



FARM NOTES

Summer 2015

In This Issue

Nutrient Management Certification Exam	1
Renew Pesticide Licenses, Permits & Certificates Online..	1
Mid-Atlantic Precision Ag Equipment Day	2
2015 Commercial Vegetable Recommendations EB236 ...	2
CC "Venturing Crew" Team Takes Top Honors	3
Foliar Lesions In Soybean Seedlings	4
RCRA & Clean Air Act Legal Developments	5
Palmer Amaranth & Waterhemp Control	5
Enrollment For 2016 Dairy Margin Protection July 1.....	6
The Hortman Show.....	7
New Economic Development Specialist for Carroll	7
Dates to Remember	8



NUTRIENT MANAGEMENT CERTIFICATION EXAM SCHEDULED FOR AUGUST 7

The Maryland Nutrient Management Certification Exam will be offered Friday, August 7, 2015 at MDA headquarters building, 50 Harry S. Truman Parkway, Annapolis. Individuals who provide nutrient recommendations, professionals who provide technical assistance or are engaged in the development of waste management systems, nursery personnel, and farmers interested in developing nutrient management plans for other farmers are encouraged to take the exam. The cost is \$50; however, government employees and farmers who have previously taken the exam are exempt from the certification fee. To register, contact the Maryland Department of Agriculture at 410.841.5959 or visit www.mda.maryland.gov. Click on Nutrient Management and follow the links to "training classes."

BUSINESSES CAN NOW RENEW PESTICIDE LICENSES, PERMITS & CERTIFICATES ONLINE

Businesses, public agencies and commercial applicators can now renew their pesticide licenses, permits or certificates [online](#) from any mobile or desktop device, 24 hours a day, through the Maryland Department of Agriculture (MDA) website. This online service also allows those renewing licenses to print their renewal certificates directly from a computer.

“We’ve put a lot of work into creating a system that makes pesticide renewal simpler,” said MDA Pesticide Regulation Program Manager Dennis Howard. “We hope that our customers will find the tools offered effective and convenient.”

Businesses renewing licenses can submit an online renewal application by entering the license number, type of business, and a code sent to them from MDA.

Along with renewals, consumers can search an online database for certified businesses, applicators and dealers of pesticides. Searches offered online also include information about pesticide renewal and recertification courses.

Renewals and database searches can be done here: <https://www.egov.maryland.gov/mda/pesticides>

Pesticide businesses and individual pesticide applicators are required by law to be trained and certified in proper handling, storage and use of pesticides to prevent accidents and promote safe usage. For more information about pesticide regulation and licensing visit http://mda.maryland.gov/plants-ests/pages/pesticide_regulation.aspx

MID-ATLANTIC PRECISION AG EQUIPMENT DAY

Wednesday, August 5, 2015
10:00 a.m. to 4:00 p.m.

Somerset County Civic Center
11828 Crisfield Ln
Princess Anne, MD 21853



Join us for the 2015 Mid-Atlantic Precision Agriculture Equipment Day to be held on the Lower Eastern Shore in Somerset County. Talks and equipment demonstrations related to precision agriculture technology and methods are planned and nutrient management credits will be available.

University of Maryland Extension in cooperation with Delaware Extension will be hosting this exciting event. The field day will provide an excellent opportunity for education and networking for agricultural professionals throughout the region.

Participants will have the opportunity to hear and interact personally with the top precision agriculture researchers in the country. We will have a midway for the booths and a test drive area where larger equipment can be displayed and there will be space for attendees to take equipment for a spin.

See more at: <https://extension.umd.edu/news/events/wed-2015-08-05-1000-2015-mid-atlantic-precision-agriculture-equipment-field-day#sthash.2uD0NyjF.dpuf>

2015 COMMERCIAL VEGETABLE PRODUCTION RECOMMENDATIONS EB-236

Here is the link to the latest edition of this great resource:

http://extension.umd.edu/sites/default/files/docs/programs/mdvegetables/2015_CommercialVegRecommend_MarylandBook.pdf

CARROLL COUNTY “VENTURING CREW” TEAM TAKES TOP HONORS AT MARYLAND ENVIROTHON;

Harford and Montgomery County Students Take Second, Third



A five-member team of students from Carroll County, named Venturing Crew 202, is the winner of the 25th annual Maryland Envirothon — an outdoor natural resources competition that challenges students to identify and categorize living resources, perform soil surveys and solve other complex natural resource issues. More than 89 challengers from 18 counties across Maryland took part in this year’s competition. The event was held June 17-18 at the St. Mary’s College of Maryland in St. Mary’s County.

