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MICHIGAN Soybean NEWS

Volume 13 - Issue 4



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A publication of the Michigan Soybean Association

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MICHIGAN Soybean NEWS

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Michigan Soybean Association Mission: To improve and advocate for the Michigan soybean industry.

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President's Letter - The Only Constant is Change



Hello! I hope this note finds you well. My family and I are getting ready to head back to school, so things have been a bit crazy around our farm. I'm sure many of you can relate.

As we finish out the summer and the growing season heads toward harvest, I find myself reflecting on change; specifically, all the change we have had as farmers. Although change is an inevitable constant in life, it feels like there's been more than usual lately. The change of seasons, the change of political parties, the changes in how our farms operate, climate change, you name it...

With all these changes, I am so grateful to be in a position to advocate for Michigan soybean farmers and their interests. The Michigan Soybean Association is working hard on so many of these changes for us. As an organization, MSA works to make sure we continue to share how and why farmers do what they do with the audiences that need to hear it, specifically our legislators and regulators. MSA also emphasizes what measures we need (and don't need) in place in order to keep our farms going.

If you want to talk to any of us about changes on your farm or how we may be able to influence change for the benefit of all soybean farmers, please reach out - we are here to advocate for you. I hope harvest is a success for all of you. Thank you for your efforts as a Michigan soybean farmer.

Heather Feuerstein, MSA President



**MICHIGAN
SOYBEAN
ASSOCIATION**

Staff Update - Agriculture's Sustainability Story



The general population across much of the developed world has ideas surrounding the importance of the future of our natural resources and environment (read sustainability). This interest has become significant enough that it has changed how some consumers make buying decisions and which companies choose to invest in. People's personal values have impacted the financial world and the direction of future corporate initiatives. For some people, this interest in the environment is a new concept, while for others it is simply a new way of discussing something that has been a priority for generations. Those of us involved in the agriculture industry have a unique perspective on the "sustainability" buzzword that seems to be everywhere these days. For farmers, the approach seems to have three steps: 1. Gratitude, 2. Pride, 3. Pledge to do more.

Gratitude: Most people involved in the ag industry are there by choice. For many, there is nothing else they'd rather do. This makes us grateful to be in the position of using our talents, initiative and hard work to produce a product that helps to feed the world.

Pride: Most farms and agribusinesses are intentionally long-term businesses, in most cases stemming from several generations of family ownership. The ag industry has been blessed to play a huge role in managing the natural resources of land, water and air, and in turn accepts the great responsibility that comes with that blessing. Pride is a big reason for long term success in any business and that pride leads to careful management of some of the most important natural resources such as land, water and air. Many people in other industries would classify these three items as part of the environment. By that definition, our careful management of the land, groundwater, surface water and air makes farmers environmentalists in the truest sense of the word. If the term "environmentalist" isn't the motivation for farmers to care so much, the term "pride" would fit for most.

Pledge to do more: Most long-term businesses appreciate the three pillars of sustainability: financial, environmental and social. Much of their hard work is motivated by making their business better for the people who come after them, in many cases the next generation. This is not done without the realization that their business must be financially solvent to continue. Agriculture is one of the strongest supporters of rural economies, including ag supply businesses, restaurants, community organizations, churches and entertainment venues. The connection of farms to their geographic place and community makes this natural. Included with the goal of wanting a business to continue is the desire to want things to be better in the future. This pushes farmers to strive for continuous improvement and urges them to do more to ensure that tomorrow is even better than today.

Agriculture was sustainable before it was cool. Even if your goal isn't to look cool to others who are judging our industry, it may be in our best interest to adapt to this new term of sustainability – it seems as if it's here to stay. The industry has much to be proud of and a great story to tell. Don't be shy about helping others understand the great role that agriculture has and how it accepts the blessing and responsibility of sustaining the efficient and environmentally sensitive production of food, feed, fuel and fiber.



Mark Seamon,
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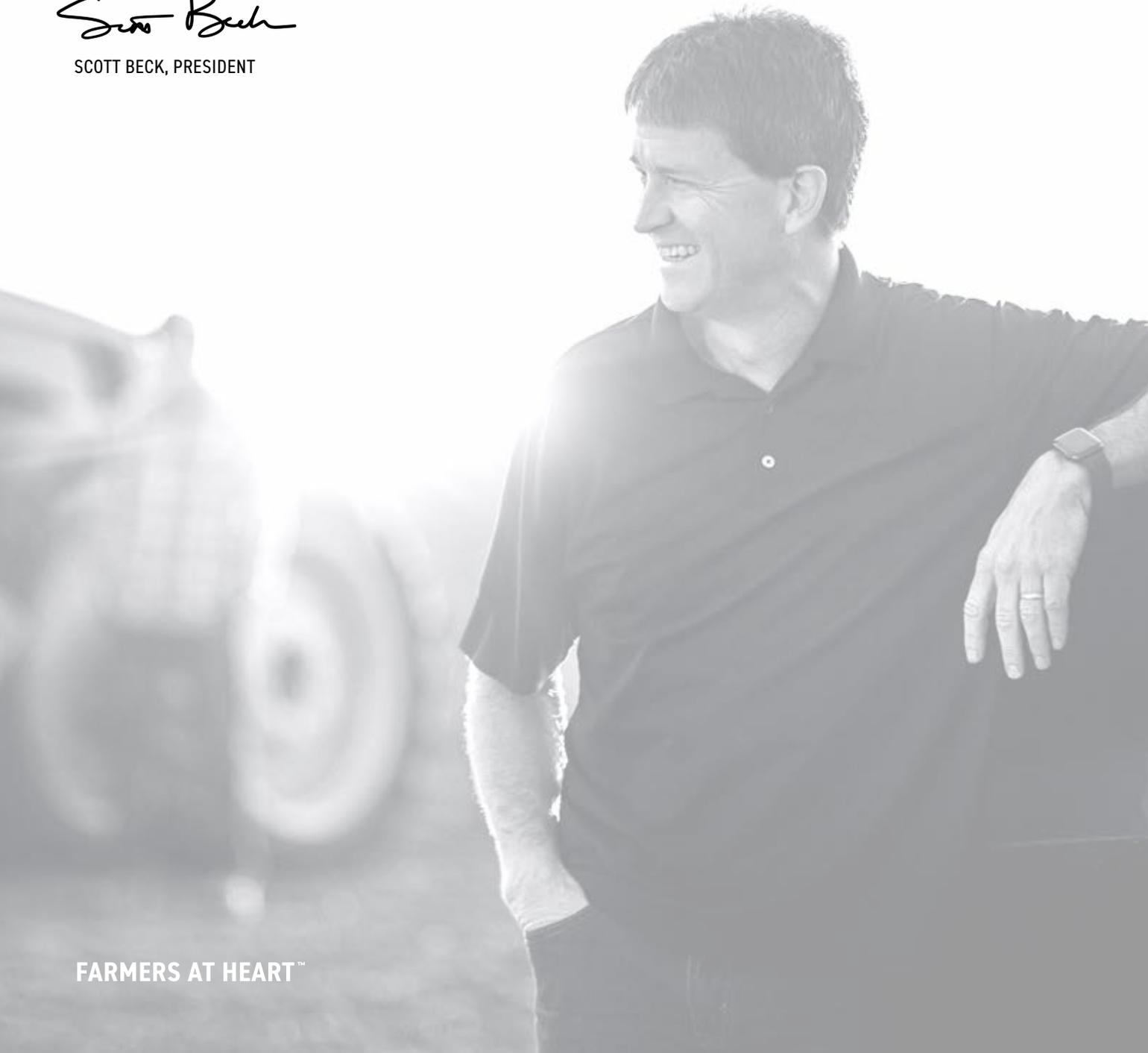


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*3-year and Lifetime memberships can choose between receiving either (check one):

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- 2-\$25 Soybean Meal Bucks certificates

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18% of member dues are allocated to lobbying activities and are not deductible.

