

# **Le Sueur County**

# Soil and Water Conservation District 2021 Annual Report



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#### **A Year In Summary**

The Le Sueur County Soil and Water Conservation District (SWCD) had another great year in 2021. This past year the SWCD celebrated its 75th Anniversary (1946-2021). Over the 75 years the SWCD has helped mold the Le Sueur County landscape working with many generations of farmers and landowners. Other milestones the SWCD celebrated were the Program Specialist Sue Prchal achieving 30 years of service and District Manager Michael Schultz achieving 10 years of service.

Throughout the year Covid-19 influenced our operation but the SWCD continued to persevere and get results. The SWCD installed \$180,000 in structural projects,



Le Sueur SWCD District Manager Michael Schultz Celebrated 10 years of service in 2021



Le Sueur SWCD Program Specialist Sue Prchal Celebrated 30 years of service in 2021

\$112,000 in CREP Easement Construction, \$25,200 in non-structural practices such as cover crops and completed \$251,000 of county drainage construction work through the SWCD Drainage Inspector.

This report highlights accomplishments in Le Sueur County and how the SWCD continues to mold the landscape after 75 successful years.



**2021 LE SUEUR SWCD** 

CONSERVATION AUTO TOUR

Due to the Pandemic, 2021 was a unique year for Education and Outreach. The SWCD needed to adapt to new ways of interacting and communicating with our clients due to the changing environment caused by Covid-19. Despite the challenges, 2021 was still a successful year for education & outreach.

In 2021 the SWCD tried a new approach to engage our clients and partners. The SWCD Conservation Tour that is held annually with the SWCD Board was made available to everyone via an Auto Tour that could be done anytime between July and September. The SWCD received great feedback from partners regarding how well it was put together. Information could be accessed electronically through a smartphone using the phone's GPS and reading QR Codes. The SWCD also provided maps that were available to be downloaded on our website.



Top Right: Map used to get direction to the tour sites, all you needed to do is click the link. Left: A sign with the GPS destination at a site. Each site had a sign that could be seen from the road that had additional info on it. Right: Photo taken from the tour of the group exploring a site.





Left: An example of what each site's sign looked like. Using your smartphone QR Code Reader, tour participants were able to get additional information on site. Below: An example of information provided by using the QR Code.







Above: The SWCD Board with Francis Budin, the 2021 Outstanding Conservationist, as we stopped at his JD63 Storage Project





#### Le Sueur SWCD stokes conservation







Farmers implement practices to slow and filter runoff. Lake association nembers support phosphorus-reduction measures. In the Jefferson German chain of lakes watershed, Clean Water Funds spark cooperation.



The SWCD's \$484,000 phospho

Whenever you have a landowner who wants to do something along

66 Our goal is to work with anyone and everyone around the chain of lakes that is interested in preserving the quality of the water. 99

quality of the water," said association President Raiph Redding. He's one of about 130 shoreland property owners. The 136-member association raised \$10,000 through a raffle and event at Beaver Dam Resort. To raise the rest, Redding asked area hydrograph to contribute functioned properly.

items for an auction.

When he meets with lake association members, Le Sueur County SWCD Manager Mike Schultz stresses the need for cooperation — and money

The SWCD had two projects highlighted in the Minnesota Board of Water and Soil Resources' "Snapshots" for both February and March. The projects highlighted were the Jefferson/German Clean Water Fund Wetland Restoration Project with Leo Koppelman and the JD63 Storage and Treatment Clean Water Fund Multi-

Purpose Drainage Management Project.

BOARD OF WATER

#### New option for drainage + water quality











MONTGOMERY - A first-of-itspaired waters has implications from ontgomery Township, where the Le eur County Soli & Water Conservation trict (SWCD) multipurpose drainage anagement project finished this fall,

The \$75,000 project 4 miles south of Montgomery temporarily stores water from a 112-acre watershed and its three tributaries in

66 Prior to this, there was no mechanism to give the

ditch system funding to potentially do storage, so this is a unique opportunity for us to start looking at ditches in a different way, of (not) just sending water downstream.



rve Program (CRP).





In December, the SWCD attended the 85th Annual Meeting of the Minnesota Association of Conservation Districts. It was the first convention since 2019 due to the Pandemic. It was a great opportunity for fellow SWCDs to reconnect and for business to get done. It was a busy three days starting off with the Leadership Forum, followed by the Business Meeting and ending with honoring our Outstanding Conservationist.



