

- *Managing Herbicide Resistance*
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## Seasons on the Farm debuts at Woodside Creamery

The Delaware Soybean Board and a host of other allied organizations is sponsoring "Seasons on the Farm," a program to introduce consumers to Delaware and Maryland farmers through unique opportunities to interact and learn about food and food production.

A signature event of the program, an on-farm dinner featuring Delaware products and Delaware farmers, was held June 8 at Woodside Creamery in Hockessin.

The program is based on connecting people through shared values - an appreciation for things that are near and dear to each of us - such a family, community or our roles in life. It's the shared values between farmers and consumers which allow trust to be formed, according to the Center for Food Integrity (CFI), which is coordinating Seasons on the Farm with local support. Trust is essential for consumers to grant farmers social license and freedom to operate, says CFI.

Brandon and Ashley Bonk of Dover were among the farm ambassadors who have volunteered with Seasons on the Farm. Brandon, who is a director on the Delaware Soybean Board, said he and Ashley feel that it's important for farmers to reach out to consumers.

"The Delaware Soybean Board participated in Farmers Feed Us and I could see how that helped introduce a lot of consumers to some of our farmers through the online sweepstakes last year," Bonk said.

"Ashley and I wanted to be part of this effort. As farmers, we are our own best spokesmen and women, but we have to take the time to get off the tractor, go to events, write blogs or social media, give interviews - whatever skill or comfort level we each have - it's extremely important to our industry's future."

Richard and Donna Wilkins of Greenwood, Charles and Janet Postles of Milford, and Cindi Filasky and Laura Emerson

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## Perdue tour, "Respect the Rotation" workshop set for Aug. 22

Two great events are planned for August 22; a tour of the Perdue Processing Facility and Respect the Rotation Field Day. These programs are planned one after the other so anyone can participate in both or either event.

**The Tour of the Perdue Processing Plant** will be by bus. Participants must pre-register and meet at the UD Research and Education Center in Georgetown at approximately 10 am.

The tour will provide insight into the treatment the soybean undergoes at the processing plant, as it makes its way through the value chain from field to feed, food, fuel and more. The United Soybean Board is helping sponsor this event as part of its Technology Transfer Program, a soybean checkoff program that works in collaboration with state soybean boards and universities.

After a tour of the plant, participants will be treated to

lunch and presentations from representatives of Perdue, the University of Delaware and the soybean checkoff program. The bus will return participants to Georgetown about an hour before the next event.

**Respect the Rotation is a workshop slated for August 22<sup>nd</sup>, from 4 to 6 pm** at the UD Research and Education Center in Georgetown. This is supported by Bayer CropScience and held in collaboration with Delaware Soybean Board.

Respect the Rotation is an initiative by Bayer CropScience to discuss the importance and adoption of herbicide diversity and integrated weed management. Local weed scientists, Ron Ritter, Mark Isaacs, Matt Mahoney, and Mark VanGessel will present local research and experiences with managing herbicide resistant weeds. These concepts include:

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# Delaware Soybean Briefs

## Hunter Murray is Delaware Soybean Ambassador

Hunter Murray of Greenwood has been named the Delaware Soybean Board's Soybean Ambassador. The son of David and Melissa Mitchell, Hunter was raised at Tumble Down Acres, a Corriedale and Shropshire sheep farm.

Now an ag student at the University of Delaware and active in UD FFA and 4-H programs, Hunter was a 2012 graduate of Sussex Tech.

## Soybean board sponsors livestock shows

The Delaware Soybean Board sponsored the Jackpot/Kent County 4-H Livestock Show on May 18 and is sponsoring the Delaware Junior Dairy Futurity, held on the first Saturday evening of the Delaware State Fair.

"Animal agriculture accounts for about 98 percent of the market for domestic soybean meal," says Jesse Vanderwende, chairman of the Delaware Soybean Board. "Our sponsorship not only supports great youth livestock events but also reminds soybean and livestock farmers to support each others' industries."

