



South Dakota Nutrient Research and Education Council

July 11, 2023

9:00 AM – 4:30 PM

SDSU Raven Precision Agriculture Center 236

1030 N Campus Drive, Brookings, SD 57007

MEMBER	REPRESENTING
RYAN WOLF – CHAIR*	SPECIALTY FERTILIZER INDUSTRY
RYAN SCHUCHHARDT – VICE CHAIR*	FERTILIZER INDUSTRY
COLIN NACHTIGAL - SECRETARY*	GROWER ORGANIZATION
JIM LOKEN - TREASURER*	FERTILIZER INDUSTRY
KEVIN BACHMEIER*	FERTILIZER INDUSTRY
JERRY RUNIA*	GROWER ORGANIZATION
KYLE GUSTAFSON*	CERTIFIED AGRONOMY ASSOCIATION
BRUCE HAINES*	FARMER MEMBER OF THE STATE CONSERVATION COMMISSION
TRAVIS STRASSER*	COMMODITY ORGANIZATION
BRYAN JORGENSEN	ENVIRONMENTAL ORGANIZATION
GEORGE SPERRY	ENVIRONMENTAL ORGANIZATION
RUSS DALY	SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION AT SDSU
TOM GERE	SECRETARY OF THE DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES
PAUL WEGLEITNER	SECRETARY OF THE DEPARTMENT OF AGRICULTURE & NATURAL RESOURCES
* VOTING MEMBER	

INVITED PARTICIPANTS	
KATHY ZANDER	SOUTH DAKOTA AGRIBUSINESS ASSOCIATION – EXECUTIVE DIRECTOR
ANGELA LOFTESNESS	SDSU COLLEGE OF AGRICULTURE, FOOD, AND ENVIRONMENTAL SCIENCES – ASSISTANT TO THE DEAN

9:00 – 9:45 AM	<p>WELCOME & APPROVAL OF AGENDA – RYAN WOLF</p> <p>APPROVAL OF MINUTES – COLIN NACHTIGAL</p> <p>FINANCIAL REPORT – JIM LOKEN AND ANGELA LOFTESNESS</p> <p>APPROVAL OF REQUEST FOR PREPROPOSALS – RYAN WOLF AND ANGELA LOFTESNESS</p> <p>APPROVAL OF REQUEST FOR PROPOSALS – RYAN WOLF AND ANGELA LOFTESNESS</p> <p>REVIEW OF COUNCIL TERMS – RYAN WOLF</p> <p>SECRETARY ELECTION – RYAN WOLF</p> <p>CONSENT PROJECTS FOR DECEMBER AGENDA - RYAN WOLF</p>
9:45 – 10:00 AM	BREAK
10:00 AM – 12:00 PM	PROJECT PRESENTATIONS AND Q&A

10:00 AM	PÉTER KOVÁCS	INVESTIGATING IMPACT OF STARTER FERTILIZER PLACEMENT ON PLANT DEVELOPMENT, GRAIN YIELD, AND NUTRIENT UPTAKE
10:15 AM	PÉTER KOVÁCS	INVESTIGATING FERTILIZER RESPONSE AND REQUIREMENT IN HIGH PROTEIN SOYBEAN VARIETIES
10:30 AM	PÉTER KOVÁCS	INVESTIGATING P AND K FERTILIZER APPLICATION TIMING AND MANAGEMENT STRATEGY ON CROP YIELD AND NUTRIENT UPTAKE – EQUIPMENT ACQUISITION AND RESEARCH INITIATION
10:45 AM	JASON CLARK	FERTILIZER N RATE RECOMMENDATION UPDATE FOR CORN
11:00 AM	JASON CLARK	EVALUATION OF SOIL TEST POTASSIUM AND SIDE DRESS APPLICATION OF POTASSIUM AND BIOCHAR ON CORN NUTRITION AND GRAIN YIELD IN EASTERN SOUTH DAKOTA
11:15 AM	JASON CLARK	INFLUENCE OF INTERSEEDING COVER CROPS ON NITROGEN FERTILIZER RATE REQUIREMENT FOR OPTIMAL CORN GRAIN YIELD IN A NO-TILL SYSTEM
11:30 AM	JASON CLARK	IMPACT OF PHOSPHORUS SOIL TEST LEVEL DIFFERENCES ON CROP RESPONSE IN NO-TILL SOILS IN CENTRAL SOUTH DAKOTA
11:45 AM	JASON CLARK	ACQUISITION OF A COMBINE FOR SOIL FERTILITY RESEARCH TRIALS CROP HARVEST
12:00 PM	LIN WEI/JASON CLARK PRESENTING	APPLICATION OF BIOSOLID-BASED NITROGEN CONTROL RELEASE FERTILIZERS TO IMPROVE NITROGEN USE EFFICIENCY OF CORN PRODUCTION AND SOIL HEALTH IN SOUTH DAKOTA

12:15 – 1:15 PM EXECUTIVE SESSION – LUNCH, PRELIMINARY DISCUSSION

1:15 – 4:30 PM PROJECT PRESENTATIONS AND Q&A

1:15 PM	JOHN McMAINE	IDENTIFYING NUTRIENT LOSS HOT SPOTS IN TILE DRAINAGE
1:30 PM	CODY MORET	ACQUISITION OF NUTRIENT APPLICATOR PACKAGE ON TRACTOR
1:45 PM	CHRISTOPHER GRAHAM	EVALUATING SELECTED SOIL HEALTH INDICES FOR PREDICTING NITROGEN FERTILIZER REQUIREMENT FOR WINTER WHEAT IN WESTERN SOUTH DAKOTA
2:00 PM	SUNISH SEHGAL	BREEDING FOR IMPROVED NITROGEN USE EFFICIENCY (NUE) IN SOUTH DAKOTA WINTER WHEAT UNDER REGENERATIVE AGRICULTURE MANAGEMENT
2:15 PM	DAVID CLAY	THE INFLUENCE OF NITROGEN STABILIZERS AND APPLICATION DATES IN NO-TILLAGE CORN PRODUCTION ON NITROGEN USE EFFICIENCY AND N LOSSES TO THE GROUNDWATER AND THE ATMOSPHERE

2:30 – 2:45 PM BREAK

3:00 – 4:30 PM EXECUTIVE SESSION – REMAINING BUSINESS, WRAP-UP