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THE SEED CONSULTANT

A QUARTERLY NEWSLETTER NEWS AND VIEWS FROM THE FIELD

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DO YOU HAVE PROBLEMS WITH SOYBEAN CYST NEMATODE?

By Matt Hutcheson, CCA
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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. 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.

MANAGEMENT OPTIONS TO CONSIDER

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

WHAT'S BUGGING YOU!

By Bill McDonald, CCA
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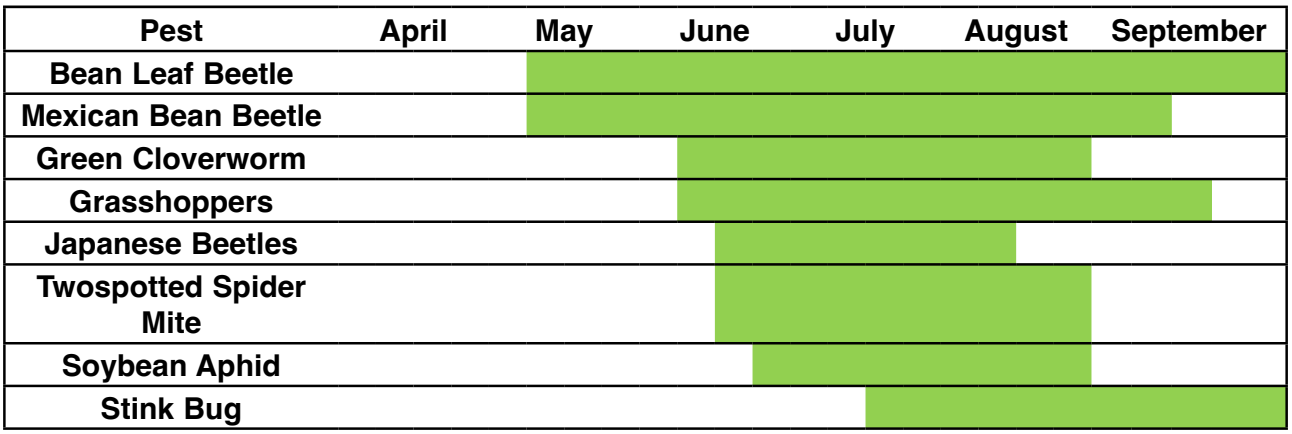
July is usually when we start applying fungicides on soybeans and is also the time to decide if you want to add an insecticide into the tank. Keep in mind, there are a lot of beneficial insects out there too that will be eradicated by the insecticide. So, some scouting could not only save the beneficial insects but lower the expense of the application by a few dollars.

There are some insects that can be yield robbing lurking in your field. The loss is not only in yield, but in quality issues that will lead to a dock in price. This scouting chart has the time frame for scouting for stink bug beginning in July, but that is the time frame that they do the most damage in soybeans. Stink bugs can, and do, cause damage in corn a lot earlier in the season, starting at emergence.

Mexican bean beetle is one that works quickly and if this pest attacks, be ready to monitor closely and react swiftly. Follow University guidelines to determine if a reaction is needed.

Grasshoppers and Japanese beetle do a lot of defoliation, but the damage usually looks worse than it is and rarely warrants an action to control them.



The two-spotted spider mite is usually only a problem if we have extremely dry conditions. We don't normally associate an application to control spider mite with a fungicide application.

The two insects that keep most of us up at night are the bean leaf beetle (BLB) and the stink bug.

Bean leaf beetles come in several colors, but the one constant is the black triangle on the wing covers behind its head. The economic threshold for BLB is if they are actively feeding and defoliation is 40% pre-bloom, 15% bloom to pod fill and 25% pod-fill to harvest. The other damage caused by BLB is pod feeding and if 10 – 15% of the pods are being chewed on, and the BLB is still present, then a spray is warranted.

There are many species of stink bugs, but the ones that we see the most are: brown marmorated, green and brown stink bugs. The damage that they cause can't be easily seen. It isn't until we pull the combine into the field that we see the fruits of their labor in the form of damage to the soybeans.

Pod feeding by BLB opens the bean up to pathogens that cause mold and/or seed decay.

Scouting and sampling for stink bug should begin by R2 in soybeans. Stink bug feeding causes economic loss from R3 to R6. Sample at least 5 locations in your field, using a sweep net. Take 10 sweeps and count the number of stink bugs captured. Then, take an average of the 5 locations.

Brown Marmorated late nymph stage

Brown Marmorated nymph stage

Green Stink Bug nymph stage

This will give you a non-biased view of the field. If the average is 2 or above and the soybeans are food grade or raised for seed beans, then action is needed. If the end use is grain, then that number doubles.

