

2021

ALFALFA U™

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Virtual Events

FEBRUARY 16

Session 1

FEBRUARY 18

Session 2

MARCH 4

Session 3

MARCH 11

Tailgate Talk

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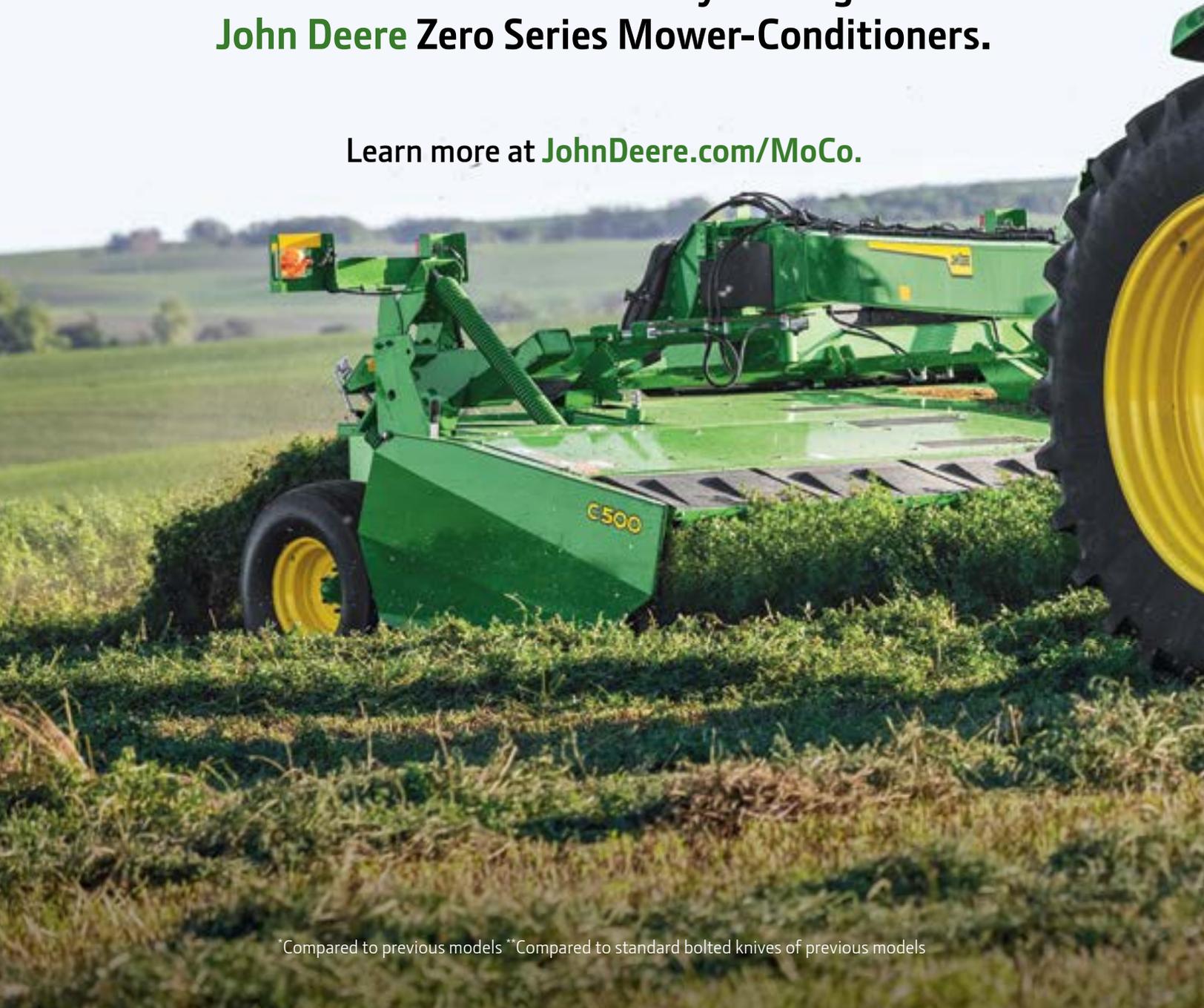
JOHN DEERE

Get More

More acres per hour with the C500.* **More tractor compatibility** with the lighter weight C400. **More time cutting** with new Quick Change Knives.** **More choices** with cutting widths from 8 ft. 2 in. to 16 ft. 4 in. (2.5 m to 5 m). **More confidence** with a 5-year cutterbar warranty.

**Get more with the newly redesigned
John Deere Zero Series Mower-Conditioners.**

Learn more at JohnDeere.com/MoCo.



*Compared to previous models **Compared to standard bolted knives of previous models

Make the Switch!



Learn why so many growers are switching to Alforex™ varieties with Hi-Gest® alfalfa technology.

