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The Seed Consultant



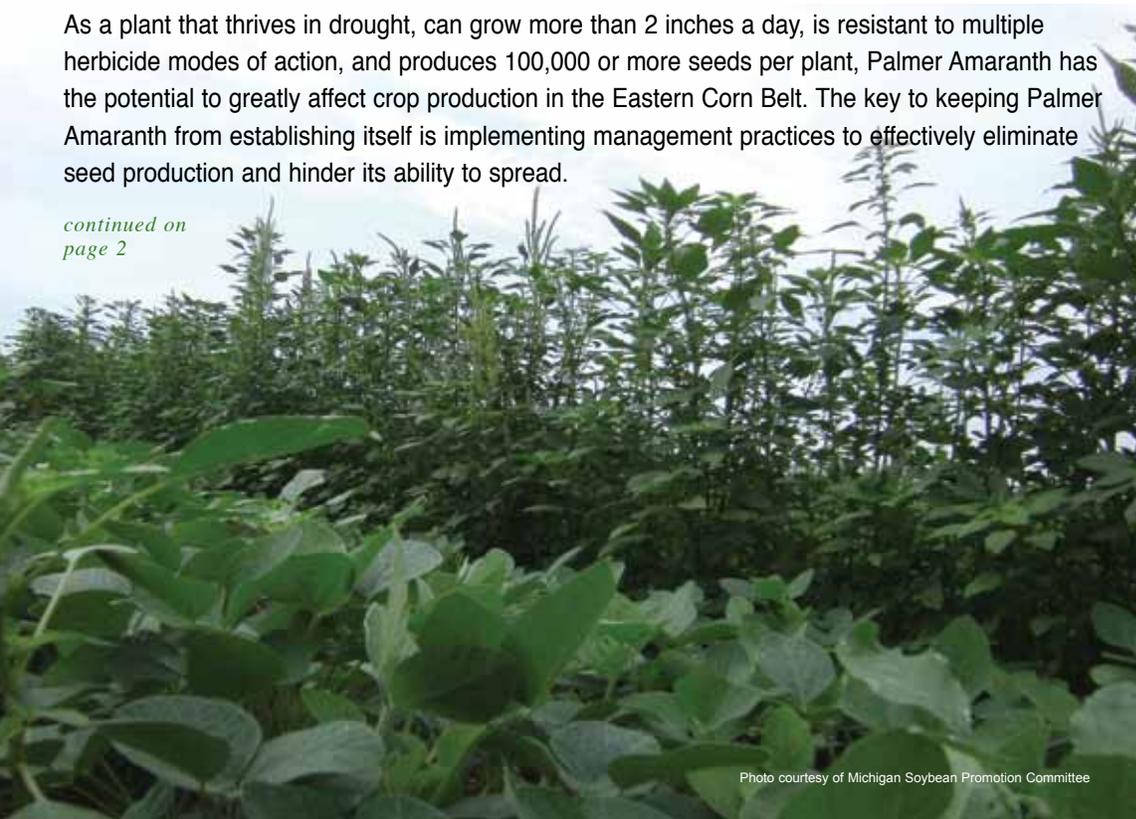
A BI-MONTHLY NEWSLETTER NEWS AND VIEWS FROM THE FIELD

Dealing with Palmer Amaranth

In recent years a weed with the potential to greatly reduce yields and increase costs of weed control has moved north from the Southern Corn Belt, according to "Palmer Amaranth: A New Invasive Weed to Watch for in Michigan" by Christy Sprague, Associate professor and extension specialist at Michigan State University. The arrival of Palmer Amaranth, nicknamed "Pigweed on Steroids", has been confirmed in multiple states across the Eastern Corn Belt. Palmer Amaranth populations have recently been confirmed in 13 counties of Indiana, and are present in SW Michigan, isolated areas of Ohio, and areas of Western Kentucky.

As a plant that thrives in drought, can grow more than 2 inches a day, is resistant to multiple herbicide modes of action, and produces 100,000 or more seeds per plant, Palmer Amaranth has the potential to greatly affect crop production in the Eastern Corn Belt. The key to keeping Palmer Amaranth from establishing itself is implementing management practices to effectively eliminate seed production and hinder its ability to spread.

