

Quarterly Report for MSR&PC

Project Title: Is soybean production affected by band and broadcast applications of P or K for corn?

Quarter: May – July 2023

Principle Investigator: Jeffrey Vetsch, Daniel Kaiser is a collaborator

Tasks (deliverables) for This Quarter

Apply annual broadcast K treatments (60 or 120 lb K₂O/ac/year) at Rochester site (consistent with past spring application at this site). Perform preplant tillage (field cultivation) and plant soybean in early May. **Completed on May 18-19 at Rochester and on May 24 at Waseca.**

Apply herbicides (pre and post emerge) as needed throughout the growing season. **Completed on May 24, Jun 14 and 27 at Rochester. May 26 and Jun 20 at Waseca.**

In June, collect soil samples (8 cores/plot) from all plots at 0-6 and 6-12 inch depths. Process samples and send to a commercial lab (Univ. of MN RAL) for Bray P1 (P study) or exchangeable K (K study) analyses. **Soil sampling completed on Jun 26 at Rochester and Jun 22 & 28 at Waseca.**

Collect trifoliolate leaf samples at R3, dry at 140° F, grind, and send to a commercial lab (Brookside) analyze for P (P study) or K (K study) concentration in tissue. **Completed on Jul 18 at Rochester and Jul 14 at Waseca.**

Write and submit quarterly report as directed by funding agency. **Preliminary report sent in early August, more details added and submitted invoice on Aug 29**

Detailed Budget by Quarter

All budget categories are less than or near projected spending for the first quarter (See table below). Spending for labor, supplies, lab services and travel were billed during this period.

**Budget summary for: MSR&PC PROJECT FY23 (SPA budget string 3006-11040-00106735)
Is soybean production affected by band and broadcast application of P and K for corn?**

Budgeted and spent funds for each quarter during research year 2023-2024.

Category	Budgeted	Spent	May-Jul '23	Aug-Oct '23	Nov-Jan '24	Feb-Apr '24
Salary	\$ 17,245.00	\$ 2,635.73	\$ 2,635.73			
Fringe	\$ 5,044.00	\$ 743.41	\$ 743.41			
Salary+fringe total	\$ 22,289.00	\$ 3,379.14	\$ 3,379.14	\$ -	\$ -	\$ -
Supplies	\$ 800.00	\$ 193.38	\$ 193.38			
Services, plot fee	\$ 1,100.00	\$ -				
Services, lab	\$ 6,426.00	\$ 176.46	\$ 176.46			
Services & supplies	\$ 8,326.00	\$ 369.84	\$ 369.84	\$ -	\$ -	\$ -
Travel	\$ 1,508.00		\$ 530.59	\$ -		
Total	\$ 32,123.00	\$ 3,748.98	\$ 4,279.57	\$ -	\$ -	\$ -