



North Country Ag Advisor

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North Country Regional Ag Team

CCE North Country Regional Ag Team

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North Country Ag Advisor

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"The North Country Regional Ag Team is a Cornell Cooperative Extension partnership between Cornell University and the CCE Associations in Jefferson, Lewis, St. Lawrence, Franklin, Clinton, and Essex counties."

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Website: <http://ncrat.cce.cornell.edu/>

Facebook: <https://www.facebook.com/NorthCountryRegionalAgTeam/>

Blog: <https://blogs.cornell.edu/northcountryregionalagteam>

YouTube: <https://www.youtube.com/channel/UCxb3fv12XdCA3GjuDsfgM3Q>

Our Mission

"The North Country Regional Ag Team aims to improve the productivity and viability of agricultural industries, people and communities in Jefferson, Lewis, St. Lawrence, Franklin, Clinton, and Essex Counties by promoting productive, safe, economically, and environmentally sustainable management practices, and by providing assistance to industry, government, and other agencies in evaluating the impact of public policies affecting the industry."

Field Crops and Soils

Field Crop Weed Identification and Control Series 2022

Cornell Cooperative Extension, Cornell AgriTech, and the School of Integrative Plant Science have organized a series of 6 webinars on weed identification and control to be offered on Wednesdays in 2022. They will occur from February 2nd to March 16th (except February 9th) from 12:00pm-1:00pm via Zoom.

Attendees will have the opportunity to earn 1 NYS DEC recertification credit per meeting, and Certified Crop Advisers (CCAs) may also earn 1 Pest Management credit.

Attendees may join any/all of the webinars; there is no requirement to attend the full series. The series is free and open to all.

Schedule of virtual meetings:

- February 2, 2022: Broadleaf Weed identification for crop production - *Bryan Brown, NYSIPM*
- February 16, 2022: Grass Weed identification for crop production - *Caroline Marschner, Ext. Assoc. Weed Ecology, Cornell*
- February 23, 2022: Weed management in corn - *Jeff Miller, Resource Educator, CCE Oneida County*
- March 2, 2022: Weed management in Soybeans - *Mike Hunter, Regional field crop specialist, CCE North Country Regional Ag Team*
- March 9, 2022: Weed management in hay and pasture - *Janice Degni, Team Leader and field crop specialist, CCE SCNY Regional Team*
- March 16, 2022: Alternative weed control and weed seed management - *Lynn Sosnoskie, Asst. Prof. of weed ecology and specialty crop systems, School of Integrative Plant Science, Cornell*

For additional information or to register for one or more of these online webinars visit:

<https://cals.cornell.edu/field-crop-weed-identification-and-control-series-2022>



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Cornell Cooperative Extension North Country Regional Ag Team



Crop Congress

26th Annual North Country Crop Congress Agenda:

The 26th Annual North Country Crop Congress will be February 4th and the 11th, 2022 and begin promptly at 10:00 a.m. and end at 12:15 p.m. Agricultural experts will discuss the latest crop production technologies and agronomic research that will affect many farms in the region. This event will be hosted online as a live event via ZOOM.

Day One: February 4, 2022

- | | |
|---------------|---|
| 10:00- 10:45 | TAR SPOT: THE NEW CORN DISEASE TO WATCH
Gary Bergstrom, Cornell University |
| 10:45 - 11:15 | CORN INSECT MANAGEMENT UPDATES
Elson Shields, Cornell University |
| 11:15- 11:30 | SCHEDULED BREAK |
| 11:30- 12:15 | PREPARING FOR HERBICIDE SHORTAGES IN 2022
Mike Hunter, Cornell Cooperative Extension, NCRAT |
| 12:15 | ADJOURN |

Day Two: February 11, 2022

- | | |
|---------------|--|
| 10:00 - 10:20 | Allen Wilder, WH Miner Institute – Western Bean
Cutworm Implications for Silage |
| 10:20 - 11:05 | Quirine Ketterings & Kirsten Workman, Cornell
University - Getting the Best Bang for Your
Fertilizer Buck |
| 11:05 - 11:20 | Break |
| 11:20 - 12:05 | Joe Lawrence, Cornell Pro-Dairy - Key
Considerations: Feeding 2021 Corn Silage and
Planning for 2022 |
| 12:05 - 12:25 | Kitty O'Neil, CCE North Country Regional Ag Team
Brief update on Carbon and GHG Farming
Initiatives in NYS |

CCA Credits available each day.

