Extension
UNIVERSITY OF WISCONSIN–MADISON
JUNEAU COUNTY

*Winter 2023*

# EXTENSION CENTRAL NEWS

## In this issue



## CONTACT US


Extension Central News
UW-Madison Division of Extension

• • • ADAMS COUNTY • • •
**Natasha Paris—608-228-8325**
natasha.paris@wisc.edu

• • • CLARK COUNTY • • •
**Richard Halopka—715-743-5121**
richard.halopka@wisc.edu

• • • CLARK & WOOD COUNTIES • • •
**Matt Lippert—715-421-8440**
matthew.lippert@wisc.edu

• • • GREEN LAKE COUNTY • • •
**Natasha Paris—608-228-8325**
natasha.paris@wisc.edu

• • • JUNEAU & SAUK COUNTIES • • •
**Sam Bibby—608-847-9329**
sbibby@wisc.edu

• • • LINCOLN & LANGLADE COUNTIES • • •
**Vacant—715-539-1078**

• • • MARATHON COUNTY • • •
**Heather Schlesser—715-261-1239**
heather.schesser@wisc.edu

• • • MARQUETTE COUNTY • • •
**Natasha Paris—608-228-8325**
natasha.paris@wisc.edu

• • • PORTAGE COUNTY • • •
**Ken Schroeder—715-346-1316**
ken.schroeder@wisc.edu

• • • TAYLOR COUNTY • • •
**Sandy Stuttgen—715-748-3327**
sandra.stuttgen@wisc.edu

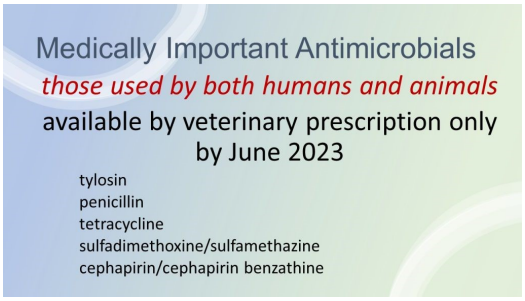
• • • WAUSHARA COUNTY • • •
**Natasha Paris—608-228-8325**
natasha.paris@wisc.edu


# Are you ready? Antibiotics for Livestock will be Prescription Only in 2023


Written by Sandy Stuttgen, DVM
Taylor County


*This article was originally published in the* **Wisconsin Agriculturist**

The FDA's Center for Veterinary Medicine (CVM) plan for supporting veterinary antimicrobial stewardship will be fully implemented in 2023 when all remaining over-the-counter (OTC) antibiotics are switched to prescription-only status. The medically important antibiotics (used by humans and animals) becoming prescription only include injectable tylosin, injectable and intramammary penicillin, injectable and oral tetracycline, sulfadimethoxine and sulfamethazine, and cephapirin and cephapirin benzathine intramammary tubes. In addition, lincomycin and gentamicin swine antibiotics' OTC status is switching to prescription only. Vaccines, dewormers, injectable and oral nutritional supplements, ionophores, pro/prebiotics and topical non-antibiotic treatments will not require veterinary prescription.




The CVM evaluates the safety of drugs used in food-producing animals, the impact drug resides have on human intestinal microflora, and the development of human antimicrobial resistance. Drug residues in meat, milk, eggs, and honey from treated animals expose bacteria to trace amounts that don't kill them, but rather allow for the development of antibiotic resistance. Veterinarians are tasked to slow the rate of bacterial resistance by using antibiotics only when necessary to treat, control, or prevent disease. Doing so preserves antibiotic efficacy for humans and animals.

Under the new rule, producers with current veterinary client-patient relationships (VCPR) may purchase antibiotics directly from their veterinarian or from a distributor with the vet's prescription. Local distributors (for example, farm supply stores) are currently evaluating their ability to manage prescription pharmaceuticals in the future. Wisconsin Administrative Code updates will make it easier for veterinarians (within the context of the VCPR) to utilize telehealth

*Continued on page 2*

technologies and dispense medication prescribed by another veterinarian.

