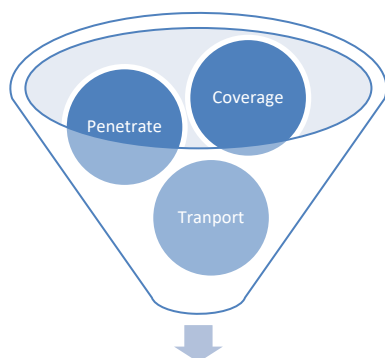


Logan Ag News

February 2019

Adjuvants Made Simple

Are you confused about what adjuvant to use with post-emerge herbicides? There are many products available in the market with seemingly little means of comparison. Adjuvants are an important piece of the weed control puzzle and are required by label for inclusion with some herbicides.



Adjuvants maximize herbicide performance

There are four major classes of adjuvants including **Non-Ionic Surfactants (NIS)**, **Crop Oil Concentrates (COC)**, **Fertilizer Solutions**, and **Methylated Seed Oils (MSO)**.

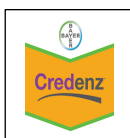
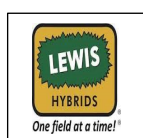
Non-Ionic Surfactants increase the activity of systemic or contact herbicides by maximizing contact with the leaf surface and helping dissolve waxy leaf cuticles. Common use rate of NIS is 1 quart per 100 gallons spray solution. Surfactants with minimal amounts of alcohol are considered superior formulations.

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LOCATIONS

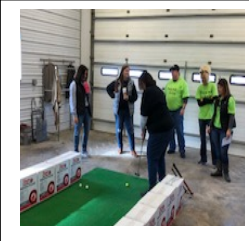
- * Griggsville, IL 217-833-2375; 1-800-LOGAN AG
- * Pittsburg, OH 937-692-5181 (JACK BAKER)
- * Paris, MO 660-327-1111 (DEAN OSBORN, MEGAN MORGAN)

www.LOGANAG.com



Par For The Course At Pole Shed Open

Golfers and “wanna-be” golfers flocked to Logan Ag’s Griggsville facility to participate in the 2019 Pole Shed Open. The annual event is a traveling Putt-Putt Golf Tournament organized by the Pittsfield Ag Alumni to benefit the Pittsfield FFA Program. Participants in the 4-person team event vied for a traveling trophy presented at the conclusion of the tourney.



The Logan Ag hole featured an L-shaped course that ran under the John Deere sprayer and was bordered by cases of **Logan Agri-Yield Premium Foliar**. There was a “hole-in-one” shot and several golfers were successful in making this difficult shot.

Plaudits to the Pittsfield Ag Alumni for coordinating the event, to the Logan Ag team for preparing the shop and setting up the golf hole, and to nearly 300 participants in this fund-raising event.

Paris Dicamba Training

Logan Ag invites you to 2019 dicamba training at its new Paris, MO warehouse/office facility. The training will be held on Friday, February 22 beginning at 10 AM. Annual training is required for anyone making application of dicamba herbicide to Roundup Ready 2 Xtend® soybeans.

Bayer personnel will provide training and review various aspects of dicamba application. A certificate of completed training will be issued to all attendees. The certificate must be presented to retailers when purchasing dicamba products including XtendiMax®, FeXapan™, and Engenia™. Contact Dean Osborn (573-406-8579) or Megan Morgan (217-617-3450) to reserve your attendance. MO and IL growers are welcome. Roundup Ready 2 Xtend and XtendiMax are trademarks of Bayer. FeXapan is a trademark of Corteva. Engenia is a trademark of BASF.



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Crop Oil Concentrates help increase retention and drying time on the leaf surface to aid herbicide penetration of the waxy leaf cuticle. COC is petroleum based and its use can often be recognized by a slight speckling of the leaf surface following application.

Fertilizer Solutions include a broad group of products such as AMS, 10-34-0, and 28%. One of the principal functions of fertilizer solutions used as adjuvants is to lower the pH of the spray solution. Many herbicides are more readily absorbed by target weeds when pH is reduced. Certain weeds such as foxtail and velvetleaf are much more easily controlled by herbicides when a fertilizer solution is added to the tank mix.