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Seed Consultants, Inc.
800-708-2676
www.seedconsultants.com

**Simply, the Best Value
in the Seed Industry™**



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SCI fall events.

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Dealing with Palmer Amaranth

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Tips for Controlling Palmer Amaranth

1. Scout for and identify problem weeds early. Palmer Amaranth is a pigweed species and can easily be confused with other pigweeds, such as redroot pigweed, during early growth stages. It is critical to identify weeds correctly in order to keep them from spreading. Universities such as Ohio State, Purdue, and Michigan State have excellent fact sheets with pictures to aid in weed identification.

2. Start with a weed-free seedbed. Effective burndowns or deep tillage will help control Palmer Amaranth and will allow growers to begin the season with a weed-free seedbed. Apply herbicides when the seedlings are less than 4 inches tall.

3. Use residual herbicides. Use of residual herbicides will control seedlings at emergence and limit the number of plants that will need to be controlled by post-emergence applications.

This is especially critical in soybean fields, where effective post-emergence options are limited.



By Matt Hutcheson, CCA
Product Manager
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Photo courtesy of Michigan Soybean Promotion Committee

4. Crop Rotation. Rotation from soybeans to corn will allow for the use of additional herbicide modes of action (herbicides used in corn) that are effective at controlling Palmer Amaranth.

5. Hand Weeding. No, this is not a joke. If plants escape normal management practices, removal before they produce seeds is essential. If a seed head has formed, place a trash bag over the seed head before removing the plant from the field to eliminate the spread of seeds across the field.

6. Manage drainage ditches, field borders, etc.

Regularly mowing ditches, waterways, field borders, etc. will help control the spread of this weed. Although weeds growing in ditches do not directly compete with field crops, they will produce seeds and promote the spread of Palmer Amaranth.



SCI Announces Meetings and Field Days

As fall approaches, Seed Consultants will host kickoff meetings and field days. SCI has added 15 new corn hybrids and 9 new soybean varieties to its outstanding product lineup. With changing seed treatment options, trait offerings, and new corn and soybean varieties there is a great deal of information growers need keep up with. These kickoff meetings and field days are designed to keep you up to date on what is going on at Seed Consultants.

Are you interested in learning about new Supreme EX[®] brand products, pricing, trait offerings, Optimum[®] AQUAmax[™] products, or the Seed Consultants' trip to Hawaii? If so, be sure to attend a kickoff meeting and/or field day in your area! For more information about meetings in your area, check out our website (www.seedconsultants.com), ask your seedsman, or call our office at 1-800-708-2676.

Be sure to mark your calendar for the Washington Court House Field day at the Seed Consultants seed plant on August 29. Lunch will be at noon followed by tips for managing herbicide resistant weeds, discussion of SCI's foliar studies in corn and soybeans, and tours of the research plot. Seedsmen and agronomists will be available for discussion and to answer questions.

Watch Out for Corn Leaf Diseases

We are thankful for the rains this year, though in some areas, it is too much of a good thing. Rains are good for the crops but wet weather is also good for many disease organisms. Watch out for some of the leaf diseases which might develop and dominate in August and September. Most of these diseases are caused by fungi but some of them are caused by bacteria as indicated below:

Northern Corn Leaf Blight

Can start from the residue of previous crops which may provide the initial inoculums and is further spread by airborne spores. It likes cool, wet and humid weather like we had in June and early July. It makes long, cigar shaped lesions which are grayish or tan in color. NCLB may become a serious disease this year. Many of our hybrids with good resistance to this pathogen are available.



Southern Corn Leaf Blight

Makes smaller elliptical lesions and can cause considerable damage in susceptible hybrids. However, it requires hotter weather than NCLB.



Anthracnose Leaf Blight

Makes small, oval to elongated lesions that become brown and spindle shaped with yellow to reddish-brown borders. This pathogen can thrive in cool to warm, humid weather. This disease also affects stalks which can cause considerable damage in susceptible hybrids.



Northern Leaf Spot

Favored by moderate temperatures and high relative humidity. Crop residue, husks and stalks of the previous crop can provide the initial infection and is further spread by airborne spores.



Common Rust

Another pathogen favored by cooler temperatures. The disease makes a lot of small spots that look like rust. In severe cases, thousands of these spots can coalesce and kill the leaves.