The VCPR is the key that unlocks the medicine cabinet. Wisconsin Statues' Chapter 89 defines the VCPR as the relationship between a licensed veterinarian, a client (who owns the animal), and the patient (the animal) in which all the following apply as the veterinarian:

- Assumes the responsibility for making medical judgments regarding the patient, and the client agrees to accept those medical judgments and to follow the vet's instructions.
- Has sufficient knowledge of the patient to initiate a general or preliminary diagnosis because of a recent exam or medically appropriate and timely visits to the animal's premises.
- Is readily available for any follow-up treatment the patient may need, including adverse reactions to medications used or prescribed by the veterinarian.

Livestock veterinarians are in short supply in some areas of Wisconsin, so it is with urgency that I encourage all producers to develop their veterinary relationship. Engage them today to visit your farm to advise treatment protocols and drug orders so that you are prepared to treat your animals in a timely and effective manner.

**RESOURCES:**

FDA releases draft guidance on bringing remaining over-the-counter medically important antimicrobial drugs used for animals under veterinary oversight. CVM Updates. September 23, 2019. Accessed

**https://public4.pagefreezer.com/browse/FDA/08-02-2022T03:01/https:/www.fda.gov/animal-veterinary/cvm-updates/fda-releases-draft-guidance-bringing-remaining-approved-over-counter-medically-important**

Supporting antimicrobial stewardship in veterinary settings – Goals for fiscal years 2019-2023. FDA Center for Veterinary Medicine. September 2018. Accessed **https://public4.pagefreezer.com/browse/FDA/08-02-2022T03:01/https://www.fda.gov/media/115776/download**

Funk, B. and Fulton, J. New antibiotic restrictions soon to become reality. Drovers. March 4, 2022. Accessed **https://www.drovers.com/news/industry/new-antibiotic-restrictions-soon-become-reality**

Lamb, J. Updated veterinary rules almost final. WVMA Voice. July 2022.

# Plans Coming Together for 2023 Farm Technology Days

Wisconsin Ag Connection - 11/03/2022

For the first time in its six-decade history, Wisconsin's largest outdoor farm show will not be hosted by a local county committee. But coordinators of Wisconsin Farm Technology Days say plans are coming together nicely for the event, which is slated to be held at the Badger Steam and Gas Engine Club grounds between Wisconsin Dells and Baraboo this summer.

General Manager Arnie Jennerman says exhibitor sign-up is ahead of pace compared to other years, with over 150 vendors and organizations already committed to the exposition.

"The plan is really far along to have a fun, interesting, educational, and diverse show that highlights the wide range of agriculture and industry in Sauk County," Jennerman said. "There will be something for everyone, and we're excited to showcase Sauk County industry and agriculture as well as the latest in ag technology."

Among the highlights will be six tours of different local farms and companies, as well as a wide variety of things to eat from area food trucks that will be on the grounds to offer their specialties. Some of the other traditional features will be back next year, such as Innovation Square, Ag Youth Adventure Area, and a full equine exhibit.

Meanwhile, there will still be a need for volunteers to make the show happen. As in the past, non-profit organizations can earn money for their causes by volunteering with a group before and during the show to take care of parking, admissions and serving food and beverages.

The dates for this year's Wisconsin Farm Technology Days will be July 18-20.

## UW-Madison's Division of Extension and the Wisconsin Beef Council

*are hosting an in-person*

## Beef Quality Assurance (BQA) Certification

**February 11, 2023 ~ Comfort Inn, DeForest, WI ~ Program begins at 2:30 pm**

This session is being held in conjunction with the Wisconsin Cattlemen's Association Winter Conference. BQA certification is valid for three years.
It is recommended that farmers register before the meeting date to ensure that adequate materials are available for all participants. The individual attending the meeting will hold the BQA certification; family members and employees are covered by that certification when it is filed with the market(s) and cattle are all under the same management. It is each individuals' responsibility to share certification details with markets.
To register, visit https://tinyurl.com/2hr5karf or call Wisconsin Beef Council office at 1-800-728-2333