Stink bugs may be harder to control than bean leaf beetles so you may want to use the higher end of the rate range.

This can be confused with Phomopsis Seed Decay or White mold (minus the sclerotinia)

Stink bug sweep net threshold levels

Seed usage	Average / 10 sweep set
Food grade or seed	2
Grain	4

Sources: OSU, Purdue and NC State

MID-SUMMER CORN PESTS

By Jordan Bassler
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By mid-summer there could be several yield robbing insects beginning to show up in your fields. If you are planning a fungicide application or feel the need to do a late herbicide application, it may be worth the investment to include an insecticide in the tank to clean up some unwanted pests. The beginning of July brings the chance of having Japanese beetle, fall armyworm, western bean cutworm, stink bug, or aphids. All these insects may not affect your area, but at least one can, and it's important to identify what is happening in your fields so you can make an effective plan.


Corn Earworm

JAPANESE BEETLE


Japanese Beetle

The main concern from Japanese beetles is silk clipping/feeding. This can negatively impact pollination, and ultimately yield. Populations are commonly higher around field edges or fields bordering grass. The threshold for Japanese beetles is three or more beetles per ear and silks that have been clipped to half an inch or less. Measure when pollination is 50% complete. Japanese beetles can feed on leaf material, but it is rarely severe enough to create concern.

FALL ARMYWORM


Armyworm

Fall armyworms are caterpillar-like insects which feed on plant tissue during the vegetative growth stages and on kernels during the reproductive growth stages. Damage can be severe. These insects can consume almost the entire plant's leaf material. Even though they have "fall" in their name, their damage begins much earlier in the growing season. These insects feed primarily at night so scouting must be matched to when they are emerged and feeding. Start by scouting for plant injury during the day, and if you suspect armyworm then scout at night to physically find

the larvae. The threshold is two to three-3 larvae per square foot.

WESTERN BEAN CUTWORM

Western Bean Cutworm

Even though we grow corn in the Eastern corn belt, the western bean cutworm can still cause significant damage to our crops if feeding is left unchecked. Adults begin feeding in July and feeding is most concentrated during late vegetative growth into tassel and ear fill. Damage to ears from feeding can allow fungi to enter the plant, increasing the chance for ear molds. If you live in western bean cutworm area, or had issues in the past, scouting is done by checking fields for egg masses that are pre-tassel or fields where tassels are just beginning to show to determine the extent of infestation. Egg masses can range in color from white to purple, depending on when they are laid. White egg masses indicate they were recently laid while purple egg masses are closer to a week old. Walk these fields and check twenty plants in five different areas of the fields. Focus on the upper surface on the top three or four leaves. The threshold is egg masses on 5% or more of plants.

Eastern Corn Borer

(SOURCE: Iowa State University)

STINK BUGS

Stink bug damage is most associated with spring feeding that shows as wilted plants and holes across the leaf once emerged from the whorl. However, damage can continue into late summer and during ear fill. Ear feeding can cause aborted and shriveled kernels and reduced test weight. Opinions on threshold vary, but a safe rule is one stink bug per four plants pre-pollination and one stink bug per two plants AFTER pollination through early dough stage.

CORN LEAF APHIDS

These insects suck sap from the leaf and tassel. They leave behind a sticky substance that is widely known as "honeydew," which turns to mold and gives the tops of plants a black look while also interrupting pollination. Corn leaves may wilt and show yellowing discoloration in heavy feeding scenarios. The greatest concern comes from excessive feeding inside the whorl which can lead to incomplete kernel development or ears totally without kernels. Scouting can be difficult due to injury not showing until after the tassel has emerged, by which time the damage is already done. If aphids are a concern, then scouting must start three weeks before tasseling. To determine the percentage of infestation, select four plants from five different areas of the field for a total of twenty plants. Carefully pull out the whorl and unfold while counting the number of aphids inside each whorl. The threshold is an average of fifteen aphids per plant.

Aphids

(SOURCE: Purdue University)

Be sure to check with your local DSM or dealer if you think any of these insects might robbing you of yield. Scouting and correct identification is critical from control to choosing a management plan if needed. Fortunately, most insecticides are labeled for control, so check with your pesticide supplier for the best option. Have a great summer!

SEED CONSULTANTS
2023 FIELD DAY SCHEDULE

Please join us at one of the following events in your area!

WE WILL BE ADDING ADDITIONAL FIELD DAYS THIS SUMMER.

Check out SeedConsultants.com for the complete list!

