Grant All-Detail Report
Cover Crop Demonstration Program 2020

Grant Title - Cover Crop Demonstration - Houston County
Grant ID - C20-8214
Organization - Root River SWCD

Original Awarded Amount	**$226,000.00**	**Grant Execution Date**	**1/15/2020**
Required Match Amount	$22,600.00	**Original Grant End Date**	12/31/2022
Required Match %	10%	**Grant Day To Day Contact**	Janice Messner
Current Awarded Amount	$226,000.00	**Current End Date**	12/31/2023

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	$226,000.00	$218,446.47	$7,553.53
Total Match Amount	$23,042.73	$26,626.96	$-3,584.23
Total Other Funds	$0.00	$0.00	$0.00
Total	**$249,042.73**	**$245,073.43**	**$3,969.30**

**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
Administrative Activities	Administration /Coordination	Current State Grant	Cover Crop Demonstration - Houston County	$1,000.00	$1,000.00	9/12/2020	N
Administrative Activities	Administration /Coordination	Local Fund	County Levy Match	$2,000.00	$3,258.80	6/19/2021	Y
Cover Crop Technical	Technical/Engineering Assistance	Current State Grant	Cover Crop Demonstration - Houston County	$10,000.00	$10,000.00	9/12/2020	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Matching Fund
Cover Crop Technical	Technical/Engineering Assistance	Local Fund	Technical Assistance	$15,600.00	$15,725.45	7/2/2022	Y
Cover Crop cost share	Non-Structural Management Practices	Current State Grant	Cover Crop Demonstration - Houston County	$152,854.62	$152,854.62	11/18/2021	N
Cover Crop cost share	Non-Structural Management Practices	Landowner Fund	landowner match for cost share	$5,442.73	$7,642.71	11/18/2021	Y
Cover crop seeding using no-till methods	Non-Structural Management Practices	Current State Grant	Cover Crop Demonstration - Houston County	$38,213.66	$38,213.66	11/18/2021	N
Field Days and Events	Education/Information	Current State Grant	Cover Crop Demonstration - Houston County	$3,000.00	$2,391.00	3/26/2022	N
Purchase cover crop inter-seeder	Supplies/Equipment	Current State Grant	Cover Crop Demonstration - Houston County	$8,931.72	$8,931.72	12/19/2020	N
Soil Health Testing	Planning and Assessment	Current State Grant	Cover Crop Demonstration - Houston County	$12,000.00	$5,055.47	12/30/2022	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
340 - Cover Crop	3	14	150 AC	150 AC
340 - Cover Crop	1	1	61 AC	61 AC
340 - Cover Crop	1	3	68 AC	68 AC
340 - Cover Crop	1	3	33 AC	33 AC
340 - Cover Crop	1	1	18 AC	18 AC
340 - Cover Crop	2	3	28 AC	28 AC
340 - Cover Crop	1	1	15 AC	15 AC
340 - Cover Crop	1	2	44.4 AC	44.4 AC
340 - Cover Crop	1	1	6.4 AC	6.4 AC

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
340 - Cover Crop	2	11	100 AC	100 AC
340 - Cover Crop	1	1	59.788664 AC	59.788664 AC
340 - Cover Crop	1	3	70.2 AC	70.2 AC
340 - Cover Crop	2	2	36 AC	36 AC
340 - Cover Crop	1	2	9 AC	9 AC
340 - Cover Crop	1	4	64 AC	64 AC
340 - Cover Crop	1	1	6 AC	6 AC
340 - Cover Crop	1	3	41 AC	41 AC

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Cover crop seeding using no-till methods	PHOSPHORUS (EST. REDUCTION)	498 LBS/YR	rivers and streams	BWSR CALC (SHEET AND RILL)	
Cover Crop cost share	PHOSPHORUS (EST. REDUCTION)	294 LBS/YR	rivers and streams	BWSR CALC (SHEET AND RILL)	
Cover crop seeding using no-till methods	SOIL (EST. SAVINGS)	1680 TONS/YR	rivers and streams	BWSR CALC (SHEET AND RILL)	
Cover Crop cost share	SOIL (EST. SAVINGS)	960 TONS/YR	rivers and streams	BWSR CALC (SHEET AND RILL)	
Cover crop seeding using no-till methods	SEDIMENT (TSS)	405 TONS/YR	rivers and streams	BWSR CALC (SHEET AND RILL)	
Cover Crop cost share	SEDIMENT (TSS)	231 TONS/YR	streams and rivers	BWSR CALC (SHEET AND RILL)	

