



THE SEED CONSULTANT

A QUARTERLY NEWSLETTER NEWS AND VIEWS FROM THE FIELD

GET ORGANIZED!

Being organized for spring allows your farm to save time, money, and increase yields

AVOIDING SOIL COMPACTION

The best way to prevent yield loss from compaction is to avoid it from the start

2025 WINTER MEETINGS

Join us for a meeting in your area this winter

METHODS FOR CONTROLLING WATERHEMP

Preventing waterhemp from establishing will pay dividends



GET ORGANIZED!

By Jordan Bassler

Corn Product Lead, Field Agronomist
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The cold weather and snow that winter brings presents a great opportunity to prepare your operation for spring. Over the past several years, the spring season has been short. It seems that overnight we go from winter straight to summer. One day we are wearing jackets and beanies, the next we need shorts and t-shirt. Being organized for spring allows your farm to save time, money, and increase yields.

SOIL SAMPLES

After harvest is a perfect time to pull soil samples. Before the ground freezes, soil microbes are still active and you get a good representative sample of what that soil is like during the summer when crops are growing. Most labs have a relatively fast turnaround for results. Winter months present a perfect opportunity to sit down with your crop consultant and figure out a plan for nutrient needs and when to apply them. Some nutrients

like potash and lime need several months to activate in soil before becoming available for crop uptake.

CROP PLANNING

Depending on your crop rotation, some money can be saved by selecting appropriate hybrids for your acres. Take the fall and early winter to make your crop plan. Determine how many acres will be planted into sod, after soybeans, and after corn. Acres planted corn after corn have the biggest need for corn rootworm control; however, a few areas in the west still need control on first year corn. Each additional trait that a corn hybrid needs adds cost. Plan ahead with your seedsman to purchase correctly traited hybrids to save your operation money and only plant needed traits on your farm.

Take the time to highlight most productive fields and match high producing “racehorse” hybrids to

MACHINERY MAINTENANCE CHECKLIST

1. **Level the planter**
2. **Check bushings**
3. **Drive System**
 - a. Chains, wheels, etc.
4. **Calibrate meters**
 - a. Finger pickups – check brushes, springs, and plates
 - b. Vacuum systems – check gaskets and discs.
5. **Disk openers and gauge wheels**
 - a. Look at factory specifications.
Worn gauge wheels can greatly impact planting depth and seeding populations.
6. **Seed tubes**
7. **Row Cleaners**
 - a. With the popularity of no tillage planting, we have more crop residue laying on the soil surface. Moving this residue away from seed row allows for better germination, emergence and reduces insect pressure

those acres. Likewise, match “workhorse” hybrids to your tougher soils. By matching hybrids to soil productivity, the chance of success is increased.

WEED CONTROL

Every day it seems as if there is a new weed that is glyphosate resistant. Pay attention to weed pressure as you are harvesting crops in the fall. This presents a perfect opportunity to scout since you were already in the field for harvest and begin preparing for next year. Was your weed control program sufficient or were there some breakthroughs that affected yield? Was a one-pass program enough, or should you think about making two passes next year? Is it time to change to a different mode of action? The answers to these questions are important to your success. Minimizing weed pressure not only has the potential to increase your yields, but it also makes harvest easier by not clogging machinery and helps with crop dry down.

MACHINERY MAINTENANCE

Pull your planter and/or grain drill in the shop and start any maintenance, replace parts, or start updates that you have been putting off. Waiting until spring to start this postpones being in the field planting, and ultimately decreases yield. On average, the earliest planted hybrids yield the highest. See the checklist at left!

In a challenging economic environment, we need to take extra precautions to ensure our success and profitability. Taking the time to do these things throughout winter when time outside is limited allows you to be more productive and profitable once spring arrives.

A person's hand is shown holding a small amount of soil, with a sunset or sunrise in the background. The hand is positioned in the lower right quadrant of the image, and the soil is being held between the fingers. The background is a warm, golden light from the sun, creating a soft glow over the scene.

SOIL CONDITIONS AND AVOIDING COMPACTION

By Matt Hutcheson, CCA

Soybean Product Lead, Field Agronomist
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As we look toward the 2025 growing season, it is a good time to reflect on the previous growing season. While 2024 presented growers with many challenges that were out of our control, some of the problems we faced could be avoided.

