

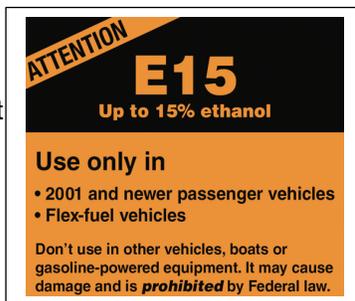
Logan Ag News

November 2018

Trump E15 Proposal Provides Support For Corn Production

President Trump announced in early October he would direct the U.S. EPA to waive Reid Vapor Pressure (RVP) restrictions on E15 to allow year-round sales of the higher ethanol blended fuel. Agricultural groups quickly expressed support for Trump's proposal. "Securing fair market access for E15 and other higher blends has been our top regulatory priority for several years," said Geoff Cooper, president and CEO of Renewable Fuels Association.

E15 contains 15% ethanol and is approved for use in nearly 90% of gasoline-powered vehicles traveling U.S. highways (2001 and newer models). Engines need not be Flex-Fuel to use E15. With current ethanol prices below gasoline prices, E15 should be sold at a discount to current E10 blends on the market. Logan Ag offers E15 for at least 2 cents per gallon below E10 at its retail fueling site.



E15 is 88 octane fuel – an improvement in octane level over 87 octane E10. More than 1400 locations nationwide offer E15 currently, and that number is expected to increase if President Trump's waiver request is granted.

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LOCATIONS

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

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2019 Soybean Variety Recommendations

Many growers report outstanding soybean yields and are in the process of determining varieties to plant in 2019. The most popular (and highest yielding) trait platforms available include LibertyLink® G27™ and Roundup Ready 2 Xtend®. Logan Ag, as an independent supplier of seed, offers both trait platforms for 2019 planting.



LibertyLink GT27 is new for 2019. This trait is tolerant to in-crop applications of glyphosate (Roundup®) and glufosinate (Liberty®). Roundup Ready 2 Xtend soybeans are tolerant to applications of dicamba and glyphosate herbicides used either pre-emerge or post-emerge.



Logan Ag is pleased to represent two of the outstanding soybean names in the industry – Stine and Lewis Hybrids. The genetically diverse varieties sold under these brand names provide the foundation for yield success year after year. Listed below are a few of our top recommendations for planting in 2019 based on performance in plots this year.

STINE – tolerant to glyphosate and glufosinate. DO NOT APPLY DICAMBA.



34GA02 – This new medium height GT27 variety (3.4 maturity) has very good emergence and standability. It touts resistance to soybean cyst nematodes (SCN) and average/good tolerance to SDS.

38GA12 - New for 2019, this GT27 bean is late Group 3 maturity (3.8), has very good emergence and standability, and is resistant to SCN. It tolerates wetter soils well and carries a good SDS rating. Plant height is medium.

41GA02 – An early Group 4 (4.1) GT27 bean exhibits very good emergence and standability with medium plant height. It is resistant to SCN, has very good resistance to Phytophthora Root Rot, but will definitely need seed treatment if planted in fields with history of SDS. This maturity works well in central IL and MO.

Stine soybeans are competitively priced and are our top recommendation under the Liberty platform.

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Logan Ag contemplates the addition of E15 at its Milton, IL 24/7 Fuel site.



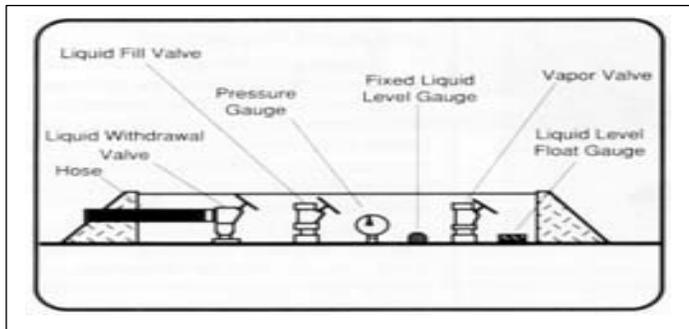
Of great interest to farmers is another potential use for U.S. corn production. Approximately 5 billion bushels of corn is used annually in the U.S. for ethanol production. If E15 is adopted widely and consumers begin fueling with the higher ethanol blend, corn usage for ethanol production could increase substantially. An additional 1- to 2-billion bushel market for corn is foreseeable with increases in the market price of corn anticipated. Of course, none of this increase is expected initially as infrastructure is not in place in fuel distribution or at retail locations to accommodate higher ethanol blend fuel. There is currently an oversupply of U.S. ethanol as a result of trade issues with China.

