



## Grant All-Detail Report Projects and Practices 2019

**Grant Title** - Sherburne County Targeted Nitrate Reduction BMP Implementation

**Grant ID** - C19-2871

**Organization** - Sherburne SWCD

Original Awarded Amount	<b>\$105,806.00</b>	Grant Execution Date	<b>3/4/2019</b>
Required Match Amount	\$26,451.50	Original Grant End Date	12/31/2021
Required Match %	25%	Grant Day To Day Contact	Francine Larson
Current Awarded Amount	\$105,806.00	Current End Date	12/31/2021

### Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$105,806.00	\$26,920.89	\$78,885.11
Total Match Amount	\$26,500.00	\$19,560.82	\$6,939.18
Total Other Funds	\$0.00	\$0.00	\$0.00
<b>Total</b>	<b>\$132,306.00</b>	<b>\$46,481.71</b>	<b>\$85,824.29</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
Administration	Administration /Coordination	Current State Grant	Sherburne County Targeted Nitrate Reduction BMP Implementati..	\$1,640.00	\$397.37	12/12/2019	N
Irrigation Water Management	Technical/Engineering Assistance	Current State Grant	Sherburne County Targeted Nitrate Reduction BMP Implementati..	\$4,420.00	\$3,099.01	12/2/2019	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Outreach and Education	Education/Information	Current State Grant	Sherburne County Targeted Nitrate Reduction BMP Implementati..	\$10,000.00	\$2,531.82	6/24/2019	N
Practice Implementation	Agricultural Practices	Current State Grant	Sherburne County Targeted Nitrate Reduction BMP Implementati..	\$56,000.00	\$10,161.58	9/19/2019	N
Practice Implementation	Agricultural Practices	Landowner Fund	Match	\$16,000.00	\$13,407.64	9/19/2019	Y
Program Development	Project Development	Current State Grant	Sherburne County Targeted Nitrate Reduction BMP Implementati..	\$8,606.00	\$5,309.88	12/26/2019	N
Program Development	Project Development	Local Fund	Match	\$10,500.00	\$6,153.18	12/2/2019	Y
Technical Engineering	Technical/Engineering Assistance	Current State Grant	Sherburne County Targeted Nitrate Reduction BMP Implementati..	\$25,140.00	\$5,421.23	12/2/2019	N

### Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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### Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
<b>Practice Implementation</b>	NUTRIENTS (NITRATE)	125 LBS/YR	Groundwater	Literature Value	NRCS Tech Note
<b>Practice Implementation</b>	SOIL (EST. SAVINGS)	5 TONS/YR	Nearby Surface Water	WEPS (Wind Erosion Prediction System)	

## Final Indicators Summary

Indicator Name	Total Value	Unit
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### Grant Activity

Grant Activity - Administration		
Description	Grant administration including time tracking, eLINK reporting and Board discussion and contract approval.	
Category	ADMINISTRATION/COORDINATION	
Start Date	6-Mar-19	End Date
Has Rates and Hours?	Yes	
Actual Results	Funds were used to administer the Nitrate program including, but not limited to, grant tracking, time/expense tracking, Board discussion, and e-Link reporting.	

Grant Activity - Irrigation Water Management		
Description	<p>Funds will be used to pay for annual subscription for 6 Agsense units along with maintenance of the equipment. This includes staff time for installing and maintaining equipment.</p> <p>Funds will also be used to provide ET Information to county Irrigators to help them manage according to BMPs. Staff time for ET reporting.</p>	
Category	TECHNICAL/ENGINEERING ASSISTANCE	
Start Date	6-Mar-19	End Date
Has Rates and Hours?	Yes	
Actual Results	Funds are used as intended	

## Grant Activity - Outreach and Education

<b>Description</b>	<p>Funds will be used towards expenses to host three field days over the course of the grant. This will include both staff time and expenses.</p> <p>Funds will also be used towards installation of at least one BMP demonstration plot per year to assist with the annual field day.</p> <p>Demonstration plots will help build relationships with area operators while we demonstrate BMPs. This outreach will help us maintain contact with our farmers and also gain their interest after the three year grant period. We also know that we have buy -in for nitrate reduction because we have landowners attend volunteer meetings to discuss high nitrates and issues in Sherburne County. We have had interest in BMPS and we know that this will continue to be a resource concern into the future unless we work toward a common goal.</p> <p>We are reaching out to our landowners to gauge interest in this coming year for practices to demonstrate. We are looking to focus this year on demonstrating different ways of incorporating cover crops into a corn/soybean rotation, Irrigation Water Management, and we also have at least one landowner interested in trying different forms of Nitrogen and monitoring to see the difference in leaching potential over the growing season. We are hoping to have some single year demonstrations and multi year demonstrations depending on the practice and what we are trying to show.</p>		
<b>Category</b>	EDUCATION/INFORMATION		
<b>Start Date</b>	6-Mar-19	<b>End Date</b>	
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	Funds are used as intended		