One of the most important tools for assessing problems in the field is a shovel. Digging up plant roots and examining what is going on beneath the soil surface can often explain problems occurring above. Because of the drought and extremely dry soil conditions, assessing roots was more challenging late in the 2024 growing season. While it is easy to blame difficulty using a shovel on the dry soil conditions, I visited several fields prior to the drought where I had difficulty getting the shovel into the soil profile. In those fields I observed poor root development and roots that were restricted by a layers of soil compaction. Additionally, our agronomic staff has observed poor root development due to compaction and smearing of the seed furrow at planting. In several fields I visited there were signs that field work was performed when soil conditions were too wet.

Compaction can cause significant yield loss. In a Penn State Extension Article titled: “Avoiding Soil Compaction,” Dr. Sjoerd Willem Duiker states: “In a summary of the international soil compaction project, compaction due to axle loads of 10-12 tons reduced yields approximately 15 percent in the first year, decreasing to 3-5 percent 10 years after compaction.” Not only does a compaction event cause yield loss in the growing season it occurs, but also for several years following that event.

The best way to avoid yield loss from compaction is to avoid it. Growers can minimize the chances of soil compaction through management practices such as maintaining proper tire pressure, reducing tillage, using controlled traffic, etc. However, soil compaction is most likely to occur when soils are near or at their water holding capacity. As we look forward to the 2025 growing season, it is important to remember the damage to soil and yield loss that occurs when we perform field work in wet or “marginal” soil conditions.



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JOIN US FOR WINTER AGRONOMY MEETINGS!

During January and February of 2025 Seed Consultants will host Winter Agronomy Meetings across the eastern Corn Belt. In addition to a review of 2024, agronomists will address important factors that are currently affecting our customers.

DATE	LOCATION	TIME	DATE	LOCATION	TIME
TUESDAY JANUARY 7	RED PIG INN 1470 N Perry Street Ottawa, OH 45875	11:30 AM	WEDNESDAY JANUARY 15	RUSTY KEG 1801 Columbus Avenue Washington Court House, OH 43160	11:30 AM
WEDNESDAY JANUARY 8	MOUND GROVE GOLF COURSE** 10760 Donation Road Waterford, PA 16441	11:00 AM	THURSDAY JANUARY 16	THE SHADY MAPLE SMORGASBORD** 129 Toddy Drive East Earl, PA 17519	11:00 AM- 2:00 PM
WEDNESDAY JANUARY 8	ATTICA FAIRGROUNDS/ BRAD WILLIAMS CATERING 15127 E. Township Road 12 Attica, Ohio 44807	11:30 AM	TUESDAY FEBRUARY 4	PIONEER COMMUNITY CENTER 100 N Elm Street Pioneer, OH 43554	11:30 AM
WEDNESDAY JANUARY 8	SEED CONSULTANTS, INC. SALEM WAREHOUSE 205 Joseph Street Salem, IN 47167	11:30 AM	TUESDAY FEBRUARY 4	HARTVILLE KITCHEN 1015 Edison St. NW Hartville, Ohio 44632	11:30 AM
THURSDAY JANUARY 9	BARN AT THE BACKWOODS 8572 High Point Road Thornville, OH 43076	11:30 AM	TUESDAY FEBRUARY 4	HOSS'S STEAK AND SEA HOUSE** 20 Falling Spring Road Chambersburg, PA 17202	12:00 PM
THURSDAY JANUARY 9	DER DUTCHMAN 4967 Walnut Street Walnut Creek, OH 44687	11:30 AM	WEDNESDAY FEBRUARY 5	BACK 40 JUNCTION 1011 N 13th Street Decatur, IN 46733	11:30 AM
TUESDAY JANUARY 14	LAKE VIEW LOFT 10215 Jones Road Hillsboro, OH 45133	11:30 AM	WEDNESDAY FEBRUARY 5	CLAUDIA SANDERS DINNER HOUSE 3202 Shelbyville Road Shelbyville, KY 40065	11:30 AM
TUESDAY JANUARY 14	COUNTRYSIDE DELI BANQUET HALL** 935 Henderson Avenue Washington, PA 15301	11:00 AM	THURSDAY FEBRUARY 6	HOSS'S STEAK AND SEA HOUSE** 1954 East Third Street Williamsport, PA 17701	11:30 AM
WEDNESDAY JANUARY 15	SKEETER'S BBQ** 106 Victor Lane Shamokin Dam, PA 17876	10:00 AM	THURSDAY FEBRUARY 6	ALL OCCASIONS CATERING 6989 Waldo-Delaware Road Waldo, OH 43356	11:30 AM
WEDNESDAY JANUARY 15	ROB'S CATERING 705 Arlington Road Brookville, OH 45309	9:00 AM and 11:30 AM	RSVP: Please call 800-708-2676 to RSVP for a meeting. For all meetings with ** please call 800-853-2676.		