# Badger Dairy Insight Winter 2023

Badger Dairy Insight is the webinar series offered by the UW-Madison Extension Dairy Team. Webinars will run 1:00-2:30 PM on Tuesdays. Topics and dates offered this winter include:

**January 24—**Factors Impacting Fertility from Genomics to Aspirin; Lyssa Seefeldt and Francisco Peñagaricano
**January 31—**Tools for Your Toolkit to Keep Animals Healthy; Neslihan Akdeniz Onuki, Victor Cabrera, and Tadeu da Silva
**February 7—**Milk Quality and Production: Opportunities and Threats; Laura Hernandez and Don Sockett
**February 21—**Corn Silage Strong Suits and Compliments; Luiz Ferraretto and Mary Beth Hall

Register here: go.wisc.edu/FarmReadyResearch

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# VITAL: Valuably Informed Thriving Agricultural Leader

## This dynamic program designed for women in agriculture will feature various ways to diversify the farm

- We will hear from area women business owners, Michelle Popp and Martine Bredl-Lueck, about how they have diversified their businesses.
- Steph Plaster with the University of Wisconsin Division of Extension will present: "Strategic Thinking for the Farm Business: Business Development and Analysis Tool"
- Sarah Lloyd and Brooke Bembeneck of Grassland 2.0 will speak about Diversification Opportunities in Grass-based Production Systems and Markets
- Leonard Polzin with the University of Wisconsin Division of Extension will present: "Why milk components are changing"

***Don't miss out on this wonderful opportunity to learn about diversification options and an opportunity to socialize and network with friends***

February 14, 2023, 9:30 am registration with a 10 am start—3 pm
George W. Mead Wildlife Area: 201517 County Hwy S, Milladore, WI 54454

**Cost: $25 includes lunch and snacks**
**If interested in attending this event, please contact the Clark County Extension office at 715-743-5121**

NPM

College of Agricultural & Life Sciences
UNIVERSITY OF WISCONSIN-MADISON

# 2023 Virtual Nutrient Management Training for Farmers

The Nutrient and Pest Management Program (University of Wisconsin-Madison) is offering a virtual training for farmers interested in writing their own nutrient management plans. This training provides both the basics of nutrient management and an introduction to SnapPlus. The same training will be offered on 5 different dates:

☐ January 9 (Monday) ☐ February 7 (Tuesday)
☐ February 28 (Tuesday) ☐ March 7 (Tuesday) ☐ March 28 (Tuesday)

Please register online at least three days in advance of the training date you plan to attend:
https://go.wisc.edu/18h85d

| MORNING AGENDA | |
|---|---|
| 10:00-10:15 | Why nutrient management? |
| 10:15-10:30 | Soil sampling |
| 10:30-10:45 | Soil test interpretation |
| 10:45-11:00 | Soil pH and liming |
| 11:00-11:15 | 15 minute break |
| 11:15-11:55 | Nitrogen management |
| 11:55-12:40 | Lunch break |
| **AFTERNOON AGENDA** | |
| 12:40-1:10 | Phosphorus management |
| 1:10-1:25 | Soil test P & water quality implications |
| 1:25-1:40 | Potassium management |
| 1:40-2:00 | Manure application precautions |
| 2:30-2:45 | Soil conservation |
| 2:45-3:15 | SnapPlus introduction |

**Questions?**
Dan Smith
dhsmith@wisc.edu
608-219-5170

# Need help with nutrient management this season?

**To assist your efforts,** the NPM Program and DATCP will have a team member on-call daily during the planning season.

**For each week,** they will have SnapPlus open, ready to answer your soil test, manure, fertilizer, and general SnapPlus and nutrient management questions.