Top: Planary Session-SWCD Role in Making Minnesota Landscapes More Resilient. Leann Buck, MASWCD Director, with MN Dept. of Ag Commissioner Thom Peterson, MN DNR Commissioner Sarah Strommen, BWSR Director John Jaschke and MN NRCS State Conservationist Troy Daniell.

Right: Outstanding Conservationists, Francis and Shirley Budin

**Bottom: Outstanding Conservationist Awards Luncheon** 

#### SWCD

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Districts

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In 2021 the SWCD was able to increase its social media presence through Facebook users by 494% compared to 2020. The SWCD implemented routine posts to engage its followers and developed unique themes for readers to get a better understanding of the roles of the SWCD Staff and Supervisors.



Le Sueur County SWCD

We were fortunate to get a timely rainfall event but we may be hoping for more rain soon for soils that are not armored from the hot sun! Here are a few pictures of soil temperatures from the same field showing the difference between conventional and no tilled with cover crops soybeans.





Le Sueur County SWCD

One of the jobs of the SWCD is to identify resource concerns around Le Sueur County. One of the sites we recently wrapped up work on was this site within our Jefferson German Lakes Watershed. This project was targeted and as part of our Jefferson German Phosphorus Reduction Project we were able to use Clean Water Funds to install water and sediment control basins to reduce the soil loss.









Cover crops are greening up around the area!

Overwintering cover crops provide a long list of benefits in the spring, here are a few-

Wind and water erosion protection Weed suppression Nutrient scavenging Breaking up compaction to increase infiltration Jump start microbial activity with living roots

High Clearance Broadcast Seeded Cereal Rye 120# per acre Sept 2020



Above: A sample of what the SWCD social media posts looked like in 2021.

Right: Articles written by Sue Prchal, Program Specialist on a series called "SWCD's-A Puzzle?" All articles can be found on the Le Sueur County SWCD Facebook Page.





**The Program Specialist** 





The spotlight for the May Puzzle Piece will focus on the Program Spe County SWCD Program Specialist is Sue Prchal.

separated back into individual pieces and placed into its original box. In comes the invention of Mod Podge, the glue and sealer for puzzles. This is basically the job description of the Pro-

Mod Podge glue keeps the puzzle pieces together, just like Sue keeps staff and landowners connected. She informs landowners as to which staff member will best be able to help them and which programs a landowner may be eligible for. Sue has experience with all the pro-

Sue protects the interests of the SWCD. She handles financial responsibilities, organizes board meetings and agendas, coordinates tree sales, and makes day to day

sue lives in Montgomery with her husband. They built grew up feeding calves, scraping mangers and bailing hay on her family's dairy farm. Sue graduated from mery-Lonsdale High School and attended Man kato State University before starting her career with the oil and water conservation district. Sue just celebrat



er 30th year of service with the Le Sueur County SWCD on April 15, 2021

Sue's knowledge of programs and warm presence at the front counter help all who enter th Le Sueur County USDA Service Center.

#### SWCD's - A PUZZLE?

Nik provides assistance to landowners ensuring the county ditches are properly n He also monitors buffers and administers the buffer law for Le Sueur County

Nik graduated from White Bear Lake High School and attended college at the University of Minnesota - Crookston receiving a degree in Water Resources Management.

He and his family currently live in Montgomery, MN. Outside of the office Nik enjoys cheering on his kids' sporting events, coaching his kids' hockey teams, deer hunting and fishing.





#### **Outstanding Conservationist**

Francis & Shirley Budin of Montgomery Township were chosen as the 2021 Outstanding Conservationists by the Le Sueur County SWCD Board of Supervisors.

Francis grew up on his family farm where row crops and dairy cows were raised. After graduating high school and serving in the military, he and Shirley got married. They moved to Burnsville where Francis began a 36-year career at Ford Motor Company. In 1976 they purchased the family farm from Francis' dad and rented it out until 1985. Francis and Shirley conventionally farmed the acreage until 2005 when he began enrolling portions of the farm into CRP. Francis and Shirley moved to their current residence in 2009, which is a ½ mile from Francis' childhood home.