METHODS FOR CONTROLLING WATERHEMP

By **J.D. Bethel, CCA**

Director of Agronomic Services

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With harvest complete and winter here, it is a great time to evaluate our farming practices as we plan for 2025. While traveling through our territory in the late summer and into fall it was not difficult to see waterhemp or palmer amaranth plants that were going to produce seed and become a major issue for growers in the future (for simplicity I'm going to use "waterhemp" to represent both).

Waterhemp is a small-seeded, annual broadleaf weed that can grow extremely quickly, can rapidly become resistant to multiple herbicide modes of action, and can produce up to one million seeds per plant.

Across the United States, there are waterhemp populations resistant to one or multiple of the following modes of action.

- Group 2 – ALS inhibitors
- Group 4 – 2,4-D and Dicamba
- Group 5 – Atrazine
- Group 9 – Glyphosate

- Group 14 – PPO inhibitors (fomesafen or lactofen)
- Group 15 – Long Chain Fatty Acid Inhibitors (s-metolachlor, acetochlor, dimethenamid-P and pyroxasulfone)
- Group 27 – HPPD Inhibitors (mesotrione)

The weed science research group at The Ohio State University, led by Dr. Alyssa Essman will perform herbicide screens on waterhemp populations from across the state and are finding moderate levels of resistance to several

popular herbicides in some populations. This table is from one of their herbicide screens in 2022 and can be found here, <https://agcrops.osu.edu/newsletter/corn-newsletter/2023-11/waterhemp-rise>.

As you can see, the options in the weed control toolbox can

quickly become extremely limited, if you let a waterhemp population get established in your fields. Unfortunately, it only takes one waterhemp plant to really create a mess.

Results from 2022 OSU Weed Science Waterhemp Herbicide Screen

HERBICIDE AND RATE	SENSITIVE >80% DEAD	INTERMEDIATE RESISTANCE 50-80% DEAD	LIKELY RESISTANT <50% DEAD
	% OF POPULATIONS		
ATRAZINE (2 LB AI)	50	36	14
ATRAZINE (8 LB AI)	79	21	0
MESOTRIONE (0.09 LB AI)	100	0	0
MESOTRIONE (0.37 LB AI)	100	0	0
2,4-D (0.95 LB AI)	43	57	0
2,4-D (3.8 LB AI)	93	7	0
GLUFOSINATE (0.5 LB AI)	64	14	22
GLUFOSINATE (2 LB AI)	100	0	0

Source: <https://agcrops.osu.edu/newsletter/corn-newsletter/2023-11/waterhemp-rise>

There is one bright spot in trying to get waterhemp under control and that is the short lifespan of the waterhemp seedbank, with only 5 percent of seeds being viable after 36 months (<https://ohioline.osu.edu/factsheet/anr-76>). This is great news because if we can be aggressive and eliminate waterhemp seed production for 3-5 years, the problem “should” go away.

In order to eliminate seed production there are 3 strategies that you need to implement immediately.

1) CROP SCOUTING

Throughout the growing season, you should be scouting fence rows, river bottom fields, drowned out areas and anywhere that water flows across your field. These are the areas where waterhemp will start to get established and not be noticed until harvest. Finding waterhemp in these areas and controlling it will go a long way to preventing waterhemp from getting established on your farm.

2) LAYERED RESIDUAL HERBICIDE PROGRAMS

We are all familiar with using residual herbicides as part of a spring burndown program to prevent weeds from emerging and interfering with crop establishment. Due to waterhemp's extended emergence period, it is important to add a group-15 residual herbicide into the post-emergence spray pass in order to prevent waterhemp emergence before the soybean canopy closes.

As I mentioned previously, there are waterhemp populations that are resistant to group-15 herbicides. While this is true, group-15 herbicides are still highly effective in Ohio and are an excellent tool to keep waterhemp from emerging.

Layered residual herbicides should be applied 30-40 days after soybean emergence to ensure good

ground coverage and herbicide activation. At this point in the growing season the soybeans will NOT be close to closing the crop canopy. If you have a history of waterhemp in your fields or neighbors' fields, you will want to apply the residual herbicides earlier in the recommended window. If you do not have a history of waterhemp, you can wait closer to crop canopy.