Paying the soybean checkoff does not make you an MSA member. Checkoff dollars cannot be used for lobbying. Your membership is critical to our efforts on behalf of Michigan soybean farmers!

If you've been a member for 15 consecutive years, you may be a Lifetime Loyalty member. Contact the Michigan Soybean office to confirm your status.

For a list of all membership benefits, visit www.misoy.org/member-benefits/.

Membership Benefits Include:

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- \$300 Specialty seed with a minimum order of 30 units
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The MOST IMPORTANT MSA membership benefit: Having a voice in Lansing and Washington, D.C.!





2021 Michigan Soybean Association Yield Contest

The 2021 Michigan Soybean Association Yield Contest is well underway. Entry forms were due at the end of August, and participation is looking strong again this year.

MSA would like to thank the sponsors of this year's contest for their generous support. Without it, the contest would not be possible. This year, there are 12 participating seed company sponsors, along with the Michigan Soybean Committee.

Harvest data is due at the end of November, and winners will be announced at the Great Lakes Crop Summit in January, as well as on social media and in the spring issue of the *Michigan Soybean News* magazine, so stay tuned to see who comes out on top.

Thank you to all who have entered this year's contest. We are looking forward to more outstanding yields come harvest.



MICHIGAN SOYBEAN ASSOCIATION YIELD CONTEST




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Standing on the Shoulders of Giants

Michael Frederick, The Frederick Group

It's the dog days of summer as I write this. The legislature is on a summer recess. Despite threats of a dry season, Mother Nature keeps providing rain, and your soy team continues its work on many fronts.

AgroExpo is looming, with a planned open house to showcase the new soy offices in St. Johns. These are great new digs that put our industry closer to many partners and will allow the staff to be more centrally based.

We owe much of our success as an organization to many who came before us and some who blaze trails today. Kam Washburn's efforts years ago to establish the original checkoff continue to benefit our industry today. Industry champion Dave Williams put a lot of sweat equity into advancing the industry through his service on the MSA board of directors and attending trade missions to name a few. MSA President Heather Feuerstein and MSC President Laurie Isley continue to forge new paths as female leaders by challenging us to do more for the industry through market development, education and research.

Our industry has evolved to meet our customers' varying needs. GMO, non-GMO, high-oleic soybeans, and even organic are all demanded by our customers. Even my old geometry teacher Dick Stuckey (still Mr. Stuckey to me) has found his niche as an organic soybean farmer. He's still going strong even into his 80s.

Greenbush Township Supervisor and soybean farmer Lee Thelen recently shared with me how much he likes having the ZFS Ithaca plant operating. The prices are better for him, and the transportation costs are lower as he has a shorter distance to get his beans to the plant for processing.

These industry leaders, along with many others, helped pave the way for our efforts in Lansing. All our success would not be possible without the trailblazers who have and continue to be outspoken leaders for our industry.

When we hold the Legislative Outreach Farm Tour each year, our goal is to showcase our industry while educating policymakers on the importance of our agriculture and sharing the challenges we



Michael Frederick

face. Explaining how the checkoff program benefits farmers, discussing the benefits of MAEAP and reviewing regulatory issues related to irrigation are vital as well.

Your soy team continues to work to expand and develop new markets for soy-based products. Case in point – a new road in Clinton County was sealed with a soy-based sealer. This presents a potential new market for our industry.

These are just a few of the opportunities your team in Lansing is working for on behalf of the soy industry. Your input is valuable and always welcome as we meet with policymakers to advocate and educate on the importance of our industry.

As always, The Frederick Group is here to represent you and advocate for your issues in Lansing. If you have any questions or if we can be of service, please feel free to contact our office at 517-853-0413.



MSA Director Nominations Needed

The Michigan Soybean Association (MSA) is seeking nominations for board seats in the following districts:

- **District 3** – Lenawee, Livingston, Monroe, Washtenaw and Wayne Counties
 - **District 6** – Clinton, Genesee, Ionia and Shiawassee Counties
 - **At-Large** – any county in the state
- To appear on the ballot, nominations must be received by October 22, 2021. All elected directors will hold the office for a term of three years. To be eligible for a seat on the board, one must be a soybean farmer residing in the district that he/she is seeking election and be a member of MSA in good standing.

According to the current bylaws, elections will be held via U.S. Mail. Ballots will be mailed to all members by November 5, 2021 and must be returned to the Michigan Soybean Association office by December 6, 2021.

Election results will be announced at MSA’s Annual Meeting, which will take place during the Great Lakes Crop Summit on January 26, 2022.

The MSA board typically holds quarterly meetings plus other events such as Legislative Outreach Farm Tours, a legislative luncheon at the Capitol, a Lansing Ag Club Breakfast and a variety of legislator and industry outreach events.

MSA works on important issues such as trade expansion, transportation and infrastructure, environmental regulation, advocacy for our major markets and implementation of the Farm Bill. Your service on the board will help Michigan soybean farmers’ voices be heard and have a greater impact in Lansing and Washington, D.C.

If you would like to nominate someone for one of the above districts or be placed on the ballot yourself, please contact the MSA office at soyinfo@michigansoybean.org or 989.652.3294.

Thank you for your dedication to the Michigan soybean industry.



MSA Board of Directors



**MICHIGAN
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New & Renewing Members

NEW:

- Tonya Hawken, Reese
- Heidi Kowalski, Saginaw
- Erik Krieger, Belding
- Anne Leen, Fairgrove
- Michael Leen, Carsonville
- Charles Scovill, Laingsburg

RENEWING:

- Carlton Blough, Lowell
- Cornerstone Ag Enterprises, South Haven
- Ron Converse, Charlotte
- Neil French, Munger
- Scott Jirgens, Kalamazoo
- Art Mezo, Galesburg
- Dan & Wayon Smolinski, Lachine
- Snider Farms, Hart

MSA Scholarship Winners Announced

The Michigan Soybean Association is pleased to announce the winners of their 2021 College Scholarships. This is the first year of MSA's scholarship program. Development of the program stems from an organizational interest in supporting youth and promoting future leaders in agriculture and beyond. This new program would not be possible without the generous support of the sponsoring partners listed below.

This year, MSA's scholarship committee selected four winners, who will each be awarded \$2,000 towards their continued education. Applicants were required to be MSA members themselves or the child or grandchild of an MSA member. Additionally, they were required to provide information on their educational goals and write an essay on opportunities and challenges facing the soybean industry in the next ten years.

MSA looks forward to continuing this program in the future. To become an MSA member, complete the membership application found on page seven or visit <https://soygrowers.com/states-membership/online-membership-form/> to join online.



MICHIGAN SOYBEAN ASSOCIATION 2021 College Scholarships

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Macey Hawken
 Reese, MI
 Lansing Community College - Education



Jake Kowalski
 Saginaw, MI
 Michigan State University - Electrical Technology



Hannah Leen
 Carsonville, MI
 Michigan State University - Crop & Soil Science



Alexander Scovill
 Laingsburg, MI
 Kansas State University - Agriculture Education

Variety Selection is Critical for Disease Management

Austin McCoy and Dr. Martin Chilvers, Field Crops Pathology, Michigan State University

Heavy rains at the end of June resulted in waterlogged fields. Not only did these conditions kill some plants due to anoxic conditions, but the saturated soil conditions were ideal for diseases such as Phytophthora root and stem rot caused by *Phytophthora sojae* and soybean sudden death syndrome (SDS) caused by *Fusarium virguliforme*. Continued moisture has also increased the risk of white mold, caused by *Sclerotinia sclerotiorum*. Once these diseases establish in a field, they can lay dormant for years during crop rotations waiting for a soybean host. Suppression of these diseases is available through seed treatments (Phytophthora and SDS) or foliar fungicide applications (white mold). However, for best disease management, it is imperative to select varieties with the highest available levels of disease resistance/tolerance.

