RED RIVER VALLEY Drainage Water Management Project





Wilken County, Minnesota

Status

Installation: 2015-2016 **Data collection**: 2017 – 2022

Contact

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Project Information www.mda.state.mn.us/redrivervalleydwm

Partners List of partners on the reverse.

September 2019



GOAL

Improve agricultural production and reduce flooding losses while minimizing the unwanted environmental impacts of subsurface drainage.

OBJECTIVE

Demonstrate controlled tile drainage as a flood mitigation practice as well as the water quality and quantity benefits. The project is intended to set an example to increase the adoption of drainage water management practices in the Red River Valley.

Field 1 comparison: 155 acres



Water level control structure

This on-farm research site is comparing three field treatments that represent drainage practices used in the local area.

Monitoring



Monitoring results from subsurface drainage as an average for 2017-2018

Crop yield, residual soil nutrients, soluble salts, planting and harvest dates are also recorded.

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

Field 2: 65 acres



Field includes two treatments:

- Two zones of controlled drainage
- One zone with saturated buffer for nitratenitrogen removal from drainage water

Monitoring

- Depth to saturated soil within the root zone
- Crop yield, residual soil nutrient levels, planting and harvest dates

Piezometer

Saturated Buffer



Monitoring results from subsurface drainage as an average for 2017-2018

Thank you to our project partners

