



THE SEED CONSULTANT

A QUARTERLY NEWSLETTER NEWS AND VIEWS FROM THE FIELD

GETTING A HANDLE ON TAR SPOT

What we know about this new disease

SOYBEAN GALL MIDGE

What to look for when scouting this pest

DO YOU HAVE PROBLEMS WITH SOYBEAN CYST NEMATODE?

Recognizing the signs

FIELD DAYS

We are eager to welcome you back to in-person events

GETTING A HANDLE ON TAR SPOT

By Bill McDonald, CCA

Director of Agronomic Services

740-837-0364

bill.mcdonald@seedconsultants.com

For most of us, there is a new disease affecting corn that we will need to keep an eye out for in our fields. Tar spot was first documented in Mexico in 1904. As shown by the map, Tar Spot was first detected in the United States in 2015. Since then it has continued to mushroom out.

At this point, there is limited knowledge about this new disease.

WHAT DO WE KNOW?

- The first confirmed cases in the United States were found in 2015 in a few counties in Illinois and Indiana.
- By 2019 it had spread to 6 States in the Midwest.
- Stromata (Black fungal structures which have the appearance of tar being flung onto the leaf by a paint brush) can be detected as early as V8 but most likely won't be seen until tassel.
- Tan lesions may form around the Stromata. (aka "fisheye" lesions)

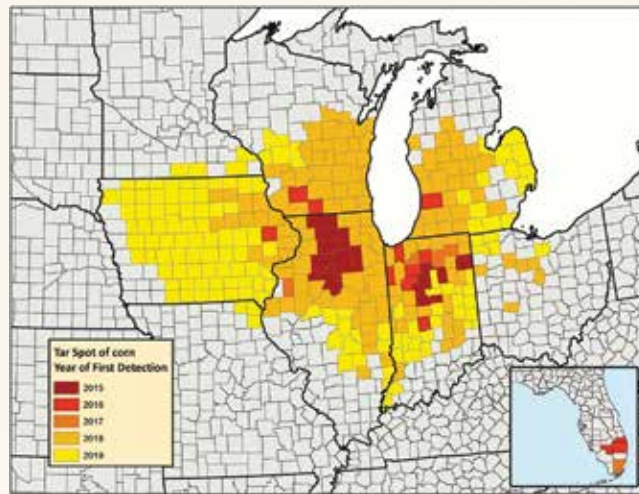


This picture which was taken by Bill McDonald in Indiana recently.

Our goal is to develop and bring to you the varieties that can best handle the stresses of diseases and the environmental hurdles that Mother Nature throws at you.

- Stromata can develop on the upper and lower surfaces of the leaf as well as the stalks and husks.
- Tar Spot can overwinter in crop residue.
- Tar Spot is not known to be seedborne.
- There have been reported yield losses of 20-60 bushels per acre, if left untreated.
- Environmental conditions that favor the spread of this disease are temperatures between 60 and 74 degrees with leaf wetness lasting for 7 hours or more along with humidity reaching 75% or greater.
- There are varieties that seem to handle it better than others.
- Some of the same fungicides used in the control of Northern Corn Leaf Blight and Gray Leaf Spot in corn have, or are developing supplemental labeling for Tar Spot.

The incidence and spread of Tar Spot of corn, caused by *Phyllachora maydis*, in the United



The incidence and spread of tar spot of corn, caused by *Phyllachora maydis*, in the United States from 2015 to 2019. (Image originally published in Kleczewski et al 2020, *Journal of Integrated Pest Management*)

States from 2015 to 2019. (Image originally published in Kleczewski et al 2020, *Journal of Integrated Pest Management*)

Corteva is working tirelessly in their Impact Plots in locations where disease presence has been confirmed. Seed Consultants also has replicated plots scattered all over our service area, including some counties where the disease has established a presence, which are and will be continually scouted and monitored for not only this, but other diseases. Our goal is to develop and bring to you the varieties that can best handle the stresses of diseases and the environmental hurdles that Mother Nature throws at you.

Knowledge is only developed over time. We would like to enlist your help in identifying the varieties in our lineup that can, or cannot handle Tar Spot. Don't hesitate to call your DSM if you see anything in your field that doesn't look right.

SOYBEAN GALL MIDGE

By Jordan Bassler

Field Agronomist

570-980-3906

jordan.bassler@seedconsultants.com

Soybean Gall Midge was first detected in 2018 in the upper Midwest. These insects overwinter in previous soybean fields and eggs begin to appear in June. Soybean Gall Midge lay their eggs at the base or lower stems of soybean plants and larvae hatch around the beginning of July. There are three generations of Soybean Gall Midge per year, occurring every 25-30 days.