3) CROP ROTATION

The number one priority for getting waterhemp under control is to prevent seed production. While it is possible to achieve this in a corn/soybean crop rotation, there are also many opportunities for waterhemp to slip through the cracks and produce seed. For particularly infested fields, I recommend rotating to a corn/soybean/wheat rotation or rotating to forage crops for 3-5 years to drastically reduce the seed bank.

Adding wheat to the rotation almost guarantees a year with zero new additions to the waterhemp seedbank. Waterhemp will emerge and set seed after wheat harvest, therefore double-crop soybeans, tillage or a herbicide weed control pass will need to be made in order to prevent seed production. Cover crops can be good at suppressing weeds from emerging but in my experience, waterhemp will just emerge with the cover crops and set seed unless mowed/tilled before seed production.

After a year of wheat, I would rotate to corn and with an aggressive 2-pass weed control program you can have another year with no waterhemp seed production.

Waterhemp is going to continue to evolve resistance to additional herbicides in the coming years. Being aggressive now and preventing waterhemp from getting established on your farm will pay dividends while additional weed control strategies are developed.

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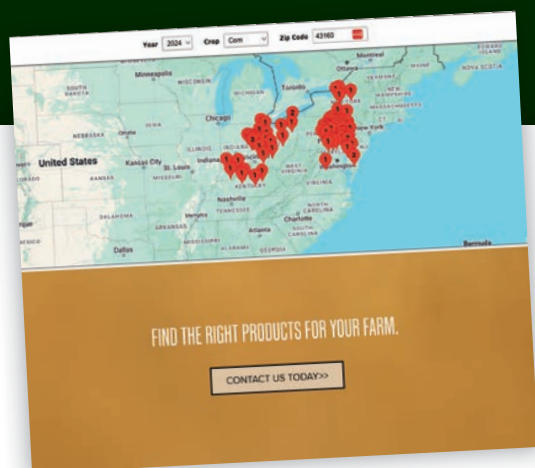
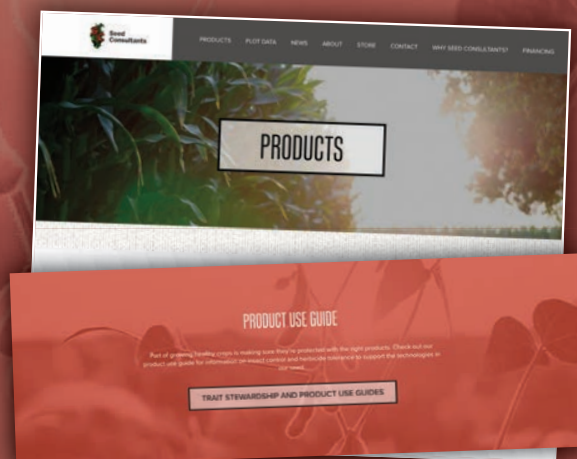
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PRODUCT USE GUIDE

Part of growing healthy crops is making sure they are protected with the right products. Visit the product page on our website to view our product use guide for information about insect control and herbicide tolerance to support technologies in our seed.



STILL WONDERING WHAT TO PLANT FOR 2025?

See how some of our Seed Consultants brand hybrids and varieties performed in 2024 in plots and third party yield trials.

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Finance Plan	DISCOUNT SCHEDULE	
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Purchase & Approval Date	Fixed 0%	Fixed 0%
December - January 10, 2025	1.0%	1.0%
January 2025	0.0%	0.0%
February 2025	0.0%	0.0%
March 2025	0.0%	0.0%
April 2025	0.0%	0.0%
May 2025	0.0%	0.0%
In Season	0.0%	0.0%



LEADER UPDATE

By Daniel Call, CCA

General Manager
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Harvest is a rewarding time of year. The culmination of years of decisions brought to fruition within a few weeks in the fall. It's both rewarding and enlightening to bring in a harvest and witness the combination of all the variables at play. Every harvest can have highs and lows as we experience the joys and sometimes frustrations mother nature has presented us. With the conclusion of each harvest, we have so many lessons to build our future decisions on for years to come.

This year was no different, variability was the norm across our entire footprint. The variability from state to state, county to county, field to field has been extraordinary. Planting date, soil type, individual field drainage and localized rainfall patterns all played major roles in performance and final yields this year. Overall, most growers experienced better yields than anticipated during the 2024 harvest. It is apparent today's genetics can tolerate a significant amount of stress from drought, heat, late planting and disease complexes and still persevere with resilient yield.

Our staff is grateful to service and work with so many wonderful customers across our footprint.