This service complements the SnapPlus team's support for suspected software errors:
support@snapplus.wisc.edu

If you have questions specific to the NM 590 Standard or ATCP 50, contact Cody Calkins:
608-640-7911
cody.calkins@wisconsin.gov

NPM

**You can always reach out to your regional NPM team member for assistance!**

| | |
|---|---|
| **Northcentral**<br>608-381-6701 | Dan Marzu,<br>dan.marzu@wisc.edu |
| **Northeast**<br>608-807-8530 | Jamie Patton<br>jjpatton2@wisc.edu |
| **Southcentral**<br>608-575-4746 | Kevin Shelley<br>kshelley@wisc.edu |
| **Southwest**<br>608-219-5170 | Dan Smith<br>dhsmith@wisc.edu |

| | | |
|---|---|---|
| **OCTOBER 2022** | | |
| 31st | Dan Smith | 608-219-5170 |
| **NOVEMBER 2022** | | |
| 7th | Andrea Topper | 608-405-0235 |
| 14th | Dan Marzu | 608-381-6702 |
| 21st | Dan Smith | 608-219-5170 |
| 28th | Jamie Patton | 608-807-8530 |
| **DECEMBER 2022** | | |
| 5th | Andrea Topper | 608-405-0235 |
| 12th | Kevin Shelley | 608-575-4746 |
| 19th | Dan Smith | 608-219-5170 |
| 26th | holiday week/ no support | |
| **JANUARY 2023** | | |
| 2nd | Dan Smith | 608-219-5170 |
| 9th | Jamie Patton | 608-807-8530 |
| 16th | Dan Marzu | 608-381-6702 |
| 23rd | Andrea Topper | 608-405-0235 |
| 30th | Kevin Shelley | 608-575-4746 |
| **FEBRUARY 2023** | | |
| 6th | Dan Smith | 608-219-5170 |
| 13th | Andrea Topper | 608-405-0235 |
| 20th | Dan Marzu | 608-381-6702 |
| 27th | Jamie Patton | 608-807-8530 |
| **MARCH 2023** | | |
| 6th | Andrea Topper | 608-405-0235 |
| 13th | Dan Marzu | 608-381-6702 |
| 20th | Dan Smith | 608-219-5170 |
| 27th | | |

# Benefits of a Nutrient Management Plan

*A Nutrient Management Plan (NMP) is a living document outlining the planned use of nutrient sources — manure, legumes, organic wastes and commercial fertilizers — to supply plant essential nutrients on crop fields and pastures. NMPs are also used to evaluate the impact of field operations, including crop rotations and tillage practices, on potential soil erosion and surface water quality.*

***Writing and following an NMP often increases a farm's profitability through improved nutrient management and cropping system practices.***

Most farms and agronomists use the free **SnapPlus** software program* to write NMPs.

Download at:

snapplus.wisc.edu

*University of Wisconsin-Madison Soil Science Department

SnapPlus

A 2012 study of over 250 Wisconsin farms with NMPs found:

- ✓ 69% of farms saved money with an NMP, with an average savings of approximately $18/acre
- ✓ 65% of farms decreased nitrogen applications by an average of 54 lbs N/acre
- ✓ 51% of farms decreased phosphorus applications by an average 32 lbs $P_2O_5$/acre

With these nutrient reductions:

- ✓ 74% of farms cited no change in corn yield
- ✓ 18% of farms cited increased corn yield

Genskow, K.D. (2012). *Taking stock of voluntary nutrient management: Measuring and tracking change.* Journal of Soil and Water Conservation, 67(1): 51-58

## IMPROVED NUTRIENT MANAGEMENT

Writing an NMP in SnapPlus allows farms to target applications of nutrients based on crop production goals.

**SnapPlus nutrient management planning software automatically:**

- ✓ **Calculates crop nutrient** need based upon University of Wisconsin recommendations, crop yield goals, soil test levels, crop rotation and previous nutrient use.
- ✓ **Accounts for nutrient availability from manure applications** based upon laboratory manure test results or University book values, as well as 1st, 2nd and 3rd year legume and manure nutrient credits, where appropriate.
- ✓ **Produces nutrient spreading maps** and identifies restricted and prohibited areas for nutrient applications according to state and local regulations.