“I am so impressed with all the students in this competition and the dedication and commitment they bring to their studies of our natural resources,” said

Agriculture Secretary Joe Bartenfelder. “This is not an easy competition and I congratulate all the students who participated, especially those on the Venturing Crew team. I know they will do Maryland proud at the national Envirothon.”

The five Carroll County students attend different high schools in the region. Team members are: Amy Donna Bittler, Sierra Fleming, Elliot Hirtle, Jeb Fleming, and Rebecca Gross. Venturing Crew 202 will represent Maryland at the 2015 North American Envirothon, scheduled for July 27-August 2 at Missouri State University. More than 250 teenagers from the United States and Canada are expected to compete for \$100,000 in scholarships and prizes.

The second place team is the Sprouts from Harford Christian School in Harford County. The third place team, named the Duck Fizzers, is from Montgomery Blair High School in Montgomery County.

The Maryland Envirothon is held once a year at an outdoor environmental education center. Students taking part in the competition study Maryland’s natural resources for a year in hopes of winning. Working in teams of five, students are trained and tested in four natural resource areas including soils, aquatics, forestry and wildlife plus an environmental issue that changes from year to year. This year’s special environmental issue was Urban Forestry. Each team’s knowledge, teamwork and problem-solving skills are tested and evaluated under the supervision of foresters, soil scientists and wildlife specialists.

At this year’s competition, the Venturing Crew from Carroll County scored 459 points out of a possible 500. They were followed by teams from Harford County (458 points), and Montgomery County (447 points) Members of the top three teams were awarded scholarships ranging from \$300 to \$1,000 through the Maryland Grain Producers Utilization Board Scholarship Program. In addition, winning team members received a wildlife print, Maryland Envirothon shirt and other prizes.

The Harford County team was the high scorer in the “Soils” category of the competition with a score of 93 points out of a possible 100. The Mid-Atlantic Association of Professional Soil Scientists (MAPSS) presented each member of the team with a cash award of \$50. In addition, the team received a print and gift cards.

Established in 1990, the Maryland Envirothon aims to test students’ environmental knowledge and understanding of state resource issues and to instill a desire to learn more about the natural world. More than 30 states, Canada and Australia send teams to the international competition.

The Maryland Envirothon is sponsored by the Maryland Association of Soil Conservation Districts and the State Soil Conservation Committee. Contributors and supporters include the Maryland Department of Agriculture, Maryland Department of Natural Resources, Maryland Department of Environment, the University of Maryland College of Agriculture and Natural Resources, Maryland Grain Producers Utilization Board, Maryland Agricultural Education Foundation, USDA Natural Resources Conservation Service, Garrett College-Natural Resources and Wildlife Technology Program, Maryland Soybean Board, Chaney Foundation LTD, New Page Corporation, Western Maryland Resource Conservation and Development Council, Inc., The Purkins Family, Mid-Atlantic Association of Professional Soil Scientists, Southern Maryland Resource Conservation & Development Board, Inc., AFSCME-Maryland and the Rural Maryland Council.

Maryland Envirothon <http://mdenvirothon.org/>

Source: news.maryland.gov/.../carroll-county-venturing-crew-team-tak

FOLIAR LESIONS IN SOYBEAN SEEDLINGS

June 19, 2015 in Agronomic Crops

Nathan Kleczewski, Extension Specialist – Plant Pathology; nkleczew@udel.edu

You may be seeing some spots and lesions on the unifoliates or first 1-2 trifoliates in full season soybeans. At first look you may think these look like Frogeye leaf spot (FLS) lesions. We have seen FLS early in no till fields of continuous beans in the past, and variety plays a big role in symptom development and expression. However, there are some chemicals that can cause similar looking symptoms in soybeans. Here are some clues that can help you determine if you are not dealing with FLS: 1) There an obvious pattern to the symptoms; 2) The entire field is affected; 3) Nearly all plants show symptoms of disease somewhat uniformly, it’s everywhere. If you really want to see if you have FLS, look at the undersides of the leaves. On the underside of leaves infected with FLS you will see dark spots and if you are lucky you may even see long, silvery spores with the aid of a hand lens. This makes the lesion look as if it has whiskers (Figure 1). Regardless, keep an eye on the field and see if the symptoms progress or stay the same.