****2.0 NYS DEC pesticide credits (categories 21, 1A, 10) CCA continuing education credits pending approval, ONLY for DAY ONE** To receive pesticide credits, you must log on to the virtual meeting on time and sign out at the conclusion of the program to confirm attendance. The attendance will be monitored throughout the program.**

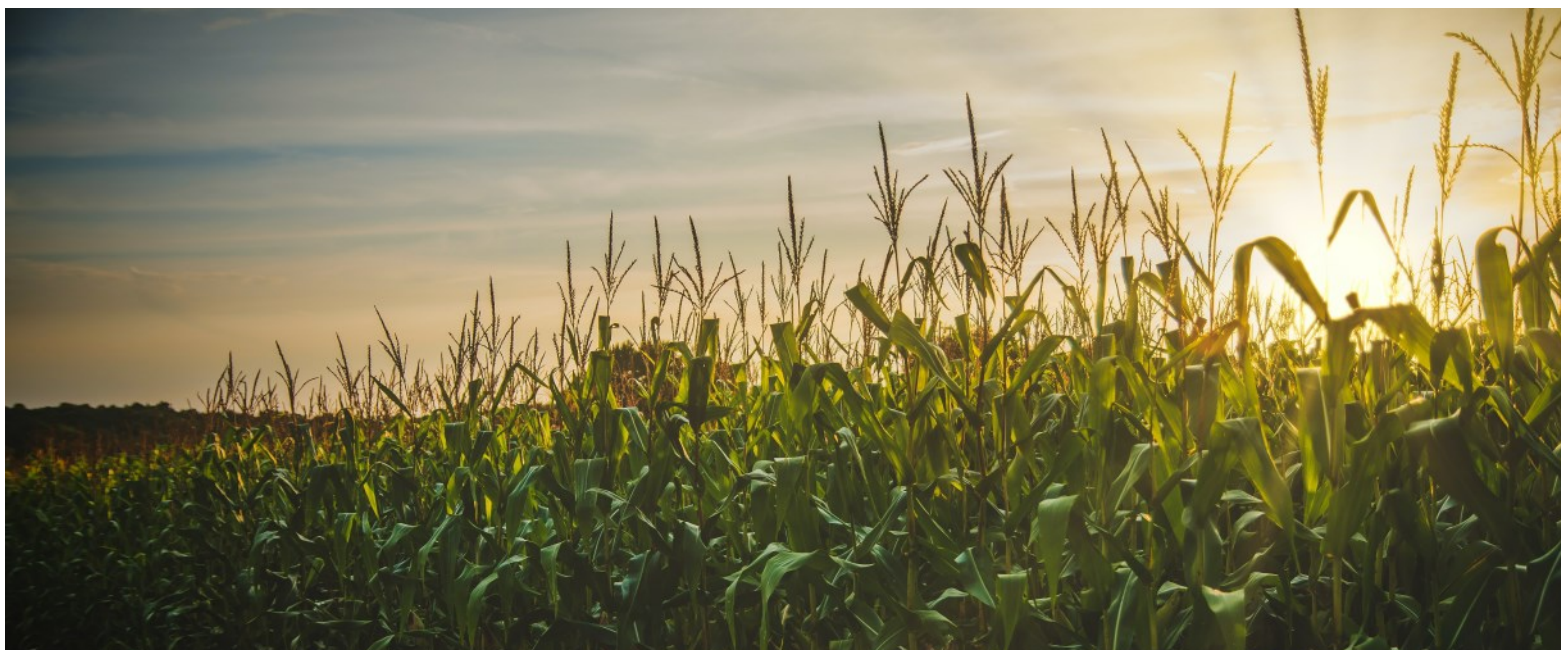
Registration:

- [Pre-Registration Form - 26th Annual North Country Crop Congress-North Country Regional Ag Team- Cornell University - Cornell Cooperative Extension](#)

