

Winter 2021

MICHIGAN Soybean NEWS[®]

Volume 14 - Issue 1



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Volume 14 - Issue 1

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

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President's Letter



I hope this message finds you all coming off of a successful, bountiful harvest season. As I write this, we are really hoping for the rain to let up here so that we can get back in the fields and get some harvesting done!

Once this harvest finally wraps up, I am really looking forward to seeing some of my fellow farmers as we head into "winter meeting season". I'm especially looking forward to the MSA Annual Meeting of Members, which will be in January at the Great Lakes Crop Summit, in conjunction with the Michigan Corn Growers Association Annual Meeting. I hope to see you

there - it's a great opportunity to connect with others and hear what MSA has been working on.

If you're not a current MSA member, I would encourage you to join! Our organization serves as your soybean-specific voice in Lansing and Washington, D.C., and having you as a member gives us one more voice to bring to those who are writing the laws and policies that affect our farms and livelihoods. Stay safe and thanks for all you do.

Heather Feuerstein,
MSA President



Michigan Soybean Association 48th Annual Meeting of Members

Pursuant to Article V, Section I of the Bylaws of the Michigan Soybean Association (MSA), notice is hereby given that the Annual Meeting of the members of the Michigan Soybean Association will be held on Wednesday, January 26, 2022 at Soaring Eagle Casino, 6800 Soaring Eagle Blvd., Mt. Pleasant, Michigan 48858, convening at 4:30 p.m.

The purpose of the Annual Meeting is to announce new directors and to transact other business as may properly come before the members.

Samantha Krhovsky,
MSA Secretary

Reminder to Return Ballots:

MSA members should have received ballots for board of director elections in their respective districts. Elections are being held in Districts 3 & 6, as well as an election for an At-Large seat. Ballots must be postmarked by December 6, 2021 in order to be counted.

Staff Update - Shopping & Storytelling



People who know me well know I love to shop. I'm an avid online shopper and Amazon Prime fanatic, and FedEx and UPS drivers are no strangers to my address. What some may not know is that I also have an affinity for shopping for items often found offline. A lot of my most prized possessions are items that were cast aside by their original owners and made their way to me secondhand. I'm not picky when it comes to where I acquire these items – I love Goodwill and other thrift stores, antique shops, flea markets, farm auctions, you name it. I'll also admit I have even nabbed some “treasures” off the side of the road. After all, you know what they say about one man's trash...

As I decorate for Christmas with some of my vintage pieces, I catch myself picturing what the items were like in their “past life”. Take for instance one of my better Facebook Marketplace finds - an antique Hoosier cabinet. I can only imagine how many bags of flour have been run through the sifter and how many batches of sugar cookies were rolled out on the enamel work surface. I also think about the old children's sled I bought at a farmstead auction last summer. I use it as a holiday decoration with a pair of old skates and some pine branches and ribbon, but surely it had an exciting past filled with many trips up and down the sledding hill each winter.

You may be asking yourself by this point what my penchant for antique shopping has to do with soybeans, and it's a fair question for sure. We recently completed our strategic planning process, and the outcome includes a renewed focus on communication and outreach, both to you all as our farmer stakeholders, and also to a wide variety of more mainstream audiences including legislators, students, educators and consumers in general.

One of my goals as we hit the ground running with our new strategic plan initiatives is to keep the “story” in mind as we share messaging about soybeans with our target audiences. A lot of the communication I do focuses heavily on facts – research data, crop progress percentages, trade and utilization information – it's all essential to the soybean industry and the role we play as the checkoff, but sometimes it feels a bit like information overload. It's easy to get caught up in the bushels and acres and percentages, but I never want to lose sight of the people we work for and the stories that come along with them.

Not unlike the “treasures” I collect, you as farmers each have a unique backstory about your role in agriculture and how your farm came to be. Some farms have been on the same land, owned by the same family for generations, and others have cropped up more recently as land has changed hands. Some of you have never known a career off the farm, and others came to farming in a more unconventional way. Regardless of your farming story, I encourage you to tell it. Share it with your children and grandchildren. Write it down. Take some time to reminisce about the good old days.

As we head into the new year, I hope you'll notice our efforts to highlight the farmers behind the beans more in the coming issues, and through our other communication efforts. Because if we don't tell the story of agriculture, who will?

If you have a soybean story you think should be shared, send me an email. I'd love to hear from you.

P.S. I'm also not opposed to emails with leads on flea markets and auctions.

"Stories have to be told or they die, and when they die, we can't remember who we are or why we're here."

-Sue Monk Kidd

Take care,

Sonja Lapak,

Communication Director

slapak@michigansoybean.org



Rain Delay Provides Opportunity to Connect

Amidst a rainy harvest season filled with mud, frustration and multiple delays, the Michigan Soybean Association was able to arrange a Legislative Outreach Farm Tour (LOFT) at Stutzman Farms in Adrian.

MSA vice president and ASA board member Matt Stutzman, along with his dad, Bill, his uncle, Jim, and his cousin, Brian, opened their shop to two state representatives to discuss soybeans and their endless potential uses on one of the days when rain made harvest a no-go.

Representative Abraham Aiyash from the state's 4th District and Representative Felicia Brabec from the 55th District visited the farm to learn more, not only about agriculture, but also about industrial uses for soybeans. Their respective districts in Wayne and Washtenaw Counties are primarily urban and situated near a wide variety of industry and manufacturing. They were intrigued to learn about soy's inclusion in Ford's car seats and the many soy biobased products available in the marketplace today.

Both legislators were excited to learn more about the growing season and challenges farmers face, and had lots of great questions about the supply chain and where soybeans go when they leave the farm.



Roy Strom, president and CEO of W2Fuel in Adrian was also on hand to discuss biodiesel and the major market potential for soybean oil in the future, as renewable fuel demand continues to increase.

MSA prioritizes finding opportunities to connect farmers and legislators to have meaningful conversations about the impact legislation and regulation can have on soybean farmers. MSA is always looking for ways to represent our members and make sure their voices are heard, in both Lansing and Washington, D.C. Your membership in MSA helps make this possible. Please consider joining today.

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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!

For more information on member benefits, visit www.misoy.org/member-benefits/.

Member benefits include:

- Scholarship opportunities for your children and grandchildren
- Preferred vehicle pricing opportunities
- Cabela's gift card purchase discount
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- Annual \$75 seed coupon for renewing members to use with our partnering seed companies
- The MOST IMPORTANT MSA member benefit: Having a voice in Lansing and Washington, D.C.!





2021 Michigan Soybean Association Yield Contest

The 2021 Michigan Soybean Association Yield Contest is nearing completion. Harvest data is due at by November 30, 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.

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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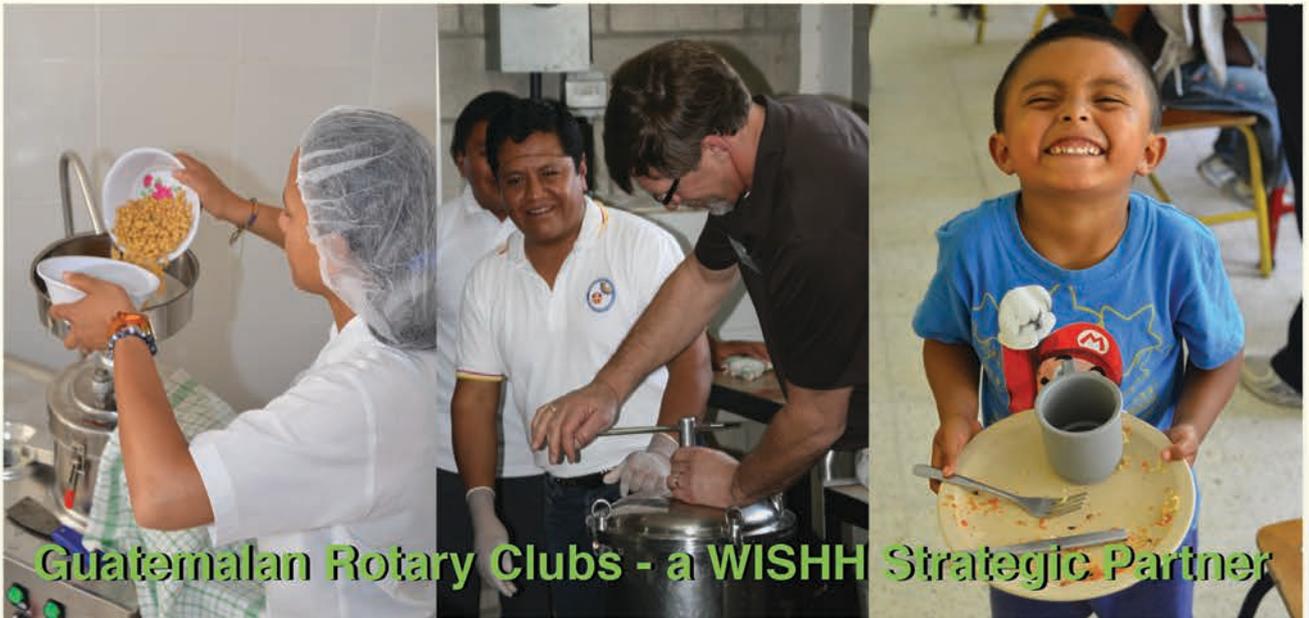
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ASA Infrastructure Update

