



Grant All-Detail Report 2011 - Clean Water Assistance

Grant Title - 2011 - Clean Water Assistance - Sherburne (SWCD)

Grant ID - C13-1067

Organization - Sherburne SWCD

Original Awarded Amount	\$149,104.00	Grant Execution Date	
Required Match Amount	\$37,276.00	Original Grant End Date	1/1/2020
Required Match %	25%	Grant Day To Day Contact	Francine Larson
Current Awarded Amount	\$149,104.00	Current End Date	1/1/2020

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$122,657.23	\$149,104.00	\$0.00
Total Match Amount	\$59,581.15	\$59,581.15	\$0.00
Total Other Funds	\$7,963.81	\$7,963.81	\$0.00
Total	\$190,202.19	\$216,648.96	\$0.00

*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
2011 CWF Elk River Watershed Pollution Loading Reduction Project - Project Development	Project Development	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$14,807.50	\$17,932.72	12/16/2013	N
2011 CWF Elk River Watershed Pollution Loading Reduction Project - Project Development	Project Development	Local Fund	CWF11 Benton SWCD Match	\$937.50	\$937.50	12/16/2013	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction	Matching
						Date	Fund
2011 CWF Elk River Watershed Pollution Loading Reduction Project - Technical and Engineering	Technical/Engineering Assistance	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$6,822.45	\$30,144.00	12/16/2013	N
2011 CWF Elk River Watershed Pollution Loading Reduction Project - Technical and Engineering	Technical/Engineering Assistance	Local Fund	CWF11 Benton SWCD Match	\$2,812.50	\$2,812.50	12/16/2013	Y
2011 CWF Elk River Watershed Pollution Loading Reduction Project Administration	Administration /Coordination	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$7,455.00	\$7,455.00	12/16/2013	N
A. Walcheski 2012 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	11/19/2012	N
A. Walcheski 2012 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	11/19/2012	Y
Andreen shoreland buffer	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$844.00	\$844.00	9/19/2011	N
Andreen shoreland buffer	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$417.67	\$417.67	9/19/2011	Y
B. Kaschmitter 2012 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	11/19/2012	N
B. Kaschmitter 2012 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	11/19/2012	Y
B. Kaschmitter 2013 Test Plots	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	11/18/2013	N
B. Kaschmitter 2013 Test Plots	Non-Structural Management Practices	Landowner Fund	Owner Match	\$300.00	\$300.00	11/18/2013	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
B. Kascmitter 2011 Test Plots	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	11/21/2011	N
B. Kascmitter 2011 Test Plots	Non-Structural Management Practices	Landowner Fund	Landowner match	\$300.00	\$300.00	11/21/2011	Y
B. Thell 2011 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	11/21/2011	N
B. Thell 2011 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	11/21/2011	Y
Baldwin Access Stormwater BMPs	Urban Stormwater Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$3,233.76	\$3,233.76	11/19/2012	N
Baldwin Access Stormwater BMPs	Urban Stormwater Management Practices	Local Fund	CWF11 Sherburne Landowner Fund	\$1,665.31	\$1,665.31	11/7/2012	Y
Baldwin Access Stormwater BMPs	Urban Stormwater Management Practices	Other Funds	2010 Cost Share Base Grant - Sherburne (SWCD)	\$608.60	\$608.60	11/7/2012	N
Baldwin Access Stormwater BMPs	Urban Stormwater Management Practices	Other Funds	2011 Cost Share Base Grant - Sherburne (SWCD)	\$5,804.80	\$5,804.80	11/7/2012	N
Baldwin Access Stormwater BMPs	Urban Stormwater Management Practices	Other Funds	CWF11 Sherburne Landowner Fund	\$1,550.41	\$1,550.41	11/7/2012	Y
Baldwin Stormwater Reduction 142nd st	Agricultural Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$12,691.33	\$12,691.33	12/16/2013	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction	Matching
						Date	Fund
Baldwin Stormwater Reduction 142nd st	Agricultural Practices	Landowner Fund	Match from Twp	\$23,068.67	\$23,068.67	12/16/2013	Y
Big and Mitchell Lakes WQPP	Special Projects	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$0.00			N
Big and Mitchell Lakes WQPP	Special Projects	Landowner Fund	Russells match	\$0.00			Y
Brown Shoreline Buffer	Streambank or Shoreline Protection	Current State Grant	2011 - clean water assistance - sherburne (swcd)	\$939.66	\$939.66	7/15/2013	N
Brown Shoreline Buffer	Streambank or Shoreline Protection	Landowner Fund	CWF11 Sherburne Landowner Fund	\$382.50	\$382.50	7/15/2013	Y
Elk River Watershed Nutrient Management Test Plots	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$0.00			N
Elk River Watershed Nutrient Management Test Plots	Non-Structural Management Practices	Local Fund	CWF11 Sherburne Landowner Fund	\$0.00			Y
Elk River Watershed wetland creation project	Special Projects	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$0.00			N
Elk River Watershed wetland creation project	Special Projects	Landowner Fund	CWF11 Benton Landowner Fund	\$0.00			Y
Fobbe shoreline Buffer	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$1,489.65	\$1,489.65	11/19/2012	N
Fobbe shoreline Buffer	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$1,155.00	\$1,155.00	11/19/2012	Y
G. Novak 2012 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	12/17/2012	N
G. Novak 2012 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	12/17/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Hangebrauck Shoreline Buffer	Streambank or Shoreline Protection	Current State Grant	2011 - clean water assistance - sherburne (swcd)	\$883.75	\$883.75	8/19/2013	N
Hangebrauck Shoreline Buffer	Streambank or Shoreline Protection	Landowner Fund	CWF11 Sherburne Landowner Fund	\$360.00	\$360.00	8/19/2013	Y
Hary Shoreline Buffer	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$750.00	\$750.00	8/19/2013	N
Hary Shoreline Buffer	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$450.00	\$450.00	8/19/2013	Y
Ident. Elk River WS Shorelands	Urban Stormwater Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$0.00			N
Ident. Elk River WS Shorelands	Urban Stormwater Management Practices	Local Fund	CWF11 Sherburne Landowner Fund	\$0.00			Y
J. Blank 2011 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	11/21/2011	N
J. Blank 2011 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$300.00	\$300.00	11/21/2011	Y
J. Blank 2012 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	11/19/2012	N
J. Blank 2012 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$300.00	\$300.00	11/19/2012	Y
J. Gohl 2012 Test Plots	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$0.00			N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
J. Gohl 2012 Test Plots	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$0.00			N
J. Gohl 2013 Test Plots	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	12/16/2013	N
J. Gohl 2013 Test Plots	Non-Structural Management Practices	Landowner Fund	Landowner match	\$300.00	\$300.00	12/16/2013	Y
K. Walcheski 2012 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	11/19/2012	N
K. Walcheski 2012 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	11/19/2012	Y
K. Walcheski 2013 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	12/16/2013	N
K. Walcheski 2013 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$300.00	\$300.00	12/16/2013	Y
Lake Fremont Shoreline Protection Continuation	Special Projects	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$0.00			N
Lake Fremont Shoreline Protection Continuation	Special Projects	Local Fund	Placeholder	\$0.00			Y
Little Elk Lake WQIP	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$151.63	\$151.63	5/19/2011	N
Little Elk Lake WQIP	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$0.00			Y
Livonia Lake Fremont Shoreline Continuation	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$49,672.00	\$49,672.00	12/16/2013	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Livonia Lake Fremont Shoreline Continuation	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$18,354.55	\$18,354.55	12/16/2013	Y
M. Ratka 2012 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	11/19/2012	N
M. Ratka 2012 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	11/19/2012	Y
R. Schneider 2011 Test Plot	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$150.00	\$150.00	11/21/2011	N
R. Schneider 2011 Test Plot	Non-Structural Management Practices	Landowner Fund	Landowner Match	\$150.00	\$150.00	11/21/2011	Y
Russell's Stormwater Reduction	Urban Stormwater Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$12,602.50	\$12,602.50	7/15/2013	N
Russell's Stormwater Reduction	Urban Stormwater Management Practices	Local Fund	CWF11 Sherburne Landowner Fund	\$4,508.50	\$4,508.50	7/15/2013	Y
Schmidt Shoreline Buffer	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$1,173.00	\$1,173.00	8/19/2013	N
Schmidt Shoreline Buffer	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$180.00	\$180.00	7/17/2013	Y
Ziegler Streambank Protection	Streambank or Shoreline Protection	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$5,991.00	\$5,991.00	10/15/2012	N
Ziegler Streambank Protection	Streambank or Shoreline Protection	Local Fund	CWF11 Sherburne Landowner Fund	\$2,138.95	\$2,138.95	10/15/2012	Y