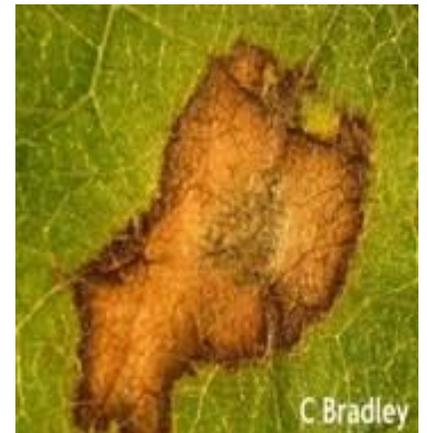


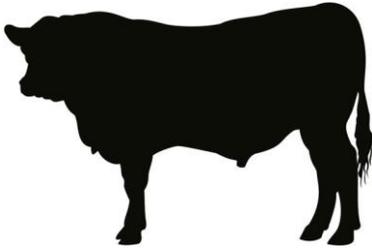
Figure 1. Closeup of Frogeye leaf spot lesion. Note purple boarder and grey/black mass at center of lesion. If viewed from the side, this black area will appear fuzzy or will have “whiskers.”

Figure 1

RECENT LEGAL DEVELOPMENTS WITH ANIMAL AGRICULTURE UNDER RCRA AND THE CLEAN AIR ACT

2015 has seen interesting development in legal issues related to livestock production. In January 2015, a federal district judge ruled that manure (stored or applied to a field) could become a solid waste under federal environmental laws. At the same time, a consortium of environmental and animal welfare groups filed a lawsuit against the EPA for failure to act on their petition to regulate ammonia gas releases from animal feeding operations. The law as it relates to these operations is currently in a state of flux.

On August 6th at noon (EST), Dr. Shannon Ferrell, Oklahoma associate professor of agricultural economics, Department of Agricultural Economics, Oklahoma State University, will discuss the implications of the Resource



Conservation and Recovery Act (RCRA) and Clean Air Act (CAA) on animal agriculture, recent litigation, and other legal issues.

This webinar is open to livestock producers, Extension educators, agricultural service professionals, and anyone else interested in learning more about the potential impacts of RCRA and the CAA on livestock operations. The webinar is free to attend. Signup is available at:

<https://livestockrcrawebinar.eventbrite.com>.

The webinar is sponsored by the [University of Maryland's Agriculture Law Education Initiative](#), [University of Maryland Extension Poultry](#), [DAIReXNT](#), the [Livestock and Poultry Environmental Learning Center](#), [Texas AgriLife Extension](#), and the [Northeast Extension Risk Management Education Center](#).

PALMER AMARANTH AND WATERHEMP SCOUTING AND CONTROL

Bill Curran and Dwight Lingenfelter
Penn State Extension Weed Science

Scout for Palmer amaranth and waterhemp now in full-season soybeans and anticipate for double-crop.

Hopefully everyone has Palmer amaranth and waterhemp on their radar. There is still time to ensure your soybean weed control programs worked by scouting those full season soybeans for escapes and by selecting effective herbicides to control weeds as we move into double-crop soybeans.

We have talked a great deal about these weeds over the last year and a half and most of our Palmer amaranth and waterhemp infestations have been particularly problematic in soybeans (both full season and double crop). Containing new infestations and preventing the spread is a critical first step to managing this new threat. Seeds collected from southeastern PA fields in the fall of 2013 were tested in a greenhouse assay and showed that all five populations were resistant to glyphosate and four of five were resistant to both glyphosate and the ALS inhibitors (Group 2). In soybean fields, it will become quite obvious when resistant plants appear above the soybean canopy, but you have to scout those fields to find these escapes.

Palmer and waterhemp in various growth stages on June 9, 2015 (Image by W. Curran).