Final Indicators Summary

Indicator Name	Total Value	Unit
NITROGEN	13,900.69	LBS/YR
SEDIMENT (TSS)	111.34	TONS/YR
SOIL (EST. SAVINGS)	560.22	TONS/YR

PHOSPHORUS (EST. REDUCTION)	142.90	LBS/YR

Grant Activity

Grant Activity - Administrative Activities			
Description	Staff time to put together end of the year numbers and accounting data and input yearly data into elink, etc.		
Category	ADMINISTRATION/COORDINATION		
Start Date	15-Jan-20	**End Date**	19-Dec-20
Has Rates and Hours?	Yes		
Actual Results	CY2020 Admin Janice 22.2619 hrs @ 44.92 = 1,000.00. No admin grant funds remain. CY20 Admin Match Admin Janice 43.9881 hrs @ $44.92 = 1975.95; Asst Man Bob 10 hrs @ $55.70 = 557.00. Match has been met. CY2021 Admin Match Admin Janice 15 hrs @ 48.39 = 725.85		

Grant Activity - Cover Crop Technical			
Description	Staff time for technical work involving cover crop designs, field checks, soil sampling and guidance for soil health tests, consulting for inter-seeding and cover crop mixes. Root River SWCD has 2 technicians who have job approval authority for development of projects following NRCS Cover Crop (340) practice standard. Both technicians (Bob Scanlan and Dan Wermager) have been involved with projects from start to finish. Those practices have been applied to resource concerns that reduce erosion, support soil health and organic matter content, sequester excessive soil nutrients, suppress weed pressure, break pest cycles, improve soil moisture efficiency, and minimize soil compaction. In addition, Gary Larson, DC with Houston County NRCS has a high level of JAA and can sign off on projects, as needed.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	15-Jan-20	**End Date**	
Has Rates and Hours?	Yes		
Actual Results	CY20 - Dist Man Dave 2 hrs @ 60.19 = 120.38; Asst Man Bob 173.6796 hrs @ 55.70 = 9673.95. Mileage Ford 154 mi @ 0.575 = 88.55 & GMC 384 mi @ 0.305 = 117.13. All grant funds have been expended. CY20 Match Asst Man Bob 105.5704 hrs @ $55.70 = 5880.27. Mileage 1391 @ $0.575 = 799.83 & 19 @ $0.305 = $5.80. Remaining fund balance is $8,914.10 CY21Match Asst Man Bob 111 hrs @ $60.77 = 6745.47; Admin Janice 3.25 hrs @ 48.39 = 157.27 Mileage 171 @ $0.56 = 95.76 Remaining balance $1915.60 CY2022 Match Asst Man Bob 33 hrs @ $61.85 = $2,041.05.		

Grant Activity - Cover Crop cost share

Description	Provide flat rate cost share dollars to producers who have not implemented cover crops on a field in the last 5 years. The cost share budget would look like this: 400ac x $40/ac x 3yrs. = $48,000 for 2020, $48,000 for 2021, and $48,000 for 2022 = $144,000 This would be a one-time payment per operator and would be paid at the time of seeding the 1st year of a minimum 3 years of cover crops. Targeted producers will be those who are located within 2 miles of a DWSMA or the 6 townships where MDA nitrate testing showed higher levels of N. Initially, we will focus implementation efforts on those producers who are chopping corn silage for beef or dairy feed near a DWSMA and who have not implemented cover crops in recent years. Inter-seeding will also be offered to those producers who are interested. Secondary targets will be soybean producers within the initial target area who implement fall cover crops and finally, after exhausting the initial target areas, producers in other areas of Houston County will have an opportunity to participate in the cover crop cost share program. We plan to follow NRCS standards and continue to utilize the “Minnesota Cover Crop Design Worksheet” to develop projects for producers just as we have in the past. It provides good information on seeding rates, species, project objectives, etc. We will welcome feedback from active program participants and/or use surveys during field days in order to further enhance the program going forward. For grant match, producer time will be tracked while implementing cover crop seeding through this program. Producers may track time spent while drilling, inter-seeding, or broadcast seeding cover crops over the three year program.

Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	2-Mar-20	**End Date**	18-Nov-21
Has Rates and Hours?	No		
Actual Results	CY2020 Cover Crop Grant Funds in the amount of $138,000 were expended. Cover crops were installed on 1150 acres at the rate of $40.00/acre for a three year period. Remaining fund balance is $6,000.00. CY2020 Landowner Match all matching funds requirements have been met. 2/16/21 Amended funds totaling $8,854.62 are being added from the Purchase cover crop inter-seeder Activity. Landowner Match Activity is being increased from $5,000 to $5,442.73 reflecting added cost share funds. The added cost share funds covers an additional 73.788533 acres @ $6.00/acre (Landowner contribution). CY2021 Cover Crop Grant Funds in the amount of $14,854.62 were expended. Cover crops were installed on 123.7885 acres at the rate of $40.00/acre for a three year period. All funds are expended. Landowner contribution @ $6/acre = $742.73 which exceeds the requirement by $2,199.98.		

Activity Action - King, Troy			
Practice	340 - Cover Crop	**Count of Activities**	1
Description	The landowner would like to provide ground cover to reduce erosion during times of the year when a feed crop or cash crop isn't growing and improve soil health.		
Proposed Size / Units	15.00 AC	**Lifespan**	3 Years
Actual Size/Units	15.00 AC	**Installed Date**	10-Sep-20
Mapped Activities	1 Polygon(s)	**Technical Assistance Provider**	SWCD

Final Indicator for King, Troy			
Indicator Name	NITROGEN	**Value**	222
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	HSPF SAM - 12 Digit HUC
Waterbody	Crooked Creek		
Final Indicator for King, Troy			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	26.44
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for King, Troy			
Indicator Name	SEDIMENT (TSS)	**Value**	24.84
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		

Final Indicator for King, Troy			
Indicator Name	SOIL (EST. SAVINGS)	Value	50.10
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		

Activity Action - Mierau, Karsen			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to provide ground cover during times of the year when a row crop isn't grown, improve soil health.		
Proposed Size / Units	44.40 AC	Lifespan	3 Years
Actual Size/Units	44.40 AC	Installed Date	12-Nov-20
Mapped Activities	2 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Mierau, Karsen			
Indicator Name	NITROGEN	Value	673.2
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Wildcat Creek		
Final Indicator for Mierau, Karsen			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	3.13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Wildcat Creek		
Final Indicator for Mierau, Karsen			
Indicator Name	SEDIMENT (TSS)	Value	2.11
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Wildcat Creek		
Final Indicator for Mierau, Karsen			
Indicator Name	SOIL (EST. SAVINGS)	Value	10.56
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Wildcat Creek		

Activity Action - Mireau, Bob			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health while providing ground cover to reduce erosion.		
Proposed Size / Units	36.00 AC	Lifespan	3 Years
Actual Size/Units	36.00 AC	Installed Date	12-Nov-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Mireau, Bob			
Indicator Name	NITROGEN	Value	126.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Beaver Creek		

Final Indicator for Mireau, Bob			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.69
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Beaver Creek		

Final Indicator for Mireau, Bob			
Indicator Name	SEDIMENT (TSS)	Value	4.46
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Beaver Creek		

Final Indicator for Mireau, Bob			
Indicator Name	SOIL (EST. SAVINGS)	Value	27.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Beaver Creek		

Activity Action - Gerard, Jeff			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health, increase water infiltration and increase organic matter while keeping soil covered more months of the year.		
Proposed Size / Units	100.00 AC	Lifespan	3 Years
Actual Size/Units	100.00 AC	Installed Date	12-Nov-20
Mapped Activities	5 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Gerard, Jeff			
Indicator Name	NITROGEN	Value	1120
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Waterloo Creek		