Logan Ag, recognized as the “renewable fuels leader in Western Illinois” since its adoption of ethanol and biodiesel blends nearly 30 years ago, encourages you to **“burn what you grow!”**

Fall NH3 Application

Fall anhydrous ammonia application season is upon us. Many growers will head to the field soon to apply nitrogen for 2019 corn acres. Logan Ag suggests a few safety guidelines to help avoid/prevent accidents and injury to those involved in the application process.

Many releases occur when opening/closing valves on the nurse tank. A review of tank valves is important for applicators.



- The **Liquid Withdrawal Valve** is positioned at the front of the nurse tank. A dip tube is attached to the valve and extends to the bottom of the nurse tank. A hose is attached from this valve to the tool bar during the application process. This valve is opened only when applying ammonia and closed at all other times.
- The **Liquid Fill Valve** and **Vapor Valve** are used only during the tank filling process. No ammonia is available from these valves but ammonia vapor escapes rapidly when opened. Applicators should leave these valves closed at all times.

- The **Pressure Gauge** reads from 0 to 400 PSI. Tank pressure is affected by the temperature of the ammonia and tank volume. Tank pressure affects the rate at which ammonia flows through the liquid withdrawal valve.
- The **Fixed Liquid Level Gauge** is a small bleeder valve with a dip tube that extends into the tank to a liquid level of 85%. When opened during the tank filling process, vapor is seen until the liquid level reaches 85%. At that capacity, ammonia liquid spews from the valve. This valve should remain closed at all times during application.
- The **Liquid Level Float Gauge** indicates the quantity of ammonia in the tank. Tanks are not filled above 85% capacity.

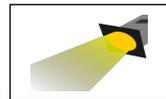
Safe handling of anhydrous ammonia is imperative to avoid injury.

- Check hoses and valves to make certain rubber gaskets are in place before connecting.
- Use a hitch pin and safety clip when moving nurse wagons behind a truck or tractor. These are usually supplied with the nurse wagon.
- Attach safety chains from the nurse wagon to the towing unit or tool bar.
- Always bleed off pressure in hoses using bleeder valves before disconnecting.
- Nurse wagons have Slow Moving Vehicle emblems. Road speed is 25 MPH.

Before hooking a nurse tank to the tool bar, check the **safety water bottle** to make certain it is filled. It is strongly suggested to also carry a small bottle of water in the tractor as well. **Water is the initial first aid for any ammonia contact with skin or eyes.** Certain items of **Personal Protective Equipment** are necessary including **goggles, rubber gloves, and long-sleeved shirt or jacket.**

When properly used, anhydrous ammonia is an effective and economical source of nitrogen.

Logan Ag Spotlight Shines On...



Matthew Kennedy: Matthew married Alexis Bellovich in Hannibal, MO on October 20! The newlywed couple resides in New Canton, IL.

Craig (Toad) Orr: Toad joined the Logan Ag team in October and is involved in trucking and delivery. Toad resides in Griggsville and his familiarity with the area will prove invaluable. His duties include petroleum transportation, dry/liquid fertilizer trucking, NH3 delivery and more. Please join us in welcoming Orr to Logan Ag.

Laura Wainman: Laura and her husband Greg were
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honored as “Friends of the Festival” by the Griggsville Apple Festival at its September celebration for their work in the community. Laura and Greg are lifelong residents of Griggsville.

Final Comments

Edward Logan, Logan Ag President

There is strong demand for Stine LibertyLink GT27 soybeans and supply is limited. Logan Ag secured a good supply of these beans, but I encourage you to order now to ensure availability at planting time.

Fertilizer markets, especially nitrogen and potash, continue to show price strength. Although fertilizer prices are high compared to year-ago levels, it's imperative to apply nutrients to satisfy the requirements of high-yielding crops. I have viewed many soil test results over the past several weeks and have taken particular notice of declining potash levels. Please review soil tests with our crop specialists to develop a fertility program to address nutrient deficiencies and maximize production in a cost-effective manner.