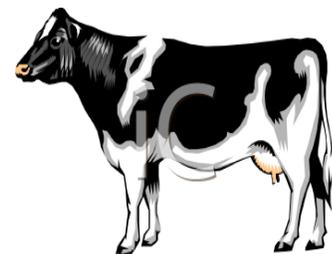
We have two trials in soybeans on a farm in Centre County that has both Palmer amaranth and waterhemp populations. The trials were planted no-till with Liberty Link soybeans around May 11. Liberty herbicide is an excellent tool for managing these pigweeds as well as other weeds such as maretail/horseweed. One trial focuses on PRE treatments and other is testing two-pass programs. We last rated both trials on June 19. Control in the PRE study ranged from 82 to 94% control. Most treatments including Prowl, metribuzin, Valor, Canopy, Dual, and Zidua were in the low to mid 80's. Combination products like Broadaxe (sulfentrazone + s-metolachlor), Authority MTZ (sulfentrazone + metribuzin), Sonic (sulfentrazone + cloransulam), and Fierce XLT (pyroxasulfone + flumiozazin + chlorimuron) provided 90% or better control. We broadcast Liberty herbicide over entire study on June 19 to ensure control of any escapes.

In the two-pass trial, the POST treatments were applied on June 12 when the pigweeds ranged from 0.5 to 6 inches tall. It is common to have multiple flushes of these weeds with varying sizes present in the field (see accompanying image). POST treatments included Reflex, Warrant, Zidua, Prefix, Sunchrony, Cobra, Ultra Blazer, Cadet, and Pursuit alone or in combination with Liberty. As of June 19, most of the treatments look good with greater than 90% control. The exception was Pursuit, which indicated we are dealing with ALS or Group 2 resistant pigweed. We will continue to monitor this site and report back on our final results. So, be sure you are scouting those full-season soybean fields now and double-crop soybean fields in the near future.

ENROLLMENT FOR 2016 DAIRY MARGIN PROTECTION PROGRAM BEGAN JULY 1

Agriculture Deputy Secretary Krysta Harden announced that starting July 1, 2015, dairy farmers can enroll in the U.S. Department of Agriculture's (USDA) [Margin Protection Program](#) for coverage in 2016. The voluntary program, established by the 2014 Farm Bill, provides financial assistance to participating dairy operations when the margin – the difference between the price of milk and feed costs – falls below the coverage level selected by the farmer. Harden made the announcement while visiting Wolfe's Neck Farm and dairy school in Freeport, Maine.

"More than half of our nation's dairy producers enrolled in the 2015 program, which exceeded our expectations for the first year of the program," said Harden. "We are confident that dairy farmers across the country will again take advantage of this safety net program for 2016. USDA will continue outreach efforts, including partnering with cooperative extension services, to ensure dairy producers are fully informed about the protections that this safety net program can provide during periods of market downturns."



The Margin Protection Program gives participating dairy producers the flexibility to select coverage levels best suited for their operation. Enrollment began July 1 and ends on Sept. 30, 2015, for coverage in 2016. Participating farmers will remain in the program through 2018 and pay a \$100 administrative fee each year. Producers also have the option of selecting a different coverage level during open enrollment each year. Margin Protection Program payments are based on an operation's historical production. An operation's historical production will increase by 2.61 percent in 2016 if the operation participated in 2015, providing a stronger safety net.

USDA also has an online resource available to help dairy producers decide which level of coverage will provide them with the strongest safety net under a variety of conditions. The enhanced Web tool, available at www.fsa.usda.gov/mpptool, allows dairy farmers to quickly and easily combine their unique operation data and other key variables to calculate their coverage needs based on price projections. Producers can also review historical data or estimate future coverage based on data projections. The secure site can be accessed via computer, mobile phone, or tablet, 24 hours a day, seven days a week.