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Zormeier 2013 Test Plots	Non-Structural Management Practices	Current State Grant	2011 - Clean Water Assistance - Sherburne (SWCD)	\$300.00	\$300.00	11/18/2013	N
Zormeier 2013 Test Plots	Non-Structural Management Practices	Landowner Fund	Owner Match	\$300.00	\$300.00	11/18/2013	Y

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
590 - Nutrient Management	1	1	3.45 AC	3.45 AC
590 - Nutrient Management	1	1	6.5 AC	6.5 AC
580 - Streambank and Shoreline Protection	1	1	165 LINEAR FEET	165 LINEAR FEET
590 - Nutrient Management	1	1	9 AC	9 AC
590 - Nutrient Management	1	1	6.8 AC	6.8 AC
590 - Nutrient Management	1	1	3.5 AC	3.5 AC
590 - Nutrient Management	2	2	1.98 AC	1.98 AC
590 - Nutrient Management	2	2	2.66 AC	2.66 AC
590 - Nutrient Management	1	1	4.79 AC	4.79 AC
590 - Nutrient Management	1	1	3.1 AC	3.1 AC
590 - Nutrient Management	1	1	8.1 AC	8.1 AC
712M - Bioretention Basin	1	1	0.02 AC	0.02 AC
712M - Bioretention Basin	1	1	0.05 COUNT	0.05 COUNT
590 - Nutrient Management	1	1	7.29 AC	7.29 AC
342 - Critical Area Planting	1	1	0.02 AC	0.002 AC
590 - Nutrient Management	1	1	6.6 AC	6.6 AC
590 - Nutrient Management	1	1	1.44 AC	1.44 AC
590 - Nutrient Management	1	1	13.2 AC	13.2 AC

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
590 - Nutrient Management	1	1	4.72 AC	4.72 AC
393 - Filter Strip	1	1	AC	0.02 AC
393 - Filter Strip	1	1	AC	0.06 AC
342 - Critical Area Planting	1	1	0.015 AC	0.015 AC
580 - Streambank and Shoreline Protection	1	1	1300 LINEAR FEET	1300 LINEAR FEET
590 - Nutrient Management	1	1	4.5 AC	4.5 AC
590 - Nutrient Management	1	1	3 AC	3 AC
393 - Filter Strip	3	1	0.03 AC	0.03 AC
590 - Nutrient Management	1	1	4.78 AC	4.78 AC
393 - Filter Strip	1	1	AC	0.03 AC
590 - Nutrient Management	1	1	10.5 AC	10.5 AC
590 - Nutrient Management	1	1	11.6 AC	11.6 AC
590 - Nutrient Management	1	1	6.3 AC	6.3 AC
155M - Storm Water Retention Basins	1	1	1 COUNT	1 COUNT
342 - Critical Area Planting	2	2	0.03 AC	0.03 AC
342 - Critical Area Planting	1	1	0.07 AC	0.07 AC
590 - Nutrient Management	1	1	7.66 AC	7.66 AC

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
SEDIMENT (TSS)	31.15	TONS/YR
SOIL (EST. SAVINGS)	30.00	TONS/YR
NITROGEN	3,052.00	LBS/YR

PHOSPHORUS (EST. REDUCTION)	1,224.99	LBS/YR
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Grant Activity

Grant Activity - 2011 CWF Elk River Watershed Pollution Loading Reduction Project - Project Development