## Volunteers sought for DSB director positions

The Delaware Soybean Board consists of nine soybean farmers and the Secretary of Agriculture (who serves without vote), who administer the national soybean checkoff program in the state.

Directors must be elected to their posts. Each director may serve a maximum of two, three-year terms. Two directors are approaching the end of their six years on the board: Dennis Clay of New Castle County and Kevin Evans of Sussex County.

Soybean farmers from New Castle or Sussex counties who are interested in serving on the board need to indicate their interest to Susanne Zilberfarb, executive director of the Delaware Soybean Board, by Monday, August 5, by calling (410) 430-2613 or emailing [susanne@desoybeans.org](mailto:susanne@desoybeans.org).

## Poultry growers get "parting gift" at DPI Banquet

Jay Baxter of Georgetown, in photo at right, a director on the Delaware Soybean Board, helped distribute insulated lunch totes at the DPI Poultry Booster Banquet in April. The totes showed appreciation for the soybean industry's biggest market on Delmarva - the poultry industry. The totes read: "Chicken for Lunch - It's Cool!" and were sponsored by the United Soybean Board and the Delaware and Maryland Soybean Boards.



## About the Delaware Soybean Board

**The Delaware Soybean Board** administers soybean check-off funds for soybean research, marketing and education programs in the state. One-half of the checkoff funds stay in Delaware for programs; the other half is sent to the United Soybean Board. Under the soybean checkoff program, authorized by Congress in 1991, farmers contribute one-half of one percent (equal to 50 cents per \$100) of the net market value of soybeans sold, collected at the first point of sale.

### Board of Directors

Jesse Vanderwende  
Chairman, Bridgeville

James H. "Jay" Baxter, IV  
Vice Chairman, Georgetown

Travis Hastings  
Treasurer, Laurel

Robert Baker  
Odessa

Dale Blessing  
Harrington

Brandon Bonk  
Dover

Dennis Clay  
Middletown

Kevin Evans  
Bridgeville

Jonathan Snow  
Smyrna

Delaware Secretary of Agriculture Ed Kee

Richard F. Carlisle of Bridgeville represents Delaware on the United Soybean Board. USB is made up of 69 farmer-directors who oversee soybean checkoff funds invested in animal utilization, human utilization, industrial utilization, industry relations, market access and supply. Dallas Wright of Millsboro serves as alternate USB director.

Dennis Clay of Middletown serves as director on the National Biodiesel Board for the membership held by Delaware and Maryland.

Doug Corey of Bridgeville serves as director on the Soy Aquaculture Alliance, for the membership with Delaware and Maryland.

Susanne Zilberfarb is the board's executive director. Sandra Davis serves as the board's financial and compliance coordinator. Jo-Ann Walston is the board's liaison with the Delaware Department of Agriculture. Hunter Murray is the board's soybean ambassador and summer intern.

Find out more by visiting: [www.desoybeans.org](http://www.desoybeans.org)

# Weed Alert: Managing Palmer Amaranth in Delaware Fields

By Mark VanGessel

Palmer amaranth was seen in a number of locations in Delaware and on Maryland's Eastern Shore last summer.

We found fields infested with Palmer amaranth as far north as Middletown, Del., and throughout Sussex County. We talked about this plant at most of our winter meetings.

Palmer amaranth looks much like smooth or redroot pigweed early in its growth. The link below will show you some bulletins on how best to identify Palmer amaranth, but the watermark is very diagnostic. However, many plants never develop these "V" markings on the leaves.

<http://agdev.anr.udel.edu/weeklycropupdate/?p=3146>

This species needs to be taken very seriously; it can overwhelm a field in a few years. It is a species that has developed resistance to glyphosate very quickly and once that happens, it will make control very difficult (if you think glyphosate-resistant marestail has been a headache; Palmer amaranth is much worse).

We had a number of reports of poor performance with glyphosate last year for Palmer amaranth control, and confirmed that some of these plants were resistant to glyphosate. Also, some of the poor control was due to issues other than resistance.