Hi-Gest®
ALFALFA
TECHNOLOGY

Patents Pending

1 Higher Digestibility

Alforex™ varieties with Hi-Gest® alfalfa technology average **5-8% more leaves** than conventional varieties which can result in the following:

- **5-10% increased rate of fiber digestion***
- **22% reduction in indigestible fiber** at 240 hours (uNDF240)**
- **3-5% more crude protein****

2 More Tonnage

Alforex varieties with Hi-Gest alfalfa technology provide farms flexibility to adjust to aggressive harvest systems to **maximize yield and quality** or to a more relaxed schedule focused on tonnage. Either way, growers put the odds of improved returns per acre and animal performance in their favor.

3 More Milk

While management and feeding practices vary widely, it's common for dairies feeding Alforex varieties with Hi-Gest alfalfa technology to report a positive production response from their cows when alfalfa makes up a higher percentage of the ration. Based on the increased rate of digestion, you could expect **2.5 lbs. more milk per cow, per day.**¹ And while not every producer experiences this level of improvement, some producers report even better results.



Ready to bring higher digestibility, more tonnage and more milk to your farm? Visit us at www.alforexseeds.com or call us at 1-800-824-8585

*The increased rate of fiber digestion, extent of digestion and crude protein data was developed from replicated research and on-farm testing. During the 2015 growing season at West Salem, WI and Woodland, CA, the following commercial dormant, semi-dormant and non-dormant alfalfa varieties were compared head-to-head with Alforex varieties with Hi-Gest alfalfa technology for rate of digestion, extent of digestion and percent crude protein: America's Alfalfa Brand AmeriStand 4277Q; Croplan Brands Legend Dairy XHD and Artesia Sunrise; Fertilzona Brand Fertilac; S&W Seed Brands SW6330, SW7410 and SW110; and W-L Brands WL 319HQ and WL 354HQ. Also, during the 2015 growing season, 32 on-farm Alforex varieties with Hi-Gest alfalfa technology hay and silage samples were submitted to Rock River Laboratory, Inc., for forage analysis. The results for rate of digestion, extent of digestion and percent crude protein were averaged and compared to the 60-day and four-year running averages for alfalfa in the Rock River database which included approximately 1,700 alfalfa hay and 3,800 silage 60-day test results and 23,000 hay and 62,000 silage tests results in the four-year average.

**Crude protein=60-day running averages and uNDF240=four-year running average

¹Combs, D. 2015. Relationship of NDF digestibility to animal performance. Tri-State Dairy Nutrition Conference, 101-112. Retrieved from <https://pdfs.semanticscholar.org/5350/f0a2cb916e74edf5f69cdb73f091e1c8280b.pdf>.



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FEB. 16
SESSION 1

SCHEDULE

9 a.m.-1:25 p.m. Central

(8 a.m.-12:25 p.m. Mountain)

Marisol Berti

North Dakota State University

Addressing soil potassium deficiencies Part 1

Potassium is a key nutrient in alfalfa. Alfalfa extracts 50-60 pounds of K per ton of alfalfa. If yield is 5 tons per acre the K extraction from the soil is 250-300 pounds of potassium per acre.

Apply potassium after the first cut and help your alfalfa reach its potential.

Anowar Islam

Professor, University of Wyoming

Potassium in alfalfa Part 2

For improved productivity, potassium can play an important role in alfalfa production systems. However, sustaining higher alfalfa yields has not been accomplished by potassium fertilization alone. Potassium fertilization based on harvest schedules has potential to increase and sustain alfalfa production.

Joe Brummer

Associate Professor, Colorado State University, Extension Forage Specialist

Strategies for growing alfalfa with less water

Alfalfa is often considered a high water use crop but, in reality, is very drought tolerant. This trait can be exploited in situations where irrigation water is limited. Strategies such as deficit and limited or partial-season irrigation will be discussed in relationship to effects on alfalfa yield, forage quality, and stand persistence/health.

Stephen Koontz

Colorado State University, Agricultural Economist

Alfalfa hay and feed grains market outlook for 2021

Colorado State University Ag Economist Stephen Koontz will present a brief market outlook for alfalfa hay and feed grains for 2021. He'll touch on trends that alfalfa farmers may need to watch in the coming months as they go into haying season and prepare to market their alfalfa hay.

MEET THE SPEAKERS



Marisol Berti

North Dakota State University

Addressing soil potassium deficiencies Part 1



Anowar Islam

Professor, University of Wyoming

Potassium in alfalfa Part 2



Joe Brummer

*Associate Professor, Colorado State University,
Extension Forage Specialist*

Strategies for growing alfalfa with less water



Stephen Koontz

Colorado State University, Agricultural Economist

Alfalfa hay and feed grains market outlook for 2021

FEB. 18
SESSION 2

SCHEDULE

8 a.m.-12:15 p.m. Central

Jeff Whitworth

*Kansas State University, Associate
Professor of Entomology*

Controlling fall army cutworms and alfalfa weevils in your fields

Fall army cutworms and alfalfa weevils can gobble up your profits in your alfalfa and winter wheat fields. Hear from Kansas State University Associate Professor of Entomology Dr. Jeff Whitworth on the latest in control methods to help you battle these pesky pests.