Description	<p>Project development activities include all activities related to promotion of best management practices, identifying and assessing potential project sites and developing and processing contracts and related paperwork. This work will be completed by SWCD staff from both counties and the ERWA board of directors. We anticipate the project development activities will result in the installation of numerous contracts being approved by the ERWA board. We estimate the results of these these contracts to include:</p> <ul style="list-style-type: none"> 3,000 feet of shoreland buffers 15 manure management test plots 1 wetland creation 		
Category	PROJECT DEVELOPMENT		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>2011-2013 Sherburne County:</p> <p>Held meeting with 11 landowners to discuss plans and develop plans for BMPs. Attended 6 township meetings to discuss planning. Received quotes and set up contracts for engineering for 4 BMPs. \$2,000 from Hart Wetland March 2013 change order moved to support project development for LEL and Lake Freemont projects. Individual BMPS and indicators are entered into eLink and associated with this grant. A portion of the funds moved from the Hart Wetland Creation were used to cover PD time for Sherburne SWCD. There were also two projects with contracts that cancelled.</p> <p>2011 - 2013 Benton County</p> <p>36 farmers were contacted about trying test plots with 17 choosing to do one or more plots over the three years. 24 plots were completed covering 184.4 acres. Reductions include 2,953 lbs of nitirgen, 1,193 lbs of phosphorus and 1,866 lbs of potash. Another 4 test plots were planned to be completed with three farmers but due to wet springs that last two years they were not completed.</p> <p>Time was spent contacting farmers, explaining the program, goal and benefits of doing test plots. After talking to the people who chose not to do plots most are applying manure/fertilizer at or below the U of M recommendations.</p>		

Grant Activity - 2011 CWF Elk River Watershed Pollution Loading Reduction Project - Technical and Engineering

<p>Description</p>	<p>Technical and engineering assistance will be provided for best management practices. Projects will be designed to meet NRCS, MPCA, University of Minnesota, or a registered professional engineer's standards.</p> <p>Lead Staff:</p> <p>(Test Plots) Mike McMillin (Technical Approval Authority - TAA) - Livestock Environmental Quality Assessments, Nutrient Management, Waste Utilization, Roof Runoff Mgmt, Diversions, Waste Storage Facility (planning), Waste Treatment (planning), Wastewater Treatment Strip (planning) Gerry Maciej (TAA) - Closure of Waste Impoundments, Roof Runoff Management, Nutrient Management, Waste Utilization</p> <p>(Wetland Creation) Mike McMillin, Nathan Sanoski, Gerry Maciej (TAA) Wetland Creation, Wetland Enhancement, Wetland Restoration, Ross Reiffenberger - West Central Technical Service Area Professional Engineer, Nathan Hylla - Technician - West Central Technical Service Area</p> <p>(Streambank and Shoreline Protection) Mark Basiletti, Consulting professional engineer to be determined, bioengineering</p> <p>(Shoreland Buffers of Native Vegetation) Mark Basiletti (TAA) Critical Area Planting, Upland Wildlife Habitat Management, Tiffany Determan</p> <p>(Stormwater BMP's) Mark Basiletti (TAA) Filter Strips, Andy Schilling of the Metro Conservation Districts (TAA) Filter Strips</p> <p>(Stormwater BMP's) Jon Bogart, Bogart Pederson and Associates, Professional Engineer - Bioretention, Water and Sediment Control Basin</p> <p>Performance standards: FOTG Practice Standard 590 (nutrient management), U of M Crop Recommendations, 658 (wetland creation), 580 (streambank and shoreline protection), 342 (critical area planting), 645 (upland wildlife habitat management), 393 (filter strips), 712 (bioretention basin), 638 (water and sediment control basin) and engineering planning standards utilized by any registered professional engineer.</p>		
<p>Category</p>	<p>TECHNICAL/ENGINEERING ASSISTANCE</p>		
<p>Start Date</p>		<p>End Date</p>	
<p>Has Rates and Hours?</p>	<p>No</p>		

Actual Results

2011-2013 Sherburne County:

Site assessments and designs were completed for 11 shoreland buffers; 3 stormwater BMPs . Contracts were approved for 11 projects. \$2,000 of March 3013 Hart Wetland project moved to support Freemont and LEL projects. TE time was used to design and provide technical assistance to all landowners. All projects are entered into elink.

2011 - 2013 Benton County

T/A time was used to complete weekly chorophy testing, take tissue samples and complete yield checks when crops are ready to be combined

Wetland Creation - Original landowners backed out and new landowners with a proect have been found. Waiting on a plan and cost estimate from engineers

Individual projects are listed under Benton County, see atatched for 2012

Grant Activity - 2011 CWF Elk River Watershed Pollution Loading Reduction Project Administration

Description	The Elk River Watershed Association (ERWA) is responsible for administration of the grant. The District Manager's from Benton SWCD (Gerry Maciej) and Sherburne SWCD (Francine Larson) will jointly conduct and oversee administrative duties. These duties include semi-annual and final reports. Sherburne SWCD will act as the fiscal agent. The ERWA will oversee contract and cost share payment approval.		
Category	ADMINISTRATION/COORDINATION		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>2011-2013 Sherburne County: Individual projects are entered into elink. TA time to conduct administrative duties for each of these projects was used to cover staff time to do so. Sherburne SWCD is the fiscal agent for the ERWA and spends a significant amount of time administring this and any other ERWA grant program.</p> <p>2011 Benton County</p> <p>Test Plots Completed - Individual Projects are set up under Benton SWCD in E-Link. This year there were 7 test plots covering 38.8 acres in the Elk River Watershed. Pollution reductions include 687 lbs of nitrogen, 273 lbs of phosporus and 455 lbs of potash.</p> <p>Wetland Creation- Landowner is in the process of getting bids.</p> <p>See attachements "ERWSA 2011 Benton Projects Report" for 2011 Elk River Watershed Results</p> <p>2012 Benton County</p> <p>Test Plots Planned - Individual Projects are set up under Benton SWCD in E-Link. This year there are 11 test plots covering 89.4 acres in the Elk River Watershed. Pollution reductions include 1,952 lbs of nitrogen, 920 lbs of phosporus and 1,411 lbs of potash. Two plots will not be receiving the incentive payments, ran out of money. The farmers still wanted to do them without the incentive payments.</p> <p>Wetland Creation - Original owners backed out and new landowners have been found. Currently working a plan and cost estimate.</p>		

Grant Activity - A. Walcheski 2012 Test Plot

Description	A. Walcheski 2012 Test Plot		
	Plot comparing the use of chicken manure on corn		
	1206A - 5 T/A 1206B - 4 T/A 1206C - 4 T/A w/alfalfa credit		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	16-Apr-12	End Date	19-Nov-12
Has Rates and Hours?	No		
Actual Results	1206A - 5 T/A - 117 bu/ac 1206B - 4 T/A - 68 bu/ac 1206C - 4 T/A w/alfalfa credit - 92 bu/ac		
	Allan had a new planter this year and there were problems with the starter. 16 rows would look good 16 rows not so good.		