Francis and Shirley were recognized for the various conservation practices they have installed on their farm. They have planted over 2200 trees, enrolled 23.5 acres into the State of Minnesota RIM easement program and have enrolled the remainder of their farm into CRP. They have also constructed terraces for erosion control. Francis and Shirley became certified in the Minnesota Ag Water Quality Certification

Program in 2017. Most recently, they worked with Joint Ditch #63 creating a 5-acre retention pond. This storage project will help to offset flooding

impacts identified due to increased drainage demands. The retention pond will help the condition of the ditch for the future and is the first ditch storage project completed in Le Sueur County.

The Budins were honored in December 2021 at the Minnesota Association of Soil and Water District's convention held in Bloomington. The Farmer magazine presented them and other counties' outstanding conservationists with a certificate for their dedication to conservation.





#### **SWCD Drill Programs**

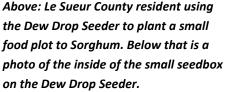
The SWCD has 2 seeders available for rent, a Dew Drop Seeder and a Truax No-Till Drill. The Dew Drop seeder is used for seeding small areas and can easily be used with an ATV, UTV or small tractor. It has an electric lift so no hydraulics are necessary to operate the seeder. Rent is \$60 per day. In 2021, the dew drop was used 3 times for a total of 4 acres.

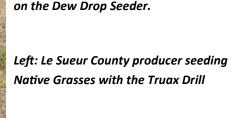
The Truax No-Till Drill is used for planting larger areas. It can be used to plant cover crops, small grains and native seed mixes. The drill has a seeding width of 8 ft. The drill is available to rent for a minimum charge of

\$120, or \$12 per acre. The rental charge includes delivery to your farm, calibration/set up and pickup of the drill when the seeding is completed. In 2021, 25 producers rented the drill totaling 250 acres.













#### **One Watershed One Plan, Cannon River**

#### In 2021, The Cannon River Watershed Joint Powers Board kicks off implementation

Over the past few years, local representatives from county governments, cities, soil and water conservation districts, non-profit organizations, and concerned citizens have met to develop a comprehensive watershed management plan for the Cannon River. Stakeholders used the process of One Watershed One Plan developed by the Minnesota Board of Water and Soil Resources (BWSR) to develop the plan.

BWSR officially approved the Cannon River Comprehensive Watershed Management Plan (CRCWMP) on June 24th, 2020. In addition to the plan, the Cannon River Watershed Joint Powers Board was also created

to assist with goals of implementing the CRCWMP.

The CRWMP identifies high priority areas based on watershed concerns of the Cannon River and provides conservation practices to implement with the goal of improving water quality. However, the implementation of conservation practices is not limited to only these areas. Conservation across the watershed is important to the health of the Cannon River Watershed.



Fall Sunrise over the Cannon River

Le Sueur County holds 9.6 percent of the watershed area of the Cannon River, 5th most of the counties located in the watershed. The CRCWMP prioritizes treatment in the watersheds of lakes and streams. Le Sueur County is home to two of the seven lakes identified as high priority lakes (Roemhildts and Fish). These lakes and their watersheds will be targeted for non-structural practices in the next two years.

By implementing conservation practices in priority areas and across the watershed, Le Sueur County can improve the water quality of the Cannon River Watershed by reducing sedimentation and nutrient loading of our local lakes and streams.

Staff from the Le Sueur SWCD will work with landowners and farmers to implement conservation practices. Four different categories will be focused on during the implementation phase of the plan.

The first category is cost-share projects including structural and nonstructural practices. Structural practices will be constructed in the high priority stream watersheds and include projects like waterways and sediment basins. Non-structural practices, including reduced tillage and cover crops, will be implemented in both high priority lake and stream watersheds.



#### **One Watershed One Plan, Cannon River**

The second category focuses on developing resource concern inventories across the watershed. In Le Sueur County, natural shoreline inventories will be developed on Roemhildts, Fish, Dora, Mabel, Diamond, Sabre, and Tustin and will focus on ways to preserve the shorelines. Septic inventories will also be conducted.

The third category will focus on plan development and tracking progress. Activities in this category will in-

clude surveying cover crops and completing terrain analysis for the entire watershed to track progress of the completed projects. Every other year there will be a field day to show locally elected officials and other stakeholders the progress of the plan.

The final category will concentrate on education & outreach across the watershed. This will include soil health events, individual letters to landowners on the health of their land, and the development of a plan to further educate the public on the state of the Cannon River Watershed.



