

## NICK PEINE

# WATER AND SEDIMENT CONTROL BASIN



### PRACTICE:

- Water and Sediment Control Basin

### BENEFITS:

- 0.9 tons of sediment per year prevented from traveling downstream
- 0.9 lbs. of phosphorous per year prevented from traveling downstream

### PARTNERS:

- Vermillion River Watershed Joint Powers Organization
- Minnesota Board of Water and Soil Resources

### WATERSHED:

- Vermillion River

### RECEIVING WATERS:

- South Branch Vermillion River

### INSTALLATION:

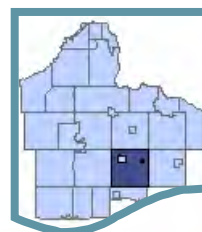
- 2024

**PROJECT:** Surface water runoff was causing gully erosion in the field. A water and sediment control basin was constructed to capture runoff and slowly release it through an underground outlet.

**FUNDING:**      **Total Project Cost:**      **\$7,958**  
                         **Cost Share Amount:**      **\$6,765**



**LOCATION:**  
Hampton Township







Topsoil was stripped back and stockpiled for later use.



An earthen embankment was constructed to temporarily hold back runoff.



Topsoil was spread back over the site and the embankment was seeded with perennial vegetation.



About one month after seeding and mulching was done, the vegetation was becoming established.



# PAT MAHER COVER CROP



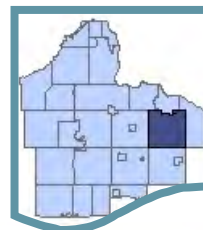
**PROJECT:** A winter cereal rye cover crop was planted on 27 acres following soybean harvest. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount: \$945



**LOCATION:**

Marshan  
Township



**PRACTICE:**

- Cover Crop

**BENEFITS:**

- 1 ton of sediment per year prevented from traveling downstream
- 1 lb. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

**PARTNERS:**

- Dakota County
- Vermillion River Watershed Joint Powers Organization

**WATERSHED:**

- Vermillion River

**RECEIVING WATERS:**

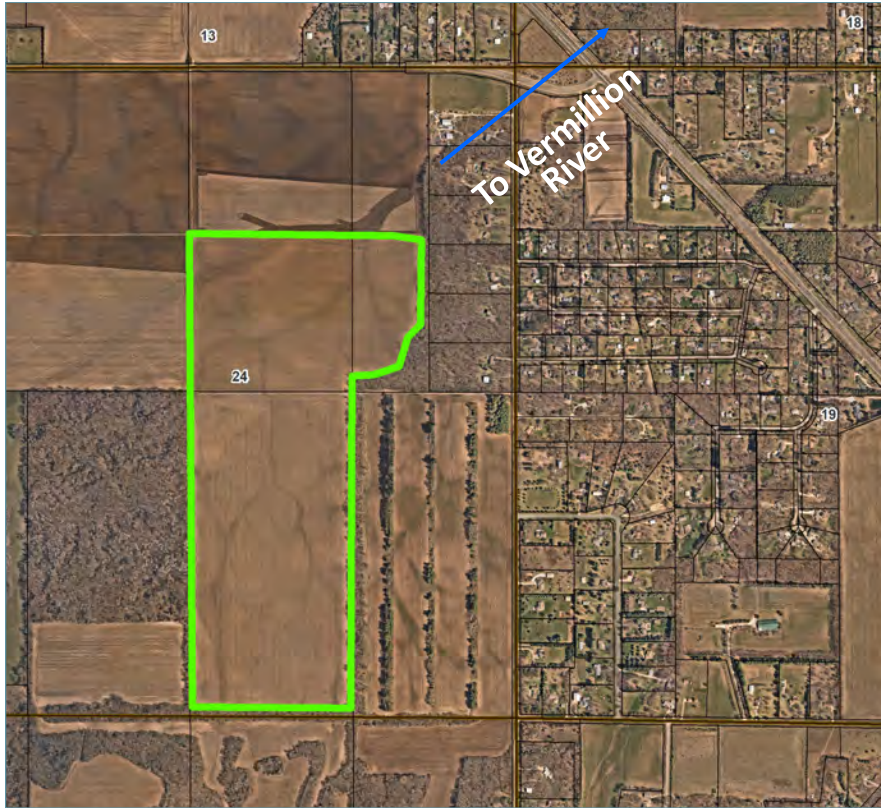
- Vermillion River

**INSTALLATION:**

- Fall 2024



## PAT MAHER COVER CROP



### PRACTICE:

- Cover Crop

### BENEFITS:

- 18 ton of sediment per year prevented from traveling downstream
- 29 lb. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