Phytophthora stem and root rot should be managed by using a combination of seed treatment, single-gene resistance (*Rps* genes) if available, as well as high partial resistance/tolerance. While seed treatments typically only protect seeds and seedlings for 2-3 weeks, variety resistance can offer season-long reductions in disease. A recent survey conducted by our lab and supported by the Michigan Soybean Committee identified that the most common *Rps* genes for Phytophthora management, *Rps* 1c and 1k, are no longer effective in Michigan.

We found the *Rps* genes *Rps* 3a, 3c and 4 to be effective, however, only *Rps* 3a is available in

Michigan. *Rps* genes will confer complete protection to Phytophthora, so long as the Phytophthora population within the field has not adapted to that *Rps* gene. If it is not possible to select a variety with the *Rps* 3a gene, be sure the variety has high field tolerance to Phytophthora and use a seed treatment effective on Phytophthora. Varieties with a high field tolerance rating to Phytophthora are not completely resistant, but are tolerant to infection, and will develop less disease than those varieties that are more susceptible. Often varieties in a seed catalogue may have a similar tolerance rating for disease. If you have had significant Phytophthora issues, be sure to speak to your seed salesperson to ensure that you are using the best information available to select the most resistant varieties and an appropriate seed treatment.

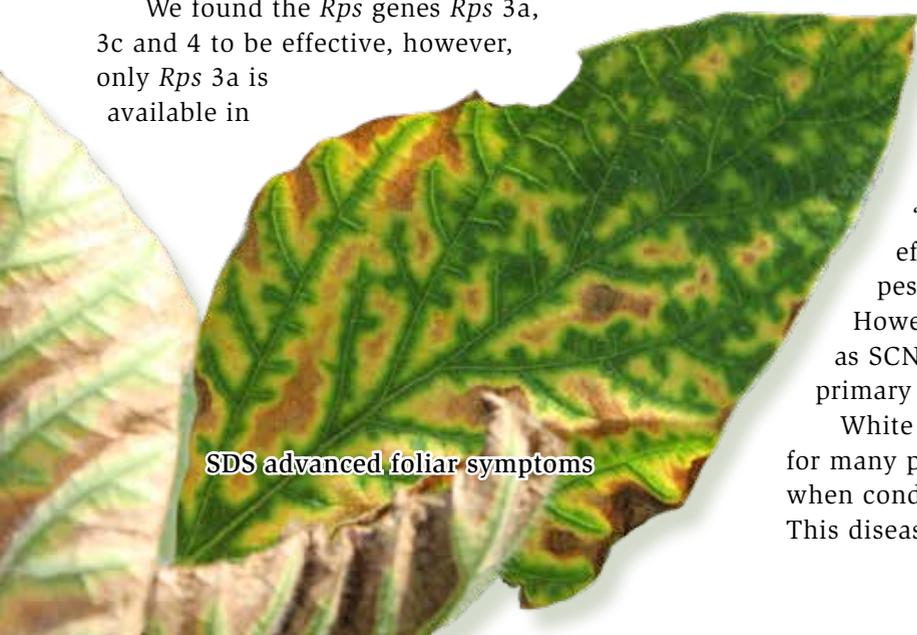
Heavy rainfall events also tend to bring on SDS foliar symptoms. Similar to soybean cyst nematode (SCN), the SDS fungus can infect soybean roots without producing obvious foliar symptoms. In addition, SDS can be made worse by the presence of SCN. There are seed treatments available to reduce both SDS and SCN. However, variety selection is the best tool that farmers have to combat these issues. If you have repeated difficulties managing SDS, selecting a variety that has a high tolerance to this disease can help mitigate losses. SCN should also be managed by performing a soil test. SCN resistance

in soybean is primarily through either “Peking” or “PI88788”. Many populations of SCN in the Midwest, including Michigan, are resistant to the “PI88788” source of resistance.

Therefore, finding a variety with high tolerance to SDS, while also having the “Peking” source of SCN resistance is an effective way to combat this disease and pest combination throughout the season.

However, always rotate sources of resistance, as SCN have been shown to adapt to both primary resistance sources.

White mold of soybean is an annual problem for many producers and can be particularly severe when conditions are cool and wet during flowering. This disease is often most problematic in soybean



SDS advanced foliar symptoms

fields having productive soils, planted at a high population with narrow row spacing (< 30 inches). Canopy closure provides a humid, shaded, environment that is conducive to white mold apothecia (mushroom) formation and plant infection, especially in wet years. No soybean variety is completely resistant to this disease, however, as shown in the figure, there are varieties which are more tolerant and perform better under white mold disease pressure. Selecting a variety that is tolerant to white mold, as well as planting lower soybean populations and utilizing wider row spacing can help manage the severity of this disease. Foliar fungicide applications can provide additional reduction in disease and are best applied during flowering (R1-R3). To optimize

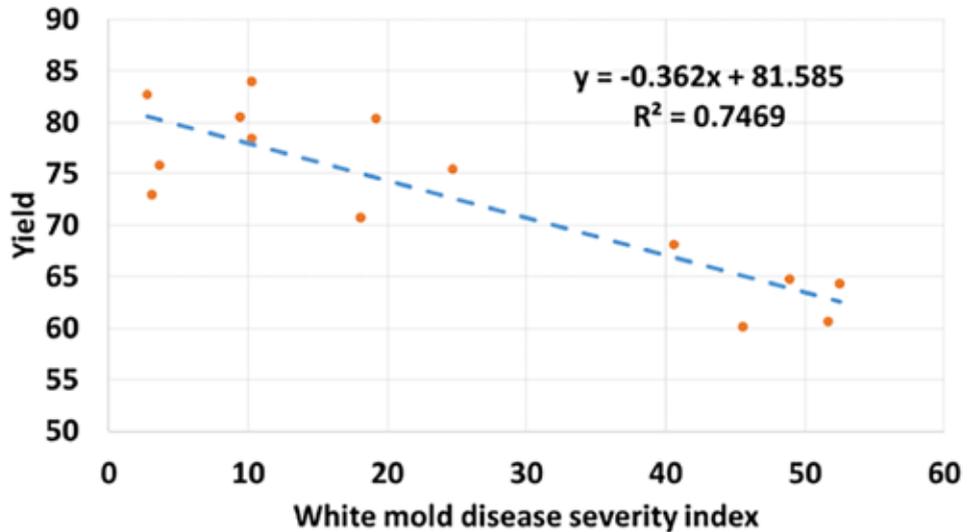


Figure: Correlation of soybean variety yield against white mold disease severity. Note the differences by variety (orange dots), with a decrease in yield as disease severity increases.

fungicide timing, the Sporecaster app was developed to predict the probability of white mold apothecia formation, allowing for informed fungicide timing.

There are many diseases that have and will present over the coming weeks. Fields should be

...continued on next page.

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Phytophthora infected plant

scouted to develop a variety selection plan for the future. Be sure to talk to your seed dealer about variety resistance that is available. No two fields will likely be the same in their disease management needs; the more you scout, the more you know. Additional information on disease management is available through Michigan State University and the Crop Protection Network (<https://cropprotectionnetwork.org>).

Take home points:

- Variety selection is critical for managing diseases.
- *Phytophthora sojae* populations have overcome the most common resistance genes (*Rps* 1c, 1k), currently the only effective and available *Rps* gene is *Rps* 3a.
- Soybean cyst nematode, populations in Michigan have overcome PI88788. Peking is still effective for SCN control but should be rotated with PI88788 varieties to protect its efficacy.
- SCN can compound SDS problems. Varieties which are resistant/tolerant to both will be needed for management.
- Planting varieties with high tolerance to problematic disease in your field can help reduce disease and yield losses. ■

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INVESTING IN NEW MARKETS FOR U.S. SOY

From promoting the profitability of using high-quality soybean meal in India to training animal producers on nutrition in Colombia, the soy checkoff is working behind the scenes to develop more market opportunities for U.S. soy. We're looking inside the bean, beyond the bushel and around the world to keep preference for U.S. soy strong. And it's helping make a valuable impact for soybean farmers like you.