Activity Action - 1206ABC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of chicken manure on corn		
Proposed Size / Units	13.20 AC	Lifespan	10 Years
Actual Size/Units	13.20 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1206ABC			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	135
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for 1206ABC			
Indicator Name	NITROGEN	Value	423
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - Andreen shoreland buffer			
Description	Shoreline buffer on Eagle Lake		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	17-May-11	End Date	06-Jun-11
Has Rates and Hours?	No		
Actual Results			

Activity Action - Legacy Migrated Data			
Practice	393 - Filter Strip	Count of Activities	1
Description	Shoreline Buffer on Eagle Lake. Seed and plant plug mixture.		
Proposed Size / Units	0.03 AC	Lifespan	15 Years
Actual Size/Units	0.03 AC	Installed Date	17-May-11
Mapped Activities	1 Polygon(s)		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	.99
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Eagle Lake		

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Eagle Lake		

Grant Activity - B. Kaschmitter 2012 Test Plot			
Description	B. Kaschmitter 2012 Test Plot Plot comparing the use of sidedress N of corn 1205A - 40 gals 28% 1205B - 30 gals 28% 1205C - 20 gals 28% 1205D - 250# urea		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	16-Apr-12	End Date	19-Nov-12
Has Rates and Hours?	No		
Actual Results	1205A - 40 gals 28% - 166 bu/ac 1205B - 30 gals 28% - 169 bu/ac 1205C - 20 gals 28% - 166 bu/ac 1205D - 250# urea - 168 bu/ac		

Activity Action - 1205ABCD			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of sidedress N on corn		
Proposed Size / Units	6.60 AC	Lifespan	10 Years
Actual Size/Units	6.60 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1205ABCD			
Indicator Name	NITROGEN	Value	93
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - B. Kaschmitter 2013 Test Plots			
Description	Test Plots comparing the use of starter fertilizer and urea on corn		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	15-Jul-13	End Date	18-Nov-13
Has Rates and Hours?	No		
Actual Results	1316A - 7 gals 10-34-0 - 193.9 bu/ac 1316B - 0 gals 10-34-0 - 188.3 bu/ac 1316C - 7 gals 10-34-0 & 175# urea/ac - 204 bu/ac		

Activity Action - 1316AB			
Practice	590 - Nutrient Management	Count of Activities	1
Description	1316A - 7 gals 10-34-0 1316B - 0 gals 10-34-0		
Proposed Size / Units	2.66 AC	Lifespan	10 Years
Actual Size/Units	2.66 AC	Installed Date	15-Jul-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1316AB			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	38
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		
Final Indicator for 1316AB			
Indicator Name	NITROGEN	Value	11
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1316BC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	1316B - 0 gals 10-34-0 1316C - 7 gals 10-34-0 & 175# urea		
Proposed Size / Units	2.66 AC	Lifespan	10 Years
Actual Size/Units	2.66 AC	Installed Date	15-Jul-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1316BC			
Indicator Name	NITROGEN	Value	431
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - B. Kaschmitter 2011 Test Plots

Description	Brian Kaschmitter 2011 Test Plots		
	1116A - 0# 17-10-30 - 183 bu/ac 1116B - 210# 17-10-30 - 182 bu/ac 1116C - 150# 17-10-30 - 182 bu/ac 1116D - 0# 17-10-30 - 168 bu/ac 1116E - 210# 17-10-30 - 173 bu/ac 1116F - 150# 17-10-30 - 171 bu/ac		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	20-Jun-11	End Date	21-Nov-11
Has Rates and Hours?	No		
Actual Results	1116A - 0# 17-10-30 - 183 bu/ac 1116B - 210# 17-10-30 - 182 bu/ac 1116C - 150# 17-10-30 - 182 bu/ac 1116D - 0# 17-10-30 - 168 bu/ac 1116E - 210# 17-10-30 - 173 bu/ac 1116F - 150# 17-10-30 - 171 bu/ac		

Activity Action - B. Kaschmitter 1116ABC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of starter on corn. Plot will have an extra 23# of N broadcast after emergence.		
Proposed Size / Units	1.98 AC	Lifespan	10 Years
Actual Size/Units	1.98 AC	Installed Date	21-Nov-11
Mapped Activities	1 Polygon(s)		

Final Indicator for B. Kaschmitter 1116ABC			
Indicator Name	NITROGEN	Value	6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for B. Kaschmitter 1116ABC			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1116DEF			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of starter fertilizer on corn		
Proposed Size / Units	1.98 AC	Lifespan	10 Years
Actual Size/Units	1.98 AC	Installed Date	21-Nov-11
Mapped Activities	1 Polygon(s)		

Final Indicator for 1116DEF			
Indicator Name	NITROGEN	Value	31
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for 1116DEF			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	18
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - B. Thell 2011 Test Plot			
Description	B. Thell 2011 Test Plot Plot comparing the use of starter on corn 1104A - 200# 10-10-30 1104B - 0# 10-10-30		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	18-Jul-11	End Date	21-Nov-11
Has Rates and Hours?	No		
Actual Results	1104A - 200# 10-10-30 - 144 bu/ac 1104B - 0# 10-10-30 - 150 bu/ac		

Activity Action - 1104AB			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of starter on corn		
Proposed Size / Units	1.44 AC	Lifespan	10 Years
Actual Size/Units	1.44 AC	Installed Date	21-Nov-11
Mapped Activities	1 Polygon(s)		

Final Indicator for 1104AB			
Indicator Name	NITROGEN	Value	19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		
Final Indicator for 1104AB			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - Baldwin Access Stormwater BMPs			
Description	Stormwater BMPs to be installed for runoff to Little Elk Lake via the Township owned public access. Drainage area ~ 3.3 acres.		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date		End Date	07-Nov-12
Has Rates and Hours?	No		
Actual Results	Completed the Little Elk Lake Bio-retention using all of the state cost share funds and a portion of the CWF funds. (\$6235.00-\$3233.76 leaving \$3001.24 for additional projects).		