Farmers need long-term investments in infrastructure improvements

On November 5, the House of Representatives passed H.R. 3684, the bipartisan infrastructure package the Senate passed in mid-August and that soybean growers have supported to assure a modern, efficient transportation structure for American agriculture. This \$1.2 trillion plan makes historic investments in U.S. infrastructure and will greatly impact the competitiveness of soy and other agricultural products for years to come.

Included in the \$1.2 trillion price tag is \$550 billion in new spending over five years. The rest of the funding comes from already-obligated funding that is allocated annually for highways and other infrastructure projects (e.g., authorization of state appointments for federal highway construction, surface transportation block grants, formula-based transit grant programs).

While the bill has reached the finish line, ASA awaits word on the signing ceremony in which President Biden's signature will cross the legislation over the line and into law. Key priorities for U.S. soy in the package include:

Roads & Bridges

In addition to the five-year surface transportation reauthorization, ASA supports the new investments this bill makes in surface transportation—especially the targeted funding to prioritize bridge repair and replacement. Aging roads and bridges hinder the ability for soybean growers to move their crop in a cost-effective manner. In fact, most soybeans spend their first and last 10-20 miles of their journey to market on trucks. Strengthening surface transportation infrastructure will ensure a cost-effective and efficient multimodal transportation structure for moving agricultural products from field to market, in turn keeping U.S. soybeans competitive on a global stage.

Truck Drivers

ASA supports provisions to address supply chain issues and the availability of truck drivers in this bill.

The inclusion of an apprenticeship pilot program for truck drivers under the age of 21 will help recruit new drivers into an industry facing increasing employment shortages. ASA is also encouraged that the bill includes the addition of the backend 150 air-mile exemption from hours-of-service. Both provisions, among others, will help promote agricultural supply chain efficiency.

Waterways

ASA supports new additional funding for both construction and maintenance along our inland waterways, which will complement the investments already made through the 2020 Water Resources Development Act. The inland waterways system is the most cost-efficient mode of transporting agriculture and is significantly more fuel efficient than transporting products the same distance via truck.

Broadband

ASA supports the increased federal focus on improving rural broadband. Increased connectivity will allow farmers to deploy more precision agriculture technology on their farms, which in turn will help improve farming efficiency through more precise application of inputs, less water use, and more.

Biobased Products

ASA supports inclusion of a pilot program that will allow for additional research into the benefits of biobased products, including for use in construction projects. For years, soy growers have invested resources into the development of soy-based materials to extend the life of concrete and asphalt infrastructure, which creates cost savings for states and municipalities while minimizing emissions caused by more lengthy and intensive repair projects. We are excited for this project to help boost visibility of our work and highlight the benefits of biobased products more broadly.





2022 Policy Priorities

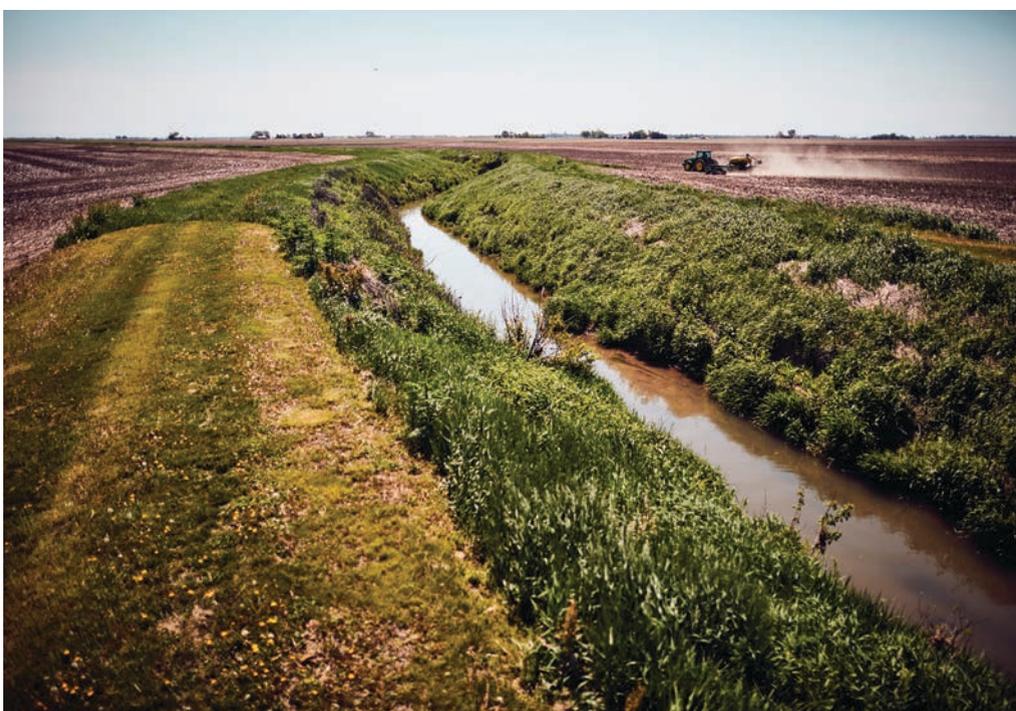
MSA focuses on being a voice for farmers in important conversations

With a great deal of apprehension swirling around climate and carbon conversations, MSA leaders emphasized the need to be engaged in the legislative and regulatory development process regarding carbon sequestration and climate-smart farm management practices when outlining their policy priorities for 2022. The board established a goal that MSA will be a key influence on decision makers as they navigate climate change and carbon sequestration discussions and make

decisions regarding future implications for soybean farmers and their farm management practices. MSA will provide input to the proper departments and legislators as they are making climate and carbon decisions. MSA will also be an advocate for farmer incentives for conservation and carbon sequestration practices.

The MSA board adds this goal to their existing policy priorities for 2022. Existing priorities include maintaining and improving Michigan as a livestock production (including aquaculture) friendly state; supporting farmers' freedom to operate without unreasonable regulations; supporting transportation, energy and communication infrastructure improvements; expanding the use of biodiesel in Michigan; creating and expanding export and trade opportunities for Michigan soybeans; and supporting the use of soy biobased products.

MSA supports





farmers' freedom to operate without unreasonable regulations. Soybean farmers are the original stewards of the land. We support policies that will maintain and improve environmental and economic sustainability of soybean growers. Precision ag technology helps U.S. farmers be more sustainable by using resources—including inputs such as land, water, fuel, fertilizer and pesticides—more efficiently.

MSA encourages the expansion of both renewable diesel and biodiesel use in Michigan, nationally and internationally. Both renewable diesel and biodiesel help farmers and rural communities across the country, increase the diversity of our fuel supply, contribute to our energy independence, reduce emissions and provide additional markets for soybean farmers.

Additionally, MSA supports the increased use of soy biobased products as well as soy in human nutrition. Soy is an exceedingly versatile crop, with many uses outside of the traditional feed and fuel utilizations. Working to identify new uses for soy and encouraging the utilization of these products helps diversify the markets available to soybean farmers and increase the value of U.S.-grown soy.