“Why are producers increasing fertilizer prices?” My stock answer to this question is typically, “Because they can.” I recently read an article at Reuters.com dated 8/20/18 written by Rod Nickel and Barbara Lewis regarding potash prices. The article's opening statement, “Canada's Nutrien Ltd, the world's biggest potash miner by capacity, has helped engineer a surprising price rebound for the fertilizer by idling capacity.” caught my attention and reinforced my opinion. Nutrien, according to the Reuters article, has more than 8 million tons of idled potash capacity. The idled capacity represents 11% of current global operational capacity. Nutrien, according to Chief Executive Chuck Magro, **plans to continue idling production to allow potash prices to increase to the level where competitors may consider entering the market and then put more tons in the marketplace to eliminate competition.** Magro told Reuters, “*We will not be shy.*” For further information on this article, check the Internet for “**Nutrien steers potash recovery as BHP waits in the wings.**” The attitude of this fertilizer giant is a slap in the face to producers who rely on lower cost fertilizer as an important function of their overall profit formula. I think daily about the principles upon which my dad, Jim Logan, began Logan Agri-Service in 1962 and are used to guide our company some 56 years later – **provide quality products at competitive prices with service that exceeds customer expectations.** I'll get off my soapbox now!!!

Logan Ag offers custom application of anhydrous ammonia and has capacity for additional acres in western Illinois. Give us a call to schedule application. Further, we have rental tool bars and a fleet of NH3 nurse wagons available at our main location in Griggsville, as well as Perry and Scott Co. Always use a nitrogen stabilizer and delay fall anhydrous application until soil temperature is 50°.

LEWIS HYBRIDS – tolerant to glyphosate and dicamba. DO NOT APPLY LIBERTY.

3682X – Medium height plant with 3.6 maturity. Position this bean on your most productive acres for top yields. This bean yielded over 103 bushels per acre in



Logan Ag yield trials. Use seed treatment for SDS if planting on fields with history of disease pressure.

3792X – New for 2019, this variety is a little taller than 3682X and is better suited for tougher soils and conditions. It carries a strong Phytophthora Root Rot package and is a 3.7 maturity bean.

4091X – This new early Group 4 bean is a slightly taller plant with good stress tolerance for tougher conditions. It emerges very well and is a good fit for no-till acres.

4393X – For those who want to push maturity limits, this early-to-mid Group 4 bean is suited for most soil types and stands very well. It is stacked with STS tolerance and can be used on acres where late-emerging cocklebur, lambsquarter, morningglory and certain other broadleaf weeds are troublesome.

Lewis Hybrids soybeans are our #1 recommendation for dicamba-tolerant varieties and are yield leaders in every plot. Plant these varieties with confidence.

Visit with your Logan Ag crop specialist soon to order 2019 soybeans. Discuss our treatment options including inoculation, SDS treatment and plant growth regulators. Liberty Link and Liberty are trademarks of BASF. GT27 is a trademark of MS Technologies and BASF. Roundup and Roundup Ready 2 Xtend are trademarks of Bayer.

High Yields Remove Large Quantity Of P&K

Hopefully your 2018 harvest is nearly complete. As you contemplate your yield success in corn and soybeans, remember that high yields require high fertility levels.

Each bushel of corn harvested removes approximately 0.8 LB DAP and 0.4 LB potash. Each bushel of soybeans harvested removes approximately 1.63 LB DAP and 1.95 LB potash. Please refer to the attached sheet for fertilizer application guidelines.

Fall soil test results reveal declines in P and K levels. Why? P and K application rates are not keeping up with yield gains. Most agronomists now advise fertilizer application for each crop to be grown. In that manner, P and K rates may be adjusted for the yield goal of the crop to be grown and additions may be included for bushels produced above prior year application.

Consult your Logan Ag crop specialist for a prescription fertility program including P and K, sulfur, MicroSync™ Plus and PMAX™. Top yields begin with good fertility! MicroSync Plus is a trademark of Verdesian. PMAX is a trademark of Midtech R&D.

