

North Country Ag Advisor

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Photo Credit: BING

Cornell Cooperative Extension
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/>

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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

Planting Enlist E3 Soybeans in 2022?

By Michael Hunter

Are you planting Enlist E3 soybeans in 2022? If so, one of the tools in the weed control toolbox will be the option to use one of the two registered 2,4-D choline herbicides for use on Enlist E3 soybeans. In January 2022, the EPA approved a seven-year registration of Enlist One and Enlist Duo herbicides. Enlist One and Enlist Duo are the only 2,4-D choline herbicides registered for over-the-top use in 2,4-D tolerant soybeans. Enlist E3 soybeans are also tolerant to the over-the-top application of both glyphosate (Roundup) and glufosinate (Liberty) herbicides.

If you will be applying Enlist One or Enlist Duo herbicide in 2022, there are several updated use changes on the label.

A few of the highlighted changes include:

- Postemergence applications can be made any time after emergence through R1 growth stage (beginning flower)
- Prohibiting Enlist product application when rainfall is expected to occur within 48 hours or when soils are fully saturated, and soil can no longer absorb water
- Requires users to select from a list of runoff reduction measures to reduce 2,4-D and glyphosate concentrations in runoff
- Enlist One can be applied to Enlist E3 soybeans in all counties in New York State
- Enlist Duo cannot be applied in Genesee, Seneca, and Wayne counties in NYS
⇒ However, glyphosate can be tank mixed with Enlist One in all counties in NYS
- More than 100 new nozzles were added to the qualified list

Any Enlist One or Enlist Duo that is sold, distributed, or applied after January 11, 2022, must have the new supplemental label or the products are labeled with the revised Section 3 labeling.

To access the Enlist One and Enlist Duo supplemental labels visit:

<https://www.enlist.com/en/News/supplemental-label-alert-for-herbicide-sold-after-1-11-2022.html>

Unlike the required annual dicamba training requirements for the use of the approved dicamba products (XtendiMax, Engenia, Tavium) and the EPA mandated three-year paraquat (Gramoxone) handler and applicator training, Enlist applicator



Photo credit: CCE NCRAT.

training is not required. Although not required, it is certainly worth the time to review for anyone that plans on using either of the Enlist products in 2022.

To register for an upcoming Enlist applicator live training webinar or view a prerecorded session visit:

<https://www.enlist.com/en/enlist-360-training/a-step-ahead-webinar-series.html>

Planting Enlist E3 soybeans will provide additional options for the control of multiple resistant marestail, a difficult to control weed that is slowly spreading across the state. Switching to 2,4-D tolerant soybeans is unlikely a long term solution, as selection for resistant weeds will begin with the increased use of these new herbicides. Growers will need to carefully consider how to best use these traits by providing good stewardship to preserve this technology for the future.

Planting Dicamba Tolerant Soybeans in 2022?

By Michael Hunter

Are you are planting dicamba tolerant (Xtend or XtendFlex Technology) soybeans in 2022? If so, one of the tools in the weed control toolbox will be the option to use one of the three registered dicamba herbicides for use on Xtend or XtendFlex soybeans. XtendiMax, Engenia, and Tavium are currently the only dicamba products registered for over-the-top use in dicamba tolerant soybeans.

If you will be applying XtendiMax, Engenia, or Tavium herbicide in 2022, the only major change that affects all users will be the need to have all labeling applicable to your location, including any state-specific and collateral labels, in your possession for these products to be lawfully applied.

As of March 15, 2022, the registrants of all three of these products have provided amended labeling and users are under legal obligation to follow amended labeling. All these labels now require that the applicator visits the company website no more than 7 days prior to the application of the respective product that they are using.

You can go to these website addresses for more information and to check for additional labeling or state restrictions:

- Bayer's XtendiMax - <http://www.xtendimaxapplicationrequirements.com/>
- Syngenta's Tavium - <http://www.syngenta-us.com/herbicides/tavium-application-stewardship>
- BASF's Engenia - <http://www.engeniastewardship.com/>



Photo credit: CCE NCRAT.

For updated copies of the label change follow these links:

- <https://www.roundupreadyxtend.com/Documents/264-1210-20220315-Collateral.pdf>
- <https://assets.syngentaebiz.com/pdf/media/Tavium%20Plus%20VaporGrip%20Technology%20SCP%201623A-S1%200322%20State%20Additional%20Labeling.pdf>
- <https://www.engeniaherbicide.com/content/dam/cxm/agriculture/engenia-herbicide/labels/Engenia%20NVA%202022-04-0385-0057%20website%2003-04-2022%20S.pdf>

The annual dicamba training requirements are still mandatory for any applicator that applies one of these products. The annual training requirements can be fulfilled by completing an approved online training module.

