



320 East Capitol Avenue
Pierre, SD 57501
605/224-2445

2020 AGRONOMY CONFERENCE

The 19th Annual Agronomy Conference is designed for agronomists, crop advisers, farmers, industry partners and anyone interested in learning the latest crop production ideas and technologies in the agriculture industry.

WHEN: December 16-17, 2020
Registration is from 7:30 to 8:00 AM each day and presentations will run every 50 minutes from 8:00 AM to 6:00 PM each day.

COST: Pre-registration is required
\$310 for both days (20 CEUs)
\$210 for one day (10 CEUs)
\$50 LATE FEE after December 10, 2020

HOTEL: Sheraton Sioux Falls
1211 N. West Avenue
Sioux Falls, SD 57014
605/331-0100
\$102 Traditional room under the SD Agronomy Conference Block until November 17, 2020.

CONFERENCE: Convention Center at the Denny Sanford Premier Center
1101 N. West Avenue
Sioux Falls, SD 57104
605/367-4100

INCLUSIVE: Registration fee includes all sessions, breaks and lunch for each day of the conference. Supper on Wednesday evening is not provided.

REFUNDS: There will be no refunds granted unless the conference is completely cancelled due to poor weather conditions.

HANDOUTS: Download and print your own copies of the presentation before the conference at www.sdaba.org or bring your laptop to follow along and take notes.

FOR MORE INFORMATION: Contact the South Dakota Agri-Business Association at 605/224-2445 or info@sdaba.org.

You do not need to be a CCA to attend! Limited Seating - Pre-registration Required!

*Join this in-person event with masks: hand sanitizer and social distancing available.
A few speakers will be presenting virtually.*



Your source for the latest crop management information... crop production, nutrient management, soil health, weed resistance, pest management and many other areas.

**Earn Up to 20 CCA CEU's
in TWO-DAYS!**

Join this in-person event: masks, hand sanitizer and social distancing available.

A few speakers will be presenting virtually.



SOUTH DAKOTA
Agri-Business
ASSOCIATION

December 16-17, 2020

Convention Center at the Denny Sanford Premier Center
Sioux Falls, SD

4 Ways to Register...

2020 Agronomy Conference

- **Online:** www.sdaba.org
- **Phone:** 605/224-2445, have your credit card information ready.
- **Fax:** 605/224-9913, use the form below.
- **Mail:** SDABA, 320 E Capitol Avenue, Pierre, SD 57501, use the form below.

Register by December 10, 2020 to save \$50

Name: _____

Company: _____

Address: _____

City/State/Zip: _____

Phone: _____

Email: _____

- Visa Master Card American Express
 Discover Check Enclosed

Credit Card #: _____

Expiration Date: _____

Security Code: _____

Name on Card: _____

Billing Address: _____

- Wednesday and Thursday \$310.00
 Wednesday ONLY \$210.00
 Thursday ONLY \$210.00
 LATE FEE after December 10, 2020 \$50.00

TOTAL: _____

**Avoid the late fee return this form by
December 10, 2020**

South Dakota Agri-Business Association
320 E Capitol Avenue
Pierre, SD 57501

Phone: 605/224-2445 • Fax: 605/224-9913
Email: info@sdaba.org

WEDNESDAY, DECEMBER 16, 2020

10-CEUs: 2 NM, 1 SW, 2 PM, 5 CM

7:30-8:00 AM REGISTRATION AND CHECK IN

8:00-8:50 AM High Impact Meteorology in Production Agriculture, Eric Snodgrass, Nutrien (1 CM)

The science of weather prediction is rapidly advancing. New computing technologies, high-resolution satellite imagery, and increased weather observations are increasing our ability to manage in-season weather risk. In this talk, we will discuss the dominant weather factors that cause yield variance across the cornbelt. We will first focus on low-frequency, high impact events like hail, wind, and tornado damage before discussing broader threats from flood and drought. We will discuss weather patterns that lead to high yields and also discuss the patterns that impact operations and reduce yield. We will discuss long term changes in the length of the growing season, total precipitation, and precipitation intensity. We will discuss the limits of predictability and learn about pre-season indicators of adverse weather conditions.

8:50-9:40 AM Sprayers and Equipment Crossing Railroad Tracks: Don't Become the Next Victim, Fred Whitford, Purdue (1 CM)

Three hundred million vehicles will cross the more than 200,000 public railroad crossings each day. This means that each day most of us will drive across one or more railroad crossings as we go about our daily business. We cross those road-to-rail intersections with little thought of what takes place as trucks and trains share this piece of ground. The methods discussed in this presentation will allow applicators to protect the environment by preventing contamination of natural resources.

9:40-10:00 AM BREAK

10:00-10:50 AM Keeping Pesticides and Equipment from Being Stolen Off Trailers, Fred Whitford, Purdue (1 CM)

Equipment and supplies such as trailers, pesticides, application equipment, hand tools, mowers, bulldozers, backhoes, skid steers, sprayers, off-road bikes, boats, and 4-wheelers are easily sold on the black market. You might ask yourself why such equipment is so enticing to thieves, but the reason is rather simple, most of these types of stolen items can never be traced back to the original owner. However, you potentially may be held liable if pesticides are stolen from your trailer and misused, leading to human health risk or environmental contamination.

10:50-11:40 AM Filtering Out the Noise: 2021 Crop Market Outlook, Frayne Olson, NDSU (1 CM)

The vast amount of information in today's markets can make it difficult to decide what information is most important when evaluating market trends. This session will help you focus on the key factors that will impact crop prices in 2021.