*By knowing which fields require nutrients and at what rates, farms can optimize their use of both on-farm nutrient sources and commerical fertilizers, potentially resulting in increased crop productivity and/or decreased farm input expenses.*

**All Wisconsin farms — regardless if they have livestock or not — should write and follow an NMP.**

# New Sheep Operation Enterprise Budget Tool available for Farmers

Written by Carolyn Ihde
Submitted by Sandy Stuttgen, DVM
Taylor County

How often have you looked at a lamb crop and thought, "Do I sell them or feed them out?" Perhaps, you wonder, "What is my breakeven for this year's production?" Or "Is expanding the flock a good business decision?" As a sheep producer, I have asked myself the same questions. UW-Madison Extension's Sheep Operation Enterprise Budget can help farmers answer these questions. This interactive Excel spreadsheet estimates the cost of production using your farm's historical and current data. Utilizing records and an enterprise budget can assist in answering these questions and making informed decisions.

## A useful budget, close-out, and profit measurement tool

A budget is a forward look into an enterprise's economic outlook while a close-out looks back. The spreadsheet can calculate a close-out for a production cycle to determine the actual cost of production. Budgets and close-outs can be made for the ewe flock, finishing lambs in a dry lot or on grass. Download a copy of the Sheep Operation Enterprise Budget to determine the past year's production costs and profitability, and develop budgets for evaluating next year's profitability. Accurate closeouts and projections can help identify the sheep enterprises' strengths and areas for improvement.

Analyzing the spreadsheet can show where changes can be made within the operation to increase profitability. Measuring and recording expenses, market values, and income over many years can help understand patterns and determine the enterprises' "normal" cost of production. A budget created using the farms' historical data and estimated input cost and market values will be more in tune with your operation and the impact of changes more predictable.

## Separate ewe flock and lamb finishing operations in the spreadsheet tool

When evaluating the sheep operation, it is important to recognize the ewe flock and the lamb finishing operations as separate enterprises. The ewe flock should not be held accountable for the costs the lambs incur after being weaned and fed out. Upon weaning or shortly after, lambs are either sold as feeders or retained and fed out in a dry lot or pasture-based finishing system. At this point, the lambs should be considered their own enterprise on the farm. Think of it this way; the ewes are responsible for covering their yearly maintenance costs and the cost incurred for a lamb until weaning; her "income" is generated by selling her lamb(s). For record-keeping, her lambs are sold off at the market or *to* the on-farm lamb finishing operation at opportunity cost (the price they could be sold for at the time of transfer). The lamb is then responsible for generating revenue over the cost of feeding and care from weaning to finishing.

Every sheep operation has its own unique parameters in which it operates. The budget tool was created to recognize the diverse nature of sheep production in Wisconsin. The tool is customizable, with several options for tailoring the data to capture the unique aspects of the enterprise. In the ewe enterprise, income sources include the sale of feeder lambs, wool, breeding stock, and cull animals. Expenses include feed (including home-grown feed) and vitamins, minerals and supplements, bedding, replacement animals, veterinary supplies, and services. Inputs generated on-farm should be priced at fair market value. The budget tool helps users prorate overhead costs incurred by the sheep enterprises.

## Breakeven and sensitivity analysis inform sound business decisions

The Breakeven and Sensitivity analysis sections show changes in profit or loss based on input costs. The sensitivity analysis shows changes in profit or loss based on potential changes in the sale price and feed costs. The breakeven calculator demonstrates how decisions can change the breakeven on paper when a producer makes changes to inputs or to possible income before making those changes on-farm. Feed costs are typically the highest cost of livestock enterprises and have the biggest potential to influence profitability, and being able to see those changes can help make sound business decisions.

In times when the profit margins are tight, it's easy to say, "We need to make some changes." However, without knowing how and where money is coming into and going out of the enterprise, cuts may be detrimental instead of beneficial. Using the Sheep Operation Enterprise Budget will let you analyze the sheep enterprise and assist in making decisions to reduce risk and hopefully, increase profitability.

## Wisconsin Corn Soy Expo

WHEN
February 2-3, 2023

WHERE
Kalahari Conference Center, Wisconsin Dells

The Wisconsin Corn•Soy Expo is Wisconsin's premier grower event where the Wisconsin Soybean Programs, Wisconsin Corn Programs, and the Wisconsin Pork Association bring together over 1,200 corn and soybean growers and pork producers. It is held each year in January or February at the Kalahari Resort in Wisconsin Dells. The trade show hosts over 120 companies in 155 booths. A two-day educational program is filled with informative sessions led by University and industry specialists. For more information go to: https://cornsoyexpo.org.