### PARTNERS:

- Dakota County

### WATERSHED:

- Vermillion River

### RECEIVING WATERS:

- Vermillion River

### INSTALLATION:

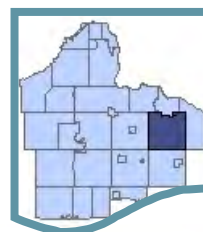
- Fall 2024

**PROJECT:** A winter cereal rye cover crop was planted on 128 acres following snapbean harvest. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount: \$4,480  
(128 acres x \$35/acre)

### LOCATION:

Marshan  
Township







Winter Cereal Rye was planted after snapbean harvest in late September.

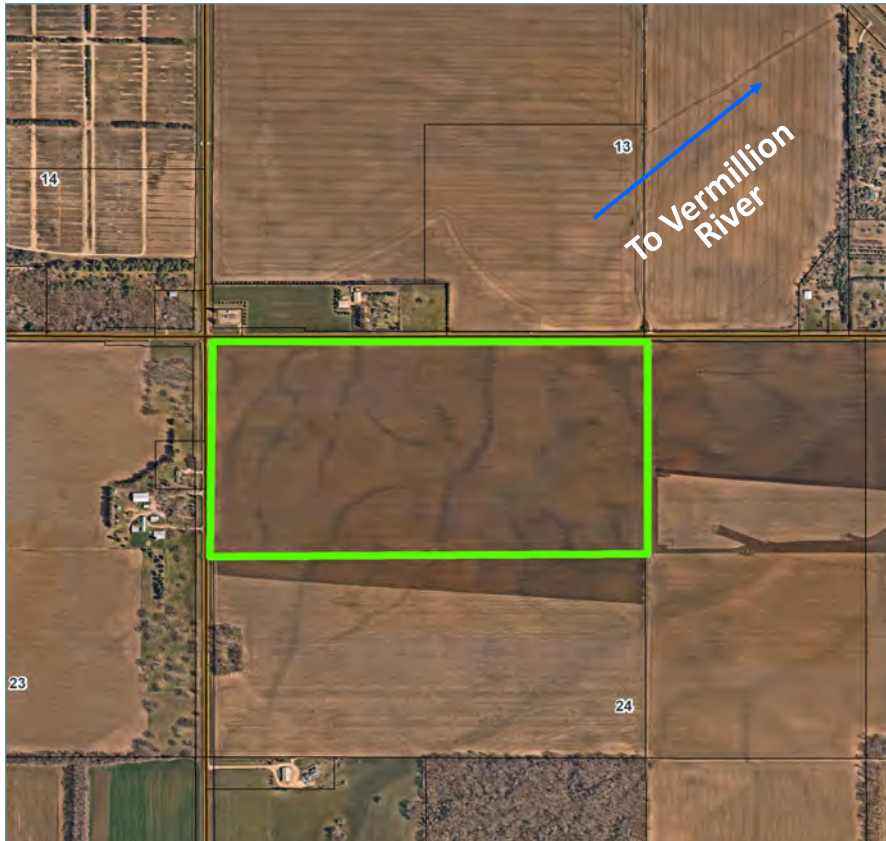


The cover crop had approximately 4 inches of growth several weeks after planting.



PAT MAHER

## SOIL HEALTH PRACTICES



### PRACTICE:

- Cover Crop
- Nitrogen Management

### BENEFITS:

- 3 tons of sediment per year prevented from traveling downstream
- 6 lbs. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and

### PARTNERS:

- Dakota County
- Vermillion River Watershed Joint Powers Organization

### WATERSHED:

- Vermillion River

### RECEIVING WATERS:

- Vermillion River

### INSTALLATION:

- Fall 2024

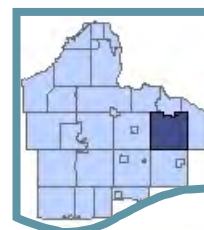
**PROJECT:** An oat and reish cover crop was planted on 78 acres following sweet corn harvest. Additionally, nitrogen best practices were used. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount: \$3,120



