

2021 DAIRY PROGRAMS



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2021 MSU Extension Dairy Programs

Michigan State University (MSU) Extension Dairy Team: Educators and Specialists with a commitment to enhance the competitive advantage of Michigan dairy producers and Michigan's dairy industry

The MSU Extension Dairy Team fulfills this mission in a variety of ways.

- Educational programs are held throughout the state focusing on issues identified by the industry
- Research and demonstrations are conducted directly with dairy producers
- Farm visits reinforce and help to apply research-based information and concepts to your unique farm operation
- Educational resources and event information are shared through our website <https://www.canr.msu.edu/dairy/>, news releases and emails

Call us if you need help with problem-solving, evaluating alternatives, planning for the future, or learning another perspective on your operation. Please don't hesitate to call!

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You can find any MSU Extension employee at:
<http://www.canr.msu.edu/outreach/experts/>

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Dear Dairy Farm Family,

Many of us will look back on 2020 and be glad that it is gone. There was the onset of COVID, market disruptions, social disruptions and political disruptions. Certainly, the way Extension works with farmers and industry was greatly disrupted. It would be shortsighted, however, not to acknowledge the many things for which to be thankful, whether simple things such as health and strength, joys of family or ways that your business improved. Now we look ahead to 2021 with hope and optimism.

There is hope the pandemic will be greatly slowed by a new vaccine. There is hope markets will pick up and the food service sector will once again demand dairy products. There is hope people will be able to go out and to meet freely again. At this time however, COVID is still with us and unrestrained, and MSU Extension is still restricted in how we operate.

In 2021, Extension will still rely on mostly technological means (Zoom calls, video and audio recordings, phone, etc.) to reach farmers and ag professionals. We are able, with administrative permission, to make farm visits in response to requests by farmers regarding problems identified that need our in-person efforts. Please contact your Dairy Educator.

Though our ability to travel is less, our heartbeat for dairy farmers is no less strong. We want to be able to help, encourage and guide you and your employees. This booklet tells of many ways that we can do that. Thanks for your work to produce a high-quality food product!

MSU Extension Dairy Team

Two online resources that may be helpful are:

- Managing Farm Stress website (http://www.canr.msu.edu/managing_farm_stress/)
- Online course to help manage stress from farming (http://www.canr.msu.edu/managing_farm_stress/online_course_how_to_handle_stress_on_the_farm)

Do you use social media to stay connected with family, friends, and the industry? The MSU Extension Dairy Team is now active on Facebook, LinkedIn, and Twitter, and we would love to connect with you. Each week we'll be sharing news on dairy research, student activities, and industry updates, so find us on your favorite platform today!



VIRTUAL COFFEE BREAK WITH THE MSU DAIRY TEAM PODCAST

Overview: We know that you're busy on the farm, especially in the current dairy financial climate. The MSU Dairy Team has developed a new method of educational outreach that allows you to participate from anywhere: The virtual coffee break Podcast series. The episodes are hosted by a dairy educator, and often feature a guest researcher, producer or industry expert to discuss timely topics about dairy farm management. New episodes are available weekly and can be listened to online at: <https://anchor.fm/msu-dairy-team> or wherever you get your podcast. Topics and guest line-ups will be released in March 2021.

Details: If you are interested in more information about this program please contact Martin Mangual at 616-994-4581 or email carrasq1@msu.edu.

JOURNAL 2 FARM

Overview: The Dairy Team is beginning a new program series of videos that will each feature a scientific journal article that is discussed and applied to the farm. We will be examining the Journal of Dairy Science and other journals to bring the best of new research information your way in a format that makes it easy to understand and see how it relates to day to day management of dairy.

Details: For more information, contact Phil Durst at 989-387-5346 or durstp@msu.edu or Faith Cullens at 989-224-5249 or cullensf@msu.edu

FACEFARMLIVE! PROGRAM

Overview: The goal of this program is to provide a virtual farm visit to discuss an issue and provide examples and recommendations in how to resolve it. Visits can be accessed live and will often have participation from the host farmer. This closed Facebook group will be limited to farmers and agriculture business people who request access.

Details: For information about how to access and register with the group contact Martin Mangual at 616-994-4581 or email carrasq1@msu.edu.

