



CFAES

OHIO STATE UNIVERSITY EXTENSION

Guernsey County Agriculture News

Winter 2023

Dear Friends,

I hope this winter is progressing well. In this newsletter are some upcoming trainings and programs you will find useful. Hope to see you at one of the many winter events. Stay safe and call if I can do anything for you!

Sincerely,

Clif Little

OSU Extension Guernsey County, Agriculture and Natural Resources

Hay Quality Matters

(by Clif Little, OSU Extension Educator ANR, Guernsey County. Originally published in the Farm and Dairy)

Even for the most efficient livestock producers it is difficult and some years impossible to rely solely on pasture to carry livestock through the winter. As pasture supplies dwindle our primary feed source becomes hay. Winter feed costs can account for the highest segment of annual cost associated with grazing animals. Hay quality can greatly affect cattle reproductive performance, body condition, calf health, and milk production. Individual animal needs vary based on their stage of production, body size, and environmental conditions. To formulate our best winter feed plan, we need to first consider our livestock needs, and how to utilize the forage on hand to get through the winter.

Livestock producers, goal should be to match animal requirements to forage quality as best we can, while monitoring animal body condition through the winter months. As fall begins the cows should be in good body condition (BCS) and score approximately 5. In the fall we have favorable environmental conditions, and the

spring calving cow is in mid-gestation. If we know our hay quality, we will feed our lower quality hay first, since the cow will have the lowest nutrient requirements at this time. The best way to evaluate forage quality is to have the hay nutritionally analyzed. Your local extension educator can help you find forage testing laboratories. The onset of winter requires better quality forage for the cow to deal with cold stress. In addition, our best quality forage is needed the last 30 days of pregnancy through breeding season. The highest nutritional demands are during peak lactation. When comparing energy requirements for beef cattle, requirements nearly double from mid-gestation to peak lactation. Late cut mixed grass hay is most often deficient in energy and can be marginal in protein content as well. It may be necessary to consider feed supplements in addition to the hay as cattle proceed into the winter months. It is also important for cattle to receive trace-mineral supplementation year-round. Consider how forage quality changes in the chart below.

Table 1. Forage Samples taken from a hay field 2013

Sample	Date	CP%	ADF%	NDF%	TDN%	RFV	Lbs.DM/A
1	5/6/13	27.1	28.8	52.0	62	119	1904
2	5/13/13	24.3	30.9	55.9	60	104	3657
3	5/20/13	20.1	34.1	63.7	59	91	4559
4	5/27/13	15.8	36.7	58.2	61	96	6917
5	6/3/13	13.4	39.0	65.2	57	84	7106
6	6/10/13	7.4	42.6	68.0	54	76	7407

The values above are presented on a dry matter basis (DM). The data set source is from Mark Landefeld retired OSU Extension Educator. The date represents the time of first cutting.

Crude Protein (CP)- is calculated from the nitrogen content of the forage. The CP content is important since protein contributes some energy and provides essential amino acids for rumen microbes as well as the animal.

Acid Detergent Fiber (ADF)- ADF is primarily composed of lignin and cellulose. ADF represents the portion of hay that doesn't dissolve in an acid detergent solution. It has a strong (negative) relationship with total forage digestibility. As ADF increases, forage quality declines.

Neutral Detergent Fiber (NDF)- consists of the slowly digested fibrous portion of the plant: hemicellulose, cellulose, and lignin, which is most of the cell wall. As the total dietary NDF level increases, forage intake tends to decline.

Total Digestible Nutrients (TDN)- is calculated from ADF and estimates the portion of forage that can be digested by cattle. TDN is the sum of digestible CP, digestible fat, digestible non-structural carbohydrates, and digestible NDF.

Relative Feed Value (RFV)- Relative feed value combines the nutritional factors of intake and digestibility. It has no units, but the index allows for forage comparisons. Relative feed value is most often utilized in differentiating forage value.

The forage tests above were taken on one farm, same general location, in Eastern Ohio and they illustrate how a cool season mixed grass stand with legume can change in nutritional quality and dry matter (DM) yield as that stand becomes reproductively mature. As a livestock producer harvesting hay on a timely basis greatly affects forage quality. The chart above illustrates that even within the same field and same basic forage content the ability of this forage to meet the nutritional requirements of beef cattle changes dramatically from May to June. For example, a 1250 lb. beef cow near calving fed hay number 6 would be expected to lose almost 1 BCS in as little as 51 days. That same cow fed hay source number 3 would take 2 times longer to lose one BCS. Forage quality affects farm profitability, animal productivity, and animal health. If you have made your first cutting in June, you may need to provide additional feed supplementation. Evaluate your forage quality to know where your animal production is headed.