See more ways the soy checkoff is maximizing profit opportunities for soybean farmers at unitedsoybean.org

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PROGRAM AREA	STRATEGIC GOAL	STRATEGIC INITIATIVE	MEASURE OF SUCCESS
 Market Development	Michigan soybean farmers have abundant new and existing market options.	Create Demand: Grow potential market and product opportunities for Michigan soy.	Demand for Michigan soy grows in new and in existing markets.
 Production Research	Michigan soybean farmers are profitable and environmentally sustainable.	Production Research: Invest in production research that benefits Michigan soybean producers.	Michigan soybean farmers incorporate MSC-funded research recommendations on their farms.
 Farmer Outreach	Michigan soybean farmers make well informed decisions.	Producer Education: Provide Michigan farmers with resources for making well- informed decisions.	Michigan farmers look to the Michigan Soybean Committee for soybean resources.
 Consumer Outreach	Consumers support Michigan soybean farmers.	Consumer Education: Create a positive public perception of Michigan agriculture.	Consumers understand the importance of agriculture and the soybean industry's work in Michigan.

MI Ag C.O.R.E. Program Offered to Growers

Michigan Soybean Committee, Michigan Potato Industry Commission & Michigan Wheat Program Announce New Leadership Program

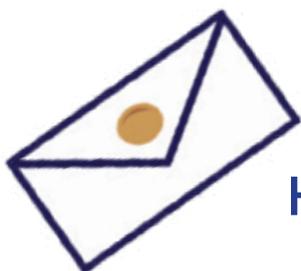
The Michigan Soybean Committee, in partnership with the Michigan Potato Industry Commission and Michigan Wheat Program, has announced the creation of a new leadership program aimed at helping Michigan farmers grow their leadership experience and professional development.

MI Ag CORE (Communication, Organization, Relationships, and Engagement) is a development opportunity for any farmer or agricultural professional interested in advancing their leadership skills and experience. The year-long program consists of seven total sessions (three in-person and four virtual) that cover a number of relevant topics.

Visit the MI Ag CORE website at <https://miagcore.com> to learn how you or someone you know can apply. Sponsorship opportunities are also available.



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Email comments, suggestions or article ideas for the *Michigan Soybean News* magazine to soyinfo@michigansoybean.org.

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Protect Family Farms: Estate Tax Changes Could Have Big Consequences

Virginia Houston, Director of Government Affairs, American Soybean Association

It has been the running joke for some time in Washington, D.C., that “every week is infrastructure week.” However, 2021 may finally be the year that we see an infrastructure package move through Congress and be signed into law. Upon his inauguration, President Biden made it clear that his top domestic priority—after combating the COVID-19 pandemic—would be massive new investments in infrastructure.

In late March, the President announced the “American Jobs Plan,” which served as the Administration’s blueprint for what the President wanted to see in a legislative proposal. This plan focused on traditional infrastructure such as highways, bridges, locks and dams. A month later, he announced the “American Families Plan.” This second, less-traditional infrastructure package focused on “human” infrastructure and included proposals on issues such as universal pre-K, paid family leave and increased food assistance.

However, tucked into the bowels of the American Families Plan included proposals that pose a very real threat to American agriculture. As part of the second, “soft” infrastructure proposal, there are major tax changes that could be included to finance these sweeping human infrastructure programs. Under the proposal, unrealized capital gains (those that have never been previously taxed) would be taxed at death above \$1 million in gains for an individual (\$2 million per couple). Capital gains tax liability would be deferred if the farm continues to remain family owned and operated under the proposal, which has met swift push back from Republicans and ag-state Democrats.

An additional proposal would limit the ability to use 1031 like-kind exchanges. Section 1031 allows you to swap land used for business for new business property without having to pay taxes. This allows for sales of farmland tax-free if money made from the sale is used for the purchase of new farmland. Under the President’s proposal, Section 1031 would be limited to no more than \$500,000, after which capital gains taxes would apply. This could make it much more costly to move a farm to new land, whether for better land or other reasons.

With those blueprints in mind, a bipartisan group of senators led by Sen. Rob Portman (R-OH) and Sen. Krysten Sinema (D-AZ) have spent the last few months working together to craft a legislative proposal for a traditional infrastructure package. On June 24, the White House announced a Bipartisan Infrastructure Framework to overhaul the country’s “traditional infrastructure” and make transformational investments in clean transportation, water and power infrastructure, universal broadband, remediation of legacy pollution, and resilience to the changing climate. Additional negotiations continued to resolve lingering issues, and those issues were resolved in the Senate on July 28 by a procedural vote to allow debate to begin on the package.

While the bipartisan infrastructure package does not include changes to capital gains taxes as proposed “pay-fors,” concern remains about the President’s proposed soft infrastructure priorities in his American Families Plan. With this package, there is an increased risk that stepped-up basis could be eliminated as one of the pay-fors. Senate Majority Leader Chuck Schumer and House Speaker Nancy Pelosi have



both indicated that they intend to push a Democrat-only reconciliation package in the fall to address these human infrastructure proposals, which is where these troubling tax proposals could land.

So far, two legislative proposals have been floated that could be incorporated as the “pay-for” in a human infrastructure package: the Sensible Taxation and Equity Promotion (STEP) Act was introduced by Sen. Chris Van Hollen (D-MD), and the For the 99.5 Percent Act was introduced by Sen. Bernie Sanders (I-VT). The STEP Act would eliminate stepped-up basis (with a \$1 million exclusion), and the For the 99.5 Percent Act would decrease the estate tax exemption to \$3.5 million per individual and \$7 million per couple.

A study undertaken by the Agricultural and Food Policy Center (AFPC) at Texas A&M University analyzed the STEP Act and the For the 99.5 Percent Act, using 94 representative farms in 30 states as a baseline. Under current tax law, only 2 of the 94 representative farms would be impacted by an event triggering a generational transfer. Under these two proposals, however, AFPC found:

- Under the STEP Act, 92 of the 94 representative farms would be impacted, with additional tax liabilities incurred averaging \$726,104 per farm.
- Under the For the 99.5 Percent Act, 41 of the 92 representative farms would be impacted, with additional tax liabilities incurred averaging \$2.17 million per farm.
- If both proposals were implemented, 92 of the 94 representative farms would be impacted, with additional tax liabilities incurred averaging \$1.43 million per farm across the 92 representative farms.

These proposals are extremely concerning to ASA, and should they be incorporated into a reconciliation package, threaten the future viability of family soybean farms. It should be noted, however, that the margins in Congress are extremely narrow. The Senate is evenly split 50-50, and margins in the House favor Democrats by only three votes. Coupled with continued in-party squabbles amongst the Democrats over the size of the infrastructure and reconciliation packages, the only certainty is that nothing is certain.