FARM EMPLOYEE UNIVERSITY

Overview: Farm Employee University provides an on-line training platform accessible to all dairy employees and employers. Our goal is to provide education that will improve the skills of both employers and employees, lead to a better work environment for all, and reduce employee turnover on farms. Material is provided in both English and Spanish, and is available with closed captioning. Course core topics for employees are free and include milking, calf care, animal handling, safety. This program is made possible through a grant provided by the North Central Extension Risk Management Education Center in cooperation with Michigan State University Extension.

Details and Registration: You and your employees can register for this on-line course by visiting our FEU webpage at: www.canr.msu.edu/farm-employee-university. For more information, please contact Stan Moore email moorest@msu.edu or Martin Mangual at carrasq1@msu.edu.

INTENSIFY YOUR PRODUCTIVE MANAGEMENT STRATEGIES

Overview: Dr. Pursley invites Michigan dairy producers and their veterinarians to schedule Zoom or Skype sessions to discuss reproductive management strategies in dairy herd herds. Topics: Reviewing current or designing new programs to fit farm goals and objectives, and updating dairy veterinary and other consultant groups regarding new or emerging dairy reproduction strategies that can be implemented on the farm.

Presenters: Dr. J. Richard Pursley.

Details: Please contact Dr. Pursley to schedule a Zoom or Skype session at pursleyr@msu.edu.

WHAT'S YOUR ROLE IN FEED MANAGEMENT

Overview: The program will provide a basic understanding on how dairy farm decision makers and managers impact the efficiency of their dairy feeding program. Participants will have the opportunity to actively participate in group discussions.

Presenters: Martin Mangual, Invited speakers from industry.

Dates and Locations: Fall 2021, locations TBD.

Registration: Contact Martin Mangual at 616-994-4581 or email carrasq1@msu.edu

PARLOR PERFORMANCE EVALUATIONS

Overview: Evaluations combine the use of VaDia Technology and other metrics to analyze milking protocols and provide recommendations to reduce milking issues like bimodal milking among others. Data can also be used to tailor milker-training programs for the participating farms.

Dates and Locations: Individually scheduled for farms across the state

Details: Contact our nearest Dairy Educator (locations and contact information at the end of the booklet).

DAIRY NUTRITIONIST DISCUSSION FORUMS

Overview: An open forum for dairy nutritionists practicing in Michigan to ask questions to researchers and their peers about new trends and studies in the dairy nutrition field. Meetings will include brief research updates from MSU dairy nutrition specialists.

Presenters: Dr. Barry Bradford, Dr. Adam Lock

Dates and Locations: December 2021 Locations TBD

Registration: Contact Dr. Barry Bradford at bjbrad@msu.edu

THUMB DAIRY GROUP

Overview: Thumb Dairy Group is for dairy farmers that are interested in growing their knowledge base and learning from their peers. This group will help dairy farmers learn more about various aspects of dairy herd management as well as business management.

Dates and Locations: In-person 5-7 times a year all year round located on some farms and other locations in the thumb area.

Details: Contact Marianne Buza Murawski at 440-785-2919 or mbuza@msu.edu

THUMB DAIRY ODYSSEY

Overview: Thumb Dairy Odyssey will be interactive dairy science learning experiences for youth. These participants will learn about various aspects of the dairy industry including animal nutrition, veterinary science, reproduction, farm technology, showmanship and judging.

Dates and Locations: 2 in-person events per summer.

Details: Contact Marianne Buza Murawski at 440-785-2919 or mbuza@msu.edu.

ARTISAN CHEESE MAKING WORKSHOP

Overview: Michigan State has a history of training people in making artisan cheeses so that they can start or improve their ability to add value to milk and meet a market niche for high quality cheeses. In 2020, 15 participants learned how to make both soft and hard cheeses and are learning about the business of being a cheesemaker. We want to support them on their journey of being a cheese entrepreneur and will continue to encourage them, while providing guidance and help. There may be others who are likewise interested. We are considering another basic Artisan Cheesemaking Workshop in 2021.

Details: If you are interested in participating, contact Phil Durst or Stan Moore.

VIRTUAL DAIRY BEEF LUNCH SERIES

Overview: Join us for a virtual lunch presentation series in May 2021 where we will cover genetics/sire selection, nutrition and management, carcass yield and quality, and marketing of dairy beef cattle.

Dates: Four 1-hour virtual presentations will be presented over the lunch hour across the month of May, 2021.