11:40-12:30 PM LUNCH

12:30-1:20 PM Where do we go from here?: U.S. - China Trade Agreement, Frayne Olson, NDSU (1 CM)

This session will provide an update on the current status of the U.S. - China trade agreement and give an outlook for future trade relations between the two nations.

1:20-2:10 PM What and How Can I Learn from Precision Ag Data? Peter Kovacs, SDSU (1 SW)

More and more equipment is capable of accommodating sensors and precision ag tools that can record or generate on the fly data from our operation. Many producers are using precision ag technologies in their production, and often times producers or even advisors will see a

generated map as a product that they use to make their decision. The presentation will discuss the basic concepts of how those fancy and colorful maps are created and what should we looking for when we try to look at them.

2:10-2:30 PM BREAK

2:30-3:20 PM Update on South Dakota Nitrogen and Potassium Guidelines, Jason Clark, SDSU (1 NM)

Much work has been done to start the work needed to update current corn nitrogen and potassium guidelines in South Dakota. For nitrogen, current projects are evaluating the effects of tillage and cover crops on corn nitrogen requirements. For potassium, current projects are evaluating the use of soil health indicators, soil mineralogy, and soil texture to improve potassium recommendations.

3:20-4:10 PM Update of Current Crop Production Research, Peter Kovacs, SDSU (1 NM)

The presentation will provide update on recent and current research efforts conducted in South Dakota. It will include research results from nutrient and crop management related studies.

4:10-4:20 PM BREAK sponsored by the SD CCA Program

4:20-6:00 PM Soybean Weed Control Systems, Joe Schefers, Bayer, Wyatt Coffman, BASF, Wally West, Syngenta and Steve Snyder, Corteva (2 M)

Topics will include herbicide resistance and effective weed management in soybeans, soybean trait platform positioning, reviewing the principles of season long weed management along with additional relevant topics.

THURSDAY, DECEMBER 17, 2020

10 CCA CEUs: 3 NM, 4 SW, 3 PM, 0 CM

7:30-8:00 AM REGISTRATION AND CHECK IN

8:00-8:50 AM Drainage Design for Crop Production and Environmental Impacts, Matt Helmers, IA State (1 SW)

This presentation will highlight the benefits of drainage on crop production but also include how design can include factors that can aid in reducing downstream nitrate export.

8:50-9:40 AM Old Insect Problems Return and a New Problem Persists, Bruce Potter, UMN (1 PM)

The management of increasing corn rootworm and bean leaf beetle populations will be discussed. The session will also provide a brief update on the soybean gall midge.

9:40-10:00 AM BREAK

10:00-10:50 AM eKonomic Potassium and Phosphorus Nutrient Management, Cristie Preston, Nutrien (1 NM)

Nutrient management for phosphorus and potassium can be complex and farmers need to make the most economical decisions. By understanding interactions within the soil, we can maximize nutrient use efficiency and increase the potential for a producer's return on investment. Proper soil sampling can supply farmers with the information of how much phosphorus and potassium are plant available and determine where soil test levels are in relation to critical values.

10:50-11:40 AM Soybean Disease Management Updates, Dan Mueller, IA State (1 PM)

This presentation will cover research updates on important soybean diseases such as white mold, sudden death syndrome and frogeye leaf spot. Fungicide resistance is also an emerging issue and will be discussed.

11:40-12:30 PM LUNCH

12:30-1:20 PM The Connection Between Soil Health and Soil Water; Dr Anna Cates, UMN (1 SW)

We need soil to both let water in when it rains and hold water when it doesn't rain. To get these two functions, we can use soil health practices to build soil structure. Dr. Cates will cover how soil structure influences water holding capacity and water infiltration, general soil health practices, and discuss preliminary data on how soil health can give you more days in the field.

1:20-2:10 PM Global Shifts Impacting the U.S. Fertilizer Market, Melinda Sposari, TFI (1 NM)

This session will provide a dive into the global fertilizer market. The presentation will feature information surrounding global production and natural resource reserves and insights into the changing dynamics of the global and domestic fertilizer market.

2:10-2:30 PM BREAK

2:30-3:20 PM Saline Soil Update, Kent Vlieger, NRCS (1 SW)

Topics will include the definition of saline and sodic soils, why they occur, what can be done to mitigate their effects and restore production, and how they affect the bottom line.

3:20-4:10 PM Nitrogen Management - Pushing Efficiencies and Yield, Brian Arnall, OK State (1 NM)

Nitrogen is one of the greatest inputs in grain and forage production. And while ensuring that N is never limited reduces the risk of yield loss it is often not the economical or environmental right choice. This talk will go through some of the mechanisms to maximize NUE while optimizing yield.

4:10-4:20 PM BREAK

4:20-5:10 PM Agricultural Drainage Decision Tool: Starting a discussion on the economics, benefits, and desire to tile, Mark Larson, NRCS (1 SW)

This spreadsheet tool is a quick analysis tool to determine if the installation of pattern tile or spot tile will provide general economic profitability (or loss). The tool and tables give the user pre and post-drainage net profitability, an estimation of Years-to-Payback, and a compilation of acres of potential benefit and acres of little to no benefit.

5:10-6:00 PM Nozzles 101: What to know about them and how do they ACTUALLY influence your Pesticide Application? Kyle Gustafson, Winfield United (1 PM)

This presentation will cover a basic overview of nozzles: background information on many popular nozzles, as well as performance data of nozzles with popular crop protection products. Common misconceptions will also be addressed, with information to help participants make better decisions that lead to improved product performance.