# There's an App for that—or There will be! It's the 21st Century, it's Time to Use Technology to Make the Most of Our Fields

Natasha Paris
Regional Crops Educator
Green Lake, Marquette, Adams & Waushara Counties—UW-Madison Division of Extension

Knowing what works on your farm is priceless. Most farmers, however, only get 30-40 tries per field over their lifetime to figure out the most profitable methods. With the millions of combinations of seed, soil, weather, and management practices, getting it right is a science. In fact, that's called data science, a new and exciting field with the potential to help you become more profitable.

Our goal is to develop a new online cropping system optimization decision tool that combines the factors of soil, seed, weather, planting date, seeding rate, chemical inputs, and soybean prices that will help you make decisions to make you more profitable.

Here's an example of why. If we just look at planting date, we can see a large difference of almost 9 bu/ac on average based on when you plant (Figure 1 left). However, averages can be deceiving, and we all know that there's a lot more to profitable soybeans than just planting early. In reality, we are just as likely to end up losing 25 bu/ac in yield due to all the different combinations in factors as we are to gain that 9 bu/ac (Figure 1 right).

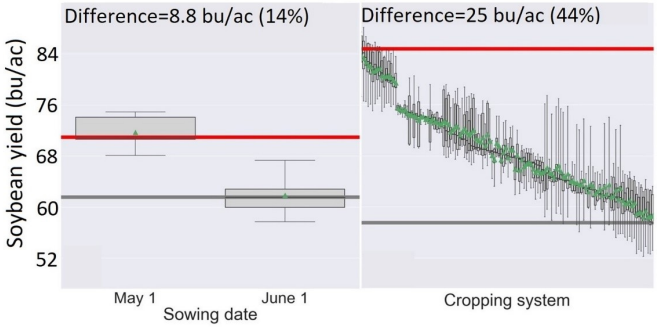



Figure 1. Soybean yield difference between May 1 versus June 1 planting date and yield variability in each of the 128 cropping systems (64 systems with May 1 and 64 systems with June 1 planting dates across 5 years = 640 year-specific yields.).

Our team is looking to harness the power of data to help you navigate those millions of possibilities. Through creating large datasets that take as much information as you are willing to give us, data scientists can create algorithms that will then tell you what is most likely to work in a given scenario. We aren't looking for anyone's secrets, we just want to harness the power of big data to increase profit for soybean farmers across the country.

Our group is entering our 8th year of using farmer data and soybean checkoff dollars (NCSRP funded) to do this. We first began with the Benchmarking Soybean Production Systems in the North Central US project, where we collected data from over 8,000 farm fields and more than 600,000 acres of soybean production across the North Central Region. This allowed us to create the beginnings of a model that could predict soybean yield and profit based on management. Next, we tested that model through our Boots on the Ground: Validation of benchmarking process through an integrated on-farm partnership project from 2019 to 2021. We documented that the improved management practices based on our model increased both yield and profit.

Now we are fine-tuning the model based on specific field conditions. We are taking weather data, satellite imagery, and yield monitor data, and combining it all with information about seed, soil, and management to help you know what will work specifically for you. This is what we call the "Data Driven Knowledge Project."

**Why do we need your help?**

The more data we have from a large variety of scenarios, the more accurate the model we can create. We need to know what happens in the real world, not just in plots on a research farm, to help account for all the variables. This is what we're asking from you:

- Provide field management, pricing, and yield data from two or more of your farm fields via an online survey.
- Share the survey with a friend or on social media. Our goal is over 1000 fields, so the more the merrier!

That's it. We'll add soil, weather, and satellite image data to your survey answers and crunch the numbers to improve the precision of our recommendations.

Our program is 100% completely confidential and protected. In this project alone we have an 8 year track record of security for farmer data.