A Late Summer afternoon on Lake Volney



Overall, there is a lot that can be done in Le Sueur County to help the health of the Cannon River Watershed. This will be a slow process, but over time the implementation of conservation practices will make large noticeable changes. In 2021, approximately 20% of our current Watershed Based Implementation Grant has been utilized. Work has been slow for Le Sueur County as its current Tier 1 and 2 priority areas are small and landowner interest is currently low. Over time, more opportunities will be available.

Left: TSA Area 6 Engineer Ryan Jones and Le Sueur SWCD District Technician Joe Jirik survey a newly formed ravine for a grade stabilization project near Middle Jefferson Lake

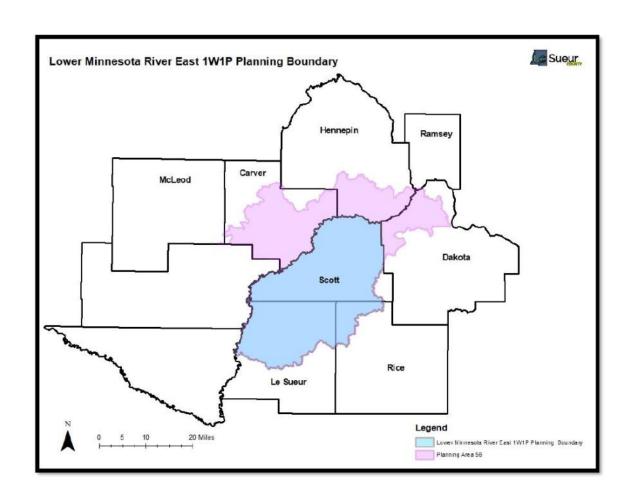


#### One Watershed One Plan, Lower Minnesota East

Le Sueur County and the Le Sueur SWCD in partnership with Rice County, Rice SWCD, Scott County, Scott Watershed Management Organization, Scott SWCD, and the Lower Minnesota River Watershed District applied for a planning grant to start the Lower Minnesota River East One Watershed One Plan (1W1P). The Minnesota Board of Water and Soil Resources (BWSR) board met in August to determine which proposals would be funded. The Lower Minnesota River East 1W1P proposal was approved.

Over the next few years, counties, soil and water conservations districts, water management organizations, watershed districts, municipalities, state agencies, and other stakeholder groups will be working together to develop a 10-year plan for this watershed to help improve, protect, and restore resources. The Lower Minnesota River Watershed was divided into multiple planning areas due to the size of the watershed, the different land use activities, and the physical characteristics of the watershed.

The image below is the anticipated planning boundary for the Lower Minnesota River East 1W1P. We are still in the early stages of planning efforts, but stay tuned for more updates!





#### **Wetland Conservation Act**

Le Sueur SWCD is the Local Government Unit that oversees the Wetland Conservation Act (WCA) on behalf of Le Sueur County. 2021 was a busy year for wetland inquires as WCA workload returned to its prepandemic state.



A WCA violation site where a landowner dug a ditch through a wetland.

- 67 landowners consulted the SWCD on WCA issues
- 16 WCA applications were approved
- 1 WCA application was rescinded
- 22 potential WCA Violations were investigated
- 3 Wildlife Pond Requests

#### Minnesota Agriculture Water Quality Certification Program

The MN Ag Water Quality Certification Program's goal is to protect and enhance water quality within Minnesota's agricultural lands by working with farmers and landowners to promote stewardship.

Le Sueur County SWCD partnered with the MN Department of Ag and began administering this program in 2019. Currently 15 landowners in Le Sueur County have been certified or are working towards certification.

Certified farms receive a 10 year exemption from any new water quality regulations and can obtain financial assistance to implement practices that promote water quality. They also receive a sign to display their accomplishment and may promote their business as a MN Ag Water Quality Certified business.





#### **Tree Program**

In 2021 over 6000 new trees and shrubs were planted in Le Sueur County as a result of the annual SWCD tree program. A variety of bare root and potted evergreens, hardwoods such as oaks, maples, aspen and birch to shrubs like lilac, dogwood and plum were available for purchase. In 2020 due to pandemic uncertainty, the SWCD started delivering purchased trees to Le Sueur County Residents. The SWCD has decided to deliver trees moving forward. Both the SWCD and the landowners liked the new routine.