Final Indicator for Gerard, Jeff			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	19.33
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Waterloo Creek		
Final Indicator for Gerard, Jeff			
Indicator Name	SEDIMENT (TSS)	Value	14.02
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Waterloo Creek		
Final Indicator for Gerard, Jeff			
Indicator Name	SOIL (EST. SAVINGS)	Value	45.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Waterloo Creek		

Activity Action - Meyer, Jordan			
Practice	340 - Cover Crop	Count of Activities	1
Description	Improve soil health while providing erosion protection.		
Proposed Size / Units	68.00 AC	Lifespan	3 Years
Actual Size/Units	68.00 AC	Installed Date	13-Aug-20
Mapped Activities	3 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Meyer, Jordan			
Indicator Name	SOIL (EST. SAVINGS)	Value	7.48
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Meyer, Jordan			
Indicator Name	SEDIMENT (TSS)	Value	5.66
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Meyer, Jordan			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	7.73
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Meyer, Jordan			
Indicator Name	NITROGEN	Value	882.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Winnebago Creek		

Activity Action - King, Cory			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health and provide alternative grazing/forage for beef cow herd.		
Proposed Size / Units	9.00 AC	Lifespan	3 Years
Actual Size/Units	9.00 AC	Installed Date	10-Sep-20
Mapped Activities	2 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for King, Cory			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	5.59
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for King, Cory			
Indicator Name	SEDIMENT (TSS)	Value	4.12
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for King, Cory			
Indicator Name	SOIL (EST. SAVINGS)	Value	4.32
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for King, Cory			
Indicator Name	NITROGEN	Value	116.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Winnebago Creek		

Activity Action - Koch, Robert			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to reduce erosion while improving soil health.		
Proposed Size / Units	100.00 AC	Lifespan	3 Years
Actual Size/Units	100.00 AC	Installed Date	12-Nov-20
Mapped Activities	6 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Koch, Robert			
Indicator Name	NITROGEN	Value	1298.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Winnebago Creek		

Final Indicator for Koch, Robert			
Indicator Name	SEDIMENT (TSS)	Value	6.02
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Koch, Robert			
Indicator Name	SOIL (EST. SAVINGS)	Value	81.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Koch, Robert			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	7.54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Activity Action - McCormick, Kevin			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to reduce erosion and improve soil health on crop land.		
Proposed Size / Units	33.00 AC	Lifespan	3 Years
Actual Size/Units	33.00 AC	Installed Date	10-Sep-20
Mapped Activities	3 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for McCormick, Kevin			
Indicator Name	SOIL (EST. SAVINGS)	Value	29.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for McCormick, Kevin			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	18.87
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for McCormick, Kevin			
Indicator Name	SEDIMENT (TSS)	Value	13.39
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for McCormick, Kevin			
Indicator Name	NITROGEN	Value	316.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Crooked Creek		

Activity Action - Hendel, Karl & Matt			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to increase soil health while reducing erosion.		
Proposed Size / Units	61.00 AC	Lifespan	3 Years
Actual Size/Units	61.00 AC	Installed Date	10-Sep-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Hendel, Karl & Matt			
Indicator Name	NITROGEN	Value	792
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Winnebago Creek		

Final Indicator for Hendel, Karl & Matt			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.44
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for Hendel, Karl & Matt			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	0.51
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for Hendel, Karl & Matt			
Indicator Name	SEDIMENT (TSS)	Value	.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Activity Action - McCormick, Connor			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health and reduce erosion.		
Proposed Size / Units	28.00 AC	Lifespan	3 Years
Actual Size/Units	28.00 AC	Installed Date	10-Sep-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for McCormick, Connor			
Indicator Name	SOIL (EST. SAVINGS)	Value	3.92
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Root River		

Final Indicator for McCormick, Connor			
Indicator Name	NITROGEN	Value	265
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Root River		
Final Indicator for McCormick, Connor			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.59
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Root River		
Final Indicator for McCormick, Connor			
Indicator Name	SEDIMENT (TSS)	Value	1.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Root River		

