



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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August 2021

Maryland Horse Industry Board Accepting 2022 Grant Applications

MDA [press release](#)

The Maryland Horse Industry Board (MHIB), a program within the Maryland Department of Agriculture, will begin accepting grant applications on August 1, 2021, for research, educational, and promotional projects that support horses, strengthen the equestrian community, and/or develop new opportunities for the Maryland horse industry. The deadline to apply is October 4, 2021.

“Horses are a critical economic driver in Maryland and an important part of our agriculture industry,” said Agriculture Secretary Joe Bartenfelder. “The equine sector alone adds an additional \$1.3 billion to the state’s economy and impacts more than 21,000 jobs. The grants provided by the Maryland Horse Industry Board ensure that our state remains a world-class equestrian epicenter for years to come.”

Projects will be evaluated for the quality of their written presentation; possible impact and value to the industry; feasibility of the project; financial need; and potential for matching funds. Grant requests should not exceed \$3,000. The average grant amount is approximately \$1,000. In 2021, 33 projects received a total of \$30,000 in grant allocations.

Applicants are strongly urged to read the [2022 grant guidelines](#) carefully. Proposals that are aligned with action items found in the [2019 Maryland Horse Forum Report](#) will be given strong consideration as well as applications that aim to enhance diversity and inclusion in the Maryland horse industry. Organizations eligi-

ble for grants include, but are not limited to, nonprofit organizations; clubs and associations; businesses; licensed farms and stables; schools and educational institutions; and government entities.

Grant recipients will be announced no later than January 1, 2022. Funding will be available after that date. Projects should be completed by June 30, 2022.

The MHIB was established in 1998 to promote and develop the equine industry in Maryland. Funding for these grants and for the MHIB is provided by the Maryland Feed Fund, which collects \$6 on every ton of horse feed sold in Maryland. Since the Maryland Feed Fund was established in 2002, the MHIB has awarded over \$500,000 in grants to nearly 400 projects throughout Maryland.

Visit the [MHIB website](#) to view the 2022 grant guidelines and grant applications. For more information, please contact the MHIB’s Executive Director Ross Peddicord at (240) 344-0000 or ross.peddicord@maryland.gov.



Educating People To Help Themselves

Local Governments • U.S. Department of Agriculture Cooperating

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IPM Diagnostics of Plant Disease & Insects Problems

August 18, 2021 • 12:30 pm– 3:00 pm

September 22, 2021 • 12:30 pm–3:00 pm

Join University of Maryland specialists, Karen Rane, Dave Clement, Andrew Ristvey, and Stanton Gill at the Central Maryland Research and Education Center, 11975 Homewood Rd., Ellicott City, MD. These sessions will be an interactive training sessions and all participants are encouraged to bring samples for diagnosis.

Cost: \$15.00 per session

Registration:

August 18th — <https://go.umd.edu/augustIPM>

Sept. 22nd— <https://go.umd.edu/SeptIPM>

Small Ruminant & Pasture Field Day

August 12, 2021 • 6:00 pm– 8:00 pm

The University of Maryland's Western Maryland Research & Education Center will host a Small Ruminant & Pasture Field Day on Thursday, August 12, from 4 to 7 pm. The event is free to attend, but pre-registration is requested by August 5. To register, go to <https://go.umd.edu/2021fieldday>.

Wagon tours will leave at 4:30 and 5:30 pm. Tour stops will include setting up a rotational grazing system, which forages to plant, managing seasonal fluctuations in forages, and an overview of the small ruminant research program. Refreshments will be available.

The research center is located at 18330 Keedysville Road, Keedysville, MD 21756. Sheep and goat research has been conducted there since 2004. This year's research project is a pasture supplementation study with Katahdin ram lambs. It is funded by the Maryland Grain Producers Utilization Board. A separate Katahdin Day will be held on September 27 at the Washington County Ag Center.

The field day is sponsored by University of Maryland Extension, Future Harvest CASA, Northeast SARE, and the Maryland Grazers Network. For more information about the field day or small ruminant (sheep and goat) programs, contact Susan Schoenian at (301) 432-2767 x343 or sschoen@umd.edu.



Equine Pasture Renovation Workshop

August 17, 2021 • 6:00 pm– 8:00 pm

Is your horse dreaming of greener pastures? Learn how to renovate and restore your pastures and make those dreams come true!