#### **Food Plots**

In partnership with the Le Sueur County Pheasants Forever Chapter, the SWCD gave out 34 acres worth of food plot corn, 8 acres of Soybeans and 8 acres of Sorghum to 17 landowners. The Le Sueur SWCD has been in partnership with the local PF Chapter since the 1990s.





Le Sueur County Food Plot In September with Seed from Le Sueur County Pheasants Forever



### **State Cost Share Program**

SWCD staff had consistent work throughout 2021 with 4 State Cost-Share construction projects dispersing **\$43,000** in project funds.

- 6 Water and Sediment Control Basins Installed
- 1 Well Sealing







Photos are construction in process over 3 different project sites.





#### **Jefferson German Watershed Phosphorus Reduction Project**

In 2021 the Le Sueur SWCD in partnership with Le Sueur County completed the \$484,000 Jefferson German Phosphorus Reduction Project. The project was awarded a 2018 Clean Water Fund Grant in the amount of \$387,100. Match contributions came from the Greater Jefferson German Lake Association in the amount of \$12,000, Le Sueur County \$34,000, Le Sueur SWCD \$10,000 and remaining dollars from landowners.



The Phosphorus Reduction Project Completed the following:

- 15 Water and Sediment Control Basins
- 7 Grade Stabilization Structures
- 1 Shore-land Protection Project
- 1 Critical Area Planting
- 1 Storm-water Pond

- 1 Wetland Restoration
- 1 Drainage Outlet Repair
- 4 Cover Crop Contract for 200 Acres
- Enrolled 38 Acres into CREP

Below: A collage of cover crops, grade stabilization, storm-water treatment, wetland restoration and drainage outlet projects all completed as part of the Phosphorus Reduction project.

















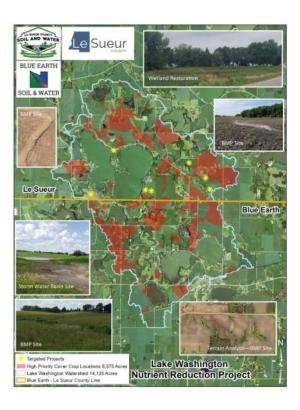


#### **Lake Washington Nutrient Reduction Project**

In 2020 the Le Sueur County SWCD was awarded \$310,250 from the Minnesota Board of Water and Soil Resources to address resource concerns in the Lake Washington watershed. These resource concerns were targeted in partnership with Le Sueur County and the Blue Earth SWCD. The Lake Washington Improvement Association has pledged to pay all of the matching funds needed for the grant in the amount of \$77,563. They have provided much needed support of the project and partnership. In 2021, one project was completed. This project included 6 water and sediment control basins in the eastern part of the watershed. A total of \$37,300 was spent in the Lake Washington Watershed.

Below: Two sites that SWCD District Technician Joe Jirik is currently working on with our SWCD Technical Service Area staff. Construction of grassed waterways, water and sediment control basins, grade stabilization structures and wetland restorations is planned for 2022.











#### **Multipurpose Drainage Management Grant CD 61**

In 2020 the Le Sueur SWCD in partnership with Le Sueur County received a \$215,541 Multipurpose Drainage Management Grant through the Minnesota Board of Water and Soil Resources' Clean Water Funds Grant. The project is a County Drainage Improvement Storage and Treatment Wetland. Landowners on the ditch system filed a petition to improve the ditch that included the storage and treatment site. The landowners on the system agreed that the County Ditch is no longer functioning the way it was originally designed and something needed to be done to reduce maintenance costs and improve drainage benefits. The project had been identified as a priority in numerous plans. This includes the CD 61 Final Engineer's Report and the 2014 CD 61 Drainage Inspection Plan. Both plans identified that storage is needed to keep the ditch functioning efficiently into the future.



One of the petitioners offered his land in the upper watershed as a storage and treatment basin. The site is 31.1 acres in size. Of that 31.1 acres 15.4 acres will be the restored wetland and 15.7 acres will be an upland

buffer planted to native vegetation.

Construction on the project started in the Late Summer/Fall of 2021 and will be wrapped up in the spring of 2022. The project will provide 76.56 T/yr of sediment reduction, 52.55 T/yr of estimated soil savings, and 170.02 lbs/yr of estimated phosphorus reduction which will help address the sediment and nutrient reduction needed for Scotch Lake located downstream. A calculated 17.2 acre/ feet of water will be stored by the 15.4-acre wetland restoration and will treat the 535 acre watershed.