ASA will continue urging passage of the bipartisan infrastructure package on its own merits and educating Congress about the negative impacts a change in stepped-up basis would have on the ability for farming operations to remain in the family and stay competitive. ■



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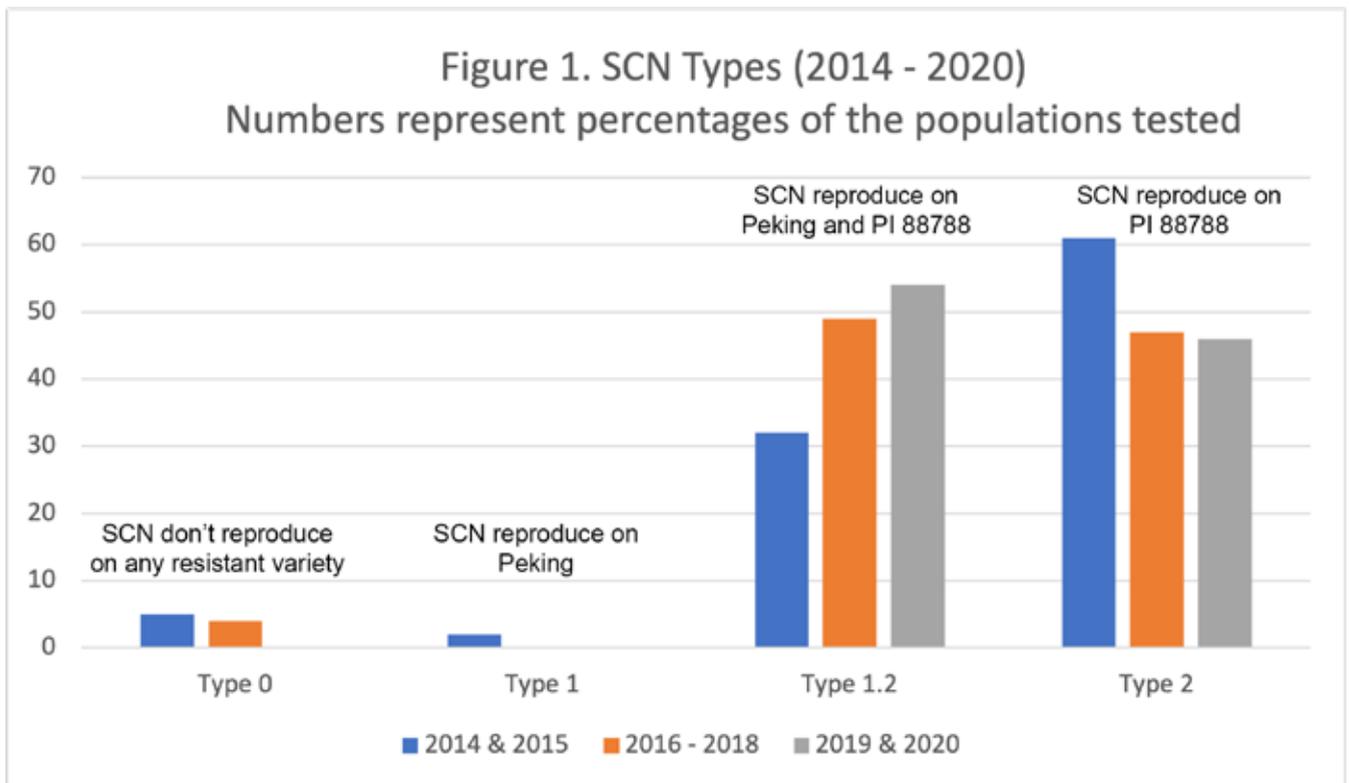
Not Just Hype: Know Your Type

Results of Soybean Cyst Nematode Type Testing 2014 - 2020

Fred Warner and Angela Tenney, Michigan State University Plant & Pest Diagnostic Lab

Introduction

SCN type testing can aid growers in selection of SCN-resistant soybean varieties. The test measures nematode development on three sources of SCN resistance found in commercially available soybean varieties. If a population of SCN develops well on one or more sources of resistance, those sources should be avoided if possible, or at the least, rotated. Since 2014, the Michigan Soybean Committee has paid for SCN type testing for growers. Over those seven years, 271 SCN populations were typed. The SCN sampling program is also sponsored by MSC and has been ongoing since 1996.



The SCN type testing results are broken out into three time periods. In 2014 and 2015 (54 populations screened), SCN type 2 populations were most common. From 2016 – 2018 (125 populations tested), type 1.2 and type 2 populations were detected equally. However, over the past two years (92 type tests done), SCN type 1.2 populations are slightly more dominant.

Results and Implications

How SCN types have changed over the seven-year period of testing is shown in Figure 1. No SCN type 0 populations were observed in 2019 and 2020. In type 0 populations, all lines tested are resistant to those populations. That makes variety selection quite simple as any source of resistance will keep SCN in check.

Type 1 populations appear quite rare. With a type 1 population, SCN develops on Peking but not on PI 88788. Type 1.2 populations are trending upward. A type 1.2 population is one on which it develops on both Peking and PI 88788. In maturity groups 0 – 3, roughly 90 percent of commercially available SCN-resistant varieties have PI 88788 resistance. Varieties with Peking resistance comprised about 80-90 percent of those remaining cultivars. So, as difficult as it can be to locate Peking varieties, it is nearly impossible to find ones without PI 88788 or Peking sources of resistance. For instance, varieties with PI 437654 resistance are the best choices for managing type 1.2 populations but even if you can locate a variety, yield data is limited. Soon, a new source of resistance (PI 89772) will be available to growers in limited supplies. In 2021, we will include this line in our SCN type testing for the first time. This should provide some baseline data prior to growers using this source in their fields.

Ninety-four percent of the SCN populations we screened developed on PI 88788 in 2014 and 2015. Over the next three years, that percentage moved to 96 percent. **In 2019 and 2020, 100 percent of the 94 populations we tested developed on PI 88788. These results suggest that most growers should assume they have type 2 SCN populations in their fields.** Since PI 88788 is the most common source of resistance against SCN, it is critical to recognize as soybean varieties with this source lose their resistance to type 2 SCN populations (these SCN populations become more virulent), these beans will lose yield and SCN numbers will increase. As SCN numbers increase, yields will be reduced even more. Growers need to take steps to prevent significant increases in SCN population densities. To slow SCN increases use varieties with different sources of resistance, protect resistant varieties with seed treatments and extend crop rotations.

The quantitative information provided in a type test is also very important. Based on the amount of development observed, lines can be categorized as resistant, moderately resistant, slightly resistant, and susceptible to an SCN population tested. These results are displayed in Figure 2 for Peking and 3 for PI 88788.

As can be observed in Figure 2, Peking beans are losing their resistance to our SCN populations as Peking was resistant to 69 percent of our populations by the end of 2015 but only 46 percent by the conclusion of 2020.