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	1
Description			
Proposed Size / Units	0.05 COUNT	Lifespan	15 Years
Actual Size/Units	0.05 COUNT	Installed Date	1-Aug-11
Mapped Activities	1 Point(s)		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	.5

Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody			
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	2.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody			

Grant Activity - Baldwin Stormwater Reduction 142nd st			
Description	Baldwin Stormwater Reduction 142nd st		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

Activity Action - SAFL BAFFLE			
Practice	155M - Storm Water Retention Basins	Count of Activities	1
Description	SAFL BAFFLE to capture stormwater and settle sediment prior to entering Little Elk Lake. Also paved street leadng to BAFFLE		
Proposed Size / Units	1.00 COUNT	Lifespan	15 Years
Actual Size/Units	1.00 COUNT	Installed Date	30-Nov-13
Mapped Activities	1 Point(s)		

Final Indicator for SAFL BAFFLE			
Indicator Name	SEDIMENT (TSS)	Value	11
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Little Elk Lake		
Final Indicator for SAFL BAFFLE			
Indicator Name	SOIL (EST. SAVINGS)	Value	30
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Little ELk Lake		
Final Indicator for SAFL BAFFLE			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	10
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)

Waterbody	Little Elk Lake
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Grant Activity - Big and Mitchell Lakes WQPP

Description	Placeholder This project will reduce phosphorus and sediment loading to Big and Mitchell Lakes by installing buffers of native vegetation and stormwater BMPs at 3 sites where landowners have requested assistance.		
Category	SPECIAL PROJECTS		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	Associated contracts: Contract: CWF11-S07 An Amendment was approved 11/19/12 which will proved \$682.50 move to re-connect the irrigation system. Funds were moved from ER shorelands line item to cover increase in cost. movement request made march 2013- email from BWSR dataed 2/5/13. \$565.00 from TE was used to help cover Cost share expense.		

Grant Activity - Brown Shoreline Buffer

Description	Brown Shoreline Buffer		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

Activity Action - Shoreline Buffer on Little Elk Lake			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	64 linear feet and 20 foot width		
Proposed Size / Units	0.03 AC	Lifespan	10 Years
Actual Size/Units	0.03 AC	Installed Date	28-Jun-13
Mapped Activities	1 Point(s) 1 Polygon(s)		

Final Indicator for Shoreline Buffer on Little Elk Lake

Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.185
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM

Waterbody	Little Elk Lake
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Grant Activity - Elk River Watershed Nutrient Management Test Plots

Description	This project installs nutrient management practices on cropland.	
Category	NON-STRUCTURAL MANAGEMENT PRACTICES	
Start Date		End Date
Has Rates and Hours?	No	
Actual Results	<p>in 2011 6 plots were completed in the Elk River Watershed covering 34.1 acres. Nitrogen reduced was 593 lbs and phosphorus was reduced 156 lbs.</p> <p>Summary of test plot projects is included in the attachments tab.</p> <p>2012 - Test Plots - 11 plots were planned for 2012 but only 8 were completed. 9 plot were set to receive incentive payments and the other 2 the farmers were going to complete on their own with out incentive payments.</p> <p>Of the uncompleted test plots, 2 did not receive fertilizer and no comparisons were done the the money will roll over for 2 plots in 2013, and the 3rd plot was combined on a weekend so yeild were not checked. But, this plot was one of the unfunded test plots.</p> <p>The 9 plots that had a comparison done on them covered 77.75 acres, and had N reducitons of 1,588 lbs, P reductions of 920 lbs and K reductions of 1,411 lbs.</p> <p>\$300.00 will be transfered to technical assistance to cover SWCD's time used on test plots. See email from BSWR on 11/21/13.</p> <p>This activity was used to show money spent in the old elink when the money was under sherburne and the projects under benton</p>	

Grant Activity - Elk River Watershed wetland creation project			
Description	This project will construct a berm and create 0.36 acres of wetland.		
Category	SPECIAL PROJECTS		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	due to landowner circumstances this part of the project was dropped. Funds were re-allocated to Lake Freemont/Little Elk Lake Projects (\$7,689--includes TE and CS) and additional Test Plots (\$6,000--includes TE and CS) per BWSR email dated 3/5/13. \$1,500 of the funds was already dedicated to TE.		

Grant Activity - Fobbe shoreline Buffer			
Description	Fobbe shoreline buffer on Little Elk Lake--designed with assistance from Metro conservation district.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	12-Oct-12	End Date	13-Oct-12
Has Rates and Hours?	No		
Actual Results			

Activity Action - Legacy Migrated Data			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	planted October 12: 150 linear feet (~4340 sq feet). plans to continue to manage reed canary grass in rip-rap.		
Proposed Size / Units	0.07 AC	Lifespan	15 Years
Actual Size/Units	0.07 AC	Installed Date	1-Jun-12
Mapped Activities	1 Polygon(s)		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	WINSLAMM
Waterbody	Little Elk Lake		
Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.24
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody	Little Elk Lake		

Grant Activity - G. Novak 2012 Test Plot			
Description	G. Novak 2012 Test Plot		
	Plot comparing the use of anhydrous on corn		
	1207A - 120# NH3		
	1207B - 0# NH3		
1207C - 100# NH3			
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	16-Apr-12	End Date	17-Dec-12
Has Rates and Hours?	No		
Actual Results	1207A - 120# NH3 - 113 bu/ac		
	1207B - 0# NH3 - 93 bu/ac		
	1207C - 100# NH3 - 94 bu/ac		

Activity Action - G. Novak 2012 Test Plot			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of anhrdrous on corn		
Proposed Size / Units	3.50 AC	Lifespan	10 Years
Actual Size/Units	3.50 AC	Installed Date	17-Dec-12
Mapped Activities	1 Polygon(s)		