You can find approved dicamba training modules at all these links:

- <https://www.roundupreadyxtend.com/stewardship/Pages/default.aspx>
- <https://www.engeniaherbicide.com/training.html>
- <https://www.syngenta-us.com/herbicides/tavium-application-stewardship>

In addition, the following is an email communication from Mike Helms, Extension Support Specialist, Cornell Pesticide Safety Education Program: *“According to the NYS DEC, regardless of the requirements mentioned in the dicamba training, New York users still need to comply with all NYS requirements. One example is that the recordkeeping requirements mentioned in the training don’t meet NYS requirements. NY requires that records must be maintained for 3 years, and state law and regulations require certain information be recorded that may vary from the forms shown in the training.”*

If you have additional question or would like more information, contact Mike Hunter at 315-788-8450 or meh27@cornell.edu.



HOLD YOUR HORSES - EQUINE NUTRITION SERIES

Sponsored by the Equine Subgroup of the CCE Livestock Program Work Team

■ **Wednesday, April 13th - Equine Nutrition: Equine Metabolic Diseases and Common Pitfalls When Feeding Horses - Dr. Lindsay Goodale**

- Learn about common issues we encounter when feeding horses, including equine metabolic diseases, obesity, gastric ulcers, behavioral considerations, and more.

Register: <https://reg.cce.cornell.edu/HorseNutrition> 222

■ **Wednesday, May 11th - Pasture Management - Ken Estes, Jr.**

- Learn about pasture management for equine owners including best management practices related to soil health, plant selection, loading density, mowing, dragging, resting, fertilizing, and weed control.

Register: <https://reg.cce.cornell.edu/PastureMgmt> 222

■ **Wednesday, June 8th - Forage Analysis - Sarah E. Fessenden and Lynn Bliven**

- Learn about interpreting forage analysis reports and factors that impact evaluation of hay quality.

Register: <https://reg.cce.cornell.edu/ForageAnalysis> 222

6:30 PM - 7:30 PM VIA ZOOM

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



Cornell Cooperative Extension
Livestock Program Work Team

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Last Minute Prep for 2022 Spring Crops

By Kitty O'Neil

Spring planting season is fast approaching, but there's time for some last-minute preparations. While we always prioritize efficient use of fertilizers, seed, and other inputs, 2022 pricing and availability puts an extra importance on this strategy. How many items can you cross off this to-do list?

- Sample any fields needing an up-to-date soil test. We recommend testing soils, using a Morgan test, every 3-5 years for best fertility planning. Start the season with a clear understanding of which fields need which nutrients for which cropping plan. Now that the surface 8" of soil has mostly thawed, there's no time like the present to collect and submit samples to inform your spring applications. The DairyOne lab in Ithaca is the easiest place to submit samples for a Morgan test. Contact your local CCE office for info on free sample transportation.
- Inventory and plan all your nitrogen (N) credits for sod, manure, cover crops, 2021 crop residues, and any other source your farm uses. It's also not too late to submit manure samples for analysis along with those soil samples. A good analysis will help assign manure distribution most efficiently across your farm. Strategize for efficiency – where will you get the best return on your manure?
- Make sure your lime and fertilizer application equipment is functioning smoothly and accurately. Take the time to calibrate all these implements to ensure that waste is minimized and that you know exactly where your fertilizer expenses are going. Included in this list are standalone spreaders, but also fertilizer delivery

systems on planters. Inspect those 2x2 coulters and tubes to make sure you're getting the placement you expect too. Applying in-furrow insecticides? Inspect and tune those meters and tubes as well.

- While your planters are in the shop, confirm that they're adjusted to deliver seed with the correct placement and rate too. If you've never calibrated your drills and planters before, 2022 is just the motivation you need to figure it out. Penn State has an excellent drill calibration fact sheet, linked below. Use the correct planter calibration methods recommended by your planter manufacturer.
- Lastly, perform a thorough tune-up on your sprayers. Chemicals are also expensive and dear this year, so check tank and boom pressures at anticipated ground speeds and rpms, and calibrate flow rates out of each boom or nozzle. Update your inventory of replacement pump and nozzle parts.