Due to the seriousness of glyphosate-resistance, and the tendency of Palmer amaranth to develop resistance to glyphosate, UD Weed Science recommends:

- the field should be clean at planting,

using effective burndown herbicides or tillage;

- use a residual herbicide, applied as close to planting as possible (within 7 to 10 days);
- **Never apply glyphosate alone;** an additional herbicide should be used as a tank mix partner;
- additional mode of action must be highly effective on Palmer amaranth as well;
- applications should be made to plants less than 3 inches tall;
- be sure to rotate herbicide mode of action
- use a Group 27 herbicide in corn (Callisto, Impact, or Laudis products),

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A new graphic from the United Soybean Board suggests four areas to consider when managing against herbicide resistant weeds.

## Soybean Marketing and Production College planned

The American Soybean Association (ASA) is holding its first Soybean Marketing and Production College Tuesday, July 30, 2013, at the Crowne Plaza Riverfront Hotel in St. Paul, Minn.

Delaware farmers who are interested in attending are encouraged to apply.

Attendees of ASA's Soybean Marketing and Production College will participate in learning sessions on herbicide and weed resistance sponsored by Bayer CropScience, precision agriculture, sponsored by AGCO

## Seasons on the Farm ...

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of Middletown joined the Mitchell family, who operate Woodside Creamery, as farm ambassadors. Rob Baker, who is a Delaware Soybean Board member, and his wife Ann joined Delaware Farm Bureau President Gary Warren and his wife Gayle, and Past President of the New Castle County Farm Bureau Fred Stites and his friend Nancy Hickman.

Proceeds from the evening benefited the Food Bank of Delaware.

After Tropical Storm Andrea blew out of the Mid-Atlantic, leaving behind 4.8 inches of rain on the Mitchell farm, the landscape was a bit squishy, but attendees were not concerned at all. The evening was intended as a kick-off to future conversations and events, linking farmers and consumers, particularly those who are concerned with issues surrounding food and hunger.

A recap of the evening is posted at [www.seasonsonthefarm.org](http://www.seasonsonthefarm.org).

## Don't "dump" treated seed into harvested beans

You may be tempted to dump your remaining seed – if you still have some – with last year's harvested soybeans. Don't.

As soybean seed treated with crop protection products have become more popular in recent years, it has also become more important for farmers to properly dispose of leftover seed. Mixing it in with harvested beans is a bad idea.

The Chinese government forbids the presence of any treated seed in commodity soybean shipments arriving at its ports. Farmers violating U.S. laws on treated seed

and global sustainability.

Matt Roberts, Ph.D. of the Ohio State University, will deliver the keynote presentation reviewing the current supply and demand situation for grains and how growers can take advantage of trends in their own marketing decisions.

Delaware growers who are interested in attending need to contact Susanne Zilberfarb, executive director of the Delaware Soybean Board, before July 8, by calling (410) 430-2613 or emailing:

[susanne@desoybeans.org](mailto:susanne@desoybeans.org)

The ASA Soybean Marketing and Production College is sponsored by the following corporations and Qualified State Soybean Boards: AGCO, Bayer CropScience, Arkansas Soybean Promotion Board, Delaware Soybean Board, Kansas Soybean Commission, Minnesota Soybean Growers Association, Minnesota Soybean Research and Promotion Council, New York Corn and Soybean Growers Association, and the Tennessee Soybean Promotion Council.

## ASA DuPont Pioneer

### Young Leader

### accepting applications

The American Soybean Association (ASA) and DuPont Pioneer are seeking applicants for the 2014 Young Leader Program. Now in its historic 30th year, the ASA DuPont Young Leader program is recognized throughout agriculture for its tradition of identifying and cultivating farmer leaders who are shaping not only the U.S. soybean industry but all of agriculture.

"The Young Leader Program has had a significant impact on the soybean industry," said ASA President Danny Murphy, a soybean farmer from Canton, Miss. "For three decades, ASA/DuPont Young Leaders have participated in training and developed peer networks that have enabled them to better serve and represent their national, state and local agricultural industry organizations."