Details: Contact Jerad Jaborek 715-451-2035 or jaborekj@msu.edu or Garth Ruff 740-651-7140 or ruff.72@osu.edu

BREAKFAST ON THE FARM

Overview: These consumer education events provide an on-farm opportunity to learn about modern agriculture. Visitors will learn firsthand how farmers care for animals, protect the environment and produce safe and nutritious food.

Dates and Locations: June – October at several locations across the state; to be determined in early 2021

Registration: More information is available at <http://www.breakfastonthefarm.com/> or you may contact Ashley Kuschel at 586-337-4985 or kuschela@msu.edu or Mary Dunckel at 989-354-9875 or dunckelm@msu.edu.

FARM STRESS

Overview: With the uncertainties the farming community is facing, it's likely that you or a fellow farmer could experience effects of stress. MSU Extension has a number of resources such as the Rural Resilience free online course that is now available and open to the public and the MSU Extension Teletherapy pilot project, which links farmers with a licensed mental health therapist via teletherapy.

Details: For more information, please visit www.canr.msu.edu/managing_farm_stress/ or contact Eric Karbowski at 989-317-4079 or karbows8@msu.edu.

MICHIGAN MANURE MANAGEMENT SUMMIT

Overview: The purposes of these annual summits are to provide recertification opportunities for individuals who have gone through the Michigan Manure Hauler Certification Program and educational programs that result in changes of knowledge, attitudes, and perceptions of anyone who applies manure.

Contact persons: MSU Extension: Charles Gould at gouldm@msu.edu or 616-834-2812 or Erica Rogers at rogers392@msu.edu or 989-875-5233 Ext. 5296 or Sarah Fronczak at fronzca3@msu.edu or 517-439-9301 Ext. 315. Michigan Farm Bureau: Tess Van Gorder (Ag Ecology Department) at tvangor@michfb.com or 517-323-6711.

Dates and Locations: This will be a virtual conference. Tentative dates are January 19-20 or 20-21. Go to <https://www.canr.msu.edu/animal-agriculture/Manure-Hauler-Training/> for current information.

MSU EXTENSION VIRTUAL IPM/CROP MANAGEMENT MEETINGS

Overview: The winter meeting season is soon arriving and MSU Extension Specialists and Educators have been busy compiling the latest research information from Michigan. Farmers and agribusinesses are invited to attend the MSU Extension Virtual Crop and Integrated Crop Management Regional meetings in the coming weeks.

Each region will feature selected topics pertinent to their location to meet the needs of farmers. Group discussions and Q & A will be an important part of each program.

Dates, Locations, and Contact Information: For more information, contact the MSU Extension Educator listed for each regional meeting.

MSU Extension Virtual Crop & Integrated Crop Management Winter Meetings

Jan. 7	Central Region–Paul Gross	grossp@msu.edu
Jan. 13	Thumb Region – Bob Battel	battelro@msu.edu
Jan. 15	UP/N MI Region – Jim Isleib	isleibj@msu.edu
Jan. 26	SE Region - Ricardo Costa	costasil@msu.edu
Feb. 2	Thumb (2) Region - Phil Kaatz	kaatz@msu.edu
Feb. 15-16	SW Region – Bruce Mackellar	mackella@msu.edu

BEEF QUALITY ASSURANCE

Overview: It is every beef and dairy producer's obligation to utilize management and judgment that ultimately leads to a safe and positive eating experience for beef consumers. Beef Quality Assurance (BQA) is a voluntary program, promoted through the Beef Checkoff since 1982, to educate about accepted management skills and scientific knowledge to prevent beef product defects. The program's goal is to ensure that all cattle are healthy, wholesome and safe; managed to meet USDA, FDA, and EPA standards; produced with environmentally-sound production practices; and handled within acceptable animal welfare guidelines. BQA certification is presently being imposed as a beef supplier requirement by some food service customers because it safeguards the health, safety, and wholesomeness of beef products. Major regional packer/processors are requiring Beef Quality Assurance (BQA) certification of their fed cattle suppliers. Join over 3,000 Michigan producers who have become certified in the last year.

More information: Find BQA training options at the following link https://www.canr.msu.edu/beef_quality_assurance/index

GRAZING SHEEP IN SOLAR PROJECTS

Overview: A webinar series on grazing sheep in a solar project that includes a virtual field day.