## Grant Activity - Practice Implementation

<b>Description</b>	<p>The alternative to reduction of input is groundwater treatment which is neither cost effective or sustainable for cities and private well owners. The proposed BMP implementation goal addresses the cause of the resource concern, provides numerous secondary benefits, and is a long-term solution. The practices that we will be promoting under this proposal are widely accepted but not substantially adopted in Sherburne County. The Minnesota Department of Agriculture (MDA) is promoting these practices as part of the Nitrogen Fertilizer Plan. Our goal is to implement 30 projects over a 3-year span.</p> <p>Rates are based on 2018 EQIP Financial Assistance Payment Rates</p> <table border="0"> <tr> <td>Forage and Biomass Planting 512</td> <td>\$100/ac</td> </tr> <tr> <td>IWM - Advanced Upgrade 449</td> <td>\$1200/each</td> </tr> <tr> <td>IWM Basic 449</td> <td>\$10/ac</td> </tr> <tr> <td>IWM Advanced 449</td> <td>\$15/ac</td> </tr> <tr> <td>Cover Crops 3 species 340</td> <td>\$45/ac</td> </tr> <tr> <td>Cover Crops 4 species 340</td> <td>\$55/ac</td> </tr> <tr> <td>Cover Crops Interseeding 340</td> <td>\$75/ac</td> </tr> <tr> <td>Alternative Crop 328</td> <td>\$25/ac</td> </tr> <tr> <td>N Inhibitor</td> <td>\$30/ac</td> </tr> <tr> <td>Native or Pollinator Cover 643</td> <td>\$600/ac</td> </tr> <tr> <td>CRP Incentive</td> <td>\$100/ac</td> </tr> </table> <p>Max of \$3000 per practice</p> <p>Most practices would be one time payments ie install advanced unit for IWM, planting an alternative crop, etc etc. Payment in IWM would not exceed three years.</p> <p>The board adopted an updated Nonstructural Land Management Policy. Policy has been uploaded into eLink.</p>		Forage and Biomass Planting 512	\$100/ac	IWM - Advanced Upgrade 449	\$1200/each	IWM Basic 449	\$10/ac	IWM Advanced 449	\$15/ac	Cover Crops 3 species 340	\$45/ac	Cover Crops 4 species 340	\$55/ac	Cover Crops Interseeding 340	\$75/ac	Alternative Crop 328	\$25/ac	N Inhibitor	\$30/ac	Native or Pollinator Cover 643	\$600/ac	CRP Incentive	\$100/ac
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<b>Category</b>	AGRICULTURAL PRACTICES																							
<b>Start Date</b>	6-Mar-19	<b>End Date</b>																						
<b>Has Rates and Hours?</b>	No																							
<b>Actual Results</b>	Funds are used as intended																							

## Grant Activity - Program Development

<b>Description</b>	Funds will be used toward targeting operations in the high priority areas for installing BMPs for Nitrate reduction and interest in hosting demonstration sites.		
	Funds will also be used for contacting local Co-Ops and Dealers so that we can increase awareness of Nitrate Reduction BMPS.		
	Funds will be used towards staff time spent promoting Nitrate reducing BMP's at educational events.		
	Funds will be used to create advertisements for Best management practices for nitrate reduction.		
<b>Category</b>	PROJECT DEVELOPMENT		
<b>Start Date</b>	6-Mar-19	<b>End Date</b>	
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	Funds are used as intended		

## Grant Activity - Technical Engineering

<b>Description</b>	Staff time will be spent working directly with landowners including: developing and planning BMP and AMTs for specific operation needs, conducting fields visits, and communication with landowners.		
	Miranda Wagner has JAA for all practices included in the grant. Documentation available upon request.		
<b>Category</b>	TECHNICAL/ENGINEERING ASSISTANCE		
<b>Start Date</b>	6-Mar-19	<b>End Date</b>	
<b>Has Rates and Hours?</b>	Yes		
<b>Actual Results</b>	Funds are used as intended		

## Grant Attachments

Document Name	Document Type	Description
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Document Name	Document Type	Description
<b>2019 Competitive Grant</b>	Grant Agreement	2019 Competitive Grant - Sherburne SWCD
<b>2019 Competitive Grant EXECUTED</b>	Grant Agreement	2019 Competitive Grant - Sherburne SWCD
<b>All Details Report</b>	Workflow Generated	Workflow Generated - All Details Report - 01/16/2020
<b>Application</b>	Workflow Generated	Workflow Generated - Application - 08/30/2018
<b>NLMP_03142019</b>	Grant	Sherburne County Targeted Nitrate Reduction BMP Implementation
<b>Sherburne County Nitrate Levels and Soil Vulnerability</b>	Grant	Sherburne County Targeted Nitrate Reduction BMP Implementation
<b>Sherburne County Nitrate Levels and Soil Vulnerability</b>	Grant	Sherburne County Targeted Nitrate Reduction BMP Implementation
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 02/04/2019
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 01/09/2019
<b>Work Plan</b>	Workflow Generated	Workflow Generated - Work Plan - 12/19/2018