A challenging and educational two-part training program, the 2014 class of ASA/DuPont Young Leaders will meet for the first time at Pioneer's headquarters in Johnston, Iowa, Nov. 19-22, 2013. The program will continue Feb. 25-March 1, 2014 in San Antonio, with training held in conjunction with the annual Commodity Classic.

The ASA/DuPont Young Leader program offers the opportunity for participants to strengthen and build upon their natural leadership skills, meet and learn from other young leaders from around the country and expand their agricultural knowledge.

Applications will be accepted online beginning June 3 at [www.SoyGrowers.com/dyl](http://www.SoyGrowers.com/dyl).

One couple or individual per state will be chosen. Applications will be accepted until Oct. 1.



*Charles Postles, left, works with Donna Wilkins, at right in the foreground, during the Farm Ambassador Workshop prior to Seasons on the Farm. In the background, Cindi Filasky works with Brandon Bonk.*

In addition to the signature on-farm dinners, the Seasons on the Farm program includes social media outreach, quarterly e-newsletters, and traditional media outreach to share with consumers how their food is produced. The Mid-Atlantic is the first region to implement Seasons on the Farm, which was created as a follow-up to Farmers Feed Us. An autumn event will be planned in Maryland.

disposal may be subject to legal action.

"To protect the integrity of the U.S. soy supply, it's imperative for farmers to avoid mixing treated seed with harvested soybeans, other oilseeds or grains," says Sharon Covert, the United Soybean Board international marketing chair and a soybean farmer from Tiskilwa, Ill.

"Taking these extra steps can sometimes be hard to do, but proper disposal helps ensure that we all continue to produce a safe and abundant supply of food, feed, fiber and fuel."

## Managing Palmer Amaranth ...

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- avoid use of Group 14 (Valor, Sharpen, etc) herbicides in corn, except in cases of continuous corn;
- use a Group 14 herbicide in soybeans (ie Valor, Reflex, or Cobra); and fields with soybeans planted two years in a row need extra precautions to avoid resistance (particularly in regards to Group 2 or ALS herbicides);
- do not allow Palmer amaranth plants produce seeds.

In regards to point 3, you need to ask yourself if the herbicide you are adding with glyphosate will kill Palmer amaranth in your situation, if it was applied without glyphosate.

Often times the products mixed with glyphosate will not kill Palmer amaranth if it was used alone, either because it does not have postemergence activity, it is used at a low rate, or it is applied when the weeds are too large. I have seen a lot of advertisements for products such as Prowl H2O, Warrant, Outlook as products to help with resistance management when tank-mixed with glyphosate.

These products do not have activity on weeds that have emerged from the soil (but they will control Palmer that germinates after the herbicide is applied). So they should be tankmixed with glyphosate AND another herbicide effective on



*Palmer amaranth seedlings sometimes, but not always, can be identified by a v-shaped watermark on their leaves.*

emerged pigweed plants.

A list of postemergence herbicides recommended for use with glyphosate when Palmer amaranth is present are shown in the yellow box on this page.

Remember that Palmer amaranth has developed resistance to Group 2 herbicides (ALS-inhibiting herbicides) in many states, so be sure to use Group 2 herbicides judiciously.

Finally, fields infested with Palmer amaranth can be managed. We had fields that were moderately to heavily infested with Palmer amaranth, but with a good weed management program over two years, and not allowing plants to produce seed, we greatly reduced the density of Palmer amaranth.

Eliminating Palmer amaranth from a field is probably not feasible, but at the same time it can be managed.

