers, writing in the conservation assistance notes, creating folders and documenting the project in Elink.		

## Grant Attachments

Document Name	Document Type	Description
<b>2014 DR-4182 Flood Relief Phase 2</b>	Grant Agreement	2014 DR-4182 Flood Relief Phase 2 - Marshall SWCD
<b>2014 DR-4182 Flood Relief Phase 2 executed</b>	Grant Agreement	2014 DR-4182 Flood Relief Phase 2 - Marshall SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/27/2016
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/20/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 12/12/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/10/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/06/2017
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 02/09/2018
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 03/29/2016
<b>DRAP Project List</b>	Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)
<b>DRAP Project List 2</b>	Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)
<b>DRAP Project List 3</b>	Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)
<b>DRAP Project List 4</b>	Journal	Journal Dated - 07/31/2017
<b>Final Financial Report</b>	Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)
<b>Marshall SWCD Final DRAP Program Log</b>	Grant	2014 - Minnesota Flood Relief Grant Phase 2 (Marshall SWCD)
<b>P16-6110 Financial Reconciliation Checklist-Report</b>	Journal	Journal Dated - 12/18/2017