



**University of  
Maryland Extension**

**Baltimore County**  
1114 Shawan Rd.  
Cockeysville, MD 21030  
(410) 887-8090  
M–F 8:00 a.m.—4:30 p.m.

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**February 2022**



## BRINGING THE FARM TO SCHOOL: A TRAINING FOR AGRICULTURAL PRODUCERS

*want to learn how to sell to schools? Come and attend these FREE workshops.*

### Hyatt Regency-Cambridge Workshop

Date: February 25, 2022

Time: 10:00am- 2:30pm

Register: <https://f2straining.eventbrite.com/>

### Virtual Workshop

Date: March 1, 2022

Time: 1:00pm- 4:30pm

Register: <https://go.umd.edu/farm2schooltraining>

For more information, contact

Haley Sater at 763-486-5307

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UNIVERSITY OF  
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EXTENSION

*Registration is REQUIRED*



Educating People To Help Themselves

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## Maryland Beginning Farmer Success Course

*A course designed for those who are considering or in the beginning stages of starting a farm as a business.*

**EXPLORE** topics that will cover business planning, marketing, crop production, livestock husbandry, soil health, pest management, food safety, and more! Two course textbooks will be used along with supplementary readings and videos.

**MEET** with fellows on Thursday evenings from 7pm to 8:30pm from February 10th through April 7th. The first and last class will meet in person and the remainder of the classes will meet online via Zoom.

**IMPLEMENT** your knowledge by actively engaging with participants and instructors so you will be prepared to launch your business.

**REGISTER** here at [go.umd.edu/bfs2022](https://go.umd.edu/bfs2022). For more information contact Neith Little at [nlittle@umd.edu](mailto:nlittle@umd.edu)

## Nutrient Management Voucher Training

**February 16, 2022 • 9:00am—11:00am**

Nutrient management vouchers are required for anyone applying fertilizer (synthetic or organic) or manure on their farm. Vouchers are valid for three years. In order to renew, you must attend a two-hour training course. A two-hour training course for nutrient management vouchers will be offered at the Baltimore County Extension office on February 16 from 9-11 a.m. This class is free, but please register ahead by calling (410) 887-8090 or email [ecrowl@umd.edu](mailto:ecrowl@umd.edu)

## Annual Implementation Report Help Day

**February 16, 2022 • 1:00pm—3:00pm**

If you would like help with completing your annual implementation report (AIR) from MDA, we are hosting a help session from **1-3 p.m. on February 23** at the Baltimore County Extension office. Please sign up ahead of time by calling (410) 887-8090 or email [ecrowl@umd.edu](mailto:ecrowl@umd.edu).

Please bring your current nutrient management plan and any 2021 fertilizer receipts/records (including manure and manure analysis) in order to complete the AIR.

## Private Pesticide Applicator Exam

**Date:** March 10th

**Time:** 9:00am-11:00am

**Location:** Baltimore County Ag Center  
1114 Shawan Rd., Cockeysville, MD 21030

**To register,** call the office at 410-887-8090

Visit <https://go.umd.edu/pesticideapplicatortraining> to check out the online training modules.

## MD Farm Bureau Virtual Day in Annapolis

**February 9, 2022 • 7:30am**

Maryland Farm Bureau depends on champion advocates like you to stand up for policies that affect agriculture in our state. Whether you are a leader or just getting started in Farm Bureau, you can raise your voice to influence policies impacting agriculture. Meeting with your legislators is by far the most effective means of conveying your message. Join us for a briefing on bills that have an impact on the agriculture community and learn what you need to know when communicating with those that represent you in Annapolis.

For this event we will be pre-assigning breakout rooms to all participants so you can communicate with your respective elected official. We highly recommend the following instructions to enhance your experience the day of:

1. Register\* to the event with the email associated with your zoom account.
2. If you do not have a zoom account, create a free account here in 2 clicks: <https://zoom.us/signup>

### Agenda:

7:30 a.m. - Welcome & Briefing, Colby Ferguson, Director of Government & Public Relations  
8:20 a.m. - BREAK  
8:30 a.m. - Breakout Sessions with Elected Officials by District  
9:30 a.m. - Adjourn

**Register** here by February 4th  
<https://go.umd.edu/mdfbannapolis>





## Women in Ag Conference Tea & Luncheon

**February 11, 2022 • 9:30am– 1pm**

You are cordially invited to join us for tea and a luncheon to celebrate 21 years of the 2022 MidAtlantic Women in Agriculture Conference hosted at the Queen Anne's County 4-H Park (100 Dulin Clark Rd., Centreville, MD).

We'll have speakers and panelists to discuss resiliency and farm stress management and social time with other women in agriculture from the region.