In addition to these state-derived policy priorities, MSA is also actively engaged in the policy development process at the national level. MSA delegates will participate in the American Soybean Association's policy sessions during Commodity Classic in March. The policy resolutions that are voted on during that session serve as the guide for advocacy at the federal level for the coming year. MSA is committed to representing Michigan farmer's interests throughout this process.

Any farmer interested in advocating with MSA should reach out to an MSA board member or staff person. With more voices, we can amplify our message and achieve our goals.



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MSC Thanks Outgoing Board Members

The Michigan Soybean Committee (MSC) would like to thank Mike Sahr and Dennis Gardner for their terms of service on the MSC Board of Directors. They have served the soybean industry well and we appreciate their contributions to the advancement of our commodity.

“We are sad to see Mike and Dennis leave the MSC Board. Both have contributed in so many ways over the years,” said MSC CEO Janna Fritz. “Mike has provided expertise in organic soybean production practices as well as sharing his extensive knowledge of the crop insurance business. Dennis has been a strong advocate for our production research programs and has offered his own farm for numerous agronomic trials. Both have also given extra time, serving in various leadership roles. We are very appreciative of their contributions to the soybean industry during their years of service.”



Mike Sahr



Dennis Gardner

Mike Sahr of Reese served six years on the MSC Board. He has served on all of the organization’s subcommittees including production, market development and outreach. Mike was also elected to serve as treasurer and later as vice president. He has also served as the president of the Michigan (Dry) Bean Commission.

Dennis Gardner of Crosswell served nine years of the MSC Board. He has also served on all of the organization’s subcommittees including production, market development and outreach. Dennis has served in on the MSC executive committee as secretary, vice president and president at various times through his tenure on the board. He also serves as a director on the Michigan Sugar East District Board and is on the Cros-Lex School Board.

Innovative Fifth Wheel Grease Made with Soybeans

Gear Head Lube, a company that specializes in soy-based lubricants has recently started distribution of a new and patented, soy-based, fifth wheel grease designed to replace petroleum-based products. The new grease pads are now available online with wholesale distribution channels developing soon. Founded in 2019, Gear Head Lube has been testing and developing soy-based lubricants to serve in a variety of applications. The innovative new grease pads are clean, driver friendly and easy to apply.

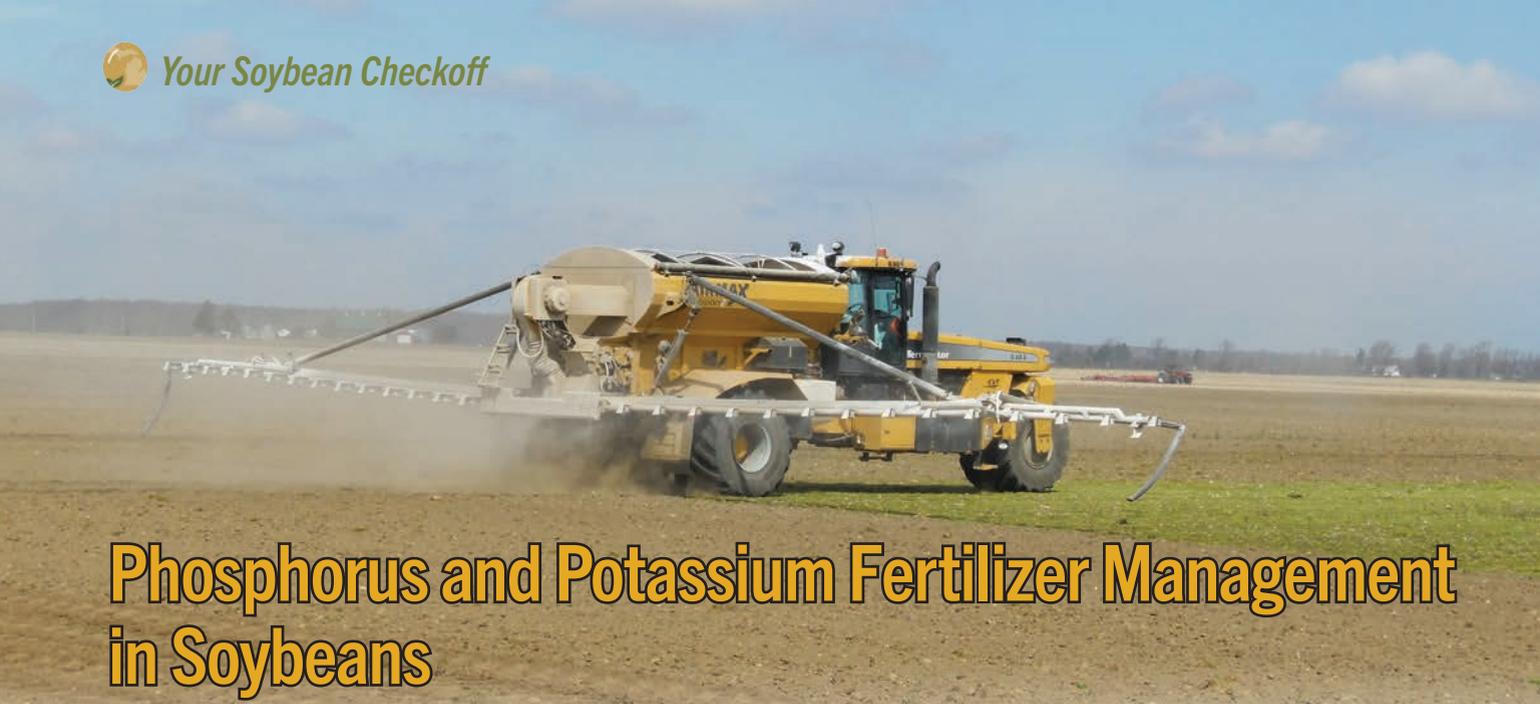


“Our new product is made in Iowa from soy oil. It is 100 percent renewable and environmentally friendly,” says Todd Whiting, Director of Product Development. “The application is extremely clean. You simply place the grease pads on the fifth wheel, and you are done. There is no cleanup, no waste and it eliminates the need for grease guns.”

This revolutionary new product will provide trucking companies, fleet managers, drivers and owner-operators a convenient product and will contribute to a trucking company’s ESG goals. The new soy-based grease pads will allow trucking companies to move toward a more sustainable and green operation without sacrificing performance, increasing cost or making a negative impact on the environment.

For more information on the fifth wheel grease pads or on Gear Head Lube you can visit gearheadlube.com.





Phosphorus and Potassium Fertilizer Management in Soybeans

Mike Staton, MSU Extension Soybean Educator & Dr. Kurt Steinke, MSU Associate Professor of Soil Fertility and Nutrient Management

Phosphorus and potassium fertilizer prices have increased significantly in 2021 and are projected to remain at the current levels or increase further in 2022. Because of this, producers will want to manage these inputs carefully.

The keys to maximizing the economic returns from phosphorus (P) and potassium (K) fertilizer applications are: 1) a comprehensive soil testing program including a current soil test; and 2) maintaining P and K soil test levels above their respective critical concentrations. The critical concentration for a given nutrient is the soil test level at which 95 to 97 percent of the crop's yield potential will be reached without additional inputs of the nutrient.