University of Maryland Extension experts and guests from Maryland Soil Conservation will discuss topics including:

- Preparing ground before seeding
- Selection of seed varieties
- Planting options
- Management after seeding

This "walking and talking" event will be held at our Equine Rotational Grazing Demonstration Site at 4241 Folly Quarter Road, Ellicott City, MD 21042. Join us at 6:00 pm to check in. The program will run until 8:00 pm. Dress for the weather and be prepared to walk around our fields!

\$10 Registration is required. Click [here](#) for details or go to <https://go.umd.edu/equine-pasture-renovation>. For more information, contact Jennifer Reynolds, (301) 405-1547.

MD Soybean Checkoff Research Field Day

August 11, 2021 • 2:30 pm– 8:00 pm

Maryland farmers and industry professionals are invited to join the Maryland Soybean Board on **August 11** at the Wye Research and Education Center (124 Wye Narrows Dr, Queenstown, MD 21658) to learn about checkoff-funded research out in the field and enjoy a snakehead fish fry and barbecue dinner. Research to be featured includes a spray drone demonstration, use of forage soybeans to control deer damage, evaluation of growth-promoting projects, variety trials, cover crops, and weed management. CEUs are available. Although this is a free event, pre-registration is encouraged: <https://msbfieldday2021.eventbrite.com>



Nutrient Management Update

If you are in need of a Fall 2021 Nutrient Management Plan please call the office at 410-887-8090 or send an e-mail to Erika Crowl at ecrowl@umd.edu.

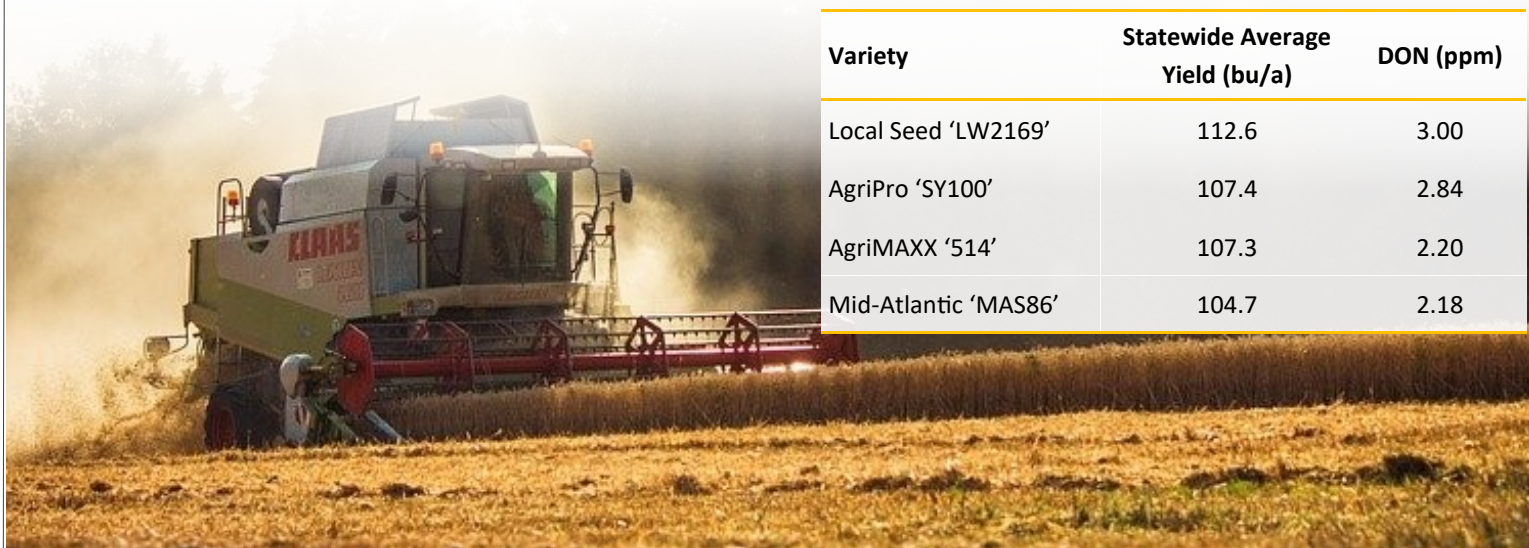
Small Grain Variety Trial Results



Andrew Kness, University of Maryland Extension

Results of the 2021 Maryland Wheat and Barley Variety Trials are now available. The trials evaluate wheat and barley yield, head scab/DON, and growth of select varieties planted across the state of Maryland. Data is used to help farmers and crop advisors select the best performing varieties. When picking varieties, remember to select varieties that have good yield stability and have good resistance to Fusarium head blight. Some of the top performers are in the table below.