**Wear your best tea party hat to win a prize! Also, please bring your own favorite tea cup if you have one (no mugs allowed!).**

To Register: [go.umd.edu/2022WIAConference](https://go.umd.edu/2022WIAConference)

Please email Lee at [lbridgm@umd.edu](mailto:lbridgm@umd.edu) or call 410-758-0166 if you have any questions.

## Virtual Winter Production Meetings

Unable to attend our in-person winter production meetings? UME will be hosting several Statewide virtual meetings. The meetings will serve as recertification for Maryland private pesticide applicators, Maryland nutrient voucher, and offer recertification credits for Pennsylvania and Delaware pesticide applicators.

### Agronomy Meeting

February 3, 2022 | 10:00am-2:30pm

Register here: <https://go.umd.edu/virtualagronomymeeting>

### Vegetable Grower Meeting

February 8, 2022 | 3:30pm-8:30pm

Register here: <https://go.umd.edu/virtualvegetablemeeting>

### Fruit Grower Meeting

March 1, 2022 | 8:30am-12:30pm

Register here: <https://go.umd.edu/virtualfruitmeeting>



## ANNIE'S PROJECT

EMPOWERING WOMEN IN AGRICULTURE



Annie's Project is designed to empower women in agriculture, provide information in farm management and build local networks throughout the state. The target audience is women with a passion for business, agriculture and involvement in the farm operation. Project Topics cover the five areas of Risk Management – Production, Market, Financial, Legal Risk, Human Resources.

### Class Details

Wednesdays- February 16, 23, March 2, 16, 23, & 30

6:30pm– 8:30pm

Offered virtually through Zoom

\* will also have some reading and project assignments outside of the class time– 1 hour per week.

Annie's Project is approved for USDA FSA Borrower training. This includes classroom time and a workbook that will need to be completed. There is an additional \$100 charge for the FSA portion.

Register at <https://go.umd.edu/2022AnniesProject>



## Taste of Maryland Agriculture

**March 3, 2022 • 6:30pm**

**Location:** Live! Casino & Hotel Maryland at Arundel Mills

**Cost:** \$100 by 2/11/2022; late registration is \$125

The 52nd annual Taste of Maryland Agriculture celebration is the State's premier event bringing agricultural leaders together with State and National legislators.

The mission of this event is to promote agriculture and educate lawmakers about its importance to every citizen to Maryland. They learn directly from you– the producers and supports of Maryland agricultural products and businesses.

The event will be filled with a bounty of Maryland agricultural products served throughout the evening with heavy hors d'oeuvre buffets and tastings from the State's beer, wine, and spirit supporters.

Register: [www.mdagcouncil.com](http://www.mdagcouncil.com)





## Sequestering Carbon: What to Think About With Carbon Contracts

Paul Goeringer, University of Maryland, ALEI

Carbon contracts are becoming a topic again for many agricultural producers around the country. As we will discuss, there are several legal considerations when deciding if such an agreement fits your needs. At the same time, please keep in mind that this is a developing area with several unknowns regarding how these agreements work. Producers should seek qualified legal advice before signing any contract.

### Basic Terminology

Before discussing contracts, let's look at some basic terms. **Carbon credits** are produced when a business or person reduces carbon dioxide or other greenhouse gas (GHGs). **Carbon offsets** occur when a person purchases carbon credits to offset their carbon emissions. An airline may buy carbon credits, for example, to offset carbon emissions from the airline's planes.

Other terms to keep in mind related to carbon credits would be the difference between an aggregator and data manager. An **aggregator** is an individual or company pooling together agricultural operations utilizing carbon-sequestering practices. A producer sells carbon credits to the aggregator based on the terms in the contract. A **data manager** is an individual a producer may work with to enter the marketplace to sell carbon credits. Working with a data manager allows the producer to control when to sell carbon credits.

The other definition to keep in mind is **verification**. Verification is the process of evaluating the amount of greenhouse gas emissions sequestered or reduced based on implementing the new practices. In many contracts, a third-party verifier will conduct this process.

### Contract Considerations

Keep in mind that currently, there are very few rules and regulations in place to protect either party in this developing market. It is, in many cases, the wild west; producers should pay attention to contract terms, ask questions when a term does not make sense, and seek legal advice from an attorney. Before entering into a contract, make sure you understand the key terms and get it reviewed, if possible, by your own attorney.

You must also understand what such a contract will be paying for; it only pays for adopting new conservation practices that would sequester carbon, and it will not pay for continuing existing practices on the agricultural land. If you are already utilizing no-till on your farm, for example, other practices would need to be added in order to qualify for the carbon credits. If you are looking to be paid for existing practices, then you would need to work with the company to get paid for those practices.