WEEKDAY	DATE	TIME	LOCATION
WEDNESDAY	AUG. 16	NOON	Field Day-Warner Seeds, Bradford, Ohio... between Greenville & Piqua on Rt. 36; south on Rt. 721; east on Panther Creek Rd.
WEDNESDAY	AUG. 16	10:00 A.M.	Field Day-Eagle Creek Ag, 1503 Noble Rd, Shiloh, OH
THURSDAY	AUG. 17	NOON	Field Day-Seed Consultants WCH..648 Miami Trace Rd SW
WEDNESDAY	AUG. 23	5:00 P.M.	Field Day--Maria Stein Grain--8115 Industrial Dr Maria Stein, OH
SATURDAY	AUG. 26	8:00 A.M.-12:00 P.M.	Customer Appreciation Day-Lykens Valley Roller Mills, 289 Shiffer's Mill Rd, Millersburg, PA 17061
SUNDAY	AUG. 27	4:00 P.M.	Field Day-Sheldon Miller, 2532 S. Mud Creek Rd, Oak Harbor, OH
TUESDAY	AUG. 29	NOON-6:00 P.M.	Field Day-Fischer Farms, LLC., East of Ansonia on St.Rt. 47
WEDNESDAY	AUG. 30	6:00 P.M.	Field Day-Bill & Bob Black, Lockbourne, Ohio
WEDNESDAY	AUG. 30	6:00 P.M.	Customer Appreciation Day-Arnie Depinet, 9173 E. Twp. Rd. 106, Bloomville, OH
TUESDAY	SEPT. 5	6:00 P.M.	Field Day-Craig Reinhart, 11268 W. Twp. Rd. 96, Alvada, OH
THURSDAY	SEPT. 7	6:00 P.M.	Field Day-Bob Brown, 1800 Lancaster Rd., Chillicothe, Ohio 45601
THURSDAY	SEPT. 7	6:00 P.M.	Customer Appreciation Day-Brickner Farm Service, 6616 W. Co. Rd. 592, Fostoria, OH
THURSDAY	SEPT. 7	6:00 P.M.	Field Day--Walter Bros., Michael Walter South of Walnut Corner Rd. on 600 W Pennville, IN
FRIDAY	SEPT. 8	11:00 A.M.	Customer Appreciation Day-Mark Wolfe--Wolfe Warehouse, 12394 Bethlehem Clairbourne Rd. Richwood, Ohio
TUESDAY	SEPT. 12	6:00 P.M.	Field Day-Fox Farm, 8379 State Route 204, Thornville, OH 43076
WEDNESDAY	SEPT. 13	6:00 P.M.	Field Day-Dave Miller, 6940 N. Co. Rd. 21, Clyde, OH
WEDNESDAY	SEPT. 20	10:00 A.M.-1:00 P.M.	Customer Appreciation Day-Big Valley Feed & Grain, 37 Young Ln, Belleville, PA 17004
SATURDAY	SEPT. 23	10:30 A.M.	Field Day- Nate Wilbert, 1088 Rutter Rd, Halifax, PA 17032

EARLY CASH DISCOUNTS

Seed Consultants offers opportunities to maximize seed cost savings through an early cash discount schedule for the 2024 planting season.

CASH DISCOUNTS

16.5%.....August

14%.....September

13%.....October

12%.....November

10%.....December-January 10

8%.....January

6%.....February

4%.....March

2%.....April

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

FINANCING

SEED CONSULTANTS, INC.

TWO GREAT FINANCING CHOICES FOR 2023-2024
0% THROUGH JOHN DEERE FINANCIAL
0% THROUGH RABO AGRIFINANCE

These financing programs are only available to John Deere Financial Preferred Customers and/or RABO AgriFinance approved customers. To apply for a John Deere Financial Preferred Account or RABO account or to increase your John Deere Financial or RABO line of credit, contact John Deere Financial (800-433-8964) or RABO (888-395-8505), so the necessary paperwork may be completed with John Deere Financial &/or RABO.

JOHN DEERE FINANCIAL & RABO GUIDELINES

- Must be a John Deere Financial Preferred Customer or approved by RABO AgriFinance.
- Approval and credit limits established by John Deere Financial &/or RABO...not by SCI.
- Terms and conditions apply. See respective credit applications for full terms and disclosures.
- To increase or establish your credit line call John Deere Financial (800-433-8964) or RABO (888-395-8505).
- Must be enrolled and approved to qualify for discounts.
- Discounts applied on approval date from John Deere Financial &/or RABO.
- Signed terms of disclosure on file.
- Minimum purchase of $1,000.
- Due date of December 2024.