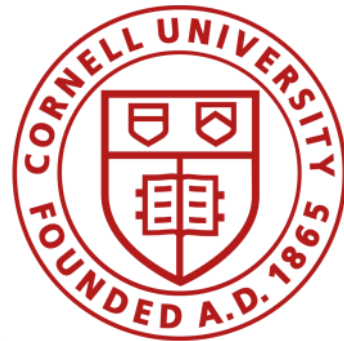
"The North Country Regional Ag team is a Cornell Cooperative Extension partnership between Cornell University and the CCE Associations in Jefferson, Lewis, St. Lawrence, Franklin, Clinton, and Essex counties."

Cornell Cooperative Extension is an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities and provides equal program and employment opportunities.

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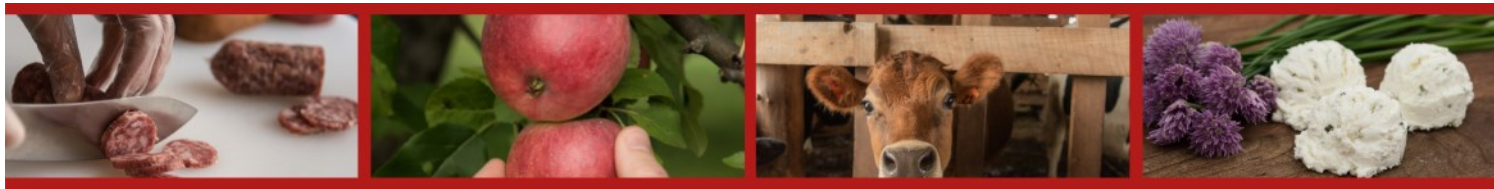


Job Opportunity with the CCE North Country Regional Ag Team



We are hiring: Regional Agricultural Business Development Associate Cornell Cooperative Extension for Northern NY

[Click here to view more details and apply](#)



Cornell Cooperative Extension
St. Lawrence County



January - March 2022 Registration is now open!

Weeknights 6-7:30 pm ONLINE

Social Media Management: Planning your Presence

Led by CCE Educator Lauren Olson with Nicole Ouellette of Breaking Even Communications

Prepare to Succeed: Business and Financing Options

Led by Farm Business Specialist Nicole Tommell

Get Your Ag Online: E-Commerce For Producers and Food Businesses

Led by e-Commerce Professional Jeremy Bloom of the Internet Farmer

Making Food Products in New York State

Led by Local Foods Team Leader and Harvest Kitchen Manager Flip Filippi

Personalized learning to improve your food business

“Carbon Farming” in NYS – Updates and ‘How-to’

By Kitty O’Neil

We know we need to sequester carbon (C) and reduce emissions of greenhouse gases (GHG) in order to adapt to, and mitigate or reduce climate change. We need to reduce our impact on climate change (mitigation) and protect ourselves from the impacts of a changing climate (adaptation) across the board, including commerce, public systems, communities, and households. Mitigation is needed to reduce the ultimate severity of climate disruptions while adaptation strategies will help us to accommodate changes already underway. Both approaches help to protect our future, with functioning commerce, public systems, communities, and households. Accomplishing these changes is an extremely tall order, but the good news is that agriculture is part of the solution, and the rest of the world is now willing to invest in farms toward that end.

Climate change mitigation and adaptation initiatives have begun to impact NYS farms in 2 ways – through policy and through market opportunities. Here in NYS, to accelerate climate change mitigation and adaptation, the state government has begun to institute new policies over the past few years. The Climate Leadership and Community Protection Act (CLCPA) was signed into law in 2019, establishing a framework, benchmarking, and targets for future progress. This is also the policy that set up renewable energy goals for the state. The CLCPA serves as springboard from which additional programs and investments will be implemented over the next few years.

Round 6 of the Climate Resilient Farming (CRF) Program was announced by the Department of Ag and Markets to be implemented in 2022. The CRF program began in 2015, and provides grant funds on a competitive basis to Soil and Water Conservation Districts for projects that mitigate the impact of agriculture on climate change. Practices that reduce GHG emissions and sequester carbon are targeted, as well as supporting on-farm strategies to better adapt to heavy storm events, rainfall, and drought. Projects such as manure storage cover-and-flare systems for reducing methane emissions, stabilizing water flows with riparian buffers, converting annual crop land to perennial forages, converting to no-till planting methods, planting cover crops, improving water storage, and more efficient irrigation systems were funded in earlier rounds.