CD 61 storage and treatment wetland weir structure shortly after the forms have been removed.



# **Cover Crops**

#### 2021 SWCD Cover Crop Program

- 1227 Total Acres Seeded
- 424 Acres Applied by High Clearance Seeder
- 125 Aerial Applied Acres
- 678 Acres Drilled or Broadcasted after Harvest
- 5 Producers Planted Green into Standing Rye

#### **Soil Health Meetings**

2 Staff attended a soil health meeting
 in Iowa seeing speakers Mitch Hora and Rick Clark



Le Sueur County SWCD Supervisor in No-Till soybeans planted into Cereal Rye



Cows Grazing a Cover Crop after corn silage

High Clearance Applied Cover Crops into Standing Corn

Drilled Cover Crop After Hybrid Rye Harvest



#### **Conservation Partners Legacy Grant MN DNR**

In the spring of 2021 the SWCD was awarded a \$34,903 Conservation Partners Legacy (CPL) Grant through the Minnesota Department of Natural Resources. The Le Sueur County Pheasants Forever Chapter and the U.S. Fish and Wildlife Service provided a combined \$3,886 match for the grant. The funds acquired will be used to restore a wetland and the surrounding vegetation on 23 acres of the Murphy Wildlife Management Area (WMA). The Murphy WMA is located in Waterville Township section 5.To establish native grasses and forbs trees were removed this past summer. The next steps include farming the 23 acres in 2022 & 2023. Farming the acres for the next 2 years will help ensure the eradication of the smooth brome and other volunteer species that have dominated the landscape for many decades. In the fall of 2023 wetland construction will be completed along with the native seeding.



Surface drainage ditch that drains the 2 acre wetland



Red: CPL Project Area Purple: Murphy WMA



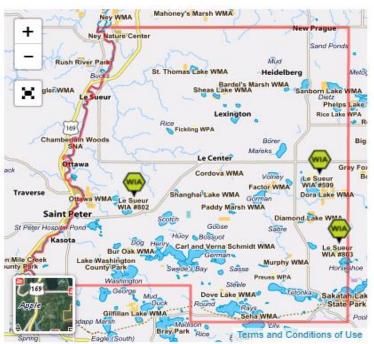
Existing Cover of Smooth Brome and trees (Spring 2021)





#### **Walk-In Access**

Walk-In Access (WIA) is a voluntary program that compensates landowners to allow public access for hunting on their land from September 1st through May 31st. With the number of hunters diminishing in the past decades, largely due to the lack of quality hunting land, the WIA program is more important than ever. A decrease in hunters means less support for wildlife and habitat; which in turn will have a negative effect on local wildlife populations. The WIA program will help sustain future generations of hunters while creating more local hunting opportunities. Le Sueur County currently has 3 parcels enrolled in the Walk-In Access program. Le Sueur County SWCD works with landowners to enroll land in the program.



Yellow: Locations of WIA sites in Le Sueur County



103.04 acres located in Cleveland Township



110.7 acres located in Kilkenny Township



69.05 acres located in Kilkenny Township





#### **Conservation Reserve Enhancement Program (CREP)**



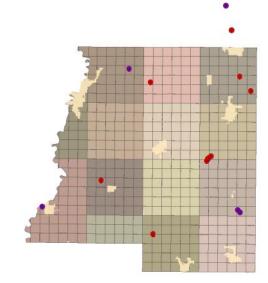
Left: 140.07 acre wetland restoration located in Helena Township section 9.



Above: 36.41 acre wetland restoration located in KilkennyTownship section 35.



Above: 15.41 acre wetland restoration located in Tyrone Township section 14.



Left: 91.74 acre wetland restoration located in Kasota Township sections 32.



Above: 32.45 acre
wetland restoration
located in Kilkenny
Township section 35



Left: 52.45 acre
wetland restoration
located in Derrynane Township section 19

Above in Red: In 2021 the Le Sueur County SWCD recorded 1 CREP easement, totaling 52.45 acres. These acres included 1 wetland restorations.

Above in **Purple**: Currently 5 CREP easements are in the process of being recorded, totaling 316.08 acres. These projects include 5 wetland restorations .