### LOCATION:

Marshan  
Township





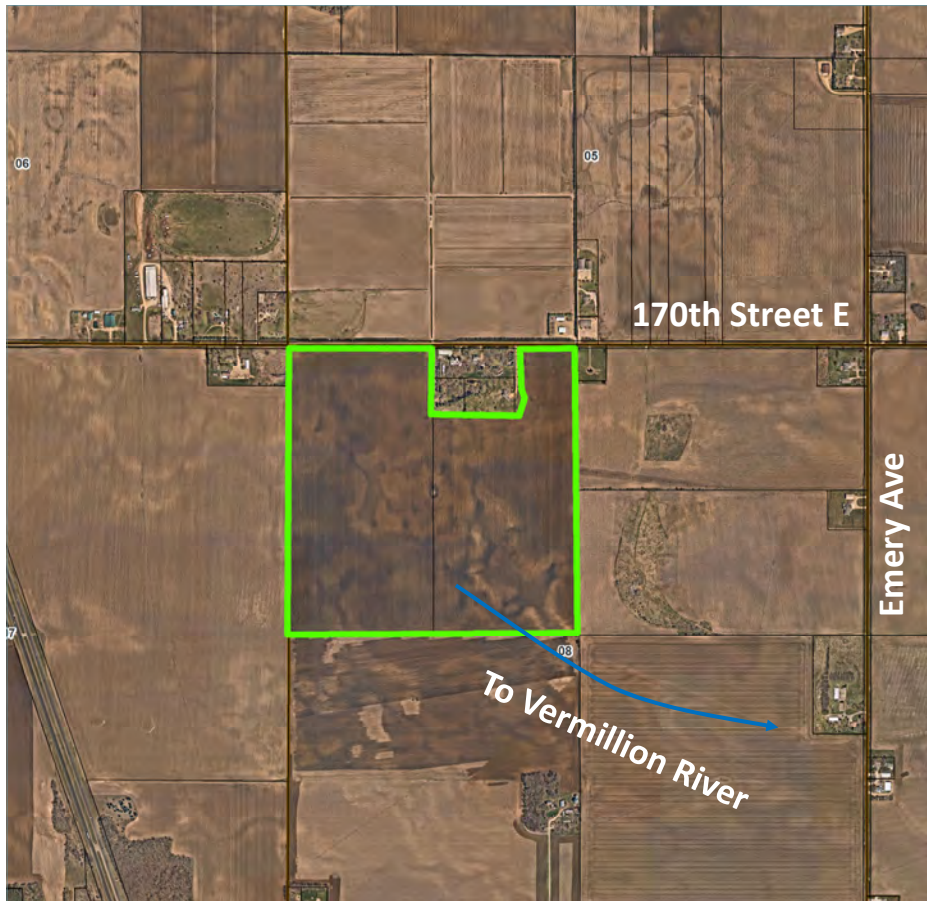


Oats and radish were planted after sweet corn harvest in late August.



The cover crop had approximately 4 inches of growth 2 weeks after planting.

# RANDY VOLKERT COVER CROP

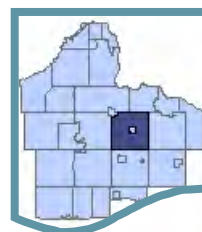


**PROJECT:** A winter cereal rye cover crop was planted on 147 acres following sweetcorn harvest. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount: **\$5,145**  
(147 acres x \$35 per acre x 1 year)



**LOCATION:**  
Vermillion  
Township



## PRACTICE:

- Cover Crop

## BENEFITS:

- 14 tons of sediment per year prevented from traveling downstream
- 25 lbs. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

## PARTNERS:

- Vermillion River Watershed Joint Powers Organization
- Dakota County

## WATERSHED:

- Vermillion River

## RECEIVING WATERS:

- Vermillion River

## INSTALLATION:

- Fall 2024



# RANDY VOLKERT

## COVER CROP



An oat cover crop was planted after sweet corn harvest in late September.



The cover crop had approximately 6 inches of growth several weeks after planting.