The Soil Health and Climate Resiliency Act (SHCRA) was signed into law in January 2022. The SHCRA defines soil health and soil health-building practices for future policies, and it funds 3

NYS Ag and Markets programs: the Soil Health Initiative which targets on-farm soil management practices, Round 6 of the CRF, and a Soil Health Research Initiative which establishes benchmarks and methods to support best soil management practices on farms. The carbon farming tax credit bills (S4707 and A5386A) remain in committee.

Marketing and trading carbon credits presents another opportunity for farms to participate in climate change mitigation, while also adapting their own farm to withstand climate change disruptions. There are both voluntary and regulatory markets. The focus here is on voluntary markets as NY does not yet have an imposed ‘cap and trade’ type system. As concern about climate change and GHG emissions has grown, some countries, governments, communities, and corporations around the world have agreed to achieve various GHG emissions and C sequestration targets over near- and longer-term timeframes. Examples of these worldwide agreements are the Kyoto Protocol of 1997 and the Paris Agreement of 2015. More companies and organizations join these agreements each year with their own net-zero and climate-neutral commitments. Recently, over 400 U.S. corporations, including some agriculture and food industry leaders such as Coca Cola, McDonald’s, and Kellogg, submitted a letter to President Biden calling for his administration to adopt an ambitious target of cutting GHG emissions by at least 50% below 2005 levels by the year 2030. These corporations believe this goal is completely achievable. These bold goals and commitments drive organizations to shift toward operations which emit less GHG overall.

However, some companies and organizations have little flexibility to reduce their own emissions below certain levels. Instead, they contract with other entities who are able to achieve reductions, to offset their own GHG production, achieving reduced or even net-zero emissions overall. A company emitting GHG can purchase ‘carbon credits’ from another entity or from a market or exchange system. A ‘carbon credit’ is the handy term for a standardized unit of GHG, which is typically one metric ton of carbon dioxide (CO₂) or the equivalent amount of another important GHG (such as methane, nitrous oxide, etc., CO₂-eq). Today, most carbon markets are voluntary, linking buyers and sellers of carbon credits. The sellers, often farmers, are paid for generating carbon credits by adopting various management practices that meet specific GHG reduction criteria. The most common

Continued on Page 6...

farming practices include no-till/reduced-till planting methods, use of cover crops, some crop rotation strategies, and establishment of buffer strips to sequester carbon.

Farmers are usually paid based on the amount of carbon sequestered, by the acre or by the ton of CO₂-eq. Once the carbon credit has been generated, a certificate may be offered on the market where buyers can purchase those credits to meet their emissions goals (e.g., carbon neutral by 2030, etc.). Presently, most transactions occur through a third-party 'aggregator' or a company which links sellers (farmers) to buyers (corporations) and may also provide verification and certification services. Carbon markets are still young and as they develop, prices fluctuate. It is possible that, currently, payments for carbon credits may not cover the cost of implementing GHG-reducing practices. Prices range in value, but \$15-\$20 per ton of carbon sequestered is common today. However, the amount of carbon sequestered with various practices will vary from farm-to-farm and from region-to-region. Therefore, it is important for a farm to understand the costs and risks of implementing new practices and, as always, their specific obligations within any contract.

Carbon markets are very young and as they evolve and develop, many nuances and questions will be worked out. Will farms that have already converted to no-till planting be

able to sell those already-realized credits? Or will only newly converted acreage be eligible to generate salable credits? Will the pricing structure support the costs of transitioning farming methods? Will carbon markets lead to meaningful GHG reduction? Will small farms be able to participate, or will larger farms dominate these exchanges? Many organizations are paying attention and are advocating on behalf of farmers.