Final Indicator for G. Novak 2012 Test Plot			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	552
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		
Final Indicator for G. Novak 2012 Test Plot			
Indicator Name	NITROGEN	Value	367
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - Hangebrauck Shoreline Buffer			
Description	Hangebrauck Shoreline Buffer		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Aug-13	End Date	
Has Rates and Hours?	No		
Actual Results			

Activity Action - Little Elk Lake Shoreline Buffer			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	length 45, width 15		
Proposed Size / Units	0.02 AC	Lifespan	10 Years
Actual Size/Units	0.02 AC	Installed Date	13-Jul-13
Mapped Activities	1 Line(s)		

Final Indicator for Little Elk Lake Shoreline Buffer			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.24
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody	Little Elk Lake		

Grant Activity - Hary Shoreline Buffer			
Description	Area: 1,102 sq ft In ft: 92 # plants: 306 depth : 11 ft		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Jul-13	End Date	01-Jul-13
Has Rates and Hours?	No		
Actual Results	planted 1000 sq ft		

Activity Action - shoreline buffer			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	buffer on two prpoerties		
Proposed Size / Units	0.02 AC	Lifespan	10 Years
Actual Size/Units	0.00 AC	Installed Date	1-Jul-13
Mapped Activities	1 Polygon(s)		

Final Indicator for shoreline buffer			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.17
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody	LEL		

Grant Activity - Ident. Elk River WS Shorelands	
Description	Placeholder This project will reduce phosphorus loading to the Elk River by installing shoreland buffers of native vegetation and shoreland protection at 2 sites where landowners have requested assistance.
Category	URBAN STORMWATER MANAGEMENT PRACTICES
Start Date	End Date
Has Rates and Hours?	No
Actual Results	Contracts Associated with this Item: CWF11-S01-Andreen Shoreline protection on Eagle Lake CWF11-S08 Ziegler streambank protection on Elk River March 2013 fund movement request: \$682.5 was moved into Big and Mitchell WQPP-see that description for details.

Activity Action - Legacy Migrated Data			
Practice	393 - Filter Strip	Count of Activities	2
Description	shorline buffer on Eagle Lake, FY11 CWFS01, and elk river S08, mapped under individual contact entered into elink		
Proposed Size / Units	0.03 AC	Lifespan	10 Years
Actual Size/Units	0.03 AC	Installed Date	15-May-11
Mapped Activities	No		

Grant Activity - J. Blank 2011 Test Plot

Description	<p>J. Blank 2011 Test Plot</p> <p>Two plots both comparing the use of urea on corn</p> <p>1104A - 275# Urea 1104B - 325# Urea 1104C - 400# Urea</p> <p>1104D - 278# Urea 1104E - 400# Urea 1104F - 450# Urea</p>		
Category	<p>NON-STRUCTURAL MANAGEMENT PRACTICES</p>		
Start Date	<p>20-Jun-11</p>	End Date	<p>21-Nov-11</p>
Has Rates and Hours?	<p>No</p>		
Actual Results	<p>1104A - 275# Urea - 1104B - 325# Urea 1104C - 400# Urea</p> <p>1104D - 278# Urea 1104E - 400# Urea 1104F - 450# Urea</p> <p>Plot were checked with yields coming in around 120 - 160 bu/ac while Jeremy was gettin 190+ bu/ac. Tires on the grain cart were too big for the scales and would form around the scales putting alot of weight on the ground instead of the scales.</p>		

Activity Action - 1104DEF			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of urea on corn		
Proposed Size / Units	9.00 AC	Lifespan	10 Years
Actual Size/Units	9.00 AC	Installed Date	21-Nov-11
Mapped Activities	1 Polygon(s)		

Final Indicator for 1104DEF			
Indicator Name	NITROGEN	Value	249
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1104ABC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of urea on corn		
Proposed Size / Units	8.10 AC	Lifespan	10 Years
Actual Size/Units	8.10 AC	Installed Date	21-Nov-11
Mapped Activities	1 Polygon(s)		

Final Indicator for 1104ABC			
Indicator Name	NITROGEN	Value	154
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - J. Blank 2012 Test Plot

Description	J. Blank 2012 Test Plot		
	Two Plots , one comparing the use of urea on corn and the other comparing types of start on corn		
	1210A - 375# Urea 1210B - 425# Urea 1210C - 325# Urea		
	1210D - 5 gals 9-18-9 1210E - 5 gals 10-34-0 1210F - 5 gals 10-34-10 w/4 oz Accend		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	21-May-12	End Date	19-Nov-12
Has Rates and Hours?	No		
Actual Results	1210A - 375# Urea - 230 bu/ac 1210B - 425# Urea - 218 bu/ac 1210C - 325# Urea - 226 bu/ac		
	1210D - 5 gals 9-18-9 - 214 bu/ac 1210E - 5 gals 10-34-0 - 202 bu/ac 1210F - 5 gals 10-34-10 w/4 oz Accend - 215 bu/ac		

Activity Action - 1210ABC -			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of urea on corn		
Proposed Size / Units	4.50 AC	Lifespan	10 Years
Actual Size/Units	4.50 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1210ABC -			
Indicator Name	NITROGEN	Value	101
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other

Waterbody	Elk River
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Activity Action - 1210DEF			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing different types of starter on corn		
Proposed Size / Units	3.45 AC	Lifespan	10 Years
Actual Size/Units	3.45 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1210DEF			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	15
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for 1210DEF			
Indicator Name	NITROGEN	Value	2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - J. Gohl 2012 Test Plots	
Description	<p>J. Gohl 2012 Test Plots</p> <p>Two sets of plots, both comparing the use of urea on corn.</p> <p>1208A - 100# Urea 1208B - 0 # Urea 1208C - 175# Urea</p> <p>1208D - 325# Urea 1208E - 275# Urea 1208F - 375 # Urea</p>
Category	NON-STRUCTURAL MANAGEMENT PRACTICES
Start Date	21-May-12
End Date	
Has Rates and Hours?	No
Actual Results	Both plots not completed. Jake could not get the urea spread because it was too wet. By the time it dried out the corn was too tall to spread