Presenters or contact person: Charles Gould at gouldm@msu.edu or 616-834-2812

Dates and Locations: This will be a virtual conference held sometime during the first quarter of 2021.

Please visit the MSU Extension Dairy Team website at <https://www.canr.msu.edu/dairy/> for more information on educational programs, articles, fact sheets and resources for Michigan's Dairy Industry.

Employee On-Farm Trainings

ON-FARM STOCKMANSHIP AND DOWN COW MOVEMENT TRAINING

Overview: These on-farm training sessions will cover general stockmanship and animal handling, and down cow care. They are designed to help meet training requirements of the National Dairy FARM program.

Language: English and Spanish.

Dates and Locations: Sessions will be offered across the state at various times of the year. These can be organized on request.

Contact: Marianne Buza Murawski at 989-269-9949 ext. 612 or mbuza@msu.edu

CALF CARE

Overview: Dairy farm employees, managers and owners will learn, hands-on, the basics of calf care, along with new management practices and research to grow calves to their full potential.

Language: English and Spanish.

Dates and Locations: To be determined.

Contact: Faith Cullens at 989-224-5249 or cullensf@msu.edu

DEHORNING USING HOT IRON WITH PAIN MITIGATION TRAINING

Overview: These hands-on trainings will cover the use of a hot iron dehorner and the proper administration techniques of medication for pain management in calves. There are no fees associated with this training.

Language: English and Spanish.

Dates and Locations: As requested.

Contact: Paola Bacigalupo at 970-888-1356 or paolabs@msu.edu

MATERNITY TRAINING

Overview: This training will cover critical points around calving, including the care of the cow and newborn, colostrum management, and calving difficulties.

Language: English and Spanish.

Dates and Locations: Sessions will be offered across the state at various times of the year. These can be organized on request.

Contact: Paola Bacigalupo at 970-888-1356 or paolabs@msu.edu.

FEEDER CONSULT AND TRAINING

Overview: These on-farm training sessions will cover basic cow nutrition and ingredient management, On-farm sampling and DM testing, Basic feeder safety and overview & evaluation of feeding protocols. Program can be focused on managers or employees determined by case.

Language: English and Spanish.

Dates and Locations: Sessions can be offered across the state at various times of the year. These can be organized on request.

Contact: Martin Mangual at 616-994-4581 or carrasq1@msu.edu

HANDS-ON EUTHANASIA TRAINING

Overview: Using portable models and a captive bolt stunner, this on-farm training teaches placement and protocols for proper euthanasia.

Language: English and Spanish.

Dates and Locations: Sessions will be offered across the state at various times of the year. These can be organized on request.

Contact: Marianne Buza Murawski at 989-269-9949 ext. 612 or mbuza@msu.edu

Research and Projects:

- Improving Dairy Feed Efficiency, Sustainability and Profitability by Impacting Farmer's Breeding and Culling Decisions - : Michael Vandehaar - Funding: Foundation for Food and Agriculture Research
- Evaluation of Cytochrome P450-derived Lipid Metabolites as Therapeutic Targets during Mastitis in Dairy Cattle - Vengai Mavangira - Funding: USDA
- Delayed Time of Conceptus Attachment is a Key Limiting Factor in Pregnancy Survival of Lactating Dairy Cows - Richard Pursley - Funding: USDA
- Oxidized Linoleic Acid Metabolites Produced During Lipolysis Modulate Adipose Tissue Metabolic Function In Periparturient Dairy Cows - Andres Contreras, Adam Lock, Lorraine Sordillo - Funding: USDA
- Impact of ceftiofur use on antibiotic resistant bacterial populations in dairy cattle - Shannon Manning - Funding: USDA
- Impact of Oxidative Stress on Vaccine Responsiveness in Neonatal Dairy Calves - Angel Abuelo - Funding: USDA
- Mitigating Transmission of Antimicrobial Resistance on Large Dairy Farms by Reducing Behavioral Pathways of Exposure - Pamela Ruegg - Funding: USDA
- Establishing the Value of Alfalfa with Highly Digestible Fiber - Barry Bradford - Funding: USDA
- Investigating the Nexus Between Beta-Hydroxybutyrate, Inflammation, and Mastitis in Dairy Cattle - Turner Swartz - Funding: USDA
- Long term impact of delayed milk ejection on milk yield – Paola Bacigalupo, Ron Erskine