Methylated Seed Oils do not evaporate from the leaf surface and allow herbicides to remain on the plant until they penetrate the cuticle. MSO's are often derived from soybeans and are considered the most "active" of all adjuvant classes.

Now comes the simple part! Through a 40-year relationship with Van Diest Supply Company, Logan Ag has gained the utmost confidence in the Cornbelt® family of adjuvants. Most adjuvant requirements can be satisfied with a relatively small group of products.

HERBICIDES REQUIRING NIS OR COC: LOCKTITE™ contains a COC + drift/deposition agent + wetting agent. The COC in Locktite provides the weed response of crop oil concentrate with the crop safety of NIS. One low use rate of 4 oz. per acre is recommended for most herbicides.

HERBICIDES REQUIRING MSO: LOCKTITE™ MSO combines the above benefits of Locktite with a high load MSO. Use Locktite MSO in any situation where MSO is required and better canopy penetration and droplet retention on the leaf surface is desired. Use rate is 2-3 quarts per 100 gallon spray solution with the higher rate required with certain chemicals.

FERTILIZER SOLUTIONS: AMS at the rate of 2 LB per acre or **N-TENSE™** at the rate of 1 quart per 100 gallons satisfies most label requirements for fertilizer solutions. AMS is the recommended fertilizer product when applying glufosinate herbicides.

DICAMBA ADJUVANTS: One product is all you need - **VAPORGARD™ + DRA**. Used at the standard rate of 5 pints per 100 gallons, VaporGard + DRA satisfies all adjuvant requirements for post-emergence application of dicamba herbicides in one easy-to-use jug or tote.

Visit with our crop specialists before spraying and use these quality adjuvant brands with confidence.

Cornbelt, Locktite and N-Tense are trademarks of Van Diest Supply Co.

Talc USA Available For 2019 Planting

Seed is one of the major inputs in every farming operation. Proper placement of seed is critical to yield success. Use of talc facilitates better seed flow and more even

placement by eliminating bridging and clotting in a planter.

Talc USA products are mined in Montana and packaged in North Dakota. The 200-micron grind enhances fluency and lubricity in the planter. Small amounts of iron and manganese are added to aid plant growth and help increase yield. Recommended use rate is ¼ cup per 80,000 seeds.



Logan Ag is pleased to add Talc USA's 80/20 Talc Graphite to its lineup. The 80/20 blend is highly recommended for planters with metal moving parts in seed meters, with air seed planters, and with Precision Planting retrofits or John Deere ExactEmerge planters.

Talc USA 80/20 Talc Graphite is available in 10 LB or 20 LB pails at Griggsville and Paris.

NH3 Application

Anhydrous ammonia application during Spring 2019 will put farmers, retailers, truckers and supply terminals to the test due to lack of any significant fall work. At Logan Ag, less than 10% of normal fall tons were applied. The maintenance team has diligently serviced tool bars and nurse wagons in anticipation of extreme usage in the weeks ahead.

To better facilitate ammonia transportation from the terminal, Logan Ag has contracted two trucking firms and purchased a tanker to pull behind our custom trucks. The additional trucking capacity boosts our confidence in supplying ammonia tons to our storage facilities in Griggsville, Winchester and Perry, as



well as to on-farm bulk storage tanks. Ammonia terminals have pledged 24/7 operation once application begins in earnest. Our fleet of more than 100 nurse wagons will be utilized in its entirety to provide product to customers. Logan Ag will operate three custom application rigs during the spring rush



Hope remains for an early application period in late February or early March. In the event some growers are unable to gain access to tool bars or tanks before planting, Logan Ag will work to supply alternative nitrogen sources such as UAN or urea when and where needed.

Don't forget to use a stabilizer in all nitrogen

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applications. Stabilizers help maintain nitrogen in its ammonium (NH₄⁺) form for optimal utilization by the corn plant. Stabilizers are an important part of every nitrogen application – spring or fall. Ask for details on the various stabilizers offered for anhydrous ammonia, UAN and urea.

Final Comments

Edward Logan, Logan Ag President

Court White, Troy Kennedy, John Kelley, Joe Hallock, Dave Bryant, Isaac Whitaker and I attended the annual Illinois Fertilizer & Chemical Association convention in Peoria late last month. One of the highlights of the convention was the introduction of new Illinois Director of Agriculture John Sullivan. John's brief remarks provided insight into his new position and the enormity of the department. I worked with John Sullivan during his tenure as State Senator to gain his support for retention of the sales tax exemption we still enjoy in Illinois on farm inputs such as machinery, crop protection chemicals and fertilizer. I believe Illinois agriculture is in good hands with John Sullivan holding the reins.