Adults are small and have a similar appearance to mosquitoes. Soybean

damage is caused by the larvae. Larvae look like maggots and turn orange during the third (and final) instar life cycle stage. Larvae can be

found underneath the surface of soybean stems. Damage becomes visible after the V3 growth stage. Larvae feeding leads to blackened areas of the stem, stunting of plants and death. Damage

has potential to be severe in highly infested fields and up to 100% yield loss has been recorded along field edges. Early planted fields have the highest risk of damage.

If Soybean Gall Midge damage is suspected, begin scouting along field edges where soybeans were planted the previous year. A key indicator is

blackening at the base of plant stem. Peel back the outer layer of stem and inspect for the maggot-like larvae.



Adult Soybean Gall Midge.

Photo Courtesy of EntomologyToday.org

Multiple larvae hatch per year making the management of soybean gall midge difficult. Seed treatments have not been proven effective and control with foliar insecticides is difficult since the larvae are protected inside the



Soybean Gall Midge larvae.

Photo Courtesy of University of Minnesota Extension

beneficial insects and could potentially lead to problems later in growing season with spider mites and soybeans aphids.

If you suspect you have Soybean Gall Midge, report the damage and infestation to an agronomist and/or the local University Extension

stem. According to the University of Minnesota, research in Nebraska showed that pyrethroid insecticides showed some control when applied within ten days of adult emergence. However, pyrethroid insecticides can cause death of

agent. Determining if treatment is necessary depends on extent of the infestation and potential yield loss. Also, treatment should be considered a last resort since permanent control is unproven at this point.

ENJOY WEARING SEED CONSULTANTS GEAR?

Be sure to check out the Seed Consultants Online Store.

Visit seedconsultants.com today to see what's available!



DO YOU HAVE PROBLEMS WITH SOYBEAN CYST NEMATODE?

By Matt Hutcheson, CCA

Product Manager

937-414-6784

matt@seedconsultants.com

Typically, soybeans may begin to show symptoms of Soybean Cyst Nematode (SCN) damage by July 1st. SCN is a parasitic roundworm that feeds on the soybean root system. The cyst stage of the nematode's life cycle is when the female nematode is filled with eggs. Cysts are visible throughout

the summer on soybean roots and will appear as small, white, and lemon-shaped.

After the female matures, these cysts are hard

to see. When trying to identify SCN presence on soybean roots, it is important not to confuse cysts with Rhizobium nodules (where N fixation takes place).

How can you determine if SCN is causing damage and yield loss to your soybeans? Injury symptoms include yellowing and stunting of plants. These symptoms may appear in patches of a field. These patches may grow from year to year; especially in the direction a field is tilled.

Planting soybean varieties with resistance to SCN is critical in fields where the parasite is present.

Symptoms may become worse when plants are under other stresses in addition to SCN injury and can be confused with other issues, such as nutrient deficiencies. Soil in fields where SCN

damage is suspected should be sampled and sent to a lab for analysis. The population level of SCN will determine the specific practices required to manage the problem.

Depending on the population level and the amount of damage being done, growers will have a few management options to consider. Planting soybean varieties with resistance to SCN is critical in fields where the parasite is present. Rotation away from soybeans to a non-host crop (such as corn) can also lessen the amount of SCN injury. In high population fields, growers should rotate to a non-host crop for multiple years. It is also important to effectively control weeds, some of which can be SCN hosts as well. The following chart adapted from OSU Extension Fact Sheet AC-39-10 (<http://ohioline.osu.edu/ac-fact/pdf/0039.pdf>) lists other host plants of SCN.

OTHER HOSTS OF SCN	
Crop Plants	Weed Plants
Alsike clover	Hemp sesbania
Bird's-foot trefoil	Common and mouseear chickweed
Green beans, dry beans	Common mullein
Common and hairy vetch	Henbit
Cowpea	Milk and wood vetch
Crimson clover	Pokeweed
Crown vetch	Common purslane
Lespedezas	Spotted geranium
Pea	Wild mustard
White and yellow lupine	Purple deadnettle
Sweet clover	Field pennycress
	Shepherd's-purse

EARLY CASH DISCOUNTS

Seed Consultants offers opportunities to maximize seed cost savings through an early cash discount schedule for the 2022 planting season.

If you have any questions, please call the office at 800-708-2676.