# JERRY KIMMES COVER CROP



## PRACTICE:

- Cover Crop

## BENEFITS:

- 1 ton of sediment per year prevented from traveling downstream
- 1 lb. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

## PARTNERS:

- Vermillion River Watershed Joint Powers Organization
- Dakota County

## WATERSHED:

- Vermillion River

## RECEIVING WATERS:

- Vermillion River

## INSTALLATION:

- Fall 2024

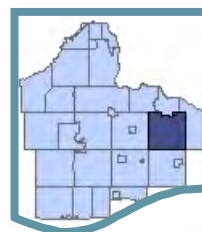
**PROJECT:** An oat and radish cover crop was planted on 103 acres following snapbean harvest. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount: \$3,605



## LOCATION:

Marshan  
Township





# JERRY KIMMES

## COVER CROP



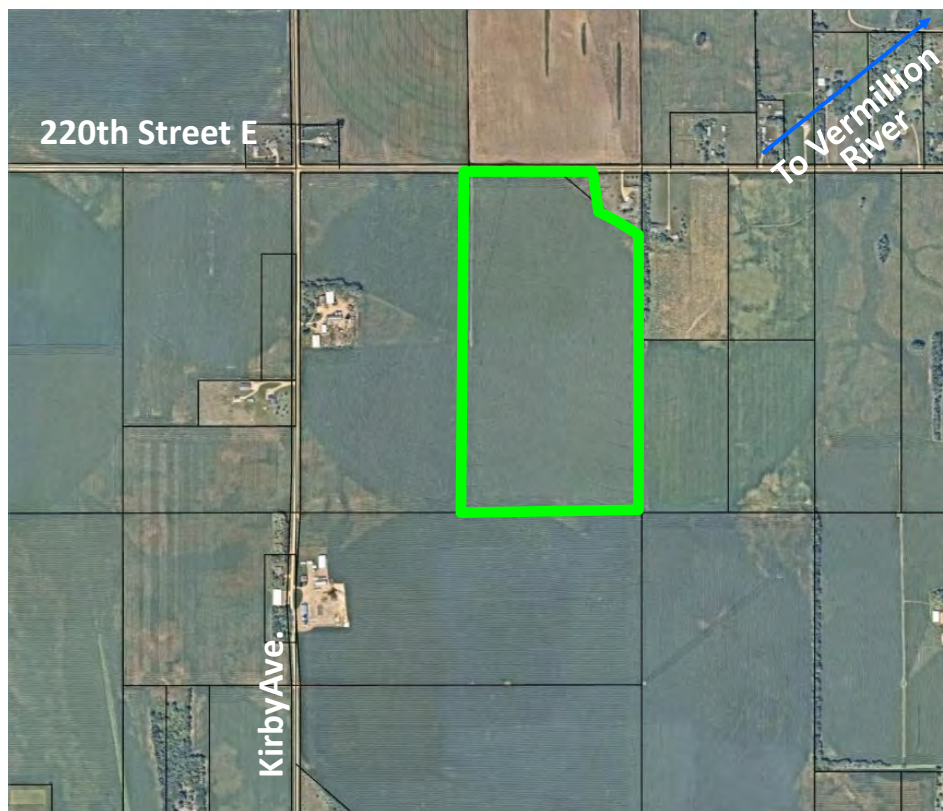
Oats and radish were planted after a pea and snapbean rotation in late August.



The cover crop had approximately 4 inches of growth 4 weeks after planting.

# JERRY AND SHEILA KIMMES

## SOIL HEALTH PRACTICES



### PRACTICE:

- Cover Crop
- Nitrogen Management

### BENEFITS:

- 2 tons of sediment per year prevented from traveling downstream
- 3 lb. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

### PARTNERS:

- Vermillion River Watershed Joint Powers Organization
- Dakota County

### WATERSHED:

- Vermillion River

### RECEIVING WATERS:

- Vermillion River

### INSTALLATION:

- Fall 2024

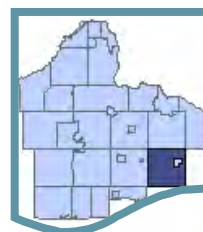
**PROJECT:** An oat and radish cover crop was planted on 75 acres following sweet corn harvest and split application of nitrogen was used. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount: \$3,000



### LOCATION:

Douglas  
Township





# JERRY AND SHEILA KIMMES

## SOIL HEALTH PRACTICES



Oats and radish were planted after sweet corn harvest in late August.