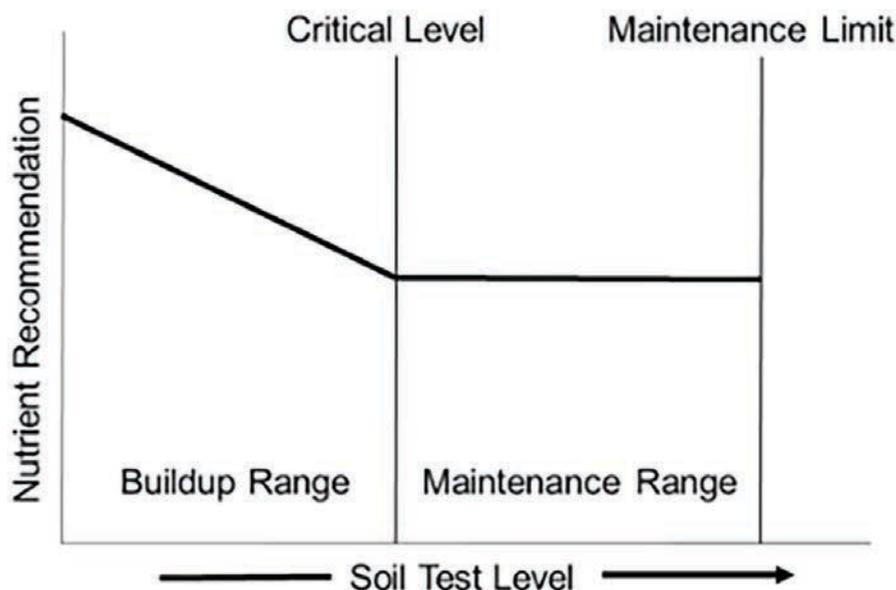
The Michigan State University Extension nutrient recommendation framework for P and K (Figure 1) includes the build and maintain philosophy. When soil test levels are below critical, P and K fertilizer recommendations are higher than crop removal to build up nutrient levels in the soil. At soil test levels

between the critical level and the maintenance limit, P and K fertilizer recommendations are equal to crop removal. At soil test levels greater than the maintenance limit, no additional nutrient applications are recommended.

Phosphorus:

The soybean critical level for phosphorus is 20 ppm and the maintenance limit is 40 ppm. These levels assume that the soil test results are reported as Mehlich III levels not Bray P1. Most soil testing laboratories use the Mehlich III extraction solution but producers may need to request that the results are reported as Mehlich III values

Figure 1. Michigan State University Extension's Phosphorus and Potassium Recommendation Framework.



and not converted to Bray P1 values. The P soil test levels should be maintained between 20 and 40 ppm. Soybeans remove 0.8 lbs/bushel of P_2O_5 , thus maintenance levels of P fertilizer are still required to keep P soil test levels in this range. For a 60 bushel per acre soybean crop, this is 48 lbs. per acre of actual P_2O_5 or about 90 lbs. per acre of monoammonium phosphate (MAP) or about 100 lbs. per acre of diammonium phosphate (DAP). Spring P fertilizer application is recommended over fall application.

Potassium:

For soils having cation exchange capacities (CECs) less than or equal to 5 meq/100 g, the critical level is 100 ppm and the maintenance limit is 130 ppm. For soils having CECs greater than 5 meq/100 g,

Table 1. Phosphorus and potassium critical levels and maintenance limits for soybean (based upon revised Tri-state fertilizer recommendations)

Nutrient	Cation Exchange Capacity (meq/100 g)	*Critical level (ppm)	*Maintenance limit (ppm)
Phosphorus	All	20	40
Potassium	≤5	100	130
Potassium	≥5	120	170

*These soil test levels apply when P and K were extracted using the Mehlich III extraction solution and reported as Mehlich III values and not converted to Bray P1 or ammonium acetate.

the critical level is 120 ppm and the maintenance limit is 170 ppm. Again, these levels apply to soil test results reported as Mehlich III and not as ammonium acetate. Because soybeans remove 1.15 lbs of K_2O per bushel, the maintenance application rate for a 60 bushel per acre soybean crop is 69 lbs. of actual K_2O or 115 lbs. of muriate of potash (0-0-60) per acre. When applying K fertilizer prior to planting soybeans, spring applications are recommended over fall applications on coarse-textured soils having CECs less than 5 meq/100 g

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Your Soybean Checkoff

...continued from previous page

and on organic soils to avoid leaching losses. Producers should be aware of potential saltation issues that can occur with high rates of K fertilizer on fine-textured soils. Environmental factors may exacerbate these issues.

Maintenance P and K fertilizer applications can be applied biannually in corn-soybean rotations under the following conditions:

- the soil is a mineral soil
- the soil pH is less than 7.4 (to reduce P fixation)
- the fertilizer is applied prior to planting corn
- the application rate accounts for the P and K removal by both crops
- the CEC is 5 meq/100 g or higher (to reduce K leaching)

How Phosphorus and potassium fertilizer applications affect soil test levels:

On average, P soil test levels increase 1 ppm for every 20 lbs. P_2O_5 applied above crop removal, although the range is 10 to 36 lbs./acre depending on soil texture. Similarly, K soil test levels will increase by 1 ppm for each 8 to 20 lbs. K_2O applied

beyond crop removal. P and K soil test level will decrease at these same rates when maintenance fertilizer P and K are not applied. Soil test levels for both nutrients will change more rapidly in coarse-textured soils than in fine-textured soils.

How much will my potassium soil test levels change if I decide not to add potash to a coarse-textured soil this year?

For 60 bushels of soybeans/acre:

- $60 \text{ bu/acre} \times 1.15 \text{ lbs. } K_2O/\text{bu} = 69 \text{ lbs. } K_2O/\text{acre}$ removed by the crop
- $69 \div 8 = \sim 9 \text{ ppm}$ decrease in K soil test levels

The effect of various P and K fertilizer application methods (broadcast, deep banding, 2x2 starter and foliar) on soybean yield has been evaluated in university research trials. Broadcast applications have performed well compared to other application methods when soil test levels are above the critical level. When P and K soil test levels are below critical levels, banded applications may improve efficiency but broadcast applications may still be required to build-up soil test levels. ■



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Soy-Based Seed Lubricant is a Win-Win for Farmers

Soybeans have long been called “the Miracle Bean” due in large part to the number of uses attributed to this highly versatile crop. From food to feed and fiber to fuel, thousands of things can be made from this renewable, sustainable crop.

One new innovation available now is a checkoff-funded, soy-based seed lubricant from Low Mu Tech. Dust, as Low Mu Tech founders Dave Kloostra and Brian Tulley named it, is a U.S. soy-based seed box lubricant that replaces the dusty, dark graphite that can easily stain your hands and clothes or the powdery white talc that can be dangerous if inhaled.

Introduced at Commodity Classic in 2018, Dust has been used on acres stretching from Washington state and the Dakotas, through the Midwest and down to the Delta. Research trials for the product were conducted at The Ohio State University, University of Missouri and the University of Tennessee.

“Dust isn’t a hammered or milled product – it’s manufactured to produce tiny round particles, which is why it works so well,” Tulley explained. “Dust is 20 times less abrasive than traditional graphite and talc, helping maintain seed treatment coatings.”

Low Mu Tech’s Dust product is not only a healthier and cleaner product for farmers, but it has some additional environmental benefits. With Dust being 100 percent soy protein, once it’s in the ground, it is metabolized by microbes in the soil and leaves no trace after 28 days.

“We’ve replaced a product that nobody likes using, and it works just as well,” Tulley said. “It’s just a matter of showing how it works. With a new generation coming up in farming, they are questioning more and looking for better alternatives.”

Tulley said, “We are giving farmers the opportunity to use a product they’re growing on their farm, something they do quite well, and it has the potential to increase their revenue. If we can capture even 40



percent of the graphite and talc market, we can increase soybean usage by 2.5 million bushels of U.S. soybeans.”

Kloostra and Tulley hope to continue their partnership with the United Soybean Board and state checkoffs to develop more products to benefit farmers. It’s important to remember that half of the checkoff collected here in Michigan is forwarded to USB for large-scale projects such as this.

“We have several other projects in progress right now and are going to continue working with USB,” Kloostra said. “We wouldn’t be where we are today without the partnership and help from checkoff dollars. Brian and I both grew up in agriculture and believe that this is exactly the kind of thing they had in mind; these are checkoff dollars working on behalf of soybean farmers to advance soy products.”

Learn more at <https://lowmotech.com>.





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SOYBEAN MEAL **COMPETITORS** HAVE ERASED **BILLIONS** IN U.S. FARMER REVENUE

It Costs Michigan Farmers Nothing to Help the U.S. Win Billions Back

Soybean meal is the gold standard in vegetable protein, so sales are increasing in the global livestock market. However, the U.S. farmers' share of the sale to pig producers has dropped more than 70% since 1990. That's because soybean protein is decreasing, and synthetic amino acid companies offer cheap alternatives.