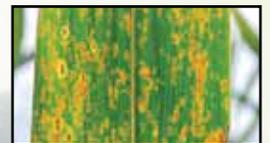
Southern Rust

Likes hot and humid weather and can spread fast unless checked by foliar fungicides.



Gray Leaf Spot

One of the most important leaf diseases in the Corn Belt. It occurs on lower leaves at first but can spread to upper leaves quickly in hot and humid weather. These spots are rectangular and appear gray when mature. Check with your Seed Consultant Rep for hybrids with good tolerance to GLS.



Many of the fungi discussed above may be controlled by foliar fungicides; however, the following diseases which are caused by bacteria cannot be managed by fungicides:

Goss' Wilt

Caused by a bacterium which was discovered in Nebraska in 1969. It remained confined to the western states but has started a march east. Recently, it was found in Illinois, Wisconsin and Indiana. This pathogen produces long lesions with wavy margins. The bacteria can also infect the vascular system of the plant and move within the plant, causing wilting with considerable damage to susceptible hybrids. Fortunately, many of our hybrids have excellent genetic tolerance to this disease.



Holcus Leaf Spot

Looks like the spots caused by Gramoxone herbicide has already been seen in Southern Illinois and Indiana. However, it generally does not cause major economic loss.



Stewart's Bacterial Blight

Can be important at the seedling stage and can cause long lesions in the adult plants also but is generally not important economically.



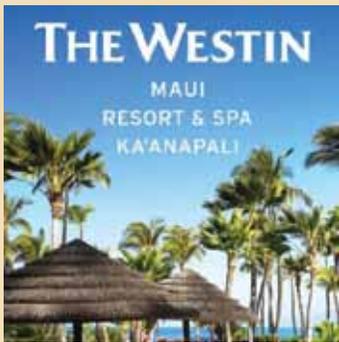
Watch out for the above diseases and select hybrids with genetic tolerance to the diseases prevalent in your area. Plan on attending field days, select hybrids with stay-green power, "kick the tires", and ask questions of SCl agronomists.

SCI'S 2014 CUSTOMER TRIP

THE WESTIN MAUI RESORT AND SPA KA'ANAPALI BEACH

Maui, Hawaii • January 18-25, 2014

Leave the Midwest's winter blues behind and travel with Seed Consultants on our 2014 Customer Trip to the Hawaiian Island of Maui. Attendees will be staying at the beautiful Westin Maui Resort and Spa located on the famous Ka'anapali Beach. This spectacular 5 star resort is surrounded by the one of the best beaches the Hawaiian Islands have to offer.



The Maui Trip Packages includes:

- Round trip scheduled coach class air transportation to Maui from Columbus, Dayton, Indianapolis, Detroit, Akron-Canton and Louisville airports (Based on schedule availability and a minimum of 10 passengers from each gateway).
- 8 days, 7 nights accommodations at the beautiful Westin Maui Resort and Spa
- Daily buffet breakfast
- Hawaiian Luau with a bountiful dinner, cultural entertainment, and open bar
- Half-day Island Sightseeing Tour with lunch included
- Transfers to and from the Maui airport
- Personalized baggage handling upon arrival and departure
- All taxes included

The Westin Resort and Spa Features:

- Amazing wide sand beach located on the resort property with spectacular views of other islands
- Five free flow pools including an adults only with Jacuzzi, 120 ft. waterslide and Beach Bar
- Five different dining options on site including open-air, beachfront and pool side
- Whalers Village with over 90 shops and restaurants just steps away from the Westin
- 14,000 sq. ft. full service spa and a 24 hour a day workout facility

Responsibility:

SCI, TravelPlex Hilliard, or their agents, act only as agents and assume no liability during such travel for injury, damage, loss, accident, delay or irregularity which may be occasional either by reason of defect in any vehicle or for any reason whatsoever, or through the acts of default of any company or person engaged in the passenger or in carrying out the arrangement of the tour. Many airlines charge fees for baggage and other services. Amounts vary by airlines and are subject to change. Travelers are responsible for verifying all fees charged by individual carriers. Please visit the operating carrier website of your ticketed itinerary for applicable fees. You can email Patty and Jim Salle with any questions at Travelplexhilliard@yahoo.com or by calling 614-771-5557, Monday through Friday 9:00 a.m. to 5:00 p.m.