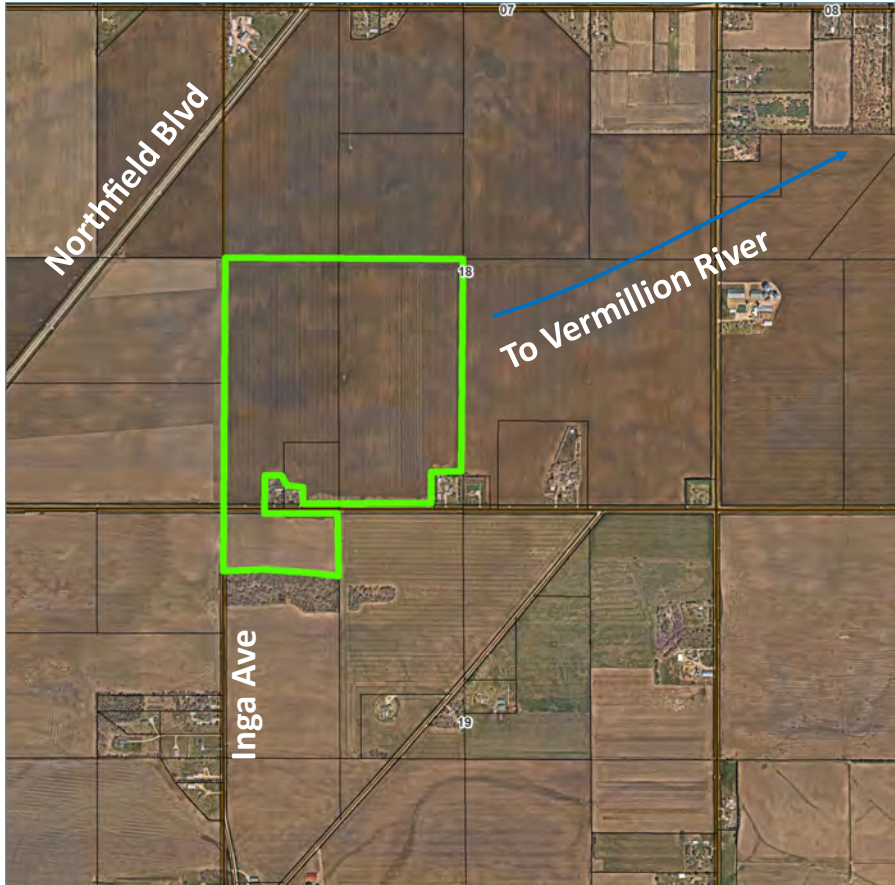
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The cover crop had approximately 4 inches of growth 2 weeks after planting.

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# PRAIRIE FARMS PARTNERSHIP SOIL HEALTH PRACTICES



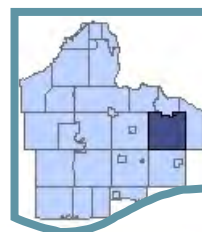
**PROJECT:** A winter cereal rye cover crop was planted following snapbean harvest on 160 acres. Next spring, corn will be planted into the living cover crop. These practices will build soil health and reduce nutrient leaching.

**FUNDING:** Incentive Amount: \$7,200



**LOCATION:**

Marshan  
Township



**PRACTICES:**

- Cover Crops
- Planting Green

**BENEFITS:**

- 8 tons of sediment per year prevented from traveling downstream
- 19 lbs. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

**PARTNERS:**

- Vermillion River Watershed Joint Powers Organization
- Dakota County

**WATERSHED:**

- Vermillion River

**RECEIVING WATERS:**

- Vermillion River

**INSTALLATION:**

- 2024 and 2025



# PRAIRIE FARMS PARTNERSHIP

## SOIL HEALTH PRACTICES



Winter cereal rye was planted after snapbean harvest in late September.

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The cover crop had approximately 4 inches of growth 6 weeks after planting.

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**GREG FOX**

# HARVESTABLE COVER



## PRACTICE:

- Harvestable Cover

## BENEFITS:

- 3 tons of sediment per year prevented from traveling downstream
- 6 lbs. of phosphorous per year prevented from traveling downstream

## PARTNERS:

- Dakota County
- Vermillion River Watershed Joint Powers Organization

## WATERSHED:

- Vermillion River

## RECEIVING WATERS:

- Vermillion River

## INSTALLATION:

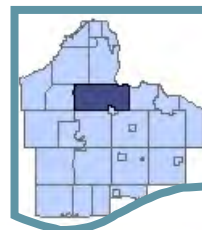
- Fall 2024

**PROJECT:** A harvestable perennial cover of a hay and pasture mix was planted on 20 acres and will remain there for 3 years. The perennial cover will provide over-winter protection of soils, erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:** Incentive Amount **\$2,100**  
(20 acres x \$35 per acre x 3 years)



**LOCATION:**  
Rosemount







A diverse forage mix made up of cool season grasses and legumes was planted following corn harvest in early September.