Most farmers don't notice because they aren't paid directly for quality. However, declining protein invisibly impacts every farmer's bottom line. The sales lost in pig markets total billions of dollars during the last decade alone. Quality also hits bottom lines through basis, which costs U.S. farmers up to \$600 million per year in lower elevator checks.

The good news is that it's possible to reverse these losses and maximize farmer revenue over time at no cost to farmers.

Soybean checkoff, university, and industry researchers analyzed more than 50,000 soybean samples and identified varieties most likely to produce higher feed value. Now it's easy for farmers to help boost soybean quality and sales into livestock feed markets in two easy steps:

- 1 Visit mspc.soyvalue.com to order a sample kit at no charge, and we'll send back a report on your soybeans' feed value.
- 2 Visit the Soybean Variety Information tab on soyvalue.com and select a variety with a livestock feed value score above 5.0. Although Michigan variety information isn't currently available on the site, you can select varieties from neighboring states with similar growing conditions to get information on feed value scores for varieties that may also be grown in Michigan. Your submission of soybean samples will allow more Michigan data to be collected and will provide more geographically-accurate information in the future

If every U.S. farmer takes these two steps when they select seed, it could add billions of dollars in value for the entire U.S. soybean industry. That's good for the industry, and better for every farmer's bottom line.



To learn more about improving farm sector revenue and to get a free sample kit for the 2022 harvest, visit mspc.soyvalue.com today!

2022 Michigan Soybean On-Farm Research Winter Grower Meetings

The results of the 2021 soybean on-farm research projects will be presented at our upcoming winter meetings. Participants will also learn about the latest soil fertility research conducted at MSU and hear soybean nutrient management recommendations for 2022. Time will be available for questions, comments and discussion.



**MICHIGAN
SOYBEAN
COMMITTEE**

**MICHIGAN STATE
UNIVERSITY**

Extension

Meeting Dates and Locations:

January 5, The Trestle Stop Restaurant, 3366 M-40, Hamilton, MI 49419
January 6, The Brentwood Restaurant, 178 Park Dr., Caro, MI 48723
January 11, Lenawee 4-H Center, 602 N Dean St., Adrian, MI 49221
January 19, Wagon Wheel American Grill, 7888 E. Grand River Ave., Portland, MI 48875
January 20, GreenMark Equipment, 16700 Heimbach Rd., Three Rivers, MI 49419
January 21, AgroLiquid, 3055 W M-21, St. Johns, MI 48879

Registration Information:

The Michigan Soybean Committee is covering all costs. However, pre-registration is requested to ensure an accurate count for lunch and materials. To register online please go to: <https://events.anr.msu.edu/2022soybeanresearch/>. To register by phone, call the Michigan Soybean Checkoff office in St. Johns at 989.652.3294 and provide the location of the program, your name, phone number and the number of people attending. Please pre-register by Friday, December 31 for the Hamilton and Caro locations and by Friday, January 7 for all other locations.

Agenda:

9:00 a.m. Registration and coffee
9:15 a.m. Soybean Checkoff and Association Updates — Local MSC and MSA board members
9:30 a.m. 2021 Soybean On-Farm Research Trial Results — Mike Staton, MSU Extension Educator
10:40 a.m. Break
11:00 a.m. Summary of current MSU soybean nutrient management research and recommendations — Dr. Kurt Steinke, MSU Soil Fertility Specialist
11:45 p.m. Identify Potential 2022 Research Projects and Discussion — Mike Staton & Mark Seamon
12:15 p.m. Complimentary lunch (courtesy of the Michigan Soybean Committee)

This program has been approved for 1 pesticide applicator recertification credit.

A virtual or recorded option will also be available. Visit <https://www.michigansoybean.org/programs-and-events> to learn more about this option.

MSU is an affirmative-action, equal-opportunity employer. Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, gender, gender identity, religion, age, height, weight, disability, political beliefs, sexual orientation and marital status, family status or veteran status.

2022 Pest and Crop Management Updates

MSU Extension will host six in-person Pest and Crop Management Updates for field crop producers, agronomists and agribusiness employees in 2022. All programs will begin at 8:30 a.m. with registration/sign-in and end by 3:00 p.m. RUP and CCA credits will be available.



Date	Region	Location	Contact
Jan. 12	Central	Gratiot Isabella Regional Education Service District 1131 E Center St., Ithaca, MI 48847	Clinton County Extension Office msue.clinton@county.msu.edu or 989.224.5240
Jan. 24	SW	Dowagiac Conservation Club 54551 M 51 N, Dowagiac, MI 49047	Van Buren County Extension Office msue.vanburen@county.msu.edu or 269.657.8213
Feb. 1	Thumb	Saginaw Valley Research & Extension Center 3775 S Reese Rd., Frankenmuth, MI 48734	Lapeer County Extension Office msue.lapeer@county.msu.edu or 810.667.0341
Feb. 3	NE	University Center Gaylord 80 Livingston Blvd., Gaylord, MI 49735	Presque Isle County Extension Office msue.presqueisle@county.msu.edu or 989.734.2168
Feb. 8	SE	Family Center - Immaculate Conception Parish 21 Ann St., Milan, MI 48160	St. Joseph County Extension Office msue.stjoseph@county.msu.edu or 269.467.5511
Feb. 10	Thumb	Beagio's 5795 Sanilac Rd., Kingston, MI 48741	Lapeer County Extension Office msue.lapeer@county.msu.edu or 810.667.0341

Participants of the Pest and Crop Management Updates will hear MSU Extension specialists present the latest recommendations for managing weeds, diseases and other pests and receive a copy of Extension bulletin E-434 “2022 Weed Control Guide for Field Crops”. The topics covered at the programs will be determined by the local hosts and will vary depending on priorities in each region. Detailed agendas for all programs are available online or by calling the host Extension office.

The cost of the Weed Guides will be covered thanks to the generous support of the Michigan Soybean Committee, Corn Marketing Program of Michigan and Michigan Wheat Program, so attendees will only need to pay \$35 for actual meeting costs including a light breakfast and lunch. Pre-registration online is required to ensure an accurate count for meals and materials. Please register at least one week before the event you plan to attend by visiting the registration website at <https://tinyurl.com/msupcmu22>. Register soon as space will be limited at some locations.

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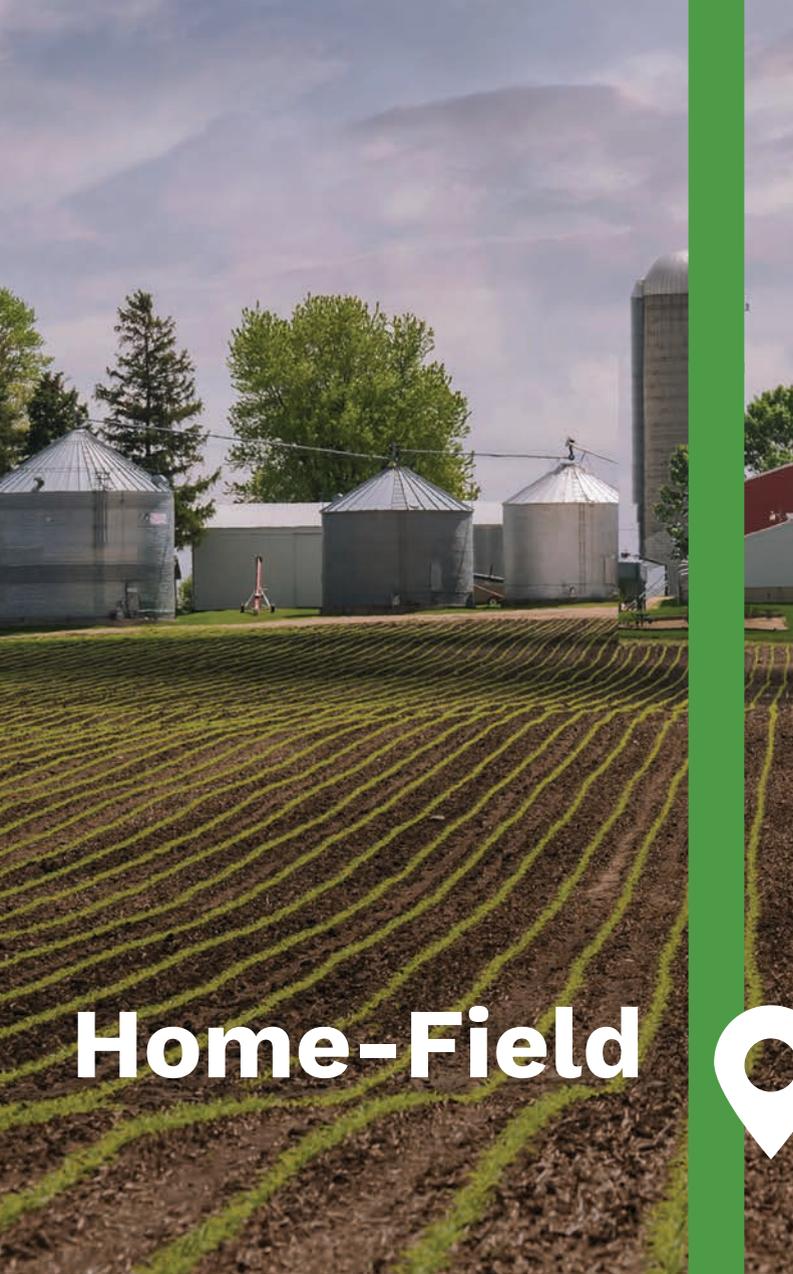