Activity Action - McCormick, Connor			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner and land occupier would like to improve soil health while reducing soil erosion.		
Proposed Size / Units	36.00 AC	Lifespan	3 Years
Actual Size/Units	36.00 AC	Installed Date	10-Sep-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for McCormick, Connor			
Indicator Name	NITROGEN	Value	345.1
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Crooked Creek		
Final Indicator for McCormick, Connor			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.54
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for McCormick, Connor			
Indicator Name	SEDIMENT (TSS)	Value	.28
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for McCormick, Connor			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.368
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		

Activity Action - Hendel, Karl & Matt			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health and reduce sheet and rill erosion.		
Proposed Size / Units	28.00 AC	Lifespan	3 Years
Actual Size/Units	28.00 AC	Installed Date	8-Oct-20
Mapped Activities	2 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Hendel, Karl & Matt			
Indicator Name	NITROGEN	Value	297.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Crooked Creek		

Final Indicator for Hendel, Karl & Matt			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.51
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		

Final Indicator for Hendel, Karl & Matt			
Indicator Name	SEDIMENT (TSS)	Value	.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		

Final Indicator for Hendel, Karl & Matt			
Indicator Name	SOIL (EST. SAVINGS)	Value	1.120
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		

Activity Action - Kochie, Jon			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to reduce erosion while increasing soil health.		
Proposed Size / Units	18.00 AC	Lifespan	3 Years
Actual Size/Units	18.00 AC	Installed Date	12-Nov-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Kochie, Jon			
Indicator Name	NITROGEN	Value	170.4
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Thompson Creek		

Final Indicator for Kochie, Jon			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.27
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		
Final Indicator for Kochie, Jon			
Indicator Name	SEDIMENT (TSS)	Value	.77
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		
Final Indicator for Kochie, Jon			
Indicator Name	SOIL (EST. SAVINGS)	Value	2.52
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		

Activity Action - Green, Valiree			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to provide ground cover to reduce erosion while improving soil health.		
Proposed Size / Units	6.40 AC	Lifespan	3 Years
Actual Size/Units	6.40 AC	Installed Date	8-Oct-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Green, Valiree			
Indicator Name	NITROGEN	Value	56.79
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Thompson Creek		
Final Indicator for Green, Valiree			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.01
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		
Final Indicator for Green, Valiree			
Indicator Name	SEDIMENT (TSS)	Value	.01
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		
Final Indicator for Green, Valiree			
Indicator Name	SOIL (EST. SAVINGS)	Value	.13
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		

Activity Action - Schroeder, Todd			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health while breaking up pest cycles and reducing erosion.		
Proposed Size / Units	6.00 AC	Lifespan	3 Years
Actual Size/Units	6.00 AC	Installed Date	12-Nov-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Schroeder, Todd			
Indicator Name	NITROGEN	Value	77.90
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Winnebago Creek		

Final Indicator for Schroeder, Todd			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for Schroeder, Todd			
Indicator Name	SEDIMENT (TSS)	Value	.19
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Final Indicator for Schroeder, Todd			
Indicator Name	SOIL (EST. SAVINGS)	Value	7.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Activity Action - Schroeder, Dean			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to implement cover crops to break up pest cycles, reduce erosion and improve soil health.		
Proposed Size / Units	150.00 AC	Lifespan	3 Years
Actual Size/Units	150.00 AC	Installed Date	12-Nov-20
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Schroeder, Dean			
Indicator Name	NITROGEN	Value	1947.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC

Waterbody	Winnebago Creek		
Final Indicator for Schroeder, Dean			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	19.44
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Schroeder, Dean			
Indicator Name	SEDIMENT (TSS)	**Value**	14.36
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		
Final Indicator for Schroeder, Dean			
Indicator Name	SOIL (EST. SAVINGS)	**Value**	40.5
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek		

Activity Action - Schroeder, Todd			
Practice	340 - Cover Crop	**Count of Activities**	1
Description	The landowner would like to reduce erosion potential while improving soil health parameters.		
Proposed Size / Units	41.00 AC	**Lifespan**	3 Years
Actual Size/Units	41.00 AC	**Installed Date**	12-Nov-20
Mapped Activities	3 Polygon(s)	**Technical Assistance Provider**	SWCD