Additional Resources:

- NYS Climate Leadership and Community Protection Act, S6599 of 2019. <https://www.nysenate.gov/legislation/bills/2019/s6599>
- NYS Climate Resilient Farming Program <https://agriculture.ny.gov/soil-and-water/climate-resilient-farming>
- The Soil Health and Climate Resiliency Act. NYS Senate Bill S4722A. <https://www.nysenate.gov/legislation/bills/2021/s4722> and NYS Assembly Bill A5386A <https://www.nysenate.gov/legislation/bills/2021/a5386/amendment/a>
- Carbon Farming Tax Credit bills, in committee. NYS Senate Bill S4707. <https://www.nysenate.gov/legislation/bills/2021/s4707> and NYS Assembly Bill S2042. <https://www.nysenate.gov/legislation/bills/2021/a2042>
- NRCS Practice Standards for Greenhouse Gas Emissions Reduction and Carbon Sequestration, https://planner-prod-dot-comet-201514.appspot.com/static/media/NRCS_RankingTools.87706528.pdf



S U B S C R I B E

TO THE

Cornell Cooperative Extension

North Country Regional Ag Team

Blog and

YouTube Channel

BLOGS.CORNELL.EDU/NORTHCOUNTRYREGIONALAGTEAM /

WWW.YOUTUBE.COM/CHANNEL/UCXB3FV12XDCA3GJUDSFKM3Q



Cornell Cooperative Extension

Net Zero for NY Dairy: What You Need to Know

February 2 and February 3rd, 2022

12:00pm-2:30pm ET

A two day virtual conference

This conference has gathered dairy industry experts to shed light on what “getting to net zero” means for dairy producers.

Join us if you are...

...curious about what getting to “Net Zero” means for dairy farmers and why it’s being talked about so much.

...interested in the **facts** around dairy cattle and greenhouse gases.

...looking to learn about current and future farm practices and technology that can be used to reduce greenhouse gases?

... wondering where you’ll find the time to attend a conference or workshop?

Wednesday February 2, 2022

U.S. Dairy Net Zero Initiative: Building a Roadmap to 2050 – *Karen Scanlon*

Cattle and Climate Change – *Frank Mitloehner, PhD*

Consumer Trends and Industry Sustainability – *Sara Place, PhD*

Thursday February 3, 2022

Management Practices for Managing Methane – *Peter Wright*

Innovative Crop Strategies for Reducing or Sequestering GHG – *Quirine Ketterings, PhD*

Nutritional Strategies for Reducing Greenhouse Gases – *Tom Overton, PhD*

Using Genetics to Impact Green House Gases – *Christine Baes, PhD, or Research Associate*

Dairy Producer and Industry Panel

Register:

https://cornell.zoom.us/webinar/register/WN_DJHRq9okT7SASqn2w6ZpRA

Presenters:

Karen Scanlon, EVP of Environmental Stewardship for Dairy Management Inc, and the Innovation Center for U.S. Dairy

Frank Mitloehner, PhD, Professor and Extension Specialist, Department of Animal Science, University of California at Davis

Sara Place, PhD, Technical Consultant in Sustainability, Elanco

Peter Wright, Agricultural Engineer, PRO-DAIRY, Cornell University

Quirine Ketterings, PhD, Professor, Nutrient Management Spear Program, Department of Animal Science, Cornell University

Tom Overton, PhD, Professor of Dairy Management, Chair of the Department of Animal Science at Cornell University

Christine Baes, PhD, or Research Associate. Christine Baes, PhD, Associate Professor, Canada Research Chair in Livestock Genomics, University of Guelph

Registration is free do to the generous support of our sponsors.

Questions? Contact your CCE Regional Dairy Specialist or Kathy Barrett kfb3@cornell.edu



Dairy

Milking Procedure Review

By Lindsay Ferlito

With milking going relatively smoothly multiple times a day, it can be easy to forget to take a step back and review your milking protocols and procedures. Along with other animal care SOPs, review of milk procedures should take place at least annually. Sometimes this means just a quick review to make sure things are still where they need to be, but other times it means revamping and some re-training. Below are some things to keep in mind when reviewing your protocols as well as some basics for milking procedures.