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Governor Appoints Farmers to MSC Board



John Burk



Pete Crawford



Scott Wilson

Governor Gretchen Whitmer recently appointed two new directors and reappointed one director to the Michigan Soybean Committee Board of Directors.

John Burk of Bay City is the owner of Burk Farms. He holds a bachelor's degree in agricultural technology and a master's degree in crop and soil sciences from Michigan State University. John is appointed to represent District 5 growers for a term commencing September 24, 2021 and expiring September 23, 2024. He succeeds Michael Sahr, whose term expired September 24, 2021.

Pete Crawford of Dansville is the owner of Crawford Farms. He studied soil and chemical technology at Michigan State University. Pete is reappointed to represent District 2 growers for a term commencing September 24, 2021 and expiring September 23, 2024.

Scott Wilson of Lexington is a partner with Wilson Farms, LLC. He received his Bachelor of Science in Mechanical Engineering Technology from Central Michigan University. Scott is appointed to represent District 4 growers for a term commencing September 24, 2021 and expiring September 23, 2024. He succeeds Dennis Gardner, whose term expired on September 24, 2021. "After spending three years on the Michigan Soybean Association (MSA) Board of Directors, I am excited to join the checkoff board (MSC) to learn more about how the two organization work together for the betterment of the Michigan soybean industry. I am most excited to work on the continuation of MSC's work with production research in conjunction with their market development activities," said new MSC Director Scott Wilson.

"The Michigan Soybean Committee has a strong history of outstanding leaders. The addition of these three individuals continues that tradition," said MSC CEO Janna Fritz. "Pete Crawford's existing knowledge base and history are a valued part of our board and we are excited to have him serve for another term. Scott Wilson's experience on our partner board, MSA, provides an opportunity for additional sharing and partnerships between both organizations. Additionally, John Burk brings a great deal of past leadership from other state boards. This opens the doors to more statewide partnerships and collaborations."

We look forward to working with these farmers and appreciate their willingness to serve the Michigan soybean industry.



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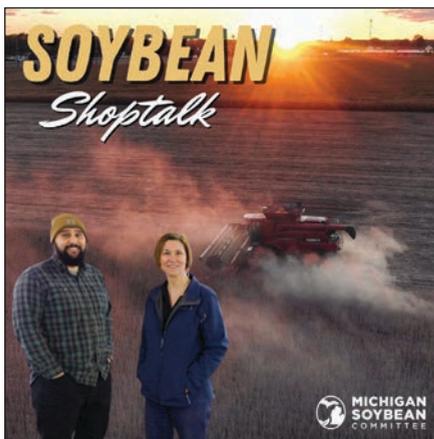
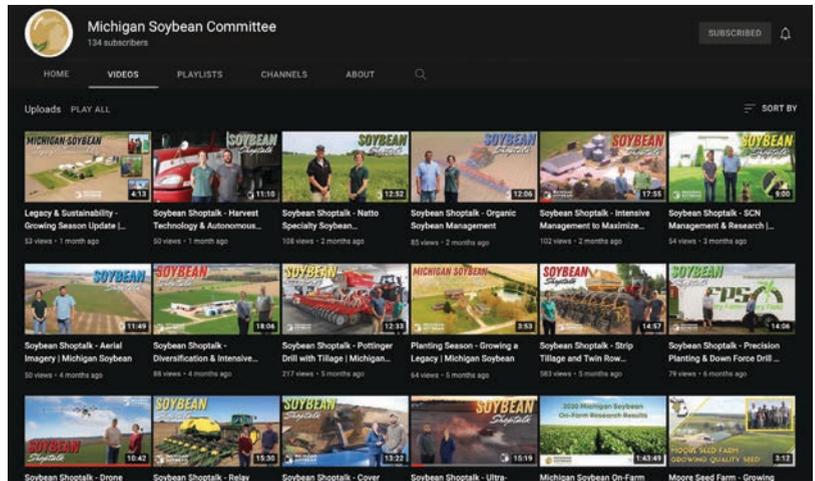
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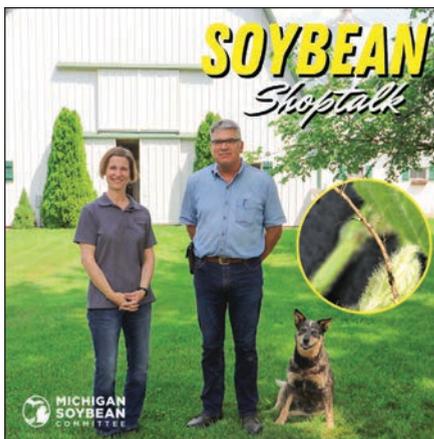
Soybean Shoptalk Video Series

Have you seen any of our Michigan Soybean Shoptalk episodes on YouTube or Facebook? If not, you are missing out on some great farmer-to-farmer insights. This biweekly video series ran on our social media channels during the growing season, from April through October. Each of the episodes is an interview with a Michigan soybean farmer and features innovative topics that farmers can implement on their farms.

If you missed them, don't despair! You can still catch the episodes on our YouTube channel. Search Michigan Soybean Committee to find our channel and look for the Soybean Shoptalk videos. Subjects ranged from drones to autonomous tractors, Natto soybean management to relay cropping and more. There is something for everyone and all the content comes right from your fellow Michigan soybean farmers.



As we wrap up this harvest season and you prepare for next year, you may be curious about ultra-early soybean planting. If so, check out the episode with Jake Isley of Palmyra. Jake and his family have been planting soybeans as early as April 6 for the last three years. He offers tips on what to look for in your soil conditions and the challenges you should know ahead of time if you are interested in putting soybeans in early next year. One major takeaway was that the date on the calendar is not as important as the soil conditions. If conditions are fit, you can put soybeans in early and increase your yields. Check out this segment to learn more.



If you were not overly happy with your soybean yields this year, but had decent conditions, check out the episode with Greg Mahoney on soybean cyst nematodes (SCN). This yield-robbing pest could be holding back your soybean yield potential. Greg has been participating in SCN research for more than 20 years. In the video, he talks about testing and management techniques that may help lessen your nematode populations. He also shares resources that any farmer could use to learn more about SCN.

In the coming issues of the *Michigan Soybean News* magazine, watch for additional episode highlights from the series. MSC would like to thank the farmers who contributed their time and insight to help make this informational series a success. We will be staying in touch with the farmers from the series to see how their soybean management practices have improved farm profitability for the future.

Farmers Making a Difference

You are invited to join a group of Michigan farmers who are making a global difference by doing what they do best – farming! To date Michigan farmers and their communities have raised over \$8.3 million to address world hunger in partnership with Growing Hope Globally.