For John Deere Financial customers with current special terms balances at or near their credit limit, they may have an option to enable their seed purchase now and lock in their order. Contact your SCI Seedsman for details.

	DISCOUNT SCHEDULE	
Finance Plan	**John Deere Financial**	**RABO**
Purchase & Approval Date	Fixed 0%	Fixed 0%
August 2023	6.5%	6.5%
September 2023	4%	4%
October 2023	3%	3%
November 2023	2%	2%
December - January 10, 2024	0%	0%
January 2024	0%	0%
February 2024	0%	0%
March 2024	0%	0%
April 2024	0%	0%
May 2024	0%	0%
In Season	0%	0%

2024 SEED CONSULTANTS CUSTOMER TRIP

JAN. 20–26, 2024

HYATT ZIVA CANCUN

SIGN-UP ONLINE NOW VIA THE LINK ON WWW.SEEDCONSULTANTS.COM

HYATT ZIVA CANCUN

• Located on a spectacularly scenic peninsula and surrounded by ocean on three sides, Hyatt Ziva Cancun connects guests to the natural beauty of Cancun's coast with several unexpected delights along the way. Its prime location allows guests to walk to shopping malls, markets and Cancun's hottest nightclubs. Nine dining venues offer guests a wide variety of cuisine including Asian with teppanyaki tables, Mexican cuisine, Italian specialties, a casual diner for burgers and fries and the popular steakhouse.

• Hyatt Ziva Cancun offers 547 oversized guest rooms with views of either the man-made lagoon or surrounding ocean. Each guestroom is decorated with contemporary décor featuring neutral colors, marble floors, premium bedding, satellite TV, coffee/tea makers, mini-bar and in-room safe. Bathrooms include dual vanities, large glassed-in showers, hair dryer, and designer toiletries.

• Recreational activities abound with two beaches, four outdoor swimming pools, non-motorized watersports, ocean-view spa, full-service health club, lighted tennis courts and an amphitheater with live shows and music. A small, ocean-fed lagoon is home to Delphinus Experience where guests can swim with dolphins for an additional charge.

• The Hyatt Ziva Cancun is the perfect vacation destination in the heart of Cancun, Mexico.

Cancun Trip Package:

• 7 Days, 6 nights accommodation in Turquoize Ocean Front Master King Rooms at the Hyatt Ziva Cancun

• Breakfast, lunch, dinner, room service & snacks at your choice of 9 restaurants on property

• Alcoholic and non-alcoholic drinks, bottled water, specialty coffees and teas at all the food and beverage

• 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

• 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 CANCUN:

• Single Occupancy: $3,225.00 (1 Adult in a Room)

• Double Occupancy: $4,225.00 (2 Adults sharing a Room)

Maximum capacity in a guest room is four regardless 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 17, 2023 and is non-refundable.

All checks should be for trip expenses only and made payable to:
MTI Events • ATTN: SCI Cancun
10400 W. 103rd Street, Suite 10
Overland Park, KS 66214

LEADER UPDATE

By Daniel Call, CCA
General Manager
danielcall@seedconsultants.com

Unlike many springs we have experienced over the past decade, this year's planting season was about as close to normal as we could have hoped. There were small areas of delayed planting due to damp soil conditions, and a little replant sprinkled around our sales area. Fortunately, a vast majority of our customers experienced the long overdue, "normal" spring planting season. As we've moved further into the growing season, dry weather has become more of a concern for many of us. With this dry weather, several agronomic concerns have surfaced which will continue to garner our attention and keep us diligently scouting the crop.

Our key areas of agronomic influence are going to remain as critical as ever this summer: disease control, nutrient management and weed control. We've had many conversations with customers regarding these 3 key agronomic challenges already this growing season. It's imperative that we all continue to scout throughout the growing season to stay ahead of these issues to mitigate the stress to our crop.

It's hard to believe we are on the cusp of kicking off our 2024 sales year. We have the largest new class of products in our history waiting to be launched this summer. Our 2024 class of new products will showcase how full our breeding and research pipeline truly are. The strength of the lineup comes from our focus on emergence, disease tolerance and strong yield data within our footprint. When we combine these new products with the hybrids and soybean varieties we have launched the past two years, you will find our 2024 offering is the strongest it has ever been.

We are looking forward to seeing you at a field day this summer. Allow us the opportunity to share with you all the new products we have to offer. I am sure you will also see how the newer lineup will deliver many agronomic benefits and production gains to your farm in 2024. Please have a safe growing season. See you this summer at a field day near you!

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Editorial Board

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.