Carbon contracts also typically prevent you from double-enrolling acres in other programs. This usually means that the practices you are adopting are not already required under the terms of another program or contract. For example, if you have enrolled cropland in the Conservation Reserve Program, you potentially would be ineligible for a carbon contract. Again, this is something to make the company aware of early in the negotiations.

Payments will be based on a dollar amount per the CO<sub>2</sub> equivalent (CO<sub>2</sub>e) per metric ton sequestered. Companies may with-

hold a portion of the payment representing a natural buffer for carbon that could potentially be lost from the soil based on a natural loss rate. For example, if the contract includes a withholding amount of 20 percent, then any payment would be reduced by 20 percent for that withholding factor. If the company is offering \$15/metric ton of CO<sub>2</sub>e, then the payment per metric ton would be \$12/metric ton after considering the withholding factor.

Keep in mind that the contract may specify additional fees to reduce the payment rate further. For example, producers may have to pay a fee for third-party verification costs or soil sampling, although in some cases, these might be covered by the company. Producers should pay attention to additional costs which could further reduce the payment rate. For more information on how payments flow through these carbon programs, please see, Plastina, Alejandro, [How do Data and Payments Flow through Ag Carbon Programs](#) (A1-77, 2021).

Some contracts may provide an annual payment, while others only provide payments at the end of each verification period. If the contract is for ten years with a verification period every five years, for example, the producer would be paid after each of the two verification periods.

Keep in mind the contract will contain provisions laying out penalties when practices cannot be implemented. For example, if the weather prevents planting cover crops on the farmland, the contract's penalties may apply. The contract may also contain penalties if carbon is released during the contract. This release may be the fault of the producer or by accident, but it is essential to understand what the penalties are and how they would be applied depending on the situation.

Another issue to be clear on is what currency you will be paid in. From looking at sources, these contracts may specify that you get paid in U.S. dollars, cryptocurrency, or credits towards future purchases. Make sure the form of payment will work for you.

Also, keep in mind data ownership issues. Carbon contracts require the producer to provide data at various intervals. This data could include soil samples and production records to help verify that the producer is adopting the practices needed. The producer needs to understand who will access the data provided and how the data will be maintained securely. Verifiers will utilize the data in the verification process to determine if the amount of carbon sequestered is based on the agreed practices being employed.

Understand how the contract will impact your land title and any ability to sell the property. In some cases, these contracts place restrictive covenants or liens on the property to make a future buyer aware of the carbon contract on the property. It's worth paying attention to what restrictions might be placed on the property which could impact its sale.

### Wrap Up

As we see more and more interest in these carbon contracts, it's worth paying attention to the terms, asking questions of the companies presenting contracts, and seeking independent legal advice. Understanding the terms of the contract can help limit future disputes and allow you to negotiate a better agreement.





## Enlist Herbicide Re-Registration: Quick Facts



Dr. John Wallace and Dwight Lingenfelter, Penn State

Just when you think you have most of the details for the upcoming growing season figured out, new information about certain herbicide labels continues to change. On January 11, 2022, the U.S. Environmental Protection Agency (EPA) completed the registration amendment process for Enlist One and Enlist Duo herbicides from Corteva. Many of the updates are related to mitigation of negative impacts on endangered species. Some initial use updates of these products follow.

- One of the major changes surrounds Enlist One or Duo application timing to the crop. Application timing to soybean will be from after soybean **emergence through the R1 growth stage** (beginning flowering). It originally was through R2 (full flowering) but now it is similar to glufosinate (Liberty) and dicamba application timing. A main reason for this timing change is to protect pollinators such as honeybees.
- Another application parameter deals with potential herbicide runoff if soils are too wet. Therefore, **no applications are permitted if rainfall is expected within 48 hours or when soils are fully saturated**. In addition, land managers can use a "pick list" of runoff mitigation measures that allow for more flexibility to not only better suit the situation but also reduce concentrations of 2,4-D and glyphosate that might runoff and cause negative effects to surrounding areas.

More than **100 new spray nozzles** have been tested and added to the qualified nozzle list. Refer to the [Enlist web-site](#) for more detail on what nozzles can be used for either Enlist One or Enlist Duo.

Some of the more shocking news is related to the prohibition of Enlist Duo in certain Pennsylvania counties. **Enlist Duo cannot be applied** in the following Pennsylvania counties – Adams, Berks, Chester, Cumberland, Lancaster, Lebanon, and York. However, **Enlist One can currently be applied to Enlist E3 soybean anywhere in PA** and does not have any application restrictions by county in the state. Also, glyphosate can be tank-mixed with Enlist One in these settings.