Every farm is different, and each customer has specific needs. These needs may vary field to field as mentioned above. That is why working with a local, regional seed company matters to our customers. "We Know Where You Grow," is more than a neat marketing tag line, it's a reality. The local knowledge our dealers, sales and agronomy staff bring to your farm is unmatched by many in the industry. It's an advantage we carry versus our competitors and has allowed us to grow our business over the years. We look forward to serving your seed needs for years to come.

Make sure you plan to attend one of our Agronomy Meetings this winter. Our agronomy staff has prepared an excellent agenda where they will share key lessons from 2024. We hope you take advantage of these meetings to learn new ideas and techniques to make 2025 your most productive year ever.

Finally, we ask that you enjoy time with your family this holiday season. From all of us at Seed Consultants, we wish you a Merry Christmas!



Seed Consultants

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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.

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Q (Qrome®) Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, the Bt trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Qrome products. Qrome® products are approved for cultivation in the U.S. and Canada. They have also received approval in a number of importing countries, most recently China. For additional information about the status of regulatory authorizations, visit <http://www.biotradestatus.com/>.

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AM - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects.

AMXT (Optimum® AcreMax® XTreme) Contains a single-bag integrated refuge solution for above- and below-ground insects. The major component contains the Agrisure® RW trait, a Bt trait, and the Herculex® XTRA genes. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax and Optimum AcreMax XTreme products.

HX1 Contains the Herculex® I Insect Protection gene which provides protection against European corn borer, southwestern corn borer, black cutworm, fall armyworm, lesser corn stalk borer, southern corn stalk borer, and sugarcane borer; and suppresses corn earworm.

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 herbicides will kill crops that are not tolerant to glyphosate.

RR2 Contains the Roundup Ready® Corn 2 trait that provides crop safety for over-the-top applications of labeled glyphosate herbicides when applied according to label directions.

AQ Optimum® AQUAmax® product. Product performance in water-limited environments is variable and depends on many factors, such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress, as well as disease and pest pressures. All products may exhibit reduced yield under water and heat stress. Individual results may vary.

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Powercore® Enlist® Refuge Advanced® corn products with HX1, VTP, ENL, LL, RR2. Contains a single-bag integrated refuge solution for above-ground insects. In EPA-designated cotton-growing counties, a 20% separate corn borer refuge must be planted with PowerCore Enlist Refuge Advanced products.

Vorceed® Enlist® products with V, LL, RR, ENL. Contains a single-bag integrated refuge solution with multiple modes of action for above- and below-ground insects. The major component contains the Herculex® XTRA genes, the RW3 trait and the VTP trait. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted for Vorceed Enlist products.

The transgenic soybean event in Enlist E3® soybeans is jointly developed and owned by Corteva Agriscience and M.S. Technologies L.L.C.

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Following burndown, Enlist Duo® and Enlist One® herbicides with Colex-D® technology are the only herbicides containing 2,4-D that are authorized for preemergence and postemergence use with Enlist® crops.

Consult Enlist® herbicide labels for weed species controlled. Enlist Duo and Enlist One herbicides are not registered for use or sale in all states and counties; are not registered in AK, CA, CT, HI, ID, MA, ME, MT, NH, NV, OR, RI, UT, VT, WA and WY; and have additional subcounty restrictions in AL, GA, TN and TX, while existing county restrictions still remain in FL. All users must check "Bulletins Live! Two" no earlier than six months before using Enlist One or Enlist Duo. To obtain "Bulletins," consult epa.gov/espp/, call 1-844-447-3813, or email ESPP@epa.gov. You must use the "Bulletin" valid for the month and state and county in which Enlist One or Enlist Duo are being applied. Contact your state pesticide regulatory agency if you have questions about the registration status of Enlist® herbicides in your area. 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. ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USE IN THE STATE OF APPLICATION. USE OF PESTICIDE PRODUCTS, INCLUDING, WITHOUT LIMITATION, 2,4-D-CONTAINING PRODUCTS NOT AUTHORIZED FOR USE WITH ENLIST CROPS, MAY RESULT IN OFF-TARGET DAMAGE TO SENSITIVE CROPS/AREAS AND/OR SUSCEPTIBLE PLANTS, IN ADDITION TO CIVIL AND/OR CRIMINAL PENALTIES. Additional product-specific stewardship requirements for Enlist crops, including the Enlist Product Use Guide, can be found at HYPERLINK "<https://www.traitstewardship.com/>"www.traitstewardship.com.

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