CASH DISCOUNTS

16.5%	July-August 15 th
15.5%	August 16 th -August 31 st
14%	September
13%	October
12%	November
10%	December-January 5 th
9%	January
7%	February
4%	March
2%	April

SEED CONSULTANTS WELCOMES NEW HIRES

Seed Consultants has recently welcomed three new hires to the team. Todd McMillen, Charlie Prickett and Michael VanStaaldhuizen have all joined Seed Consultants as District Sales Managers. We are excited to have Todd, Charlie and Michael as a part of the team and look forward to having them serve customers in the eastern Corn Belt.



Todd McMillen

Todd McMillen is a District Sales Manager, serving customers in central Pennsylvania. He has a bachelor's degree from Pennsylvania State University with majors in Agricultural and Extension Education and Environmental Resource Management (Soil Science Option) and minors in Agronomy and International Agriculture. Most recently, Todd was a Research Associate for Corteva Agriscience where he was responsible for many duties including identifying and recruiting cooperators for yield test locations and designing silage research trial locations.



Charlie Prickett

Charlie Prickett is a District Sales Manager, serving customers in the Delmarva area. Most recently, he was a dealer for Seed Consultants and a Retail Partner with Agro Liquid Fertilizers, has been a Territory manager in the past with T.A. Seeds and currently farms on the Delmarva as well and operates a custom harvest and spraying business.



Michael VanStaaldhuizen

Michael VanStaaldhuizen is a District Sales Manager, serving customers in northwestern Ohio. He has a bachelor's degree from North Carolina State University with a major in animal sciences. Michael brings several years of experience in the agriculture industry to the Seed Consultants team. Most recently, he was an IMPACT S.R.A. for Corteva Agriscience where he managed several yield test locations for Northern Ohio, Northern Indiana and Southeastern Michigan.

2021 EVENTS



JOIN US FOR AN EVENT NEAR YOU!

We are excited to welcome you back to events this summer! We will be hosting several field days and will be at farm shows later this summer and fall. We will be adding more events later this summer. Visit our website for a complete list!

FARM SHOWS

AG PROGRESS DAYS

August 10-12, 2021

Pennsylvania Furnace, PA

FARM SCIENCE REVIEW

September 21-23, 2021

London, Ohio

Field Day	Date	Time	Location
Weds.	Aug. 18	Noon	Field Day--Warner Seeds, Bradford, Ohio... between Greenville & Piqua on Rt. 36;south on Rt. 721; east on Panther Creek Rd.
Weds.	Aug. 18	6:00 p.m.	Field Day--10392 Beloit-Snodes Rd., Beloit, Ohio 44609
Thurs.	Aug. 19	Noon	Field Day--Seed Consultants WCH..Seed Plant 648 Miami Trace Rd SW
Sat.	Aug. 21	10:00 a.m.	Field Day-- River Bottom Crop Service... HWY 151, Irvine, KY
Tues.	Aug. 24	6:00 p.m.	Field Day--Bob Brown, Chillicothe, Ohio...East of Chillicothe on Rt. 50; south on Lancaster Rd.
Weds.	Aug. 25	6:30 p.m.	BF Customer Appreciation Mtg. Husted Hall, 4-H grounds St. Rt. 27, Winchester, IN
Thurs.	Aug. 26	6:00 p.m.	Field Day--Bill & Bob Black, Lockbourne, Ohio
Weds.	Sept. 1	Noon-6:00 p.m.	Field Day--Fischer Farms, East of Ansonia OH. On ST RT 47
Thurs.	Sept. 2	6:00 p.m.	Field Day-- Brickner Farm Service Field Day 6616 W. County Rd. 592 Fostoria, OH 44830
Thurs.	Sept. 2	6:00 p.m.	Field Day--Camp Warsaw; 818 E. Main St., Warsaw, OH 43844
Tues.	Sept. 7	5:00 p.m.	Field Day--Walter Bros.Farm, Walnut Corner East of 600 Portland, IN
Tues.	Sept. 7	6:00 p.m.	Field Day--Fox Farm 8379 State Route 204 Thornville, OH 43076
Weds.	Sept. 8	6:00 p.m.	Field Day--Clark Seeds, Marengo, Ohio... 956 Co Rd 204
Fri.	Sept. 10	9:00 a.m.	Field Day--Mark Wolfe--Wolfe Warehouse, 12394 Bethlehem Clairbourne Rd. Richwood, Ohio.
Sun.	Sept. 12	1:00 p.m.-3:00 p.m.	Field Day--Walnut Lane Farm/Allen Berry Dealership Plot Day 613 Maple Ave, Beech Creek, PA

SCI 2022 CUSTOMER TRIP

Sign-up online now via the link on
WWW.SEEDCONSULTANTS.COM

LOS CABOS, MEXICO

JANUARY 22-JANUARY 28, 2022

HYATT ZIVA LOS CABOS

This five-star, all-inclusive resort features refreshingly stylish touches and innovative design. Numerous seating areas and chaise lounges with shaded sections and free-flowing bars, with a handful of Bali beds set up on the beach, surround three large swimming pools. Hammocks, tepid whirlpools, water fountains and island fire pits set in the reflecting ponds provide endless choices for relaxation during the day or night.