This year is likely to be stressful, so reach out to CCE for help whenever needed. We can help you research and calculate best practices and approaches if you're unsure. Mike (315-788-8450; meh27@cornell.edu) and Kitty (315-854-1218; kao32@cornell.edu) are always available for consultation.

Additional Resources:

Duiker, S., R. Hoover and J. Myers. 2013. Calibration of Grain/Seed Drills, Agronomy Facts #75. Penn State Extension. https://extension.psu.edu/downloadable/download/sample/sample_id/412/



Photo credit: CCE NCRAT.

Spring 2022 Weather Outlook

By Kitty O'Neil

We begin the 2022 growing season in NNY with no drought classifications, for a welcomed change. Our snow has mostly melted and soil frost is on the decline. The North Country is a tiny bit behind normal soil moisture as of this date in late March, but the deficit is small. March temperatures have been just a bit warmer than average so far.

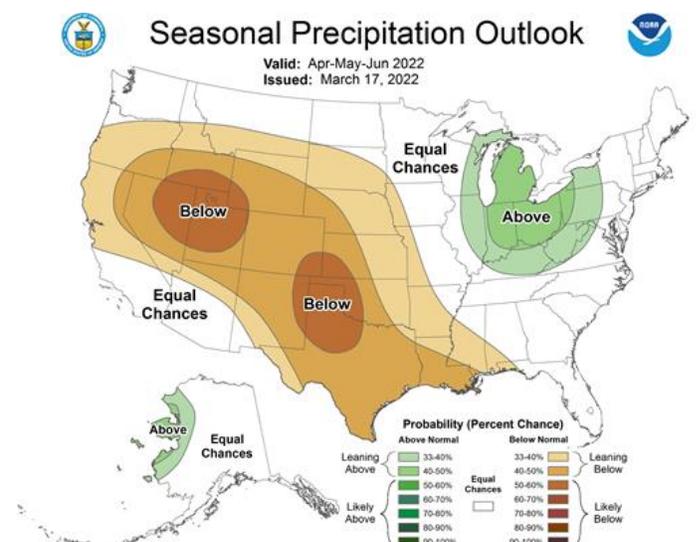
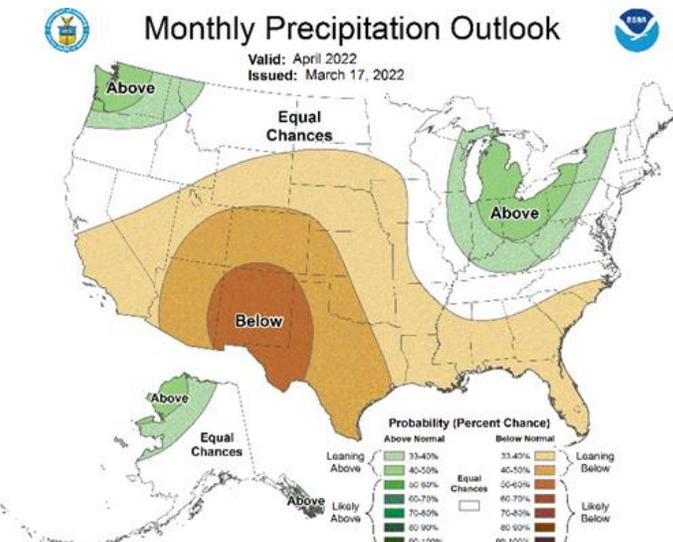
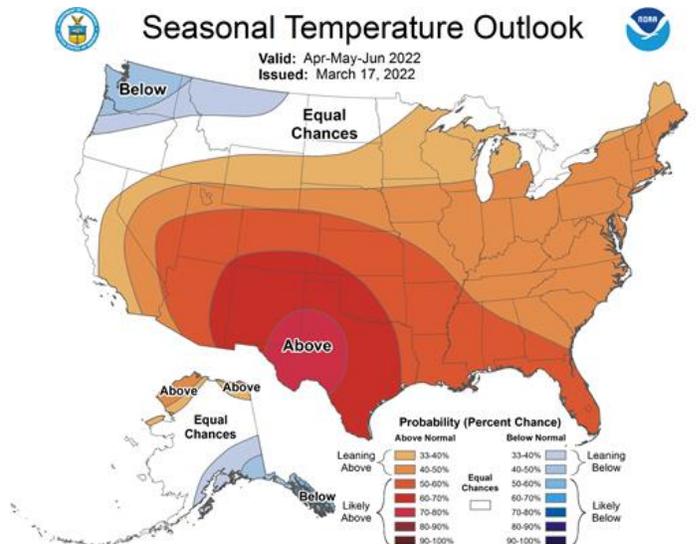
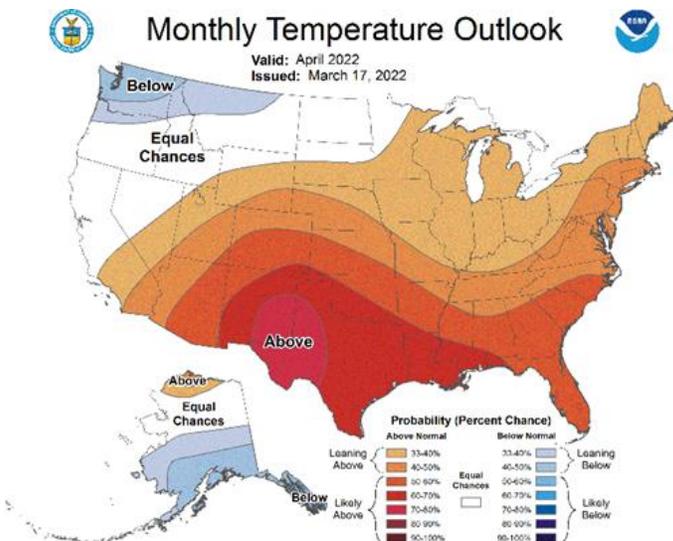
Monthly temperature and precipitation outlooks for April 2022 and for April-May-June 2022 are mapped below. Warmer than average temperatures are predicted for April through June. Climate scientists are estimating a 30-50% probability of atypically warmer temperatures over the next 3 months. Precipitation total for April is predicted to be wetter than normal, with about a 30% chance of above-average rainfall. North Country precipitation forecast for the next