Final Indicator for Schroeder, Todd			
Indicator Name	NITROGEN	**Value**	606.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	HSPF SAM - 12 Digit HUC
Waterbody	Crooked Creek		
Final Indicator for Schroeder, Todd			
Indicator Name	SOIL (EST. SAVINGS)	**Value**	18.86
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for Schroeder, Todd			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	6.04
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for Schroeder, Todd			
Indicator Name	SEDIMENT (TSS)	**Value**	4.74
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)

Waterbody	Crooked Creek

Activity Action - Johnson, Eric			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to reduce erosion potential while increasing soil health.		
Proposed Size / Units	150.00 AC	Lifespan	3 Years
Actual Size/Units	150.00 AC	Installed Date	12-Nov-20
Mapped Activities	4 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Johnson, Eric			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	1.16
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Root River		

Final Indicator for Johnson, Eric			
Indicator Name	NITROGEN	Value	1310.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Root River		

Final Indicator for Johnson, Eric			
Indicator Name	SEDIMENT (TSS)	Value	.83
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Root River		

Final Indicator for Johnson, Eric			
Indicator Name	SOIL (EST. SAVINGS)	Value	12.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Root River		

Activity Action - Schroeder, Jason			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to reduce erosion on hillsides while improving soil health.		
Proposed Size / Units	150.00 AC	Lifespan	3 Years
Actual Size/Units	150.00 AC	Installed Date	12-Nov-20
Mapped Activities	9 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Schroeder, Jason			
Indicator Name	SEDIMENT (TSS)	Value	2.36
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)

Waterbody	Winnebago Creek; Lower South Fork Root River; Root River		
Final Indicator for Schroeder, Jason			
Indicator Name	SOIL (EST. SAVINGS)	**Value**	90.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek; Lower South Fork Root River; Root River		
Final Indicator for Schroeder, Jason			
Indicator Name	NITROGEN	**Value**	1319.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	HSPF SAM - 12 Digit HUC
Waterbody	Winnebago Creek; Lower South Fork Root River; Root River		
Final Indicator for Schroeder, Jason			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	2.85
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Winnebago Creek; Lower South Fork Root River; Root River		

Activity Action - Tessmer, Dave			
Practice	340 - Cover Crop	**Count of Activities**	1
Description	The landowner would like to reduce soil erosion and increase soil health of crop acres.		
Proposed Size / Units	70.20 AC	**Lifespan**	3 Years
Actual Size/Units	70.20 AC	**Installed Date**	12-Nov-20
Mapped Activities	3 Polygon(s)	**Technical Assistance Provider**	SWCD
Final Indicator for Tessmer, Dave			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	**Value**	.94
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for Tessmer, Dave			
Indicator Name	SEDIMENT (TSS)	**Value**	.59
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for Tessmer, Dave			
Indicator Name	SOIL (EST. SAVINGS)	**Value**	5.6
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Crooked Creek		
Final Indicator for Tessmer, Dave			
Indicator Name	NITROGEN	**Value**	671.0
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	HSPF SAM - 12 Digit HUC

Waterbody	Crooked Creek

Activity Action - Solum, Jay			
Practice	340 - Cover Crop	Count of Activities	1
Description	The land occupier would like to reduce erosion and improve soil health on row crop acres.		
Proposed Size / Units	64.00 AC	Lifespan	3 Years
Actual Size/Units	64.00 AC	Installed Date	23-Oct-21
Mapped Activities	4 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Solum, Jay			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	6.986
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Waterloo Creek		

Final Indicator for Solum, Jay			
Indicator Name	SEDIMENT (TSS)	Value	6.074
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Waterloo Creek		

Final Indicator for Solum, Jay			
Indicator Name	SOIL (EST. SAVINGS)	Value	28.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)
Waterbody	Waterloo Creek		

Final Indicator for Solum, Jay			
Indicator Name	NITROGEN	Value	716.7
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	HSPF SAM - 12 Digit HUC
Waterbody	Waterloo Creek		

Activity Action - Von Arx, Tim			
Practice	340 - Cover Crop	Count of Activities	1
Description	The landowner would like to improve soil health on crop acres while reducing soil erosion.		
Proposed Size / Units	59.79 AC	Lifespan	3 Years
Actual Size/Units	59.79 AC	Installed Date	18-Oct-21
Mapped Activities	1 Polygon(s)	Technical Assistance Provider	SWCD