Trip Cost:

Single Occupancy – \$4,047
Double Occupancy – \$2,840 per person
Triple Occupancy – \$2,656 per person
Quad Occupancy – \$2,521 per person
For any additional rooming rates, please contact Travelplex Hilliard.

- \$300 Non- Refundable deposit by August 1st (per person)
- \$400 Non-Refundable deposit by September 1st (per person)
- \$500 Non-Refundable deposit by October 1st (per person)
- Full Trip Payment is due by November 1, 2013 payable to Travelplex Hilliard.
- Full Trip Payment is Non-Refundable

Space Is Limited.

Early Reservations Are Recommended!

Travelers may earn Trip Credit by:

- Purchasing SCI seed

Travel Documents:

All participants will be required to present a valid driver's license, government issued ID or passport to provide to the air carrier and TSA prior to boarding.

Book Early to Reserve your Trip and Departure City:

Make all checks payable to: Travelplex Hilliard
Please send all checks, registrations, travel documents, etc. to:

Travelplex Hilliard
P.O. Box 620
Hilliard, OH 43026
Phone: 614-771-5557



***“Seed Consultants’ Winter Trips are a blast!
We look forward to traveling with them every January.”***

Mike and Laura Vallery - Sedalia, Ohio
Julie and Mark Anthony
Beth Smith



SEED CONSULTANTS, INC.

MAUI, HAWAII CUSTOMER TRIP • JANUARY 18-25, 2014

I am including my non-refundable per person deposit and I agree to pay the remainder of the trip balance by November 1, 2013.

Make check payable to Travelplex Hilliard.

Space is limited. Early reservations are recommended!

Name: _____

Area Seedsman: _____

Guest's Name: _____

Email: _____

Address: _____

Cell Phone: _____ Home Phone: _____

Travel discounts will be discussed with you by your Area Seedsman and will depend on customer order and payment discounts.

For questions, you may email Jim and Patty Salle at travelplexhilliard@yahoo.com or by calling 614-771-5557.

PLEASE CIRCLE YOUR CHOICE OF DEPARTURE CITY:

Columbus

Dayton

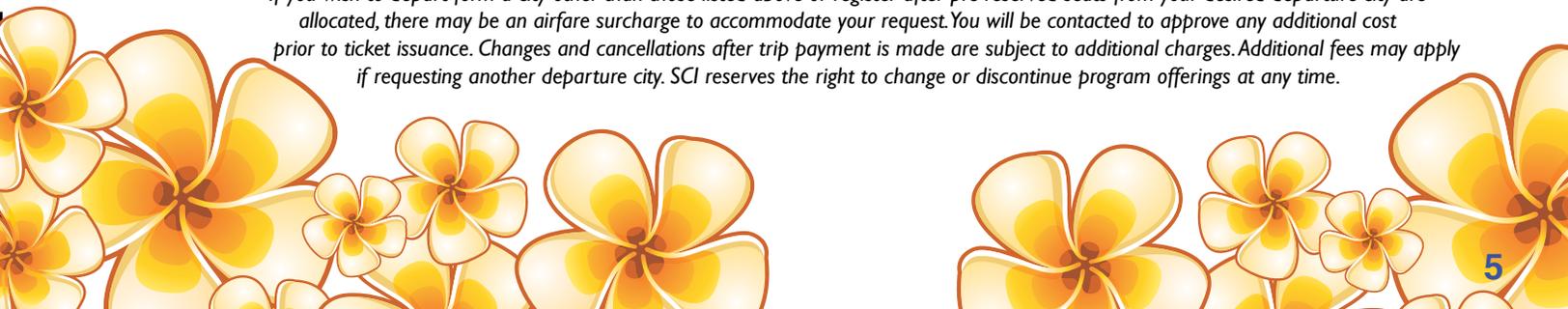
Detroit

Indianapolis

Akron/Canton

Louisville

If you wish to depart from a city other than those listed above or register after pre-reserved seats from your desired departure city are allocated, there may be an airfare surcharge to accommodate your request. You will be contacted to approve any additional cost prior to ticket issuance. Changes and cancellations after trip payment is made are subject to additional charges. Additional fees may apply if requesting another departure city. SCI reserves the right to change or discontinue program offerings at any time.