Beginning in April 2022 there will be another CREP sign up period. Landowners in Le Sueur County continue to show interest in the program and the Soil & Water office expects to submit more applications this coming spring.



# **2021 Completed Projects**

#### **CREP Wetland Restorations**

In 2021 three CREP wetland restorations were completed. A total of 215 acres of wetland habitat were restored, including 8 wetland basins. Construction consisted of scrapes, tile breaks, ditch reroutes, berms, and rock weir structures.

Photographs below are from all three projects completed.



Scrape



Berm with rock rodent trench



Tile break Rock weir





#### **Ditch Inspector**

#### **Drainage Ditches**

The ditch systems had another busy year completing roughly 30 projects. Projects included: ditch cleanings, repairing bank sloughs, replacing culverts, repairing farm crossings, trapping beavers and removing beaver dams. Trappers caught 29 beavers between 10 ditch systems.

In 2021 the ditch system continued the process of spraying and mowing 1/3 of the county ditches. The program helps to alleviate woody and noxious weeds in the



JD54 one of the many beaver dams located in Lanesburgh Township.



CD65 Ditch cleaning and bank repair located in Cleveland Township.

ditch buffer. Between 2019 and 2021 the County has sprayed and mowed every ditch system in the County.

In 2021 the Le Sueur County Drainage Authority spent \$3,994,000 throughout the drainage systems on improvements and engineered repairs, while the Ditch Inspector oversaw \$251,000 of construction work. All drainage systems incurred costs from repairs, engineer reports, correction of records, redetermination of benefits, ditch spraying/mowing, general inspections and labor. Some ditch system expenses were supplemented by grants and federal funds.



## **County Ditches/ Buffer Compliance**

#### **FEMA Projects for County Ditches**

Due to the 2019 rain/flood events, Le Sueur County was designated as a state of emergency by the Federal Government. Flooding events took place between the dates of March 12th and April 23rd. FEMA allocated \$402,499.98 to repair 22 damaged sites on the ditch system. In 2021 all projects were completed and final payments were issued by FEMA.



JD54 Box culvert replacement from the flooding of 2019 located in Lanesburgh Township.

#### **State Buffer Law & Compliance**

In 2015 Minnesota established a State Buffer Law that requires perennial vegetative buffers of 50 feet along lakes, rivers, streams and buffers of 16.5 feet along county ditches. These buffers help filter out phosphorus, nitrogen and sediment. The deadline for implementation of buffers on public waters was November 1, 2017.

The deadline for public ditches was November 1, 2018

As of 2021 The Le Sueur County SWCD has been doing field checks and staking non-compliance parcels in an effort to get to 100% compliance with the Minnesota Buffer Law. The SWCD will be monitoring the public water and county ditch buffers at least once every three years. Le Sueur County is currently 99% compliant on public waters and 94% compliant the County Ditches.



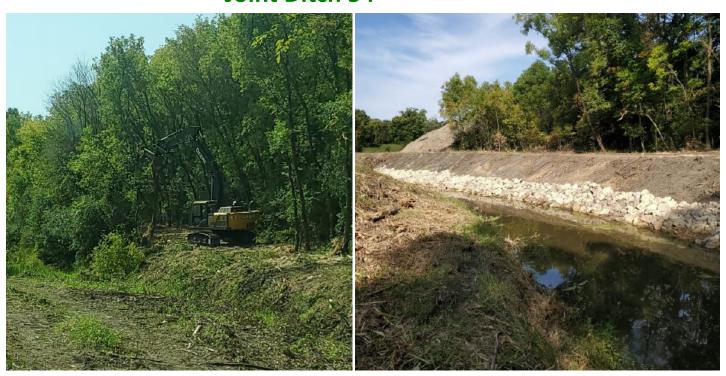
Established Ditch Buffer in Le Sueur County



### **2021 County Ditches Projects**

In 2021 the County Drainage Authority had two repair projects and two improvement projects. These types of projects take a few years to complete. They require many meetings with landowners, engineers and the Ditch Authority. The two repair projects included County Ditch 43 and Joint Ditch 54 with Rice County. The two Ditch Improvement projects were on County Ditch 41 and County Ditch 61.

#### Joint Ditch 54



JD54 Lanesburgh Township tree removal and bank repair.