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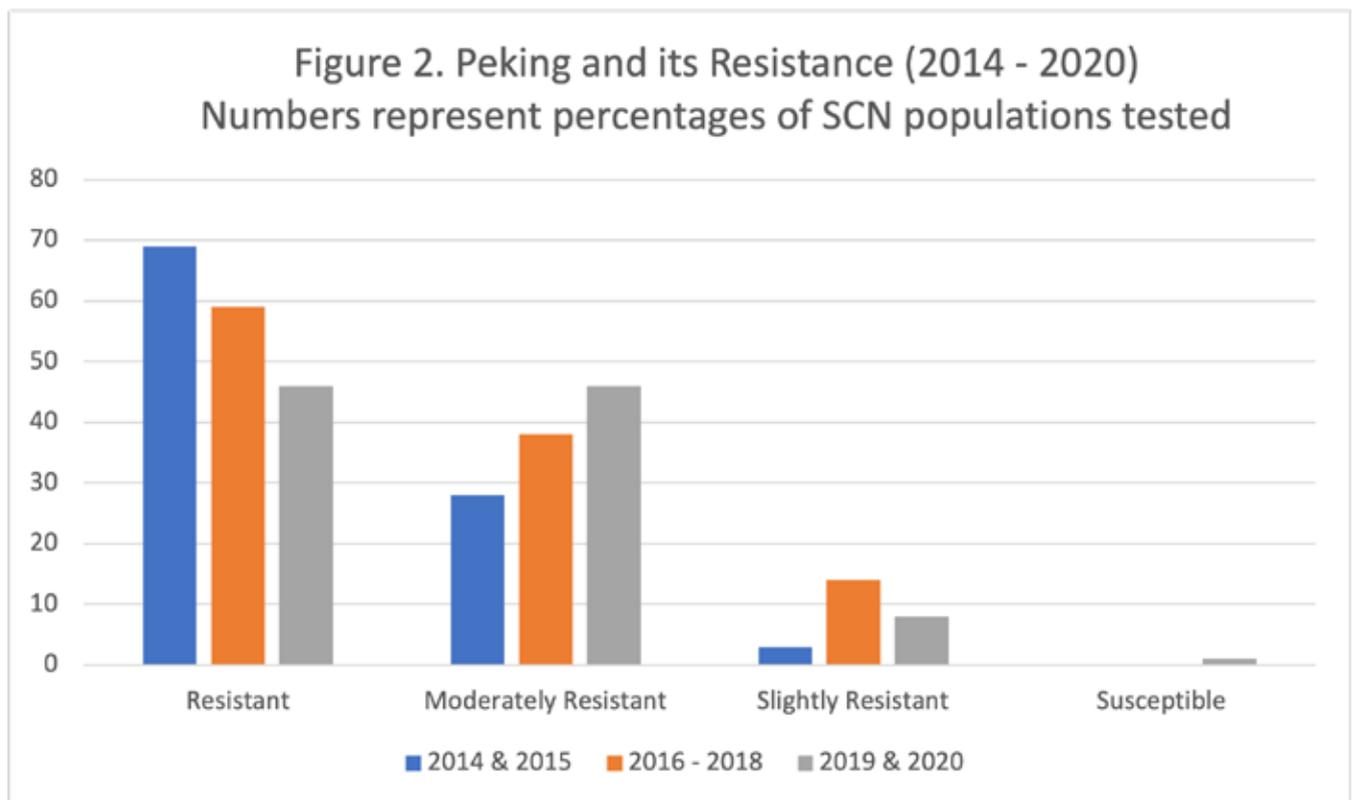


Figure 3. PI 88788 and its Resistance (2014 - 2020)
Numbers represent percentages of SCN populations tested



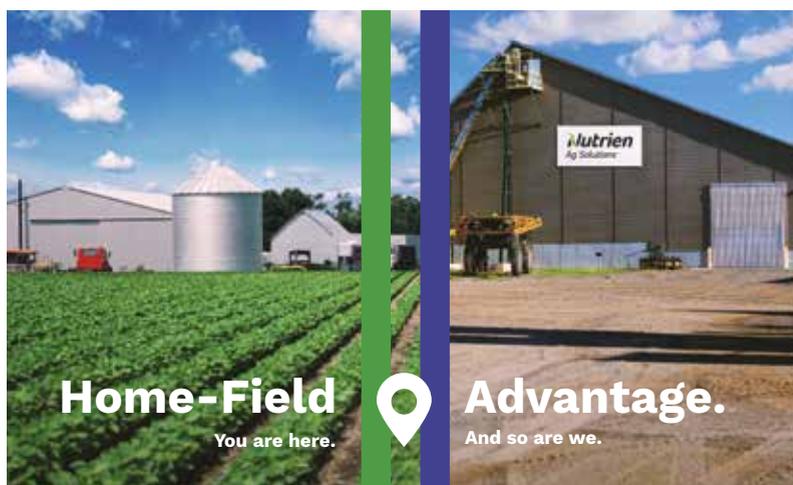
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The situation is a bit different for PI 88788. In the 2019 and 2020 testing periods, we found PI 88788 provided only slight or no resistance against 63 percent of our SCN populations. Therefore, it is easily argued that SCN is reducing yields of PI 88788 soybeans in MI although varieties with this source of resistance still will out-yield SCN-susceptible cultivars.

Conclusions

If growers want to ensure high soybean yields in the future, managing the genetics of SCN populations is critical. We can, and should, observe genetic changes in a population by type testing and not just focus primarily on yields in order to influence soybean yields and to minimize the risks of type shifts.

If you have questions about sampling for SCN or type testing, please contact us at Plant & Pest Diagnostics. Fred can be reached at 517.432.1333 and Angie at 517.353.8563. Other resources include Drs. George Bird and Marisol Quintanilla on campus, Mike Staton in Allegan County, and Mark Seamon with the MSC, as they all have knowledge regarding SCN. We would like to thank the Michigan Soybean Committee for their support over the years. **From 1996 – 2020, soybean checkoff dollars have paid for 24,678 SCN samples as well as the 271 SCN type tests.** ■



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2021 Soybean Harvest Equipment Field Day

Mike Staton, Michigan State University Soybean Extension Educator

On average, soybean producers lose one to two bushels per acre during soybean harvest. Given the projected soybean market price for the 2021-2022 marketing year, this translates to \$13.85 to \$27.70 per acre of lost income. Adverse conditions such as short plants, lodged plants and repeated wetting and drying cycles can significantly increase harvest losses beyond these levels. Because of this, the Michigan Soybean Committee is cooperating with Michigan State University Extension, Kendall English Farms, AWS Airbar Systems, Burnips Equipment, Ellens Equipment, Humm Farms, Hutson Equipment and Janson Equipment Company to conduct the tenth annual Soybean Harvest Equipment Field Day.

The field day will be held on Tuesday, September 28 from 11:30 a.m. to 3:30 p.m. in a field located directly across the road from 6870 E. Tyler Road, Breckenridge, MI 48615. The field and parking are located on the north side of the road about three quarters of a mile east of Wisner Road.

Equipment company representatives will discuss specific recommendations for fine-tuning their combines and the following topics and equipment will be demonstrated or presented.

- Draper heads
- Auger heads
- Air-assisted reels
- Harvest loss measurements
- Harvest recommendations
- Common harvest errors

In addition to learning new information and watching the newest equipment run in the field, participants will receive educational materials related to measuring and minimizing soybean harvest losses and enjoy a complementary barbecue lunch.

There is no charge for the field day. However, preregistration is requested by calling 269.673.0370 ext. 2562 before noon on Friday, September 24 to ensure an accurate count for lunch and educational materials. Please call this same number and extension for cancellation and rescheduling information, as this is not a rain or shine event.

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American Soybean Association



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- Engage in leadership training that will enhance your farming operation as well as your service in other organizations
- Gain tools to better enable you to tell your story
- Meet and learn from agriculture industry leaders
- Connect with soybean farmers from the U.S. and Canada, creating valuable new agricultural relationships

Program information:

PHASE I

Tuesday, Nov. 30 – Friday, Dec. 3, 2021,
at the Corteva Global Business Center in
Johnston, Iowa

PHASE II

Tuesday, March 8 – Saturday, March 12, 2022,
in New Orleans, Louisiana, in conjunction
with Commodity Classic

For more information about the
Young Leader Program and to apply
for membership in the class of 2022,
go to SoyGrowers.com.



Undergraduate Research Support

The Michigan Soybean Committee has transitioned from awarding scholarships to college students to funding small undergraduate soybean research projects. The new system began in 2020 with two projects funded with Michigan State University students. These students coordinated their projects with MSU researchers who integrated their projects into past or existing research.