Plant Reproductive Stages

The ability to identify the different reproductive stages of corn and soybeans can help determine yield potential down later in the growing season.

CORN R2 **Corn Stage R2:** Reproductive Stage R2, the Blister stage. Usually occurs 12 days after silking. Kernels are white and resemble a small blister on the cob. The cob itself considered at full size. Silks are starting to dry out and darken in color. Starch is beginning to accumulate in the kernel itself. Plant nitrogen and phosphorous is moving from within to meet the kernel's needs. Moisture, in the kernels, is about 85%.

CORN R3 **Corn Stage R3:** Reproductive Stage R3, the Milk stage. Approximately 20 days after silking has occurred. Kernel moisture is about 80% and still accumulating starch within. Kernels are yellow on the outside and have fluid inside appearing as milky white. Yields are based on the kernels that develop and have weight. Heat and moisture stress will affect yield potential by reducing kernel number and size. After R3, root growth of the corn plant will cease.

SOYBEAN R2 **Soybean Stage R2:** Plant is at Full Bloom. At this stage an open flower can be observed on one of the two top nodes on the main stem with a fully developed leaf. Length of this stage is approximately 10 days. 50% of the mature node numbers on the plant have been made. Need to watch for soybean aphid population building up. Walk fields weekly to determine increasing aphid count, at 250 aphids per plant, treatment is recommended.

SOYBEAN R3 **Soybean Stage R3:** Beginning Pod Stage. One pod on the upper 4 nodes on the main stem is approximately 3/16" long. Stress can have a negative yield affect by reducing pod numbers and seed size. 50% of most flowers are lost before pods develop. Any stress that increases pod abortion will have a negative effect on yield. With the long flowering period of soybeans, the plant is able to compensate for stress. Continue to monitor aphid populations in soybean fields, treat if necessary.

SOYBEAN R4 **Soybean Stage R4:** Full Pod Stage. Rapid pod growth and seed development occurs. A pod is 3/4" long on one of the 4 upper nodes on the main stem of the plant. Average length of this stage is about 9 days. Continue to monitor aphid population.

SOYBEAN R5 **Soybean Stage R5:** Beginning Seed. Seed is 1/8" long in one of the four upper nodes on the main stem of the soybean plant. Average length at this stage is about 15 days. At the time of seed filling, water and nutrients are required from the plant. Environmental stresses at this stage will lower yields by reducing pod numbers, beans in pods, and seed size. Continue to monitor aphid population.

TWO GREAT FINANCING CHOICES



These financing programs are only available to John Deere Financial Preferred Customer and/or RABO approved customers. To apply for a John Deere Financial Preferred Account or RABO account or to increase your John Deere Financial or RABO line of credit, contact your SCI representative, so the necessary paperwork can be completed with John Deere Financial &/or RABO.

GUIDELINES

- Must be a John Deere Financial Preferred Customer or approved by RABO
- Credit limits established by John Deere Financial &/or RABO...not by SCI
- To increase or establish your credit line call John Deere Financial (800-433-8964) or RABO (888-395-8505)
- Must be enrolled and approved to qualify for discounts
- Discounts applied on approval date from John Deere Financial &/or RABO
- Signed terms of disclosure on file
- Minimum purchase of \$1,000
- Due date of December 2014
- Applies only to seed purchases
- Please write on order (Plan A or B) allowing for proper cash discounting

Finance Plan	A	B
	John Deere Financial	RABO
Purchase & Approval Date	Fixed 0%	Fixed 0%
Aug-13	8.5%	9.5%
Sept-13	7.0%	8.0%
Oct-013	6.0%	7.0%
Nov-13	5.0%	6.0%
Dec - Jan 5-14	3.0%	4.0%
Jan-14	2.0%	3.0%
Feb-14	0.0%	1.0%
Mar-14	0.0%	0.0%
Apr-14	0.0%	0.0%
In Season	0.0%	0.0%

2013 Wheat Profitability

Start With Selecting the Best Variety

Wheat profitability in 2013 will depend upon many factors from planting to harvest. Selecting the best variety is the first step for a successful crop in your fields. When selecting the right variety one needs to include the variety's characteristics of maturity, winter hardiness, test weight, yield potential, and good agronomics with disease tolerance/resistance.