three months may be about normal, with equal chances of above and below normal totals.

Maps below to the left depict April 2022 forecasts for monthly temperature and precipitation across the US. Maps below to the right depict April-May-June 2022 forecasts for monthly temperature and precipitation across the US.

Additional Resources:

- Cornell Cooperative Extension North Country Regional Ag Team Web Resources
- National Oceanic and Atmospheric Administration (NOAA) Climate Prediction Center
- Northeast Regional Climate Center
- NYS Mesonet



Focus on Farm Management: Stepping up Calf Protocols Case Study

By Betsy Hicks, CCE South Central NY Dairy and Field Crops Program

Do you ever feel like your calf health is “pretty good” but you feel like you’re treating more calves than you should? Or always fighting a virus or scours bug at a certain age in your calf group? A step back to look at calf protocols might be a worthwhile exercise.

The case study I’ll share in this article was from a participating farm in our NY Farm Viability Institute grant project “Focus on Farm Management: Areas of Excellence and Opportunity with Calves, Transition Cows, and Cow Comfort”. Participating farms across NY received assessments in these three areas, worked with their Cooperative Extension Dairy Specialist to come up with an action plan, implemented the plan, and then had their farms reassessed about a year later. A benchmark of all fifteen participating farms was created for each farm to compare to, as well as against their original assessment.

Calf Measurements

This case study farm knew that calf health was an area on their farm that they wanted to focus on. Calf health here was not terrible, but they felt that they were treating more calves than they should. Their first assessment of calf health included using the University of Wisconsin’s Calf Health Scoring Chart. This method utilizes scoring criteria of evidence of cough, nasal discharge, eye discharge, ear droop, and fecal scoring; each area receiving a score from 0-3. Indication of respiratory disease occurs when 2 of 4 categories score greater than 1, or the total score is ≥ 5 . A copy of the chart can be found at: <https://www.vetmed.wisc.edu/fapm/clinical-info/> (both in English and Spanish).

Upon comparison to the benchmark of participating farms, the manager’s suspicions were confirmed that calf health was an area they needed to focus on. While their respiratory scores were better than benchmark (81% vs 73% score 0), we found that calf fecal scores were much worse than benchmark (70% vs 83% score 0). Other data collected were nesting scores and bedding cleanliness, which the farm scored very well on, as they prided themselves on bedding hutches daily at a minimum, and ensuring calves had a clean and dry environment.