Final Indicator for Von Arx, Tim			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	6.43
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (SHEET AND RILL)

Waterbody	Thompson Creek		
Final Indicator for Von Arx, Tim			
Indicator Name	SEDIMENT (TSS)	**Value**	4.88
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		
Final Indicator for Von Arx, Tim			
Indicator Name	SOIL (EST. SAVINGS)	**Value**	90.00
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	**Calculation Tool**	BWSR CALC (SHEET AND RILL)
Waterbody	Thompson Creek		
Final Indicator for Von Arx, Tim			
Indicator Name	NITROGEN	**Value**	567.9
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	**Calculation Tool**	HSPF SAM - 12 Digit HUC
Waterbody	Thompson Creek		

Grant Activity - Cover crop seeding using no-till methods			
Description	An additional $10/acre incentive payment will be made to those producers who chose to use no-till methods when establishing their cover crop. This may include no-till drilling fall cover crops, inter-seeding cover crop into standing corn, or broadcast seeding cover crop all following NRCS standards. 400 acres per year x 3 years x $10/acre = $12,000 acres in 2020, 400 acres per year x 3 years x $10/acre = $12,000 acres in 2021, and 400 acres x 3 years x $10/acre = $12,000 acres in 2022 = $36,000 to be paid at establishment of the first year of cover crop and will only be paid to producers who are enrolled in the "Cover Crop Cost Share" program.		
Category	NON-STRUCTURAL MANAGEMENT PRACTICES		
Start Date	2-Mar-20	**End Date**	18-Nov-21
Has Rates and Hours?	No		
Actual Results	CY2020 $34,500.00 was expended. 1150 acres of no till were installed at a rate of $10/acre for a three year period. Remaining fund balance is $2,500.00. 2/16/21 Amended funds totaling $2,213.66 are being added from the Purchase cover crop inter-seeder Activity. CY2021 $3,713.66 was expended. 123.7885 acres of no till were installed at a rate of $10/acre for a three year period. All funds are expended.		

Grant Activity - Field Days and Events			
Description	Staff time to hold educational events and field days. Send out informational mailings, etc. Bob Scanlan will be the lead from Root River SWCD for developing and holding educational field days. We plan to hold at least one event over the three year program but may hold more events as money and time permits. Scanlan and other SWCD staff will also provide informational material to local producers and work with the county extension educator to partner on additional educational opportunities as they present themselves. Field day events may include side-by-side comparisons of cover crop varieties, timing, placement, and seeding rate variables, soil health improvements over time, etc. In the past we have partnered with the Houston County Cattlemen and the University of MN. Similar partnerships are a goal with this program. Typical field day attendance in the past has resulted in 10-50 people in attendance. Our goal is to get as many people out on a farm to take in the information as possible. We also plan to include soil health information as a topic at other local workshops and/or field days sponsored by other local partners. We will educate the public as the opportunities present themselves. Surveys will be utilized as a means to evaluate outreach efforts.		
Category	EDUCATION/INFORMATION		
Start Date	15-Jan-20	**End Date**	
Has Rates and Hours?	Yes		
Actual Results	CY2020 & 2021 No funds were expended. CY2022 Event expenses (2/8/22) $2,391 Speaker $500, Meal $1891. Remaining fund balance is $609.00.		