PESTICIDE APPLICATOR EXAM OFFERED MARCH 2023

A pesticide applicator exam will be offered on March 28, 2023, starting at 9:00 AM, at the Guernsey County Extension Office in Old Washington. To obtain a Private Pesticide Applicator License, individuals must pass the exam which is administered by the Ohio Department of Agriculture. Those who wish to use Restricted Use Products must acquire an applicators license to purchase and apply product. OSU Extension can help in providing training materials for the private exam. For training materials please contact me far in advance of the exam as some materials may not be immediately available. To register for the exam, you must go to the Ohio Department of Agriculture exam registration web site. Seating is limited.

<https://www.planthealthrenewal.agri.ohio.gov/apps/PesticideExamRegistration>

CFAES



#1 7AN580 GAR HOME TOWN

#2 7AN528 DEER VALLEY GROWTH FUND

4 OF THE TOP 5 ANGUS SIRES FOR REGISTRATIONS *in 2022*

DATE:

February 16, 2023

TIME:

5:30 p.m.

LOCATION:

Bear's Den Steakhouse
13320 E. Pike Rd.
Cambridge, OH 43725



**THE OHIO STATE
UNIVERSITY**

EXTENSION

**Join us for a meal and an educational
program on:**

**Synchronization
Programs
Technician Services
Genetics
Marketing**

Featured speaker will be Wayne Shriver.

Door Prizes

REGISTRATION: Please register for this event by calling the Guernsey County
Extension Office at 740-489-5300 no later than February 9, 2023. **50 SEAT LIMIT.**

Featured Members and Guests:

Dr. Ed Rayburn

Retired Forage Professor, WVU Extension

Jason Jones

Ohio Pheasants and Quail Forever

Dr. Marília Chiavegato

Assistant Professor - Agroecosystem Management
for Food System Resilience

Chelsie Y. Rodriguez

Alexandre Mammama

Cassie Stachler

Andy Fadorsen

Beef Producer- Quaker City, Ohio

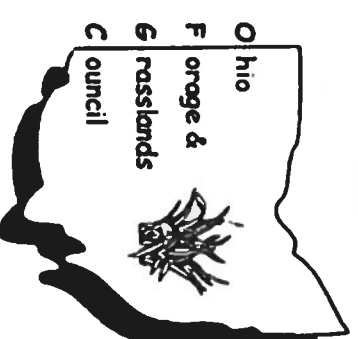
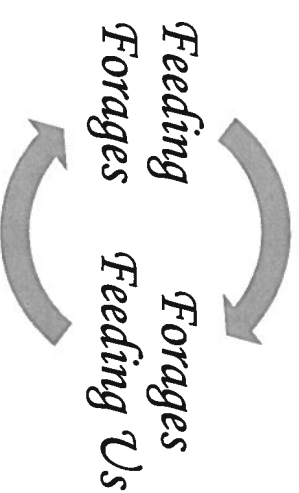
Stuart Heavilin

Sheep Producer- Cadiz, Ohio

Devin Cain

Dairy Producer- Belmont, Ohio

Ohio Forage and Grasslands Council Annual Meeting



February 17, 2023

Deerassic Park Education Center
14250 Cadiz Road
Cambridge, Ohio 43725

<https://ohioforage.com/>

Registration for Conference:

Names(s) of Attendees:

Address:

Phone:

Email:

Event Cost:

\$40/person for OFGC Members

\$75/person includes Membership

Conference Fee Includes:

Registration, Vendor Show and Meals

Membership Cost: \$35 per farm

Please make checks payable to:

Ohio Forage and Grassland Council

Send registration by February 10 to:

Ohio Forage and Grassland Council

c/o Gary Wilson, Executive Sec

20540 Twp Road 62, Jenera, OH 45841

Or, Register Online at:

<https://ohioforage.com/>

Morning Program

8:30 am

Registration and Refreshments

9:00 am

Welcome and Opening Remarks

Jason Hartschuh- OFGC President

9:15 am

Fertility on a Budget

Dr. Ed Rayburn

10:15 am

Break and Meet with Vendors

10:30 am

Pasture & Upland Bird Habitat Relationships

Jason Jones- Pheasants & Quail Forever

11:00 am

Ohio State University Forage Research Update

Dr. Marilia Chiavegato- Assistant Professor -

Agroecosystem Management for Food System Resilience

Cheisie Y. Rodriguez- Forage Yield Change with Help of the

Unknown

Alexandre Mammana- Importance of Grazing

Management for Native Warm Season Herbage Quality

Cassie Stachler- How Does Grazing on Flooded Pastures

Affect Greenhouse Gas Emissions

11:30 am

Producer Talk – Beef

Andy Fadorsen

12:00 – 1:00 pm

Lunch – Meet with Vendors

Afternoon Program

1:00 pm

OFGC Business Meeting and Awards

1:30 pm

Producer Talk – Dairy & Stored Forages

Devin Cain

2:00 pm

Producer Talk – Sheep & Goats

Stuart Heavilin

2:30 pm

Hot Topics in Forages

3:00 pm

Adjourn

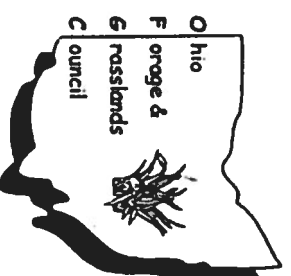
Have a safe trip home!

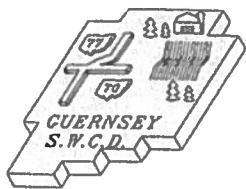
For Questions/Comments Contact:

Gary Wilson

(419) 348 – 3500

osuaqman@gmail.com





2023 GUERNSEY SWCD TREE SALE

ORDERS DUE BY: MARCH 10TH
AT NOON

CASH & CHECK ACCEPTED.
PLEASE MAKE CHECKS
PAYABLE TO GUERNSEY SWCD
PAYMENT IS DUE WITH ORDER
FORMS. ALL SALES ARE FINAL

TREE (# PER PACKET & SIZE)	QTY	PRICE	TOTAL
5 - 18-30" American Plum		\$10	
5 - 12-15" American Persimmon		\$10	
2 - 2-yr Honeycrisp/Golden Delicious Pair		\$25	
1 - 2-yr Bellaire Peach		\$12	
10 - 6-10" Eastern White Pine		\$10	
10 - 1-2ft Douglas Fir		\$10	
5 - 4-8" White Oak		\$8	
5 - 1-2ft Red Oak		\$10	
5 - 12-15" Chestnut Oak		\$10	
5 - 1-2ft Sugar Maple		\$10	
5 - 2-3ft American Hazelnut		\$12	
5 - 8-10" Shagbark Hickory		\$10	
5 - 18-24" American Sweetgum		\$10	
5 - 6-8" Red Mulberry		\$8	
5 - 5-10" American Chestnut Hybrid		\$20	
5 - 5ft Tree Shelter		\$15	
20 Fertilizer Tablets		\$5	

YOUR NAME: _____

TOTAL AMOUNT \$: _____

ADDRESS: _____

PLEASE SEND ORDERS & PAYMENT TO:
GUERNSEY SWCD P.O. BOX 310
OLD WASHINGTON, OH 43768

PHONE NUMBER: _____

THANK YOU FOR PURCHASING FROM OUR ANNUAL TREE SALE!
CALL WITH ANY QUESTIONS (740) 489-5276



Private Pesticide Applicator Re-Certification & Fertilizer Re-Certification Sessions

The Guernsey and Noble County OSU Extension office will be hosting pesticide and fertilizer re-certification sessions **January 26th**. Pesticide recertification sessions will cover 3 credit hours for Private applicators in Categories (Core, 1, 2, 3, 6) and 1 hour credit for Fertilizer Re-certification (Category 15).

Fertilizer re-certification starting at 5 pm, and pesticide re-certification starting at 6 pm. Classes will be held at the Deerassic Park Education Center, 14250 Cadiz Rd., Cambridge, OH 43793.

To register please call the Guernsey county Extension office at 740-489-5300.

You may attend re-certification at any location in the state of Ohio. Additional times and locations around the region can be found at: <https://pested.osu.edu/privaterecertification>.

Please bring your license to re-certification.

If you have questions regarding your license, contact the Ohio Department of Agriculture (ODA) at 1-800-282-1955. Call the Extension Office at 489-5300 if you have questions concerning re-certification.



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

Guernsey County Extension

PO Box 300

Old Washington, Ohio 43768