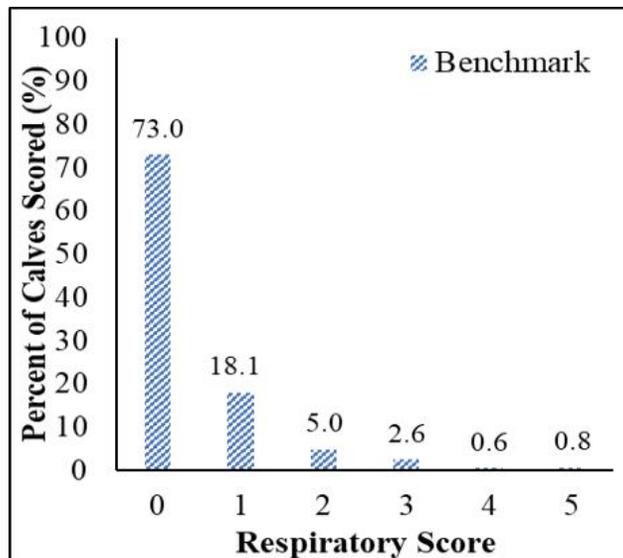


Figure 1. Pre-weaned calf respiratory scores for the 15-herd benchmark. NYFVI 2021.

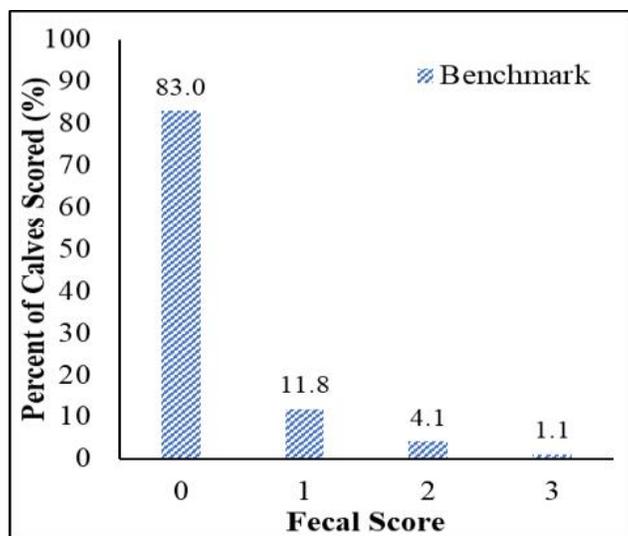


Figure 2. Pre-weaned calf fecal scores for the 15-herd benchmark. NYFVI 2021.

Forming the Action Plan

After viewing the assessment results, the farm wanted to make it a goal to improve calf health, even though respiratory scores were better than benchmark numbers. The assessment helped reveal where calves started to struggle with scours – about two weeks old. The farm to this point had only been

Continued on Page 9...

feeding twice a day, as three feedings per day was too much for the current labor. As treatments and monitoring sick calves takes quite a bit of time, the farm decided to implement a third feeding, and add to their calf staff.

Taking a Step Back

The farm also wanted to review colostrum protocols as well as feeding and cleaning protocols, as there were new staff as well as feeding changes happening at the same time. The owner evaluated current protocols with their veterinarian and nutritionist.

The decided changes were written down and dated, so that the farm knew when changes were made in order to make comparisons afterwards. Calf staff were called together to go over the updated colostrum feeding protocols and trained on cleaning protocols for feeding equipment.

The Results

About nine months after making changes, the farm received their second assessment. The farm manager was eager to see the results, as the calf staff felt that calf health had improved greatly and had far fewer calves to treat. The

results? Calf fecal scores improved dramatically, from 70% score 0 to almost 99% score 0. Concurrently, calf respiratory scores also improved, from 81% score 0 to over 87% score 0. The farm saw calves achieving higher gains in addition to reducing treatment costs. The farm owner attributes their success to the calf crew's ongoing care, and stated, "I was surprised on how a low investment could make such a big improvement". Making time to review protocols with key farm individuals, decide on changes, and train staff was key in this case study.

If you'd like to go over calf health on your dairy, feel free to reach out! I'd be happy to do an assessment and walk through protocols with you!