An online copy of the report can be downloaded at <http://blog.umd.edu/agronomynews/2021/07/23/2021-maryland-small-grain-variety-trials/> or call the Extension office for a hard copy. For more information about how to interpret and apply variety trial data, consult this [fact sheet](#). For questions regarding the small grain trials, contact Dr. Vijay Tiwari (vktiware@umd.edu) or



Variety	Statewide Average Yield (bu/a)	DON (ppm)
Local Seed 'LW2169'	112.6	3.00
AgriPro 'SY100'	107.4	2.84
AgriMAXX '514'	107.3	2.20
Mid-Atlantic 'MAS86'	104.7	2.18

Harnessing Your Farm's Story to Build a Successful Farm Brand

A FREE webinar series for farmers to learn about strategies for successfully building a farm brand. The goal of this webinar series is to help farmers strengthen their farm marketing strategies by hearing from BIPOC farmers about their branding journeys and learning about the legalities of branding, digital marketing, and protecting intellectual property.

Speakers Include:

- Micheal Carter, Jr.— Director of Africulture, Carter Farms
- Doug Adams— New Brooklyn Farms
- Felice Hodge Denison—Farmer and CEO, Primo Noir, LLC
- Nicole Cook, Esq.—Senior Legal Specialist, University of Maryland Eastern Shore
- Xavier Brown— Farmer and Owner, Soilful City Farm
- Corinne Pouliquen, Esq.—Attorney, Berenato & White, LLC

Registration: <https://go.umd.edu/ALEIWebinarSeries>

Part 1: Agricultural Branding Strategies from BIPOC Farmers



August 4, 2021
6:00 - 7:30 PM

Part 2: Legal Considerations for Digital Marketing



August 11, 2021
6:00 - 7:30 PM

Part 3: Building & Protecting Your Intellectual Property



August 25, 2021
6:00 - 7:30 PM

Sunburn in Fruiting Vegetables

Gordon Johnson, University of Delaware

With the recent hot temperatures and more predicted, there is high potential for sunburn in fruits and fruiting vegetables. Growers may need to consider ways to protect against sunburn. Sunburn is most prevalent on days with high temperatures, clear skies and high light radiation. We commonly see sunburn in watermelons, tomatoes, peppers, eggplants, cucumbers, apples, strawberries, and brambles (raspberries and blackberries).



G Johnson, University of Delaware

Figure 1. Sunburn necrosis and photooxidative sunburn on pepper fruit. Note secondary disease infections on damaged tissue.

There are three types of sunburn which may have effects on the fruits. The first, **sunburn necrosis**, is where skin, peel, or fruit tissue dies on the sun exposed side of the fruit. Cell membrane integrity is lost in this type of sunburn and cells leak their contents. The critical fruit tissue temperature for sunburn necrosis varies. Research has shown that the fruit skin temperature threshold for sunburn necrosis is 100 to 104°F for cucumbers; 105 to 108°F for peppers, and 125 to 127°F for apples.

The second type of sunburn injury is **sunburn browning**. This sunburn does not cause tissue death but does cause loss of pigmentation resulting in a yellow, bronze, or brown spot on the sun exposed side of the fruit. Cells remain alive, cell membranes retain their integrity, cells do not leak, but pigments such as chlorophyll, carotenes, and xanthophylls are denatured or destroyed. This type of sunburn browning occurs at a temperature about 5°F lower than sunburn necrosis. Light is required for sunburn browning. Fruits may be marketable but will be a lower grade.

The third type of sunburn is **photooxidative sunburn**. This is where shaded fruit are suddenly exposed to sunlight as might occur with late pruning, after storms where leaf cover is suddenly lost, or when vines are turned in drive rows. In this type of sunburn, the fruits will become photobleached by the excess light because the fruit is not acclimatized to high light levels, and fruit tissue will die. This bleaching will occur at much lower fruit temperatures than the other types of sunburn. Damaged tissue is often white in color.