Dairy operations enrolling in the program must meet conservation compliance provisions. Producers participating in the Livestock Gross Margin insurance program may register for the Margin Protection Program, but this new margin program will only begin once their Livestock dairy insurance coverage has ended. Producers must also submit form CCC-782 for 2016, confirming their Margin Protection Program coverage level selection, to the local Farm Service Agency (FSA) office. If electing higher coverage for 2016, dairy producers can either pay the premium in full at the time of enrollment or pay a minimum of 25 percent of the premium by Feb. 1, 2016. The Margin Protection Program was established by the 2014 Farm Bill, which builds on historic economic gains in rural America over the past six years, while achieving meaningful reform and billions of dollars in savings for the taxpayer. Since enactment, USDA has made significant progress to implement each provision of this critical legislation, including providing disaster relief to farmers and ranchers; strengthening risk management tools; expanding access to rural credit; funding critical research; establishing innovative public-private conservation partnerships; developing new markets for rural-made products; and investing in infrastructure, housing and community facilities to help improve quality of life in rural America. For more information, visit www.usda.gov/farmbill.

For more information, visit FSA online at www.fsa.usda.gov/dairy or stop by a local FSA office to learn more about the Margin Protection Program. To find a local FSA office in your area, visit <http://offices.usda.gov>.

Source: AgWeb.com

THE HORTMAN SHOW - VODCAST (VIDEO PODCAST)

Steve Allgeier, AKA The Hortman, kicks off his vodcast by talking about what bugs might be lurking in your pantry, as well as the do's and don'ts of lawn care, tree problems... <http://bit.ly/1GWWk7i>

Carroll County Speaks is a group of different podcast/vodcast series where members of the community create their own original programs as a way to keep Carroll County informed on topics of their choosing.

At this point the series will be streamed on YouTube.

Follow the series by clicking the "Subscribe" link on the bottom of the screen at the end of the program.



CARROLL COUNTY HAS AN AGRICULTURE DEVELOPMENT SPECIALIST

Did you know that Carroll County has an individual dedicated to the development and growth of Agribusinesses? The Agriculture Development Specialist, Diana Hare, in partnership with the Carroll Business Path, offer **free** services and consultations on a wide range of agribusiness needs from creating a business plan to social media marketing and zoning permits to farmers' market questions. Whether you have an existing agribusiness, are looking to expand, or are in the start-up phase we are here to help you. You can reach Diana Hare at dhare@carrollbiz.org or call 410-386-2070 with any questions or schedule an appointment today. It is also the goal of the Agriculture Development Specialist to help the community find and support their local farmers; if you are looking for a particular event or service in Carroll County please contact Diana with those questions as well. You can also find us on Facebook at <https://www.facebook.com/pages/Carroll-County-Grown/633075743494862> or follow us on Instagram @Carroll_County_Grown.

DATES TO REMEMBER

August 1 – 8 **Carroll County 4-H/FFA Fair**, 706 Agriculture Center, Westminster, MD. For more information and daily schedule go to <http://www.carrollcountyfair.com/>

August 5 **Mid-Atlantic Precision Ag Equipment Day**-10 to 4 pm, Somerset County Civic Center, 11828 Crisfield Lane, Princess Ann, MD. Visit <https://extension.umd.edu/news/events/wed-2015-08-05-1000-2015-mid-atlantic-precision-agriculture-equipment-field-day#sthash.2uDONyjF.dpuf> for more information.

August 7 **MD Nutrient Management Certification Exam**, 50 Harry S. Truman Parkway, Annapolis, MD. To register, contact the Maryland Department of Agriculture at 410.841.5959 or visit www.mda.maryland.gov. Click on Nutrient Management and follow the links to “training classes.”

Aug 28–Sep 7 **The Maryland State Fair**, 2200 York Road, Lutherville, Timonium, MD. For more information and schedule go to <http://www.marylandstatefair.com/>

Visit our web site at <http://extension.umd.edu/carroll-county>

For more event listings visit

<http://www.agnr.umd.edu/AGNRCalendar/>

Yours for better farming from your
Carroll County Agriculture Extension Educators,

Bryan R. Butler, Sr.
Extension Agent
Agriculture and Food Systems
bbutlers@umd.edu

Steve Allgeier
Extension Educator
Home Horticulture
Master Gardener Coordinator
horman@umd.edu

If you would like to be removed from our mailing list, please call: 410-386-2760 or 1-888-326-9645.

If you have a disability that requires special assistance for your participation in a program please contact the Carroll County Extension Office at 410-386-2760, Fax: 410-876-0132, two weeks prior to the program.

The information given herein is supplied with the understanding that no discrimination is intended and no endorsement by University of Maryland Extension is implied.