



Gladwin County MSU Extension
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Dear Great Lakes Grazier,

I hope this newsletter finds you warm and cozy, your livestock well fed, and barns full of hay! As I write this, we have experienced the coldest time that all of us have experienced in several years. In fact, on the national news this morning, they said that it has not been this cold in more than 20 years. Most millennials have not experienced weather this cold in their lifetime. I am not a millennial, and weather like this was common when I was growing up.

A Team consisting of Monica Jean, Field Crops educator in Escanaba, Julie Crick, Natural Resources Educator in Roscommon, myself, and several others offered a Silvopasture program on January 23rd in Harrison and January 24th in Chatham. The interest in the program was greater than anticipated. We were hoping to have 60 attendees at the two locations. We ended up with over 85 registered to attend the events.

The Silvopasture team will be working to get demonstration sites identified as well as creating a series of webinars related to agroforestry. For more information on Silvopasture, I encourage you to visit Cornell's Silvopasture forum at: <http://silvopasture.ning.com>. If you are a producer that is currently managing a Silvopasture system or would be interested in cooperating with us on a demonstration project, please contact me to discuss this further.

As you all know by now, Jerry Lindquist retired in November of 2018. Upon his departure he turned the reigns of this newsletter over to me. My goal is to provide you with the same type of service that Jerry did in writing this newsletter. I consider myself very fortunate to have worked beside Jerry for the better part of the last decade and will strive to maintain and continue his good work in this newsletter.

Sincerely,

Kable Thurlow

MSU Extension Beef & Grazing Educator

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*The mere brute pleasure of reading –
the sort of pleasure a cow must have
in grazing.*

~ Lord Chesterfield

DAIRY GRAZING APPRENTICESHIP

Attention Dairy Graziers! Join us to bring the Dairy Grazing Apprenticeship (DGA), the first formal apprenticeship for farming in the nation, to Michigan.

Learn how to become an approved Master Dairy Grazier and join the growing network of over 150 master graziers who are training the next generation of dairy farmers in over 11 states.

Dairy Grazing Apprenticeship (DGA) links current and aspiring dairy farmers and provides a structure of support for the transfer of knowledge, skills, and farms from one generation to the next.

Register now and learn about how becoming a Master Grazier with DGA can further the future of farming.

This is a free event with lunch provided.

To Register: <https://events.anr.msu.edu/DairyGrazingApprenticeship/>

Registration questions: (269) 671-2402 or

pasture.dairy@kbs.msu.edu

For information on DGA visit www.dga-national.org



DOUBLE CROPPING WITH CEREAL GRAIN FORAGES

Brook Wilke; MSU Kellogg Farm Manager

Corn silage producers have opportunities in Southern Michigan to double crop by planting cereal grains after corn silage, and harvesting the cereal grains the following spring for forage, prior to planting the next year's crop.

At the W.K. Kellogg Biological Station in Hickory Corners, MI, we tested five different cereal grain crops provided by Byron Seeds to evaluate forage quantity and quality, and assess the feasibility of fitting this crop in between two full season crops. Treatments were replicated four times in an RCBD design. Samples were composited across replications for forage analysis, which was completed by the MSU Forage Quality Laboratory (Dr. Kim Cassida). Details of the trial are listed in the green column to the right, and data for the forage crops is shown below.

Crop	Dry Matter Yield (lbs/A)	Crude Protein	ADF	aNDF	Lignin	Sugars
Wheat	2667	12.61	27.7	51.2	3.12	13.3
Triticale Plus	2938	11.32	30.1	55.8	3.98	11.7
Triticale	3149	11.15	30.0	56.7	3.58	11.9
Winter Barley	3247	11.31	30.1	58.3	3.53	11.1
Cereal Rye	3824	11.19	32.7	62.1	3.74	9.4
LSD P=.05	737					
CV	16.1					

Crop	WSC	IVTDM D48	dND F48	Ash	Fat	K
Wheat	20.0	80.0	34.3	7.9	2.90	2.15
Triticale Plus	16.4	77.9	35.5	8.5	2.57	2.49
Triticale	16.9	76.5	36.0	8.1	2.68	2.22
Winter Barley	15.5	76.8	37.3	8.7	2.69	2.42
Cereal Rye	12.4	71.9	37.7	8.1	2.90	2.22



The pictures above show one field in late February (left) and at forage harvest in mid-May (right) taken from opposite ends of the field. The plot being mowed on the right is wheat, and the brown adjacent strip was oats.