Genetics also play a role in sunburn. Varieties with darker colored fruit, those with more open canopies, and those with more open fruit clusters have higher risk of sunburn. Some varieties have other genetic properties that predispose them to sunburn; for example, some blackberries are more susceptible to UV light.

Control of sunburn in fruits starts with developing good leaf cover in the canopy to shade the fruit. Fruits most susceptible to sunburn will be those that are most exposed, especially in the afternoon. Anything that reduces canopy cover will increase sunburn, such as foliar diseases, wilting due to inadequate irrigation, and excessive or late pruning. Physiological leaf roll, common in some solanaceous crops such as tomato, can also increase sunburn.

In crops with large percentages of exposed fruits at risk of sunburn, fruits can be protected by artificial shading using shade cloth (10-30% shade). However, this is not practical for large acreages. For sunburn protection at a field scale, use of film spray-on materials can reduce or eliminate sunburn. These materials are kaolin clay based, calcium carbonate (lime) based, or talc based and leave a white particle film on the fruit (such as Surround, Screen Duo, Purshade and many others). There are also film products that protect fruits from sunburn but do not leave a white residue, such as Raynox. Apply these materials at the manufacturer's rates for sunburn protection. They may have to be reapplied after heavy rains or multiple overhead irrigation events.

While particle films have gained use in tree fruits, their usefulness in vegetables is still unclear. Research at UD and the UMD has shown reduced fruit disorders such as sunburn in peppers and white tissue in tomatoes when applied over those crops. Watermelon growers have used clay and lime-based products for many years to reduce sunburn in that crop in southern states.

There are some drawbacks to the use of particle films; there is added cost to wash or brush the material off at harvest. Where overhead irrigation is used, or during rainy weather, the material can be partially washed off of plants, reducing effectiveness and requiring additional applications. Buyers may also have standards relating to the use of particle films and may not accept products with visible residues.

Beef Cattle Webinar: Fall Pasture Management

August 5, 2021 • 7:30pm– 8:30pm

Join us for our new monthly beef cattle webinar series on the first Thursday of each month from 7:30-8:30 pm. During this session, we will discuss some things you can be doing this fall to enhance your pasture system.

This event is free, but you must register ahead of time in order to attend. Register online [here](#). If you have questions regarding this program, contact Sarah Potts, sbpotts@umd.edu.



Education • Tours • Vendors • and more!



The Mill's Crop Showcase is celebrating 11 years of education, demonstration and fellowship for farmers at our annual event. Learn from leading industry experts and hop on a wagon for a tour across the farm to get the inside scoop on the various products, applications and technologies being studied this year!

Mark your calendars for a fun, educational day!

Hereford Junior Farm Fair

August 7, 2021

9:00am – 4:00pm

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

UNIVERSITY OF MARYLAND EXTENSION

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

DATES TO REMEMBER

August 5 Beef Cattle Webinar Series: Fall Pasture Management. 7:30pm–8:30 pm. Free. Register [online](#)

August 7 Hereford Junior Farm Fair. 9:00am–4:00 pm. Free. Cockeysville, MD

August 11 Soybean Twilight Tour. 2:30pm–8:00pm. Queenstown, MD. Free. Register [online](#).

August 12 Small Ruminant & Pasture Field Day. 4:00pm–7:00pm. Keedysville, MD. Register [online](#).

August 17 Equine Pasture Renovation Field Day. 6:00pm–8:00pm. Ellicott City, MD. Cost:\$10. Register [online](#).

August 18 IPM Plant Diagnostics Field Day. 12:30 pm–3:00 pm. Ellicott City, MD. Cost:\$15. Register [online](#).

August 25 The Mill Crop Showcase. 7:30 am–1:00pm. White Hall, MD. FREE. Register by calling 800-993-3300

August 25 Women in Ag Webinar: Principles of Agronomy. 12pm. Free. Register [online](#).

**August 26–
Sept. 6** Maryland State Fair. Timonium, MD

Check out these additional online resources

[Agronomy News](#)

[Ag Marketing](#)

[Ag Law Initiative](#)

[Extension Website](#)

[Fruit & Vegetable News](#)

[Nutrient Management](#)

[Sheep & Goat Newsletter](#)

[Women in Ag](#)

Agriculture Agent

Erika Crowl
Extension Agent, Agriculture
ecrowl@umd.edu

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