Numerous dining venues are spread about the California hacienda-designed property featuring one buffet restaurant, six specialty restaurants and a snack bar. Choices include gourmet French cuisine, freshly grilled steaks, sushi and teppanyaki, traditional Italian fare, local flavors with a Spanish flare, and authentic Mexican cuisine.

Your oversized guest room features beautiful views of the Pacific Ocean from its private balcony or terrace. Each room features 40-inch flat-screen TVs, iPod docking stations, ceiling fan, air-conditioning, Internet access, fully-stocked complimentary minibars and coffeemakers.

CABO TRIP PACKAGE INCLUDES:

- 7 Days, 6 nights accommodation in Run of Ocean-View Rooms at the Hyatt Ziva Los Cabos
- Breakfast, lunch, dinner, room service & snacks at your choice of 7 restaurants at the Hyatt Ziva Los Cabos
- Alcoholic and non-alcoholic drinks, bottled water, specialty coffees and teas at all the food and beverage outlets
- Private Welcome Party for SCI
- Private Farewell Party for SCI
- Round-Trip Airport Transfers on Program Dates
- Complimentary Wi-Fi in the public areas and guest rooms
- Mini-Bar Drinks
- Non-motorized water sports
- Exercise facilities, daytime tennis courts, table games and scheduled stage shows
- All Taxes, Fees and Gratuities at the Resort

TRIP COST (EXCLUDING AIR) AT HYATT ZIVA LOS CABOS:

- Single Occupancy: \$2,875.00 (1 Adult in a Room)
 - Double Occupancy: \$4,096.00 (2 Adults sharing a Room)
- Maximum capacity in a guest room is two (2) adults and two (2) children under 12 years of age or three (3) adults and one (1) child under 12 years of age.*

AIR COSTS:

- Air is not included with the above trip costs but must be booked through MTI Events in to order to attend the trip.
- If attendee wishes to check current airfare rates before registering and submitting the non-refundable deposit, they may call MTI Events at 913-438-2600 x 118. Hours are Monday – Friday, 9:00 AM – 5:00 PM EST. Airfare rates are subject to change until ticketed.
- After registration has been submitted and non-refundable deposit received, MTI Events will email the attendee with flight options and costs. There are no restrictions on fares or departure city.
- Attendee is responsible for any costs associated with flight changes.
- Airline points may be used to book airfare. Tickets must be booked directly with the airline. MTI has no control over frequent flier seat availability.

PAYMENTS:

- \$500 (per person) non-refundable deposit due after online registration and before air is booked.
- Full trip payment is due by Friday, November 5, 2021 and is non-refundable.

All checks should be for trip expenses only
and made payable to:

MTI Events • ATTN: SCI Cabo
10400 W. 103rd Street, Suite 10
Overland Park, KS 66214

Meeting Planner Contact Information:

Phone: 913-438-2600 • alyssa@mtievents.com
Hours: Monday – Friday 9A – 5P EST

Seed Consultants will refund all of your trip (not including airfare; airlines will issues a credit with them) if there is a governmental action (including but not limited to governmental law, state or order) that prevents you from attending (or if Seed Consultants is forced to cancel this trip) as it relates to Covid-19 and/or any pandemic and/or epidemic as determined by the WHO or CDC.



LEADER UPDATE

By Daniel Call, CCA

General Manager
danielcall@seedconsultants.com

Just like most springs in the eastern Corn Belt this one has been full of challenges. Excessive rain, snow, cold soils, soil borne diseases, insects and tough soil conditions just to name a few. It seems as if difficult springs have become more of the norm than the exception. That is why working with Seed Consultants, a company focused on the eastern Corn Belt, allows you access to genetics, traits and seed treatment packages which give you the best opportunity for success on your farm during these difficult springs.