TRIAL DETAILS

Planting date: 9/12/17

Fertility: 5,000 gallons dairy slurry manure per acre applied at planting, and 5,000 gallons dairy slurry manure applied again at spring green-up.

Harvest: 5/16/18

Crop Rotation: Cereal grains were no-till planted following corn silage harvest. Soybeans (Group 2.3) were no-till planted immediately following cereal grain harvest on 5/18/18. Weeds and cereal grain crops were successfully terminated with a mixture of glyphosate and Sharpen® prior to soybean emergence.

Cereal Grain Treatments:

1. Pro Leaf Oats (80 lbs/A)
2. Triticale Plus (75% Fall Triticale and 25% Italian Ryegrass) (75 lbs/A)
3. Byron Seeds Fall Triticale (125 lbs/A)
4. Pro 200 Wheat (125 lbs/A)
5. Paramount P-919 Winter Barley (100 lbs/A)
6. VNS Cereal Rye (125 lbs/A)
7. Control (No Crop)

Growing season conditions:

Early fall was warm and dry, followed by cool and wet fall and spring. Pro Leaf Oats did not survive the winter, so were not included in the analysis.





2019 Michigan Bull Breeding Soundness Exam Clinics

The MSU Beef Extension Team will once again be organizing regional Bull Breeding Soundness Exam Clinics. By identifying potential male fertility problems, producers are able to reduce the risk of a less than optimum breeding season. The MSUE Beef Team encourages you to have BSE conducted on your breeding bulls every year. Contact your veterinarian or take advantage of the following Breeding Soundness Exam Clinics organized by MSUE. Cost is \$60 per bull when done at one of the MSUE clinics. **To schedule an appointment at one of these BSE clinics, please call the appropriate contact person as soon as possible.** All Clinics start at 9:00 a.m. unless otherwise noted.

The MSU College of Veterinary Medicine regularly schedules in house appointments for BSEs. To schedule an appointment, contact the MSU CVM Large Animal Clinic at 517-353-9710.

Location: Gary Voogt Farm 2831 Hayes St. Marne, MI
Date: Friday, March 8, 2019
Contact: Kevin Gould @ 616-527-5357 or Gary Voogt @ 616-862-4158
Dr. John Schelling and Dr. Jackie Ponstein West Michigan Vet Services

Location: MSU Beef Expo, MSU Pavilion, East Lansing MI
Date: Thursday March 28, 2019 from 1-4 PM
Contact: Dr. Jen Roberts @ 517-355-9593

Location: MSU Lake City Experiment Station, 5401 W. Jennings Rd, Lake City, MI
Date: Friday, April 12th, 2019
Contact: Kable Thurlow @ 989-426-7741 or thurlowk@msu.edu

Location: Breault Beef Farm, 868 Hoffman Road, Gladwin MI
Date: Friday, April 19, 2019
Contact: Kable Thurlow @ 989-426-7741 or thurlowk@msu.edu

Location: Wernette Cattle Company, 9144 50TH AVE, Remus MI
Date: Saturday, April 13, 2019
Contact: Kevin Gould @ 616-527-5357 or Dr. Kevin Todd 231-832-3680 Country Vet.

Location: West Branch Stockyards, 1673 Fairview Road, West Branch, MI
Date: Saturday, April 27th, 2019
Contact: Phil Durst @ 989-387-5346 or Dr. Angel Abuelo 517-355-9593

Join forage producers, graziers, custom forage harvesters, agribusinesses, MSU Extension Specialists and Educators for this annual conference and trade show.