S U B S C R I B E

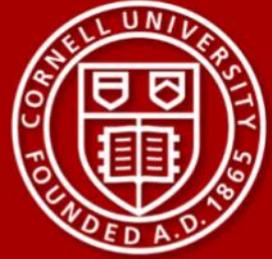
TO THE

Cornell Cooperative Extension
North Country Regional Ag Team

Blog and
YouTube Channel

BLOGS.CORNELL.EDU/NORTHCOUNTRYREGIONALAGTEAM /
WWW.YOUTUBE.COM/CHANNEL/UCXB3FV12XDCA3GJUDSFKM3Q

Dairy Women's Group: Community Outreach in Dairy



Are you a woman in dairy? Do you want to brainstorm with other dairy farm/industry women on how to do farm outreach in your community? This meeting is for you! This meeting will help you:

- learn how to become more involved in your community
- give you examples of how your dairy is already a good community member
- develop talking outreach points for your farm
- help you develop your goals for future community outreach

Speaker:

**Beth Meyer, Director of Consumer Confidence,
*American Dairy Association North East***

Facilitators:

**Lindsay Ferlito, Dairy Specialist, CCE North Country Regional
*Ag Team***

**Betsy Hicks, Dairy Specialist, CCE South Central NY Dairy and
*Field Crops Program***

**Eileen Jensen, Executive Director, NY Animal Agriculture
*Coalition***

Registration: No cost. Please register 1 week in advance to receive coursework materials prior to program.

<https://tinyurl.com/DairyWomensOutreach>

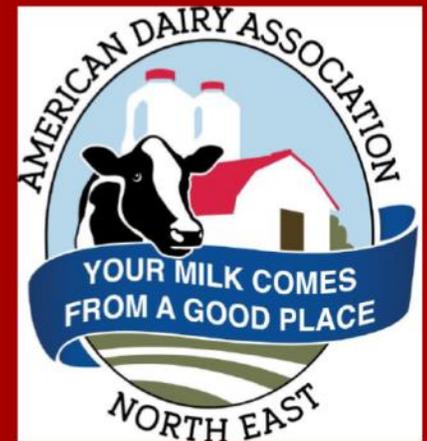
Cornell Cooperative Extension **Cornell Cooperative Extension**
South Central NY Dairy and Field Crops Program North Country Regional Ag Team

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.

April 14, 2022

12:00pm - 2:00pm

**Virtual Discussion
via Zoom**



Contact Info:
Donette Griffith
dg576@cornell.edu
607-391-2662

“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/6lj4WlissGg>

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

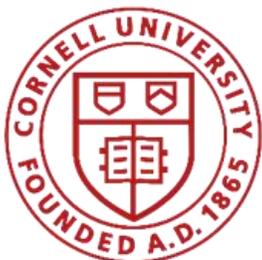
<https://www.youtube.com/watch?v=qiftIY0B5g4&list=PLcUCF1v3nnnnEqpMt5M5IBJpd6ENjwd76&index=5>

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

Cornell Cooperative Extension Presents: Inspired by Annie's: Let's Elevate Your Marketing

Tuesdays, April 5th, 12th, 19th, & 26th
11:30am-1pm
Via Zoom

Join a set of Cornell Cooperative Extension Educators for an *Inspired by Annie's Project* four week series focused on elevating your marketing techniques. This series will take place on Tuesdays in April (5th, 12th, 19th, & 26th), from 11:30am-1pm, allowing for participation during flexible lunchtime hours. Annie's Project is taught by trained facilitators and is designed for farm women who have been in farming, or agri-business, or part of the food system for three to five years, and want to develop their understanding, interpretation, and opportunities in sustainable agriculture. Annie's Project gives farm women the opportunity to learn from female agricultural professionals and network with other women in similar situations.

Inspired by Annie's Project - Let's Elevate Your Marketing will take participants through a four week journey addressing all aspects of their farm marketing. By the end of the four weeks participants will:

- Learn how to conduct a brand audit of their farm or business and make updates/changes based on the audit
- Create a marketing strategy statement which reflects their target customer
- Create a social media strategy which meets their business goals

- Understand and evaluate which e-commerce platform makes the most sense for their farm, or products
- Learn to take great pictures
- Understand how targeted communication pieces can help meet their goals

The cost is \$60 for the four-part series and registration is limited to enhance group discussions. Sessions will not be recorded. The cost includes copies of all presentations and worksheets, and support from a variety of community partners. The series will take place on Tuesdays, 11:30am-1pm, April 5th -26th.

To register click here: https://reg.cce.cornell.edu/inspiredbyanniesmarketing_203.

For more information, contact Laura Biasillo at lw257@cornell.edu.



ANNIE'S PROJECT
EMPOWERING WOMEN IN AGRICULTURE

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 Website, Blog, and YouTube channel for up to date information and content.*

Hold Your Horses - Equine Nutrition Series. See page 5 for more information.

Dairy Women's Group - Community Outreach in Dairy. See page 10 for more information.

Inspired by Annie's: Let's Elevate Your Marketing. See page 12 for more information.

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