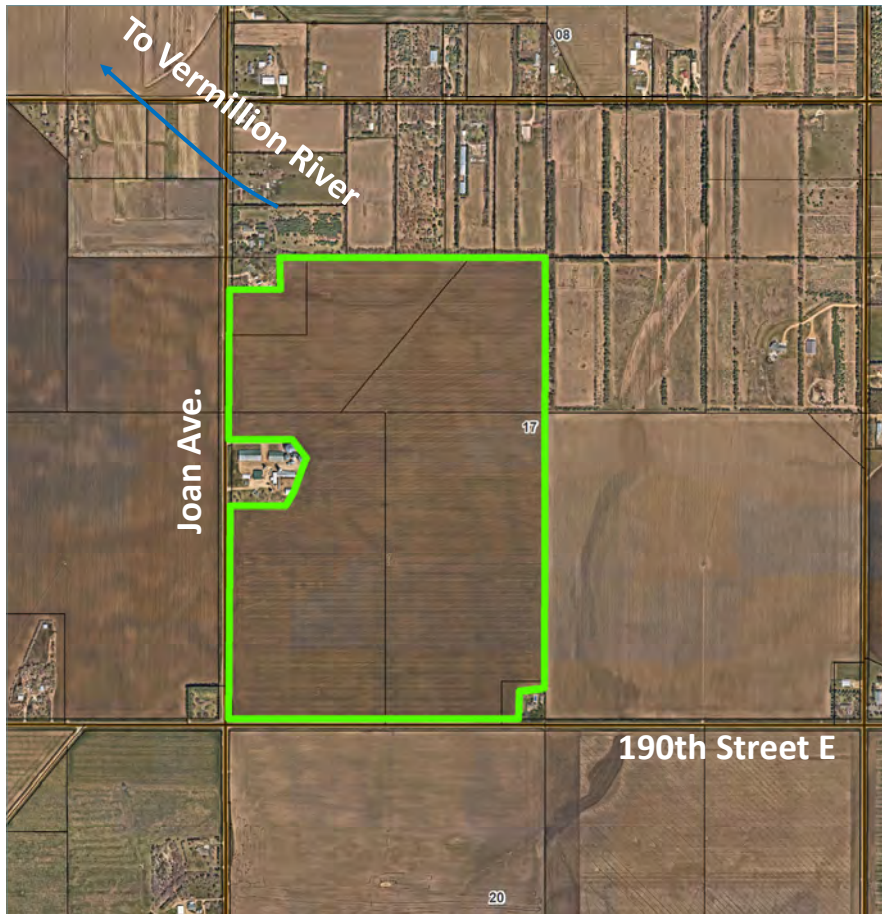
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The forage mix had approximately 4 inches of growth 3 weeks after planting.

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# KEVIN BAUER COVER CROP

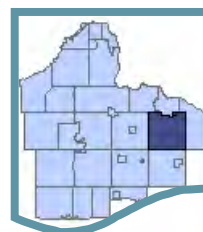


**PROJECT:** A winter cereal rye cover crop was planted on 160 acres following snapbean harvest. The cover crop will provide erosion control, reduce weed pressure, and prevent nutrient leaching.

**FUNDING:**      **Incentive Amount:**      **\$5,600**  
(160 acres x \$35 per acre x 1 year)



**LOCATION:**  
Marshan Township



## PRACTICE:

- Cover Crop

## BENEFITS:

- 7 tons of sediment per year prevented from traveling downstream
- 14 lbs. of phosphorous per year prevented from traveling downstream
- Reduced leaching of nitrate into groundwater on highly vulnerable and sensitive soils
- Retained nutrients and improved soil health.

## PARTNERS:

- Vermillion River Watershed Joint Powers Organization
- Dakota County

## WATERSHED:

- Vermillion River

## RECEIVING WATERS:

- Vermillion River

## INSTALLATION:

- Fall 2024





Winter cereal rye was planted after snap bean harvest in early October.

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The cover crop had approximately 4 inches of growth several weeks after planting.

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