**What's in it for you?**

You get early access to the app! Once you upload your data from a minimum of two fields, you will receive a coupon to access Agroptimizer®, the management optimization tool in development. This web-based application will allow you to drop a pin in a field and enter what you think you're likely to do and compare it to what the data says is optimal. We encourage you to test it out by splitting a field to compare your current practices with the recommendation and see the results!

**Is your data safe and secure?**

Your data is protected and encrypted behind a university firewall. Access is limited to our team, similar to our efforts in previous projects. You can trust that our team's experience over the past 8 years provides evidence of our commitment to data security and integrity!

*"Our farm has been involved with this project for the past 8 years. Anywhere from supplying data, to running field validation trials on our farm, to making whole farm changes based on what we learned. I am excited about the new precision aspect and what this means for our farm in the future." - Suzanne Shirbroun IA soybean farmer.*

To get started, contact your Regional Crops Educator or visit https://coolbean.info/soybean-research/data-driven-knowledge/ For any questions regarding the project, data security or data use please contact Dr. Shawn P. Conley at spconley@wisc.edu.

# ATTENTION PRIVATE APPLICATIORS

## Do you know your Private Applicator Certification expiration date?

County Extension Offices will no longer be sending you a letter alerting you of when your certification expires. Please be aware that you are going to have to be responsible for knowing this.

## When is my Expiration Date?

Please check your card to identify when your certification expires. If you cannot see the date, go to the Department of Agriculture, Trade and Consumer Protection's website and look yourself up. If you are not there, then your certification has expired.
**http://www.kellysolutions.com/WI/Applicators/index.asp**

## Where do I take the test?

Not all County Extension Offices are giving the Test. To find one that is go to this website:
**https://fyi.extension.wisc.edu/pat/county-testing-sites/**
If you are unable to check online yourself, please contact the UW PAT Program (patprogram@mailplus.wisc.edu - 608-262-7588) or your local County Extension Office to help.

## What about training?

There will be training with tests provided in select counties in 2023.
There is also online training available this year. To find training near you:
**https://fyi.extension.wisc.edu/pat/events/**

**For further information, either contact the UW PAT Program or your local County Extension Office for assistance.**

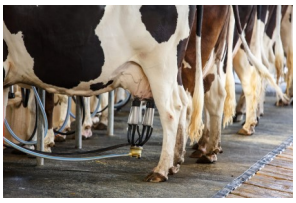
Extension
UNIVERSITY OF WISCONSIN-MADISON

## *Attention Dairymen and women!*

Join us at the Kow Kickin Café in Greenwood
February 16 at 9:30 am *(or when you can)*
for a discussion with
Leonard Polzin, Extension Dairy Marketing Specialist.
There will be a discussion on Dairy Market Outlook and an open agenda about milk pricing.

***Registration is not required for this event but preferred for an accurate head count.***

Coffee will be provided.



**Call the Clark County Extension office at 715-743-5121, if you are interested in attending**

## Hybrid Artificial Insemination Certification Program

The UW-Madison Division of Extension spring AI hybrid course will be held with both online and in person sessions. Attending all sessions is required to complete this course.

Evening classroom sessions occur via ZOOM on April 18 and 19 from 7 - 9 pm.

In-person sessions occur on April 27 from 4 - 6:30 pm and on April 28 from 9 am - noon at a Dorchester area farm. If needed, attendees are responsible for their overnight accommodations in the Dorchester area *(not included in the registration fee for this program.)*

Fee: $95.00 per person.
Register online at https://go.wisc.edu/ai

Extension
UNIVERSITY OF WISCONSIN-MADISON
JUNEAU COUNTY

**Juneau County**
**220 E. State Street, Room 104**
**Mauston, WI 53948**

**Please contact your local Extension Office for the following:**

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**EXTENSION CENTRAL NEWS**

A cooperative effort of multiple Central Wisconsin Counties and Wisconsin Extension.

Extension
UNIVERSITY OF WISCONSIN-MADISON

**Our Mission**

*To be the primary source of research based agricultural information and education for the agricultural community in Central Wisconsin.*