Joint Ditch 54 with Rice County located in Lanseburgh Township has been our biggest repair project to date. The project was 7.6 miles long and took \$1.2 million to repair. Trees were removed on both sides of the County Ditch. In total 9 acres of trees were removed. The project also consisted of fixing the sloughs, cleaning out the ditch and replacing multiple culverts and tile.



# **2021 County Ditches Projects**

# **County Ditch 41**

One of the two improvement projects completed in 2021 was on CD41 located in Lexington Township. The Ditch Improvement included deepening the ditch, upsizing and replacing the tile and adding a 0.6 acre water storage pond which will store 7.8 acre/feet of water.



Above: CD41 Deepened and seeded



**Above: CD41 Storage Pond Construction** 





### **2021 County Ditches Projects**

#### **County Ditch 61**

Our second improvement project was on County Ditch 61. This ditch consists of 4,505 feet of open ditch and 7,430 feet of drainage tile. The CD61 improvement project consisted of deepening the ditch, repairing sloughs, and deepening and upsizing the tile. A \$215,541 Multi-Purpose Drainage Management (MDM)



grant was secured for a wetland restoration. Funding came from a BWSR CWF grant.

Left: Located in Cordova Township. Construction of CD61 Improvement. Storage and Treatment Pond overview area

#### **County Ditch 43**

On CD43 there is an on going repair project that started in the fall of 2021. This project includes a ditch cleaning, slough repairs, vegetation removal from Tyler's Lake, three culvert replacements, a Hog-Slat structure approved by the DNR at the outlet of Tyler's Lake and a dam replacement on the outlet of Clear Lake. The repairs will be completed in 2022.



CD43 hog-slat structure located in Lexington Township at the outlet of Tyler's Lake.



# **SWCD Projects**

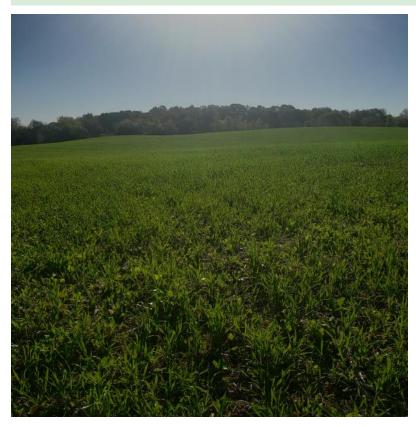
Below: No-tilled soybeans into cereal rye in June. The SWCD was out checking soil temperatures of different tillage practices. Soil temperatures were noted to be 20 degrees cooler in no-tilled fields than conventional tillage fields in late June.

Top Right: Hackett Construction installing dual wall tile for an erosion control project.





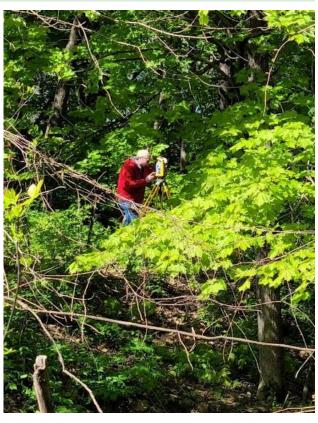
# **SWCD Projects**



Cover crop growing in a harvested bean field— Applied by High Clearance in August



Year 4 of Aerial Application of Cover Crops Partnering with Scott County



TSA Engineering Technician Greg Schemmel surveying a project in the German/Jefferson Watershed



Strip tilled bean stubble after Aerial Application of Cereal Rye into standing beans in August



#### **SWCD Office**

### Le Sueur SWCD Supervisors



Left to Right:

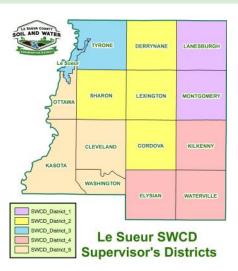
Jim Struck (District 5),

Cletus Gregor (District 4),

Greg Entinger (District 1),

Earl Traxler (District 2),

Glendon Braun (District3).



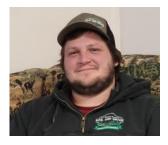
Le Sueur SWCD Staff



Michael Schultz, District Manager



Sue Prchal, Program Specialist



Joe Jirik, District Technician



Karl Schmidtke, Resource Technician



Nik Kadel, Ditch Specialist



# Le Sueur Natural Resource Conservation Service







Geoff Popken,

Soil Conservation Technician



Collin Williams,

Civil Engineering Technician