811 million people around the world suffer from hunger. Four out of five of them live in rural areas and depend on agriculture for their livelihood, yet struggle to make ends meet.

People everywhere want the dignity of being able to provide for themselves. Growing Hope Globally supports 40 agricultural development programs in 27 countries around the world. These programs make a lasting impact, working with local partners that understand the context and offer the right tools and training to help families provide for themselves. Building skills and empowering communities leads to positive change that makes a difference for a lifetime.

Growing Hope Globally brings U.S. communities together to respond to global hunger from right where they live through a unique Growing Project model. Farmers grow crops or raise animals while businesses, churches and individuals cover the input and land costs so that, when sold, the entire profit can be used to support agricultural development programs around the world. With each one doing their part, the impact is multiplied beyond what any individual could do on their own!

Jim Elwell, a farmer from Climax, Michigan said, “I support Growing Hope because it is so much more fulfilling than putting a check in the mail. Farming is my passion and I love sharing it with other people around the world, even if they are farming with a shovel and a hoe instead of a planter and a tractor. It is a unique way of helping people help themselves.”

To learn more or get involved, visit GrowingHopeGlobally.org or contact Rachel Conley at rachel@growinghopeglobally.org.



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Soybeans Go to School Kit

Are you a teacher? Do you know a teacher interested in educating their students about soybeans and agriculture?

Again this year, the Michigan Soybean Committee is offering their Soybeans Go to School Kit to Michigan teachers. The comprehensive kit is aimed toward third, fourth, and fifth-grade students. Lessons include the growth of a soybean plant, how soybeans impact our everyday lives, the history of the soybean, and so much more!

Teachers receive comprehensive slides along with all materials needed for each lesson

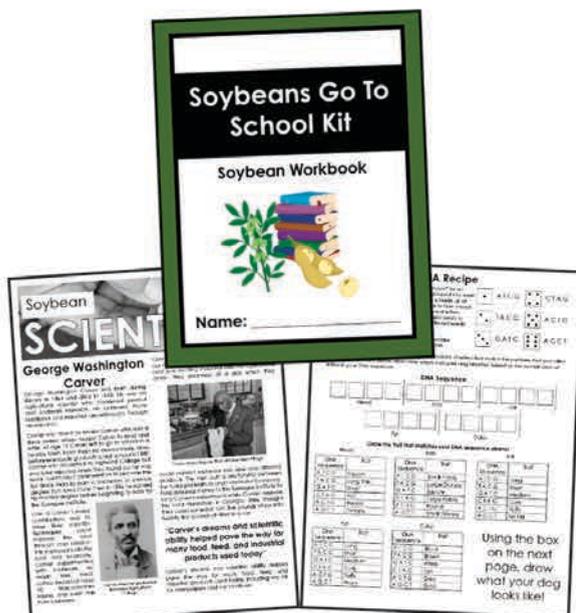


The kit is offered to teachers compliments of Michigan soybean producers through their investment in the soybean checkoff.

Since 1999, the school kit has reached over 228,000 students across the state of Michigan, teaching them the importance of soybeans and agriculture in the state of Michigan.

To view lesson materials and order a kit please visit us at:

michigansoybean.org/school-kit.



Each student receives a Soybean Workbook with supplemental materials for each lesson.



On World Food Day and every day, WISHH'S strategic partners take local action.



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WISHH is a program of the American Soybean Association and is funded in part by the United Soybean Board and state soybean board checkoff programs.

Michigan Soybean Committee Welcomes New Demand Specialist

The Michigan Soybean Committee (MSC) is excited to announce Hannah Lange has been hired as the new demand specialist. Hannah joined the Michigan Soybean team in September and hit the ground running on a variety of different projects.

Hannah earned her Bachelor of Science in Agriculture, Food and Natural Resources Education from Michigan State University in 2015. Since graduating from MSU, Hannah was employed by Michigan Farm Bureau, where she worked in the member services department, and then served as the central regional manager. Through her time in these roles, Hannah gained vast experience in program management, event planning, volunteer coordination, training, goal setting and strategic planning. She also worked with a diverse group of farmers involved in many different aspects of the agriculture industry.

As the demand specialist, Hannah will be working on a variety of market development and demand projects as they relate to the strategic objectives of the checkoff. Project focuses include domestic and international soybean demand, biodiesel, biobased products, transportation and infrastructure, specialty soybean market promotion and more.

The board and staff of the Michigan Soybean Committee are excited to have Hannah join the team and use her background and skills to help further grow the Michigan soybean industry!



Have an article suggestion?

Email comments, suggestions or article ideas for the *Michigan Soybean News* magazine to

soyinfo@michigansoybean.org.

No longer wish to receive the *Michigan Soybean News*?

Email your name and mailing address to slapak@michigansoybean.org.



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A Bit of History - The Story of Soya Beans

We recently received a note in the mail to our soybean office address, which prompted us to put together this article. The note read as follows:

To Whom It May Concern:

Enclosed is a copy of a letter from Iowa, written by Ida Jacobs Honderd. Ida's niece was our sister-in-law (now deceased) and the letter was sent to her. (Ella Mae (Meeuwsen) Morren)

We get the Michigan Soybean News and thought you might be interested in reading this bit of history. The letter was written many years ago - 50+ is my guess. You are welcome to do with it whatever you wish.

Don Morren
Hudsonville, MI

P.S. It was our privilege to visit Ida in her home and enjoy a meal while we were in Iowa for a Farm Progress Show. She was a "genuine jewel".

I can't tell you how excited I was to receive both the note from Don and the copy of Ida's letter. As mentioned in my staff update article on page 5, we are working on sharing more about our farmers and their stories, in addition to our usual soybean content. This letter is a perfect example of that. I typed up Ida's full letter so it was easier to read - I hope you enjoy reading through her memories of how soybeans came to be grown in Iowa.

This article may be a bit different than our usual magazine content, but I thought some of our readers may be just as intrigued as I was to read about this



Rhoda '50, Norman '57, and Ida Honderd in about 1946. Ida was the former Ida Jacobs and attended Pleasant Grove School. Ida became the "go to" person for any information about the Pleasant Grove area and Rhoda was the "go-to" person for Milford Alumni Reunions.

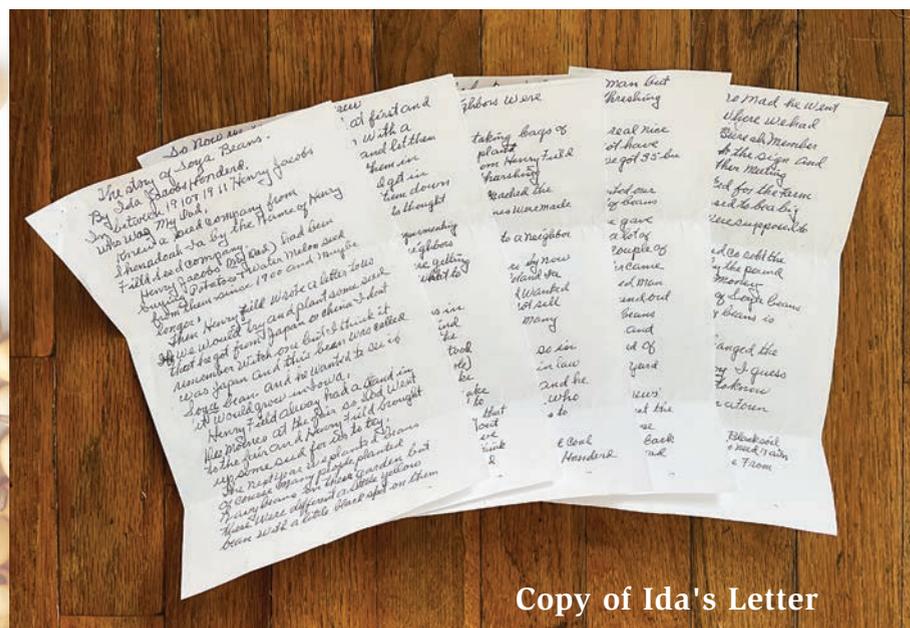
Photo Credit: iastory.org

bit of history. It's so interesting to read someone's recollections about a series of events that happened so long ago.