Dan Undersander

*Forage Agronomist Emeritus,
University of Wisconsin*

Protein in alfalfa-capturing the value for dairies

Much of alfalfa protein is rumen degradable, careful management can maximize the bypass protein and lead to more value for your dairy customers.

Mike Brouk

Kansas State University

Effects of pre-cutting round hay bales during baling on forage quality and processing time

We will explore the advantages and disadvantages of pre-cutting alfalfa hay during the baling process on forage quality, storage loss and overall efficiency of forage processing during the feeding process. Pre-cutting during baling was shown to reduce dry matter losses during forage processing prior to feeding.

Casey France

*Agronomy and Account Support,
Ward Laboratories, Inc.*

Why alfalfa may be a solution for marginalized soils

Are your soils poorly drained? Do your crops have difficulty establishing vigor or simply dying off in areas? You might have a salt problem. Alfalfa, a deep-rooted perennial legume that provides its own nitrogen fertilizer through symbiotic nitrogen fixation, is a species that should be dominating discussions. Alfalfa's taproot system can reach a depth of 6 meters on average and therefore it has the capacity to be cultivated in marginal lands. The taproot system of alfalfa also assists in preventing water loss in semiarid to arid lands. Understanding alfalfa's tolerance mechanism is useful to understanding other related plants so we can resolve or reduce damage in a stress response to generate tolerant cultivars.

MEET
THE

SPEAKERS



Jeff Whitworth

*Kansas State University, Associate
Professor of Entomology*

**Controlling fall army cutworms
and alfalfa weevils in your fields**



Dan Undersander

*Forage Agronomist Emeritus,
University of Wisconsin*

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**Effects of pre-cutting round hay bales
during baling on forage quality and
processing time**



Casey France

*Agronomy and Account Support,
Ward Laboratories, Inc.*

**Why alfalfa may be a solution
for marginalized soils**

MARCH 4 SESSION 3 SCHEDULE

10 a.m.-2:15 p.m. Central
(8 a.m.-12:15 p.m. Pacific)

Steve Norberg

Washington State University Extension

Using hay quality samples to fine tune fertility recommendations

Tissue testing of alfalfa for phosphorus can help your fertility program and can be done using your hay quality samples. Learn how much phosphorus is needed for maximizing your economic yield of alfalfa and just how much phosphorus and potassium alfalfa needs to produce.

Ryan Larsen

Associate Professor, Utah State University

Economic returns to steam technology

Alfalfa producers face the daunting task of identifying and analyzing the economic benefit of incorporating new technology into their operation. This presentation will aid in that process by utilizing university gathered research data and partial budgeting techniques to analyze the economics of incorporating steam technology into an operation. We will present the partial budgeting results that will illustrate the net financial impact of utilizing differing steam technologies and compare that to traditional production methods.

Dan Undersander

Forage Agronomist Emeritus, University of Wisconsin

Controlling leaf loss during harvesting

Leaf loss during harvesting reduces yield by 10 to 20% and reduces forage quality and value. Learn strategies for keeping your forage quality in the bale where it will bring you profit.

Steve Norberg

Washington State University Extension

How far can the genetics of alfalfa improve quality

Alfalfa breeders are discovering just how using molecular markers can advance alfalfa quality traits in their breeding programs. By using molecular markers for quality traits, breeding for hay quality can be accelerated. Bringing valuable traits to farmers and their customers faster.

MEET
THE

SPEAKERS



Steve Norberg

Washington State University Extension

Using hay quality samples to fine tune fertility recommendations



Ryan Larsen

Associate Professor, Utah State University

Economic returns to steam technology



Dan Undersander

*Forage Agronomist Emeritus,
University of Wisconsin*

Controlling leaf loss during harvesting



Steve Norberg

Washington State University Extension

How far can the genetics of alfalfa improve quality

MARCH 11 SESSION 4 SCHEDULE

TAILGATE TALK

10 a.m.-Noon Central

(8 a.m.-10:00 a.m. Pacific/9 a.m.-11:00 a.m. Mountain)

Messages from our Sponsors

Alforex

Hear the latest updates in alfalfa varieties and other advancements from Alforex Seeds and how they can boost your yields and quality for real dollars in your pockets.



John Deere

John Deere representatives will share the latest in equipment advancements the company has to offer alfalfa and hay and forage growers. Boost your productivity and efficiency at harvest and ultimately your bottom line.



Farmer Panel

We'll bring to the screens alfalfa farmers from across the High Plains and western U.S. in the popular Farmer Panel. Hear what works in their areas, what they're excited to try, and what challenges they face in raising alfalfa for domestic and export customers of all shapes and sizes.



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JOHN DEERE



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2021-2022 EVENTS



CATTLE U & TRADE SHOW

July 29-30
Dodge City, KS



COTTON U

December 2
Amarillo, TX



HPJ FARMER U & TRADE SHOW

August 18-19
Mulvane, KS



SOIL HEALTH U & TRADE SHOW

January 19-20, 2022
Salina, KS

More information at hpj.com.

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