### *Recommended postemergence herbicides for use with glyphosate when Palmer Amaranth is present:*

#### **Soybean herbicides**

Classic <sup>(Grp 2)</sup>  
Harmony SG <sup>(Grp2)</sup> (requires STS soybeans)  
Liberty (requires Liberty Link soybeans)  
Pursuit <sup>(Grp 2)</sup>/Extreme <sup>(Grp 2)</sup>  
Raptor <sup>(Grp 2)</sup>  
Reflex/Flexstar GT  
Synchrony XP <sup>(Grp 2)</sup> (requires STS soybeans)  
Ultra Blazer

#### **Corn herbicides**

Accent Q <sup>(Grp 2)</sup>  
Atrazine  
Banvel/Clarity/Distinct/Status  
Callisto + atrazine  
Impact + atrazine  
Laudis + atrazine  
Liberty (requires Liberty Link corn)  
Permit Plus <sup>(Grp 2)</sup>  
Realm Q/Resolve Q/Require Q/Steadfast Q <sup>(Grp 2)</sup>

*Grp 2 - Palmer amaranth has developed resistance to Group 2 herbicides (ALS-inhibiting herbicides) in many states, so be sure to use Group 2 herbicides judiciously.*

## *Perdue tour, herbicide resistance workshop set for Aug. 22 ...*

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sure of a single mode of action by using multiple modes of action during both the growing season and from year to year.

**Rotating crops** - crop rotation diversifies weed management tools, alternates planting dates, and allows for incorporating different weed management strategies.

**Rotating herbicide-tolerant traits** - alternating herbicide-tolerant (HT) traits and/or use HT trait stacks for more efficient herbicide rotation.

Overreliance on a single weed-control method causes resistant weeds to develop and puts the herbicide-tolerant system used and the ability to grow a crop in a specific field in jeopardy.

When resistant weeds develop, farmers face the additional costs required to control them—unplanned herbicide applications, increased management, and in extreme cases, total crop loss.

Integrated Weed Management practices help to preempt these issues and result in successful management of resistant weed populations.

These and other topics will be discussed while viewing field plots and demonstrations illustrating ways to **Respect the Rotation**. For more information contact Mark VanGessel at (302) 856-7303.

Pesticide credits and Certified Crop Advisor Credits will be available.

The program will be followed by dinner. There is no cost for either event but please RSVP by August 15<sup>th</sup> by contacting Karen Adams at (302)856-2585 ext 540 or [kadams@udel.edu](mailto:kadams@udel.edu). Growers may also register at [www.desoybeans.org](http://www.desoybeans.org).

*Rainy Day? Visit*

*[www.unitedsoybean.org](http://www.unitedsoybean.org)*

*to find out more about what the national soybean checkoff is doing to build new markets for soy and support important research ...*



## Delaware Soybean Board

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Salisbury, MD 21803

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## Mark your calendars

**The Delaware Soybean Board** has a summer full of interesting activities. Please mark your calendars and join us!

**July 8** - Deadline to apply for Soybean Production & Marketing College (See Page 4)

**July 18-27** - Visit the soybean board booth at the **Delaware State Fair!**

**Aug. 5 - Nominations close** for Delaware Soybean Board seats (See Page 2)

**Aug. 10 - Meet Your Farmer** night at the **Wilmington Blue Rocks**. Come prepared to enjoy a night of baseball and outreach.

**Aug. 15 - Deadline to RSVP** for the Aug. 22 events shown below!

**Aug. 22 - Perdue Farms tour** - Get a look at what happens after you drop those beans off. Tour buses will leave from Carvel Research Farm. UD updates on crop research will be provided. Lunch included. Registration required.

**Aug. 22 - Respect the Rotation Workshop** - Tips for managing against herbicide resistance. Dinner included. Registration required.

**Aug. 30** - Deadline to register for **the 2013 Soybean Yield Contest!**



## Enter the 2013 Delaware Soybean Yield Contest!

*It's about more than bragging rights. It's about discovering varieties and management choices that work for soybean growers in Delaware.*

*And, well ... okay, it is about the bragging rights, too.*

*Enter to win CASH Prizes for your double drop and full season soybeans in the new Delaware Soybean Board Yield Contest.*

*Enter by August 30, 2013. Only one entry per farm.*

*Contact Rick Davis at 1-443-735-7234 for more information, or register at [www.desoybeans.org](http://www.desoybeans.org)*