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Progress Report

2022 South Dakota Nutrient Research and Education Council Invited Proposals

Progress Report Title:	Interim Report - Due July 1, 2022
Applicant Name:	Christopher Graham
Application Title:	Evaluating Selected Soil Health Indices for Predicting Nitrogen Fertilizer Requirement for Winter Wheat in Western South Dakota
Application ID:	1831
Review Deadline:	07/1/2022 11:59 PM

Interim Report - Due July 1, 2022

Project

	Start Date	End Date
Start and End Dates of Funding:	01/1/2022	12/31/2022
Title of Project:	Evaluating Selected Soil Health Indices for Predicting Nitrogen Fertilizer Requirement for Winter Wheat in Western South Dakota	
Project Description:	<p>Efficient nitrogen (N) use provides an opportunity to boost profitability of a farm.</p> <p>Several soil health tests are proven to indicate availability of soil nitrate-N to the crops and can</p> <p>potentially aid to revise N requirement for winter wheat. This study will evaluate if integration of</p> <p>these soil health tests in the standard N recommendation guidelines will economically benefit</p> <p>wheat growers in South Dakota.</p>	

Publications

Publication Title:	NA
Publication Date:	07/1/2022
Status:	NA
Publication Description:	NA

NREC Interim Report

Title: Evaluating Selected Soil Health Indices for Predicting Nitrogen Fertilizer Requirement for Winter Wheat in Western South Dakota

PI: Dr. Christopher Graham

To date, we do not have any results to report. This project intends to examine soil health indices in winter wheat. The timing of the funding cycle did not align with the start of the winter wheat season and hence we needed to wait until the Fall of 2022 when we could properly set up the plots and apply fertilizer. We did try to incorporate one site at the Sturgis Research Farm that had not received fertilizer in the Fall. However, on June 7th, this field (along with all of our winter wheat) was hailed out. The funds that have been expended were toward this site. This project will begin this fall (2022) as expected.