Activity Action - 1208ABC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	<p>plot comparing the use of urea.</p> <p>plot not completed, urea could not be spread in time</p>		
Proposed Size / Units	4.79 AC	Lifespan	10 Years
Actual Size/Units	4.79 AC	Installed Date	
Mapped Activities	1 Polygon(s)		

Activity Action - 1208DEF			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of urea on corn. Plot not completed, urea could not be spread in time.		
Proposed Size / Units	6.80 AC	Lifespan	10 Years
Actual Size/Units	6.80 AC	Installed Date	
Mapped Activities	1 Polygon(s)		

Grant Activity - J. Gohl 2013 Test Plots			
Description	J. Gohl 2013 Test Plots		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	20-May-13	End Date	16-Dec-13
Has Rates and Hours?	No		
Actual Results	1314A - 92# N - 93.9 bu/ac 1314B - 115# N - 93.0 bu/ac 1314C - 69# N - 96.8 bu/ac 1314D - 150# N - 94.4 bu/ac 1314E - 127# N - 127# N - 95.4 bu/ac 1314F - 173# N - 102.0 bu/ac both plots were hit hard by drought.		

Activity Action - 1314DEF			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of urea on corn 1314D - 150# N 1314E - 127# N 1314F - 173# N		
Proposed Size / Units	3.10 AC	Lifespan	10 Years
Actual Size/Units	3.10 AC	Installed Date	16-Dec-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1314DEF			
Indicator Name	NITROGEN	Value	48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1314ABC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the use of urea on corn 1314A - 92# N 1314B - 115# N 1314C - 69# N		
Proposed Size / Units	6.30 AC	Lifespan	10 Years
Actual Size/Units	6.30 AC	Installed Date	16-Dec-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1314ABC			
Indicator Name	NITROGEN	Value	88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - K. Walcheski 2012 Test Plot

Description	K. Walcheski 2012 Test Plot Two plots, one comparing rates of cow manure and one comparing rates of urea both on corn 1211A - Double Rate 1211B - Single Rate 1211C - 200# Urea 1211D - 100# Urea		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	21-May-12	End Date	19-Nov-12
Has Rates and Hours?	No		
Actual Results	1211A - Double Rate - 134 bu/ac 1211B - Single Rate - 131 bu/ac 1211C - 200# Urea - 127 bu/ac 1211D - 100# Urea - 76 bu/ac		

Activity Action - 1211CD			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing two different rates of chicken manure		
Proposed Size / Units	10.50 AC	Lifespan	10 Years
Actual Size/Units	10.50 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1211CD			
Indicator Name	NITROGEN	Value	295
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1211AB			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing different rates of manure		
Proposed Size / Units	3.00 AC	Lifespan	10 Years
Actual Size/Units	3.00 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1211AB			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	117
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for 1211AB			
Indicator Name	NITROGEN	Value	80
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - K. Walcheski 2013 Test Plot			
Description	K. Walcheski 2013 Test Plot		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	20-May-13	End Date	16-Dec-13
Has Rates and Hours?	No		
Actual Results	1315A - 74.8 bu/ac 1315B - 63.9 bu/ac 1315C - 39.5 bu/ac 1315D - 50.5 bu/ac		

Activity Action - 1315AB			
Practice	590 - Nutrient Management	Count of Activities	1
Description	1315A - 100# Urea/acre 1315B - 200# Urea/acre		
Proposed Size / Units	6.50 AC	Lifespan	10 Years
Actual Size/Units	6.50 AC	Installed Date	18-Dec-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1315AB			
Indicator Name	NITROGEN	Value	125
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1315CD			
Practice	590 - Nutrient Management	Count of Activities	1
Description	1315C - 200# Urea/acre 1315D - 100# Urea/acre		
Proposed Size / Units	7.66 AC	Lifespan	10 Years
Actual Size/Units	7.66 AC	Installed Date	18-Dec-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1315CD			
Indicator Name	NITROGEN	Value	172
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - Lake Fremont Shoreline Protection Continuation

Description	This project will reduce phosphorus and sediment loading to Lake Fremont by installing bio-engineering practices at a site where the landowner has requested assistance. It continues a project started through a CWF FY2010 grant to Sherburne SWCD.		
Category	SPECIAL PROJECTS		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - Little Elk Lake WQIP

Description	This project will reduce phosphorus and sediment loading to Little Elk Lake by installing shoreland buffers of native vegetation and stormwater BMPs at 7 sites where landowners have requested assistance.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results	<p>\$151.63 was approved by ERWA to purchase bulk supplies for projects on LEL. Per change order request, March 2013. -\$7,689 was moved from the Hart Wetland project (Benton) into this line item. \$3,698 for CS and \$4,000 to be used for TE and PD. 5 shoreline buffers and two stormwater reduction practices were completed. Contracts associated with this project:</p> <ul style="list-style-type: none"> CWF-S04 CWF-S06 CWF-S09 CWF-S10 CWF-S11 CWF-S12 CWF-S13 		

Grant Activity - Livonia Lake Fremont Shoreline Continuation			
Description	Continues the shoreline protection on 120th St. started in 2010 through a CWF 2010 Grant grant: CWF-S05		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

Activity Action - Legacy Migrated Data			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description			
Proposed Size / Units	1,300.00 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	1,300.00 LINEAR FEET	Installed Date	1-Aug-11
Mapped Activities	1 Line(s)		

Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	14.02
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (GULLY STABILIZATION)
Waterbody	Lake Fremont		

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	11.92
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody	Lake Fremont		

Grant Activity - M. Ratka 2012 Test Plot			
Description	M. Ratka 2012 Test Plot		
	Plot comparing the timing of nitrogen applicaitons		
	1209A - 161# preplant N		
	1209B - 99# preplant N 62# sidedress N		
1209C - 69# preplant N, 92# sidedress N			
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	21-May-12	End Date	19-Nov-12
Has Rates and Hours?	No		
Actual Results	1209A - 161# preplant N - 167 bu/ac		
	1209B - 99# preplant N 62# sidedress N - 172 bu/ac		
	1209C - 69# preplant N, 92# sidedress N - 182 bu/ac		