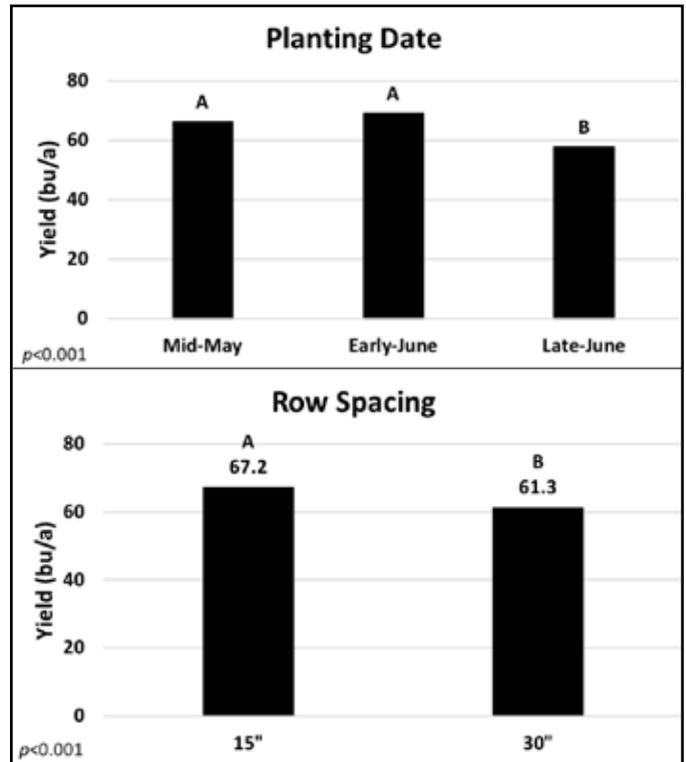
The inaugural year proved to be successful with the two students gaining important soybean production experience as well as contributing to the growing body of knowledge about soybean production. A special thanks goes out to Dr. Manni Singh and Dr. Dechun Wang for providing coordination and willingness to mentor these students and help guide their projects.

One of the students, Madeline Yaek, is a senior Crop and Soil Science student who worked on a project assessing Soybean Response to Row Spacing and Seeding Rate under Various Planting Dates. She shared the following on her project:

The main purpose of this project has been to produce results that help farmers make an informed decision regarding the season's planting methods (planting date, row spacing and seeding rate). Due to every year presenting different challenges with weather and pests, we hope that having multiple years of this study will help round out the information. The first year's results showed us that planting early (mid-May) on 15" rows produced higher yields. However, we saw no statistically significant difference in yields across seeding rates.



Madeline Yaek



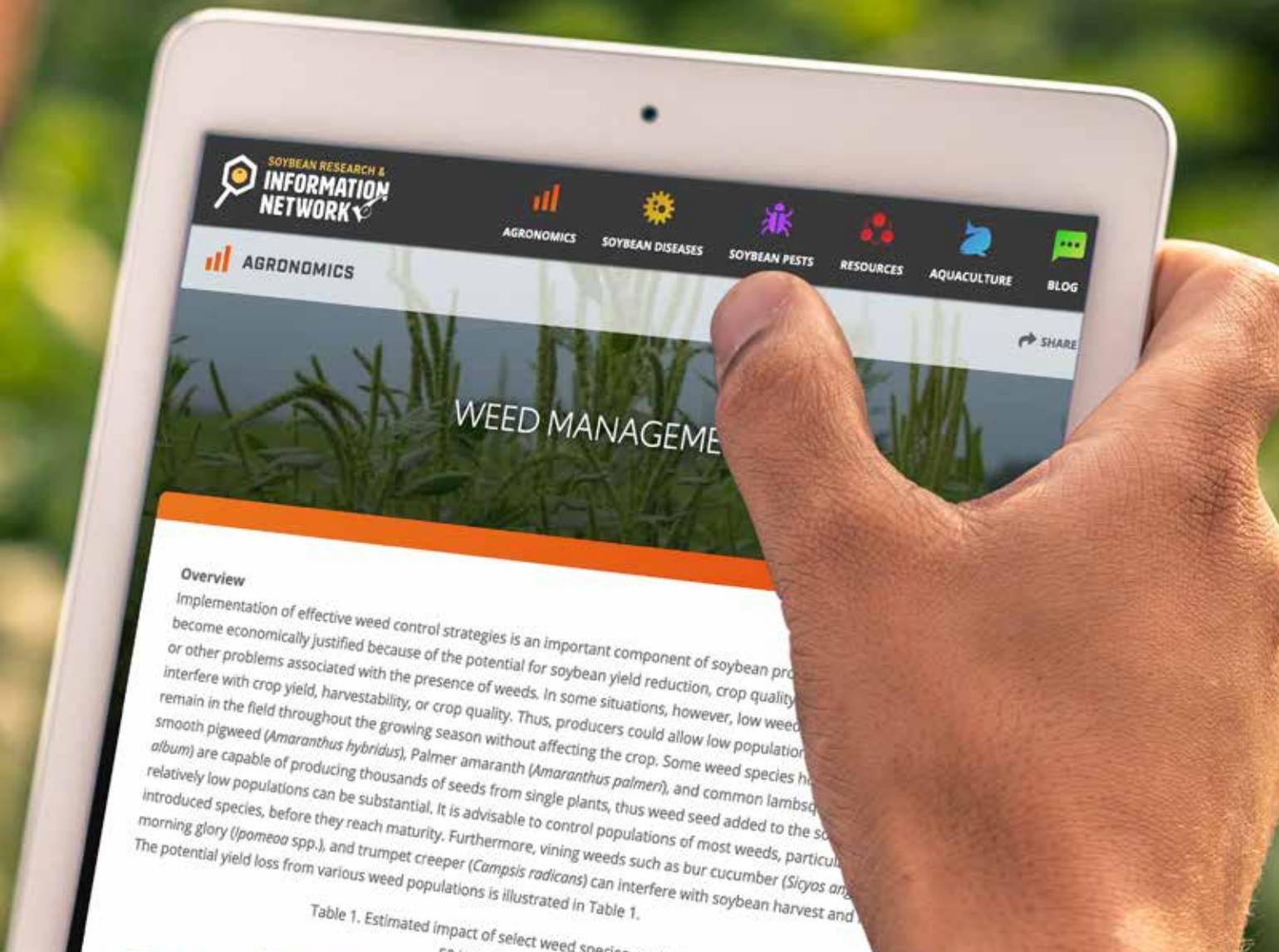
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Regional Efforts to Address Soybean Production Challenges

The North Central Soybean Research Program (NCSRP) is a regional effort to address soybean production challenges which occur, or are a threat to, the north central region of the country. There are now 13 state soybean checkoff organizations that contribute to this entity each year. Under the leadership of Keith Reinholt, Michigan was one of the charter member states, which started a system that has flourished for over 25 years.

NCSRP operates under the direction of a farmer director from each of the member states. In addition, state research directors participate in the program in an informal advisory role while the executive director, Ed Anderson, coordinates the program from his dual role with the Iowa Soybean Association. Ed Cagney, Michigan's farmer representative on the board, is currently serving as president of the organization.

The NCSRP board of directors and state research staff gather each summer at a host state location to learn about soybean production issues. This summer the group was hosted by the South Dakota Soybean Research and Promotion Council. The gathering included opportunities for collaboration among farmer directors, state research staff and some researchers. A tour of South Dakota research highlights included drone-based image technology, inoculant strains, nematicide seed treatments, soybean gall midge research and a tour of a new precision ag center at South Dakota State University. The group also visited a new facility which is processing soybean meal into a higher value feed product for aquaculture, swine and pet feeds. This open sharing of successes helps all states improve their knowledge and identifies additional ways the states can work together.

Another important task of the summer meeting was to select research projects for funding in 2022. Contributions from the thirteen member states total about \$3.75 million. Teams of the top researchers in the region collaborate to build research project proposals that will address critical soybean production issues. While the directors have made funding decisions, negotiations are ongoing with researchers before funding announcements will be made.

NCSRP has developed a very efficient system of addressing the most pressing soybean production issues in the largest soybean growing area of the country. It is another example of the wise investment of soybean grower checkoff contributions.





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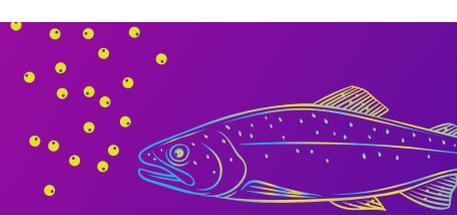
From researching new uses for soybeans to identifying new markets for U.S. soy, the soy checkoff is working behind the scenes to create new opportunities and increase profits for soybean farmers. We're looking inside the bean, beyond the bushel and around the world to keep preference for U.S. soy strong. And it's helping make a valuable impact for soybean farmers like you.