When developing and reviewing your milking SOP, include input from your herd veterinarian, your milking staff, and apply industry best management practices. After creating your SOP, employees on all shifts need to be trained on any updates and expectations should be clearly outlined. Further, performance should be monitored to ensure the SOP is implemented and followed correctly. When evaluating milker performance, you could look at teat-end cleanliness and check milk flow rate data (trying to avoid bimodal milk flow), as well as visually observing employees and having a verbal discussion with them to address any concerns they have.

With the proper SOP in place, the goal is to have cows milk out quickly, completely, and with low stress. As mentioned above, we are aiming to avoid bimodal milk flow, which is when the milk flow peaks and then drops down very low (or no flow), and then peaks up again (2 peaks = bimodal). Ideally, the milk should start flowing, peak, and then drop near the end (1 peak).



Photo credit: L. Ferlito.

Industry guidelines suggest that within 2 minutes of the milking machine being attached, 50% of the milk should be collected. Cornell's Quality Milk Production Services (QMPS) says to aim for 15 pounds (3x milking) or 18 pounds (2x milking) of milk released in the first 2 minutes. Following these guidelines will help increase milk production, reduce overall time in the parlor, and help maintain good teat and udder health.

If you have questions about troubleshooting your milking procedures, please reach out to Cornell Cooperative Extension or Cornell Quality Milk Production Services (Canton, NY; 315-379-3930).





Share your opinions on dairy calf management and behavior!

We are seeking input from dairy producers on how calf management affects behavior and health in a 10 minute online survey

Participants must:

- Be 18 years of age or older
- Work at a facility that raises dairy calves

To learn more and participate, please visit:
tinyurl.com/dairycalfbehavior

Please contact Samantha Doyle (samantha.doyle@ufl.edu) or Dr. Emily Miller-Cushon (emillerc@ufl.edu) with questions. IRB approval #100173

Click here for more information: tinyurl.com/dairycalfbehavior



BACK TO THE BASICS: POULTRY 101

Join us and learn about the basics of poultry! Topics include:

- Everything needed to start your own backyard flock
- Meat & egg-laying breeds
- Meat processing
- Marketing poultry products in New York

THURSDAY, FEBRUARY 24TH
7:00 PM - 8:00 PM VIA ZOOM

Register to receive the Zoom link at
https://reg.cce.cornell.edu/Poultry101_222.

Questions? Contact Abbey Jantzi at aej48@cornell.edu or 315-788-8450 ext. 278.



Cornell Cooperative Extension | Jefferson County

Cornell Cooperative Extension is recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities and offers equal program and employment opportunities.

“Transition Cow Tuesdays” and “Healthy, Hardy, Heifers!” Webinar Recording Links

Transition Cow Tuesdays!

Transition Cow Nutrition – Dr. Tom Overton, Cornell University

<https://youtu.be/hVbN7dUY7cg>

Feeding the Transition Cow – Dave Balbian, Betsy Hicks, Margaret Quaassdorff, CCE Regional Dairy Specialists
<https://youtu.be/pg-EZiGKT-0>

Selective Dry Cow Therapy – Dr. Daryl Nydam, Cornell College of Veterinary Medicine
<https://youtu.be/AyxjrThB7HY>

Facility Considerations – Lindsay Ferlito, CCE NCRAT Regional Dairy Specialist
<https://youtu.be/oWLXS57wBPg>

Calving Considerations – Dr. Rob Lynch, Cornell PRO-DAIRY, and Margaret Quaassdorff and Dr. Kaitlyn Lutz, CCE NWN Regional Dairy Specialists
<https://youtu.be/6lj4WlIsXGg>

Post Calving Monitoring – Dr. Rob Lynch, Cornell PRO-DAIRY, and Margaret Quaassdorff and Dr. Kaitlyn Lutz, CCE NWN Regional Dairy Specialists
<https://youtu.be/gM6-ethnGaQ>

Evaluating Transition Management – Judy Moody, Dairy One
<https://youtu.be/OFRt4wCXcvw>

Healthy, Hardy, Heifers!