Activity Action - 1209ABC			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing the application timing of urea		
Proposed Size / Units	7.29 AC	Lifespan	10 Years
Actual Size/Units	7.29 AC	Installed Date	19-Nov-12
Mapped Activities	1 Polygon(s)		

Final Indicator for 1209ABC			
Indicator Name	NITROGEN	Value	62
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - R. Schneider 2011 Test Plot			
Description	R. Schneider 2011 Test Plot		
	Plot comparing the use of chicken manure on corn		
	1103A - 3 T/A		
	1103B - 2 T/A		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
	Start Date	20-Jun-11	End Date
Has Rates and Hours?	No		
Actual Results	1103A - 3 T/A - 154 bu/ac		
	1103B - 2 T/A - 159 bu/ac		
	1103C - 2.5 T/A - 163 bu/ac		
	103D - 2.5 T/A Compost - 160 bu/ac		

Activity Action - R. Schneider 2011 Test Plot			
Practice	590 - Nutrient Management	Count of Activities	1
Description	Plot comparing differnet rates of chicken manure on corn		
Proposed Size / Units	11.60 AC	Lifespan	10 Years
Actual Size/Units	11.60 AC	Installed Date	21-Nov-11
Mapped Activities	1 Polygon(s)		

Final Indicator for R. Schneider 2011 Test Plot			
Indicator Name	NITROGEN	Value	117
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for R. Schneider 2011 Test Plot			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	243
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Activity - Russell's Stormwater Reduction			
Description	two rain gardens that will capture portions of runoff from impervious surfaces (i.e. parking lot)- completed October 16th 2012. raingarden 1: 390 sq feet; RG 2: 528 sq feet		
Category	URBAN STORMWATER MANAGEMENT PRACTICES		
Start Date	12-Oct-12	End Date	16-Oct-12
Has Rates and Hours?	No		
Actual Results			

Activity Action - Legacy Migrated Data			
Practice	712M - Bioretention Basin	Count of Activities	1
Description	installed 2 raingardens to capure runoff from parking lot. runoff currently enters protected water body (Big Lake) untreated.- totoal .02 acres		
Proposed Size / Units	0.02 AC	Lifespan	15 Years
Actual Size/Units	0.02 AC	Installed Date	1-Jul-12
Mapped Activities	1 Point(s)		

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.32
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLAMM
Waterbody	Big Lake		

Grant Activity - Schmidt Shoreline Buffer			
Description	shoreine buffer on Northwest side of Little Elk Lake in dredged channel- will be planted after dredging in winter 2013. 52 linear feet ~25 feet width.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Jul-13	End Date	10-Jul-13
Has Rates and Hours?	No		
Actual Results	1100 sq feet shoreline buffer		

Activity Action - Shoreline Buffer			
Practice	342 - Critical Area Planting	Count of Activities	1
Description	shore buffer on LEL- in dredged bay		
Proposed Size / Units	0.03 AC	Lifespan	10 Years
Actual Size/Units	0.03 AC	Installed Date	10-Jul-13
Mapped Activities	No		

Final Indicator for Shoreline Buffer			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	WINSLMM
Waterbody	Little Elk Lake		

Grant Activity - Ziegler Streambank Protection			
Description	Streambank Protection on the Elk River in Haven TWP- 165 linear feet of rock rip rap and a 30 foot native plant buffer behind the rock. Landowner is doing alot of their own work.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

Activity Action - Legacy Migrated Data			
Practice	580 - Streambank and Shoreline Protection	Count of Activities	1
Description	in Haven Township along the elk river- native buffer was be planted behind the rock rip-rap. 165 linear feet, 30 foot wide native veg buffer		
Proposed Size / Units	165.00 LINEAR FEET	Lifespan	15 Years
Actual Size/Units	165.00 LINEAR FEET	Installed Date	31-Oct-12
Mapped Activities	1 Line(s)		

Final Indicator for Legacy Migrated Data			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	4.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)

Waterbody	Elk River		
Final Indicator for Legacy Migrated Data			
Indicator Name	SEDIMENT (TSS)	Value	4.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (STREAM & DITCH STABILIZATION)
Waterbody	Elk River		

Grant Activity - Zormeier 2013 Test Plots			
Description	Zormeier 2013 Test Plots		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	20-May-13	End Date	18-Nov-13
Has Rates and Hours?	No		
Actual Results	plots were hit hard by drought and had significant compaction issues. Insurance zeroed out the plots no yeild checks completed.		

Activity Action - 1317AB			
Practice	590 - Nutrient Management	Count of Activities	1
Description	1317A - 100# 17-10-30 1317B - 0# 17-10-30		
Proposed Size / Units	4.78 AC	Lifespan	10 Years
Actual Size/Units	4.78 AC	Installed Date	20-May-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1317AB			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	27
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Final Indicator for 1317AB			
Indicator Name	NITROGEN	Value	43
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Activity Action - 1317CD			
Practice	590 - Nutrient Management	Count of Activities	1
Description	1317C - 2 1/2 T/A Chicken Manure 1317D - 4 T/A Chicken Manure		
Proposed Size / Units	4.72 AC	Lifespan	10 Years
Actual Size/Units	4.72 AC	Installed Date	13-May-13
Mapped Activities	1 Polygon(s)		

Final Indicator for 1317CD			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	26
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		
Final Indicator for 1317CD			
Indicator Name	NITROGEN	Value	135
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	Other
Waterbody	Elk River		

Grant Attachments

Document Name	Document Type	Description
2011 Test Plot.jpg	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
2011 Test Plot.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
2011 Test Plot.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
2012 ERWSA Benton Projects Report.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
2012 ERWSA Benton Projects Report.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
Corrections file 1	Journal	Journal Dated - 03/25/2014
ERWSA 2011 Benton Projects Report.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
ERWSA 2011 Benton Projects Report.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
ERWSA 2011 Benton Projects Report.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
ERWSA 2011 Benton Projects Report.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
Final grant closeout	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
grant_app_geJan2013.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
grant_app_geJan2013.pdf	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)

Document Name	Document Type	Description
grant_app_general-added.rpt	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
grant_app_general.rpt	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
grant_app_general.rpt	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)
grant_app_general.rpt	Grant	2011 - Clean Water Assistance - Sherburne (SWCD)