Through replicated testing on eastern Corn Belt soil types, we have identified the hybrids and varieties most adaptable to these types of springs. We have selected hybrids and varieties that are bred with strong emergence and early season vigor. We are also able to focus our genetic selections to the varieties most resilient to local diseases, such as phytophthora root rot, both through gene resistance and field tolerance and products with strong Sudden Death Syndrome tolerance.

An area in which we have really focused additional efforts over the past 4 years, has been on seed

treatments. Seed treatments driven by our LumiGEN® Technologies have become ever more important as we have continually struggled with difficult springs such as this year. We now have a package of 6 different fungicides applied to every unit of corn we sell regardless of the insecticide treatment on the seed. Additionally, we have added a biological amendment on the seed which improves early season growth, development and vigor. When you take a look at our soybean treatment package, we have loaded it up as well to give our customers the best possible opportunity for stand establishment during these tough springs. Every treated unit of Seed Consultants soybeans contains 3 - 4 different fungicides as well as a biological stimulant.

Seed Consultants strives to offer our customers industry leading genetics and treatments such as these in order to help improve their productivity and profitability. We want to arm you with the best options available to succeed during difficult springs such as these. Continuing our commitment to being, "Simply Better."



Seed Consultants

P.O. Box 370

648 Miami Trace Rd. S.W.

Washington Court House, OH 43160

Editorial Board

Alissa Armstrong

Marketing Communications Manager

937-605-0737 - Mobile

alissa.armstrong@seedconsultants.com

Daniel Call, CCA

General Manager

danielcall@seedconsultants.com

Matt Hutcheson, CCA

Product Manager

937-414-6784 - Mobile

matt@seedconsultants.com

Bill McDonald, CCA

Director of Agronomic Services

740-837-0364 - Mobile

bill.mcdonald@seedconsultants.com

Jordan Bassler

Field Agronomist

570-980-3906

jordan.bassler@seedconsultants.com

Don't miss a thing

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

www.seedconsultants.com.



XtendiMax® Herbicide with VaporGrip® Technology is part of the Roundup Ready® Xtend Crop System and is a restricted use pesticide. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. XtendiMax® Herbicide with VaporGrip® Technology and products with XtendFlex® Technology may not be approved in all states and may be subject to use restrictions in some states. Check with your local product dealer or representative or U.S. EPA and your state pesticide regulatory agency for the product registration status and additional restrictions in your state. For approved tank-mix products and nozzles visit XtendiMaxApplicationRequirements.com. NOT ALL herbicide formulations are approved for in-crop use with Roundup Ready 2 Xtend® soybeans and/or products with XtendFlex® Technology. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans and/or products with XtendFlex® Technology.

Herculex® Insect Protection technology by Dow AgroSciences and Pioneer Hi-Bred. Herculex® and the HX logo are registered trademarks of Dow AgroSciences LLC. Liberty®, LibertyLink®, the Water Droplet Design and Engenia® are trademarks of BASF. Agrisure® is a trademark of, and used under license from, a Syngenta Group Company. Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG. Roundup WeatherMAX®, Roundup PowerMAX™, Roundup Ready 2 Xtend®, Genuity®, Roundup®, Roundup Ready 2 Yield® YieldGard® and the YieldGard corn Borer design are trademarks of Monsanto Technology LLC used under license. Poncho®, VOTIVO® and XtendiMax® are registered trademarks of Bayer. The information provided within this newsletter is not a substitute for advice concerning your specific situation. The information contained herein is general and educational in nature. Because each situation is different and each recommendation is specifically tailored for each customer, the information contained herein should never be used to determine your course of action.

RR2Y: Always follow grain marketing, stewardship practices and pesticide label directions. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural

RR2X: DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO SOYBEANS WITH Roundup Ready 2 Xtend® technology unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend® technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with soybeans with Roundup Ready 2 Xtend® technology. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend® technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba.

Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. For further information on the approval status of biotech traits, please visit www.biotradestatus.com.

Excellence Through Stewardship® is a registered trademark of the Excellence Through Stewardship.

The transgenic soybean event in Enlist E3™ soybeans is jointly developed and owned by Dow AgroSciences LLC and M.S. Technologies L.L.C.

Enlist Duo® and Enlist One® herbicides are not registered for sale or use in all states or counties. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your area. Enlist Duo® and Enlist One® are the only 2,4-D products authorized for use with Enlist crops. Consult Enlist herbicide labels for weed species controlled. Always read and follow label directions.

Products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents. All products are trademarks of their manufacturers.

™ & Trademarks of Corteva Agriscience and its affiliated companies. © 2021 Corteva.