Don't forget to complete your required annual dicamba training if you plan to apply any of the labeled dicamba herbicides to soybeans this year. We cannot legally sell dicamba herbicide for self-applied acres without a certificate of completed training.

We still have gallons of diesel fuel available for fuel contracts. Recent increases in crude oil prices make contracts look very favorable for diesel fuel delivery later this year.

**POWER-MAX
DIESEL**
The new
"standard" in
premium diesel
fuel

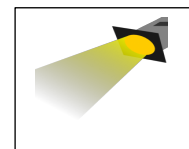
Watch **Farmers First** on the **second Wednesday of each month** on **KHQA Channel 7**. During this segment which airs at approximately **6:15 AM**, I discuss topics of interest in agriculture. If you reside outside the KHQA viewing area, we post the clips of the broadcast on our web site or you can google "Farmers First KHQA".

Are you making changes in your 2019 cropping intentions? Stop by our office or visit with one of our crop specialists to review seed orders and any additional units needed. We have top quality, high-yielding **corn hybrids** and **soybean varieties** from Lewis Hybrids, AgriGold, Stine and Credeuz in stock. Consider adding a nematicide to your soybean treatment program to provide control of yield-robbing soybean cyst nematode. I believe nematodes exist at damaging levels in every field and rob untold bushels of soybeans annually.

Our warehouse is stocked with quality **15w40 motor oil**, **premium hydraulic/transmission fluid**, **high-temperature grease cartridges** and **DEF**. Call Petroleum Specialist Mike Sargent or our office (1-800-LOGAN AG) for prompt delivery as you prepare equipment for planting season. Bulk oil tanks are available for convenience and savings.

Logan Ag Spotlight

The spotlight shines brightly on the Logan Ag crop protection chemical application team! New EPA regulations for application of dicamba in Roundup Ready 2 Xtend soybeans require anyone operating a sprayer to be a licensed "applicator". In Illinois, the term "applicator" is a game-changer for any retailer in custom application. Previously, those involved in the application of pesticides were required to carry an "operators" license and work under the supervision of an applicator. The applicator was required to pass a General Standards test plus a Field Crops test while operators had only to pass the General Standards test.



Custom applicators across the state have sent operators to testing sites to obtain the applicator license. The applicator test (Field Crops) is a very difficult exam requiring extensive knowledge of weeds, insects and diseases, as well as treatment thresholds.

The ENTIRE Logan Ag application team consisting of **Jamie Pennock, John Kelley, Josh Schaver, Roger Hack, Kenny Manson, Mitchel Main and Sheldan Martin** successfully completed the applicator exam on their first attempt! **Congratulations to this outstanding group!**

Why Inoculate

As the days until 2019 soybean planting dwindle, growers are making final decisions on seed treatment programs. Seedsmen often discuss soybean inoculation as part of the total treatment package.

Why inoculate? Will inoculation return a profit?

Soybean production utilizes large quantities of nitrogen. Inoculation helps bring more nitrogen into the plant by adding additional nodules which helps create root mass for potentially more nodulation sites, as well as additional nutrient uptake and healthier plants. Penn State University developed a simple Q&A test for each field to determine if a beneficial outcome is expected for inoculation. Any points scored indicates probable benefit from inoculation applied to seed.

- *Is it in a consistent C-B rotation? Y__ (0) N__ (2)
- *Will the field be planted before May 1? Y__ (1) N__ (0)
- *Are there flooded areas (more than 4 days)? Y__ (3) N__ (0)
- *Is the pH below 6.0? Y__ (3) N__ (0)
- *Does the field have coarse soil? Y__ (3) N__ (0)
- *Did the last crop of beans appear yellow during the second half of the growing season? Y__ (4) N__ (0)
- *Have seed applied fungicides been used with each previous bean crop? Y__ (2) N__ (0)
- *Do crops often experience severe water stress? Y__ (3) N__ (0)
- *Is the field no-tilled? Y__ (3) N__ (0)