## Cultivating Conservation Program

Shannon Dill, University of Maryland Extension

**Check out the Cultivating Conservation Workshop Series. Offered in-person from January to June in 2022 around the State of MD and DE. They are FREE and open to all!**

Federal programs can be complex to navigate, especially for beginning farmers or individuals who have not established a relationship with the sponsoring agency. "Cultivating Conservation for Maryland and Delaware's Small and Historically Underserved Farmers" will target historically underserved groups to increase their knowledge of conservation practices and programs. The course will cover an overview of conservation practices, available conservation programs provided by Natural Resource Conservation Service (NRCS) and other agencies, understanding of application processes, eligibility, and contractual agreements, and how conservation projects can fit into an overall farm plan.

The University of Maryland Extension and Agriculture Law Education Initiative team, in cooperation with University of Delaware Extension, Maryland and Delaware NRCS, and Soil Conservation District field offices, will deliver education and outreach through classroom and hands-on experiences and tours of conservation offices.

The program will provide six hours of classroom instruction and will occur during evenings or weekends. It is free and open to anyone interested in adopting conservation practices on their farm. Meals and handouts are included. To register visit <https://go.umd.edu/bfsconservation>.

### Locations

#### Lower Eastern Shore Maryland

January 18, 25 and February 1, 2022

6:00pm - 8:00pm

Somerset Extension Office, 30730 Park Dr, Princess Anne, MD 21853

Children welcome, activities for ages 5+

#### Baltimore City

March 12, 2022

9:00am - 3:00pm

Baltimore City Extension Office, 6615 Reisterstown Road, Suite 201, Baltimore, MD 21215

#### New Castle County, Delaware

March 22 and 24, 2022

5:30pm - 8:30pm

New Castle County Extension Office, 461 Wyoming Road, Newark, DE 19716

#### Southern Maryland

June 9 and 23, 2022

6:00pm - 9:00pm

Charles Soil Conservation District Office, 4200 Gardiner Rd, Waldorf, MD 20601

*This project is funded through the NRCS Conservation Innovation Grant. The program is open to all.*

# UNIVERSITY OF MARYLAND EXTENSION

University of Maryland Extension  
Baltimore County Office  
1114 Shawan Rd., Suite 2  
Cockeysville, MD 21030

## Start your Nutrient Management Planning Now!

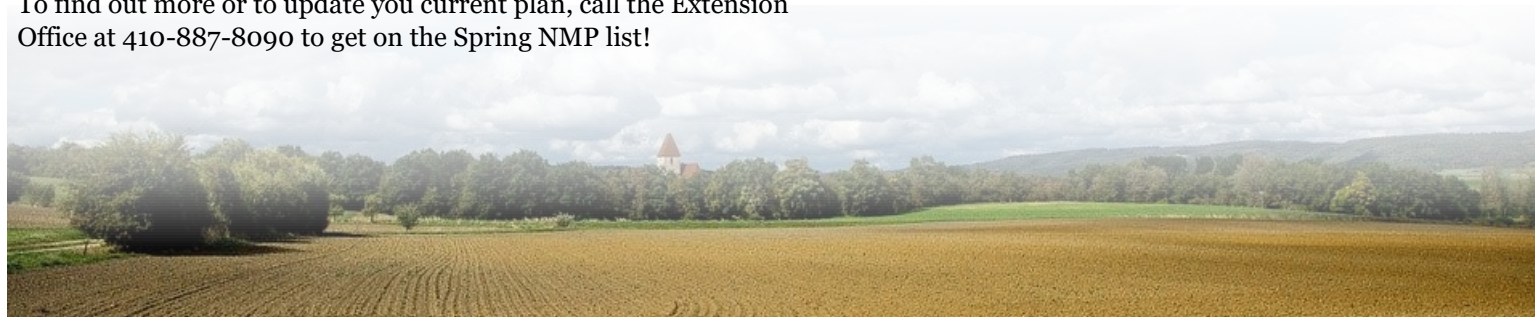
Maryland Department of Agriculture Regulations require any farmer or operator who has 8 or more animal units and/ or grosses \$2,500 or more annually on their operation to have a Nutrient Management Plan. The University of Maryland offers a free plan writing service throughout the State.

What will you need?

- Soil Analysis for each field
- Manure Analysis if you plan to spread any manure.
- Crop rotation plan
- Animal unit head count

To find out more or to update your current plan, call the Extension Office at 410-887-8090 to get on the Spring NMP list!

## Check out these additional online resources

[Agronomy News](#)[Ag Marketing](#)[Ag Law Initiative](#)[Extension Website](#)[Fruit & Vegetable News](#)[Nutrient Management](#)[Sheep & Goat Newslet-](#)[Women in Ag](#)

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