See more ways the soy checkoff is maximizing profit opportunities for soybean farmers at unitedsoybean.org

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What is the value in growing the soy market in aquafeed? According to a 2020 study, total soybean demand in U.S. aquaculture in 2018 was 8.6 million bushels.¹ These numbers are only continuing to grow; aquaculture is the fastest growing domestic protein sector, with a market value of \$160 billion and an expected compounding annual growth rate of 2.5% until 2030.²

Increased Soybean Demand with Projected Inclusion Rate Increases

U.S. aquaculture sector	Current soybean demand (bu)	Potential increase in soybean demand (bu)	Maximum increase in soybean demand (bu)
Catfish			
Minimum ^a	4,910,668	3,629,697	8,540,365
Average ^b	7,707,327	5,263,492	13,404,160
Maximum ^c	11,230,677	8,301,099	19,531,776
Trout			
Minimum	141,612	130,868	272,481
Average	212,419	196,302	408,721
Maximum	283,225	261,736	544,961
Salmon			
Minimum	25,377	874,134	899,511
Average	50,754	1,748,797	1,799,022
Maximum	95,163	3,278,004	3,373,167
Shrimp			
Minimum	12,277	34,785	47,063
Average	16,575	46,960	63,535
Maximum	34,377	97,399	131,776
Tilapia			
Minimum	124,223	152,109	347,077
Average	194,968	238,737	433,705
Maximum	284,097	347,874	542,842
Marine finfish			
Minimum	600	101,396	101,996
Average	900	152,095	152,995
Maximum	1,200	202,793	203,993
Total			
Minimum	5,493,602	4,922,989	10,208,553
Average	8,620,834	8,079,724	16,700,558
Maximum	12,568,208	12,488,905	25,057,133

^aMinimum inclusion rate of soybean meal.
^bAverage inclusion rate of soybean meal.
^cMaximum inclusion rate of soybean meal.

The potential is enormous. Americans today eat an average of 16 pounds of seafood a year³, amounting to about 900 million pounds of salmon and trout alone. However, the U.S. is only producing about 80 million pounds of those fish.

The benefits to U.S. soybean producers are clear: while almost all U.S. based aquaculture feeds are sourced from U.S. farmers, there is significant opportunity to increase this amount with the increase of domestic aquaculture. Increasing soybean inclusion rates in those diets will also increase the opportunity in this growing segment for U.S. soybean farmers. The consistency and dependability of U.S. soybeans has already led to over 240 million bushels of soybeans used globally.

The Soy Aquaculture Alliance is dedicated to expanding the use of U.S.-grown soybeans in domestic aquaculture diets by supporting research that pushes forward the conversation around soy use in aquafeed, growing partnerships and sharing the story of this growing sector.

Learn more about our goals and our research at soyaquaculture.org.

¹Potential Economic Value of Growth of U.S. Aquaculture to U.S. Soybean Farmers
 Carole R. Engle, Engle-Stone Aquatic\$ LLC, Ganesh Kumar, Mississippi State University and Jonathan van Senten, VA SEAfood AREC, Virginia Tech University
²<https://kepleybiosystems.com/aquaculture-feed/>
³<https://www.fisheries.noaa.gov/feature-story/fisheries-united-states-2018>



Soy Aquaculture Alliance

Michigan Soybean Growers Team Up to Trailblaze New Markets Through ASA/WISHH

Jim Wilson would like to tell every Michigan soybean farmer that the American Soybean Association's World Initiative for Soy in Human Health (WISHH) is at the important grassroots level of soy market development in Latin America, as well as Asia and Africa. Wilson recently wrapped up six years of service on the WISHH Program Committee, leading a key role as treasurer on WISHH's executive committee. He was also involved in development of WISHH's new strategic plan, that charts new opportunities for Michigan soy.

From Michigan soybeans used in soy flour for Latin American foods to the launch of new aquaculture feed opportunities in Cambodia, Wilson rattles off many of WISHH's accomplishments as he reflects on his time on the committee. He says that WISHH's accomplishments, including running activities on four continents during a pandemic, should spark a sense of pride for all Michigan soybean farmers.

Wilson sees the fruits of WISHH's new strategic plan already blossoming. The plan puts a focus on

strategic partnerships, and Wilson notes that he's seen the development and strengthening of those partnerships play out firsthand.

"Past trade team trips to Cambodia and Myanmar are particular highlights," adds Wilson, who joined a January 2020 WISHH trade team of farmers and staff who delivered four key soy protein messages to current and potential customers for aquaculture and livestock feeds, as well as human foods.

He notes that businesses and entrepreneurs in the region already understood the value of aquaculture development. Yet, WISHH's work fills an important gap that connects them to U.S. soy. WISHH works at the ground level with food and feed companies and their allied industries to help them develop. As aquaculture, poultry and soy food businesses grow in these regions, demand for U.S. soy is ready to accommodate the growth in demand for raw materials.

"In Cambodia, the farmers were so adaptive to the more modern technology that WISHH showed them. WISHH's USDA-funded aquaculture project really has

gone a long way in helping raise healthier fish and creating a larger yield," he says.

Wilson also adds that WISHH leverages these partnerships with willing entrepreneurs who have already invested in modern feed mills and other infrastructure needs.

WISHH's work, though gratifying, takes patience and skill. Creating effective trade in developing countries and emerging markets means working with entrepreneurs at every step of the value chain, often at the very beginning stages.



Jim Wilson greets a fish hatchery owner in Cambodia while serving on a January 2020 trade team. As aquaculture, poultry and soy food businesses grow, demand for U.S. soy is ready to fill the growth in demand for raw materials.



With support from Michigan soybean growers, WISHH is strengthening emerging markets for U.S. soy in Latin America.

Latin American Companies Create Foods with Michigan Soy

As for where WISHH is going in the future, Wilson mentions that there is a lot to feel good about. “I wish I could go over a list of cooperators or organizations, businesses, and supporters who have had a hand in this,” he adds. “You can look to Latin America, where companies are increasingly using soy flour from Michigan-grown soybeans.”

Wilson also notes that the Michigan-to-Latin America ties don’t stop there. The Michigan Soybean Committee has also supported WISHH’s training sessions, including Northern Crops Institute instruction for Latin American food and beverage companies.

WISHH and NCI hosted a two-day November 2020 webinar-version of NCI’s popular INTSOY Workshop for a trade team of WISHH’s new food and beverage industry key accounts from Panama, Dominican Republic, Nicaragua, Honduras, Guatemala, El Salvador and Costa Rica. A record 81 people registered for the training that WISHH organized by leveraging support from Michigan and other state soybean checkoff organizations with U.S. Department of Agriculture

(USDA) Market Access Program (MAP) funding.

Attendees also included Latin American company representatives who are participating in WISHH’s United Soybean Board-funded initiative that mentors entrepreneurs. Participants from three of the countries were so eager for the information that they joined even as a hurricane swept through Central America.

When asked of other lasting impressions, Wilson adds that he gives a lot of credit to WISHH’s staff and leadership under Executive Director Liz Hare for the strengthening of partnerships in the soy family to benefit international development. “One of the proudest moments I’ll take away is to have witnessed the development of a strong relationship with USSEC and USB.”

Wilson emphasizes that USSEC and WISHH seem to “fit together” to execute a strategy creating emerging markets for U.S. soy. “Michigan farmers should be proud of how WISHH is using funds and leveraging dollars and partnerships. Ultimately, they’re working with partners and showing how U.S. soy can better the lives of citizens in these developing countries while also strengthening emerging markets for U.S. soy.” ■



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