Grant Activity - Purchase cover crop inter-seeder			
Description	Through this proposal Root River SWCD will either purchase an inter-seeder or have a local machine shop build a unit. This unit would be made available to producers to either (1) lease the inter-seeder or (2) the producer could enter into contract with the District to hire the inter-seeding work done by District staff. A policy for rental of inter-seeding equipment or the hiring of SWCD staff to operate inter-seeding equipment shall be put into place prior to program implementation. Such a policy will discuss liability insurance, payment rates, and a no-fault clause if the cover crop does not germinate at planned rates based on weather crop residue or other site conditions. Potential multi-specie seed mixes will be discussed and a single, locally approved mix may be required for simplicity. A contract will be signed similar to one we currently use to lease a mulch crimper from the SWCD.		
Category	SUPPLIES/EQUIPMENT		
Start Date	2-Jan-20	**End Date**	16-Feb-21
Has Rates and Hours?	No		
Actual Results	CY2020 Kuhn MDS 20.2 Twin Disc Spreader =7000.00; Utility trailer $1721.72 Reg/Lic Utility Trailer = $84.00; Storage Rent = $126.00. Remaining balance $11,068.28. The Kuhn spreader was demonstrated on three farms this past summer. One producer leased the seeder to interseed cover crop into standing corn. Other landowners have expressed interest in using the seeder on other conservation projects. 2/16/21 The Purchase cover crop inter-seeder Activity has been amended from $20,000 to $8,931.72. The amended amount of $11,068.28 is being directed to Cover Crop cost share Activity = $8,854.63 and Cover Crop seeding using no-till methods Activity = $2,213.66. Remaining fund balance is $0.		

Grant Activity - Soil Health Testing			
Description	Soil Health Testing will be offered to participants of the "Cover Crop Demonstration Program" as a means to track improvements to soil health parameters including increases to microbial soil life. Root River SWCD will be working with Ward Lab from Kearney, Nebraska to do the analysis while SWCD staff will handle the bulk of the field sampling. Initial testing during the fall of 2020 will set a basis of existing soil health. Follow-up testing in 2023 will allow landowners to see any improvements to soil health indicators after implementing cover crops with no till methods over a three year time frame. Grant funds will cover the SWCD technical staff costs, lab fees, postage, and equipment associated with the soil health sampling.		
Category	PLANNING AND ASSESSMENT		
Start Date	15-Jan-20	**End Date**	
Has Rates and Hours?	No		
Actual Results	CY2020 Asst Man Bob 52 hrs @ 55.70 = 2896.40; Supply & Postage = 152.79; Lab Fees = 1386.00. Remaining balance $7,564.81 Ten producers authorized SWCD staff to collect soil samples for this study. Twenty-six soil samples were taken over an area of 621 acres. This averages one sample per 23 acres. The soil sample results are either emailed or mailed to the SWCD then forward to the producer. CY21 no funds were expended. CY2022 Asst Man Bob 9 hrs @ 61.85 = 556.65; Postage = 9.45; Lab Fee = 49.50; Mileage 8 @.585 = $4.68 Time was dedicated to infiltration testing. Remaining fund balance is $6,944.53.		

Grant Attachments

Document Name	Document Type	Description
2020 Cover Crop Amendment EXECUTED	Grant Agreement Amendment	
2020 Cover Crop Demonstration Program Grant	Grant Agreement	2020 Cover Crop Demonstration Program - Root River SWCD
2020 Cover Crop Demonstration Program Grant EXECUTED	Grant Agreement	2020 Cover Crop Demonstration Program - Root River SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/05/2022

Document Name	Document Type	Description
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/04/2022
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/04/2023
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/15/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/13/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/05/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/16/2021
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/19/2021
Application	Workflow Generated	Workflow Generated - Application - 10/22/2019
C20-8214 Reconciliation C Checklist	Journal	Journal Dated - 12/30/2020
Cover Crop Cost Share Policy	Grant	Cover Crop Demonstration - Houston County
Cover Crop Field Day 10/12/19	Grant	Cover Crop Demonstration - Houston County
Cover Crop Soil Health Testing Policy	Grant	Cover Crop Demonstration - Houston County
FY20 CCDP Financial Report Payment Request	Grant	Cover Crop Demonstration - Houston County
Financial Report	Grant	Cover Crop Demonstration - Houston County
Grant Extension Request_May 5 2022	Grant Agreement Amendment	
Inter seeding cover crops	Grant	Cover Crop Demonstration - Houston County
NLMP Request Form	Grant	Cover Crop Demonstration - Houston County
SWCD Local Cost-Share Policy 2022-12-08	Grant	Cover Crop Demonstration - Houston County
Unexecuted Grant Amendment	Grant Agreement Amendment	
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 02/10/2021
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 08/31/2020
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/09/2019
field day	Grant	Cover Crop Demonstration - Houston County