Other Resources and Projects:

People and Parlors: A training manual to ensure milk quality is a book by MSU Extension published by Hoard's Dairymen. This manual is designed to provide in-depth training for parlor employees related to mastitis basics, parlor practices, treatment philosophies, and more. The book is designed with side-by-side English and Spanish translations for easy use during your employee training sessions. Copies may be purchased from Hoard's Dairymen Bookstore at: [https://hoards.com/article-19451-people-and-parlors-\(pepa\).html](https://hoards.com/article-19451-people-and-parlors-(pepa).html)

Large Herd Dairy Management is an e-book, the 3rd edition of a premier text highlighting the most important work and current research in dairy. The book was led by former MSU Clint Meadows Chair, Dave Beede as Editor-in-chief and has a section on Effectively Managing Farm Employees edited by Moore and Durst. Individual sections are available for purchase at <https://www.adsa.org/Publications/Large-Dairy-Herd-Management>.

Dairy Notes to Consider

Overview: This dairy e-newsletter is compiled approximately 9 times per year and has short segments with the opportunity to follow-up just a click away. The information is timely topics, reminders and challenges. It is free and we would be glad to add you to the email list.

Details: Send an email to Phil Durst at durstp@msu.edu. We also welcome your comments, ideas and feedback.

EXTENSION DAIRY ADVISORY TEAM:

The MSU Extension Dairy Advisory Team is a group of progressive dairy producers and professionals selected to provide input on needs in the industry and feedback on MSU Extension activities. It is also a great opportunity to network with and learn from peers and MSU personnel. Members serve two-year terms and meet regularly by phone and in person twice per year.

2020 MEMBERS:

Eric Carson	Eric Martin
Mark Case	Renne McCauley
Sam Chapin	Ashleigh McNeil
Jessica Duran	Nathaniel Miller
Cami Evans	Katelyn Packard
Ethan Haywood	Merv Seiler
Kyle Jandernoa	Matt Thompson
Karl Jones	Ashley Zondlak

SPONSORS FOR LAST YEAR'S MSU EXTENSION DAIRY TEAM PROGRAMS (2019-2020)

Green and White (\$1,000)

United Dairy Industry of Michigan
Diamond V
Michigan Milk Producers Association
Dairy Farmers of America
GreenStone Farm Credit Services

Gold (\$500)

NorthStar Cooperative

MSU Extension Dairy Educators:

Paola Bacigalupo	Coldwater	517-279-6419	paolabs@msu.edu
Marianne Buza Murawski	Bad Axe	989-269-9949	mbuza@msu.edu
Faith Cullens	St Johns	989-224-5249	cullensf@msu.edu
Phil Durst	West Branch	989-387-5346	durstp@msu.edu
Martin Mangual	West Olive	616-994-4581	carrasq1@msu.edu
Frank Wardynski	Ontonagon	906-884-4386	wardynsk@msu.edu

MSU Educators Serving Dairy Producers:

Roger Betz	Farm Management	517-230-0110	betz@msu.edu
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Florencia Colella	Farm Management	231-224-6439	colellaf@msu.edu
Melissa Elischer	4-H Dairy	517-432-4306	elischer@msu.edu
Sarah Fronczak	Enviro Management	517-439-9307	froncza3@msu.edu
M. Charles Gould	Bioenergy	616-834-2812	gouldm@msu.edu
Phil Kaatz	Forages	810-338-5242	kaatz@msu.edu
Jon LaPorte	Farm Management	269-445-4438	laportej@msu.edu
Stan Moore	Farm Management	231-533-8818	moorest@msu.edu
Erica Rogers	Enviro Management	989-875-5233	roger392@msu.edu

MSU Extension Dairy Specialists:

Angel Abuelo	Animal Health	517-884-7818	abuelo@msu.edu
Mike Allen	Nutrition	517-432-1386	allenm@msu.edu
Barry Bradford	Nutrition	517-432-5400	bjbrad@msu.edu
Kim Cassida	Forages	304-575-6099	cassida@msu.edu
Adam Lock	Nutrition	517-353-8714	allock@msu.edu
Richard Pursley	Reproduction	517-281-7289	pursleyr@msu.edu

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