After reading her story, I found myself wanting to know more about Ida. During a quick Google search, I came across her obituary. I learned that Ida lived to be 98. She was born in 1902 and married Rhiner Honderd in Chicago in 1927. (I believe that was the coal mine engineer that fixed threshing machines, who she mentioned in her story. I had wondered about that when reading her letter, based on their last names.)

I also found a picture of Ida and two of her children (seen above) during my quick research. Ida and her family were active members of their community in Iowa, and it seems they had a few different connections to Michigan as well.

I hope you enjoyed learning a bit of soybean history. If you have a historical soybean story to share, feel free to email me at slapak@michiagnsoybean.org.



Copy of Ida's Letter

The Story of Soya Beans

By Ida Jacobs Honderd

In between 1910 and 1911, Henry Jacobs who was my dad knew a seed company from Shenandoah, Iowa by the name of Henry Field Seed Company. My dad had been buying potatoes and watermelon seed from them since 1900 and maybe longer. Then Henry Field wrote a letter to us asking if we would try and plant some seed that he got from Japan or China (I don't remember which one, I think it was Japan) and this bean was called Soya bean. He wanted to see if it would grow in Iowa.

Henry Field always had a stand in Des Moines at the fair so dad went to the fair and Henry brought up some seed for us to try. The next year we planted beans. Of course, many people planted navy beans in their garden, but these were different. A little yellow bean with a little black spot on them.

So now the Soya beans grew. Dad planted a small patch at first and he would mow them down with a mower and rake them up and let them dry. Then they would put them in a wagon box and stomp them down. We girls and the neighbor kids thought that was fun.

Finally, after three years of experimenting, dad went out to see if the neighbors would plant some, as we were getting more beans than we knew what to do with. Dad had ground up the beans in a grinder we had that you grind with two horses. (By the way, the cement base that the grinder stood on is still there by the light pole at the farm.) He would grind the beans and put them in a barrel and make slop or mush water and feed it to our pigs. Our pigs were so shiny that an experiment station found out about our nice hogs, so we did not have trouble selling our hogs. I don't think they ever found out we were feeding them Soya bean.

Now some of our neighbors were planting Soya beans. I can still see my dad taking bags of beans for the neighbors to plant. We also got some more from Henry Field. By then everyone had threshing machines, but they just cracked the beans. The threshing machines were made for oats and wheat. So, we had to take the beans up to a neighbor that had a fanning mill.

That went on for a few years – by then it was about 1915. A man in Roland, Iowa had started a seed store and wanted our beans, but we could not sell them because there were so many cracked ones.

But dad still raised beans so in the fall of 1919 my brother-in-law Frank Doolittle came down and he said he knew of someone who could fix threshing machines to thresh out the beans. He was an engineer at the Summit Coal Mine and his name was Hiney Honderd. Nobody knew this young man, but he fixed the neighbor's threshing machines. So that year we got 100 bu of real nice beans. Remember, we did not have much land, so I suppose we got 35 bu to the acre then.

So then the seed man wanted out beans. 100 bushels was a lot of beans to us then and Mr. Skromme gave dad 400 dollars. That was a lot of money back then, but in a couple of days, the Farm Bureau leader came up to our house with the seed man and visited a while and found out all dad knew about Soya beans and how he planted them, and what kind of fertilizer he used. Of course, we used our barnyard fertilizer.

Then came the bad news. He said, "Henry, you can't expect the seed man to pay \$400 for these beans." So they took the check back and they gave us \$200 instead.

I remember dad got so mad he went down the road to where we had a big sign that read "A Farm Bureau Member Lives Here" and took the sign down and he never went to another meeting. For years he had worked for the Farm Bureau – it was supposed to be a big deal and all the farmers were supposed to stick together.

Anyway, when the seed company sold the beans, they sold them by the pound and really made good money.

So that is the story of Soya beans as I remember. Now soybeans are Iowa's big crop. But some way they changed the name from Soya to Soy. I guess they don't want anyone to know they started way back in a foreign country.

We had raised beans in black soil and sandy soil, but they do need rain. Around Story County, Iowa they average from 35 to 55 bushel per acre.

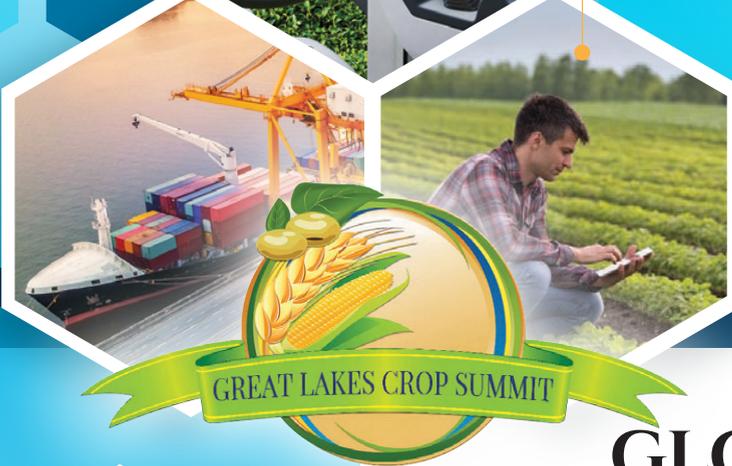
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GLCS KEYNOTE SPEAKERS

PAUL LONG – Fundamism

Paul J Long travels the world delivering high-content keynotes and training to Fortune 500 companies, government agencies and trade associations. His engaging, inspirational, and unbridled energetic style is unlike any speaker you've experienced before. Paul is the author of Fundamism: Connecting to Life Through F.U.N. which guides you on how to live your whole life – at work and at home – with FUN, joy, and fulfillment as the driving force. The book does so through Paul's entertaining real-life stories, researched-based recommendations, and practical exercises.



CHAD PAALMAN – Cybersecurity on the Farm

Chad is CEO and co-founder of NuWave Technology Partners. Chad is also the co-founder of Prescott and serves on the board of directors. He is currently serving on Cisco System's Small & Mid-Market Advisory Board, as founding member and chair of Cisco System's Managed Service Provider (MSP) Advisory Board. Chad's previous positions include the CompTIA Partner Advisory Council, The Channel Company's Xchange Advisory Board, The Channel Company's NexGen Cloud Advisory Board, Lansing Community College & Career Quest Learning Centers IT Curriculum Advisory Boards, the Michigan FFA Foundation Board, Sparrow Hospital Foundation Board, both the Leadership Council & Past Chairman of the Board of Directors for the Small Business Association of Michigan (SBAM).



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Space is limited, so register by Jan. 7, 2022 to guarantee your spot. Walk-ins are not guaranteed a space. You may also register online at www.GreatLakesCropSummit.com or by phone at (888) 323-6601.

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Name: _____

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Please check the option that primarily describes you:

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Please check the options that describe you (You may select more than one)

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The Great Lakes Crop Summit (GLCS) will use your email address to provide updates related to your registration. By registering for the conference, you agree that GLCS may share your registration information with sponsors and exhibitors of GLCS 2022. If you do not wish to have your email address shared with sponsors and exhibitors, please indicate in the box below.

I do not wish to have my email address shared with sponsors or exhibitors.

Registration Fees	Early	Late After Jan. 7	Number of People	Total
First Attendee (Both Days)	\$150	\$175	1	\$ _____
Additional Attendees (Both Days)	\$125	\$150	_____	\$ _____
Student - Wednesday (ID required at check-in)	\$50	\$50	_____	\$ _____
Student - Thursday (ID required at check-in)	\$50	\$50	_____	\$ _____
Total Number of People & Fees:			_____	\$ _____

Form of Payment: Check Visa MasterCard Discover American Express

Card #: - - - Exp. Date: ____ / ____ CCV: _____

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Cardholder's Name: _____ Signature: _____

**Return registration form with check, made payable to Great Lakes Crop Summit, or credit card information to:
Great Lakes Crop Summit - 13750 S. Sedona Parkway, Suite 5, Lansing, MI 48906**



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