Throughout OH, IN, IL, KY, and MI, Seed Consultants conducts on-farm testing of the different wheat varieties as well as planting its own Replicated Research Wheat Plots. SCI participates in university Wheat Performance Trials as well. We test existing varieties and new lines to help you make the right selection for your area. For protection of the seed at planting time against soil borne disease, SC wheat varieties are treated with Dividend Extreme. If someone is in need of insect protection, at planting time, Gaucho can be added to Dividend Extreme.

SCI wheat varieties listed below are choices for wheat planting in fall of 2013.

SC 1302™

- 2012 New Release, Clark +2 maturity, smooth head, ideal for double crop.
- High-yield potential variety with excellent test weight and winter hardiness.
- Very good disease package including Head Scab and Glume Blotch tolerances.
- Nice companion variety with SC 1321™ in early, high yield environments.
- Medium height plant with excellent standability and heavy bucket weight.
- Will tolerate spring topdress N of 90 to 100 pounds

SC 1321™

- High-yield potential, bearded variety, adapting throughout OH, IN, IL, and KY.
- Ideal for crop management programs, medium maturity, short stiffed straw wheat.
- Excellent winter hardiness and solid disease package with good plant health and test weight.



SC 1341™

- Bearded, medium late maturity with excellent hardiness positioned throughout OH, IN, IL, KY, and MI.
- In areas where Head Scab and Powdery Mildew are an issue, use of a fungicide is recommended.
- Short, stiff straw wheat responding to spring topdress N of 90 to 100 pounds of actual N.
- Elite wheat genetics with unique look and stature.

SC 1342™

- 2012 New Release, superior yields with excellent test weight.
- Medium tall, medium late variety, smooth head with excellent standability.
- Very susceptible to Leaf Rust, otherwise SC 1342™ has a very good disease package.
- Excellent variety for those growers needing straw tons.
- 2012 OSU Wheat Trial, SC 1342™ was second out of 68 entries, 2012 KY Wheat Trial, SC 1342™ was 16th out of 104 entries.



Get the Latest From SCI!

E-News

The SCI free e-newsletter comes via e-mail every Monday. The newsletter is packed full of current agronomic topics. Subscribe by sending your e-mail address to matt@seedconsultants.com or by signing up on our website at www.seedconsultants.com.

Social Media

Visit SCI's Facebook page at www.facebook.com/seedconsultants and by following SCI's 'tweets' on Twitter at <http://twitter.com/SeedConsultants>

Between the Rows *Updates from Chris Jeffries, general manager*

Dan and I started Seed Consultants in 1990 on the basis that growers wanted a quality product at a reasonable price; heck corn wasn't even \$2/bushel.

Over the years I believe we have been able to deliver on that promise. SCI has helped keep growers in business with a reasonable price and superior performance. Our customers likewise helped keep SCI in business.

SCI built its reputation on price, quality, performance, service and Eastern Corn Belt testing. SCI doesn't offer the gimmicks of some companies; we don't offer airplane rides, helicopter rides, gators, custom motorcycles, hot rod cars, etc. These gimmicks do not represent the SCI brand or Dan's and my personality. Unfortunately, with

higher commodity prices, the temptation is to chase the marketing glitter; but not SCI. All we ever wanted to do is offer regionally adapted hybrids at a reasonable cost and that remains our main focus.

A lot has changed since 1990; but SCI's growers continue to embrace SCI's culture and brand, allowing SCI to continue to grow. Corn sales are up 13% and bean sales are up 7% from our 2012 volume. Our growth since beginning our association with PROaccess® Genetics has been phenomenal. Since introducing our first Supreme EX® brand soybean line in 2008, SCI has had a 79.8% increase in soybean sales. Our first Supreme EX® brand corn line was introduced in 2009,

and since that release, SCI has had a 73.7% increase in corn sales.

Dan and I promise to continue our commitment to **regionally adapted hybrids at a reasonable cost; but we really need to continue thanking you for allowing us to have the best job in the world.**

And finally, thank you for allowing SCI to continue to be **Simply, the Best Value in the Seed Industry™.**

*Dan Fox &
Chris Jeffries*

Supreme EX
Brand Seeds

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