Sponsored by the Michigan Forage Council, NC SARE and Michigan State University Extension.



MSU is an affirmative-action, equal opportunity institution. Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, gender, religion, age, height, weight, disability, political beliefs, sexual orientation, marital status, family status or veteran status.

Accommodations for persons with disabilities may be requested by calling the local extension office one week prior to the event to ensure sufficient time to make arrangements.

To register go online to:
MSU Events Management
<https://events.anr.msu.edu/2019GLFGC/>

Pre-registration deadline is

Friday, March 1, 2019

All late registrations can
register at the door.

In 2019, the Michigan Forage Council will include, *with paid registration for non-members*, a 1-year membership into the Michigan Forage Council. MFC benefits include magazines, newsletters, and educational discounts.

If you do not have internet call:

Lapeer MSU Extension

1800 Imlay City Rd.

Lapeer, MI 48446

Phone: 810-667-0341

Fax: 810-667-0355

Attention: Tina House

Email: houset@msu.edu

Mixing Forages for Sustainability

Great Lakes Forage & Grazing Conference

March 5, 2019

Tuesday

AgroLiquid

3055 W. M-21

St. Johns, MI 48879

(1.5 miles W. of Old 127)

9:00 A.M. -- 4:00 P.M.

MICHIGAN STATE UNIVERSITY | Extension



Keynote Speaker:

Dr. Ray Smith University of Kentucky Professor & Forage Extension Specialist

Dr. Ray Smith has been the Forage Extension Specialist at the University of Kentucky since 2004 and was promoted to Extension Professor in 2010. He has an active extension and research program and is the lead faculty advisor for the UK Forage Variety testing program, the largest forage variety testing program in the country.

Dr. Smith is a native of Georgia and received his graduate degree in Agronomy and Plant Breeding at the University of Georgia. Ray has held a research, teaching and extension positions at the University of Manitoba, Canada. He was the Forage Extension Specialist at Virginia Tech from 2001-2004.

Dr. Smith's research focus is the establishment and maintenance of legumes in pastures, hay production, developing computer teaching models, grazing trials, and forage variety testing.

His current research projects include: evaluating forage varieties for grazing tolerance and yield, developing forage production systems, and pasture evaluation methods.

Conference Agenda:

9:00 - 9:45 Registration & Trade Show Open

10:00 Keynote Speaker: Dr. Ray Smith

"Combining Reduced Lignin Alfalfa with Cool Season Grasses"

11:00 MFC Mini Grant Results

- ♦ Grazing Residual Height Comparison, 1' vs 4" - Boyd Byelich
- ♦ Methods of Enhancing Summer Pasture Sods with Warm Season Annuals - Dick Divelbiss

11:20 Forage Research Update

Dr. Kim Cassida, MSU

Noon - Lunch

12:30 Michigan Forage Council

Annual Meeting

1:00 Keynote Speaker: Dr. Ray Smith

"Optimizing Pasture Grass Productivity"

1:45 Forage Spokesperson Contest

A showcase of Michigan forage producers vying for the opportunity to represent Michigan at the 2020 AFGC Conference.

2:30 Tradeshow Break

3:00 Hay Drying Techniques

Producer & Industry Panel Discussion

4:00 Adjourn

Registration:

Registration Information:

Michigan Forage Council members:
\$45.00

Non-members: \$60.00

Students: \$20.00

At the door registration **ADD \$10.00.**

(Lunch not guaranteed with late registration)

Pre-registration deadline

March 1, 2018

(covers all sessions, lunch, and breaks)

To register go to:

MSU ANR Events Management

<https://events.anr.msu.edu/2019GLFGC/>

Early registration deadline:

Friday, March 1, 2019

(Those without Internet call

Lapeer MSU Extension)

After March 1 all registrations will be at the door.

Accommodations for persons with disabilities or special diet restrictions may be requested by contacting the event contact two weeks prior to the start of the event. Requests received after this date will be honored whenever possible.

For questions about registration call:

Lapeer County MSU Extension

Attention: Tina House

Phone: 810-667-0341