Series Kick-Off – Dr. Murilo Carvalho, Holstein Canada
<https://www.youtube.com/watch?v=QKliMGM3C5E&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=1>

Transition After Weaning – Casey Havekes and Lindsay Ferlito, CCE NCRAT
<https://www.youtube.com/watch?v=OdFqhM6lj4o&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=2>

Pre-Breeding Comfort and Nutrition – Lindsay Ferlito, CCE NCRAT, and Betsy Hicks, CCE SCNY
<https://www.youtube.com/watch?v=32lWN6qSgE&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=3>

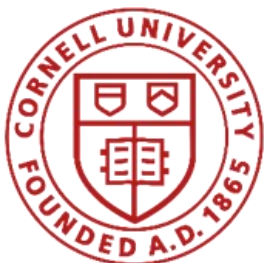
Hoof Health – Dr. Dorte Doepfer, University of Wisconsin Madison
<https://www.youtube.com/watch?v=75yl-ii1OE8&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=4>

Repro Strategies – Dr. Julio Giordano, Cornell University
<https://www.youtube.com/watch?v=BGJh0dPkc0E&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=6>

Bred Heifers – Dr. Tom Tylutki, AMTS
<https://www.youtube.com/watch?v=qiftIY0B5g4&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=5>

Pre-Caving Nutrition – Dr. Mike Van Amburgh, Cornell University
<https://www.youtube.com/watch?v=OG2Hrn0eeGo&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=7>

Pre-Calving Comfort and Facilities – Dr. Katy Proudfoot, University of PEI
<https://www.youtube.com/watch?v=yXwLVF7LdyA&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=8>



Farm Business

Farm Employers Urged to Respond to Labor Management Survey

By Dr. Richard Stup, Cornell University

*****An Urgent Request from Dr. Richard Stup, Cornell Agricultural Workforce Development: Farm Employers Urged to Respond to Labor Management Survey*****

Many New York farm employers will receive a survey in the coming weeks in an envelope from our contractor, Michigan State University. This mailing is part of Cornell research about how changing labor markets and regulations are affecting the viability of farming in New York. The industry needs relevant and timely information from farms like yours to speak with authority about what is happening and find solutions for the future. We can't do this without you!

My colleagues and I have already produced a preliminary report based on the participation of farms in related research last year, see "[Effects of NY Overtime Laws on Agricultural Production Costs and Competitiveness](#)." The results from this study were used by policy makers, the press, and farm groups in the recent wage board hearings. We need your help to provide this type of work on a larger scale about farm labor management.

This work is important because:

1. New York's agricultural industry needs this important data about how changing markets and regulations affect the

industry and the people who work in it. This data can affect state policies and regulations directly, as evidenced by the current wage board process.

2. Cornell researchers and educators need this data to help improve human resource management and workforce development in New York. A well-trained workforce is key to a viable future for farming in our state.

New York's labor challenges are not going away any time soon. We need data and insights to respond more proactively to challenges this year, and the next, and the next.

If you receive this survey in the mail from Michigan State, it is urgent that you respond. Fill out the paper survey with your farm information and return it in the provided envelope. If you need help, our Cornell team is ready to support you to complete the survey. Contact Rachel McCarthy (rpl4@cornell.edu or (607) 255-7871) to schedule assistance.

On behalf of the research team, thank you in advance for your participation in this study.

- Rich Stup



Photo credit: L. Ferlito.

Hay For Sale

- 4000 first cut squares
- 1000 second cut squares
- 400 first cut 4x4 round dry and individually wrapped
- 800 second cut baleage wrapped (described as more like silage)

Call Diane (his wife) at 315-287-4189

CCE North Country Regional Ag Team
203 North Hamilton Street
Watertown, New York 13601

What's Happening in the Ag Community

*Due to COVID-19, there may be some restrictions for in-person work and programming.
Check out our CCE NCRAT Blog and YouTube channel for up to date information and content.*

26th Annual Crop Congress. See page 4 for more information.

CCE St. Lawrence Ag & Producers Food Academy. See page 4 for more information.

Net Zero for NY Dairy: What You Need to Know. See page 7 for more information.

Back to the Basics: Poultry 101. See page 9 for more information.

Save the date: Implementing Practical Genetics for Commercial Dairies. Weekly Wednesdays, Feb 16, 2022, 12-12:45pm.

Save the date: Foot Health for Your Dairy Herd. March 22, 2022, 10:00-3:00pm via Zoom.

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