

## ***Foliar Feed to add Bushels to Prospective Bumper Crop***

*6/8/2018*

USDA's crop outlook rates corn and soybeans at 75% or higher "good to excellent." Mid-season foliar feeding gives you an opportunity to give a fast-growing crop *even more yield potential*.

At our winter seminars, over 60% of our clients raised their hands when asked if they regularly foliar feed crops. We've come to expect AgriEnergy farmers to lead the innovation curve on many nutrition technologies. We've seen one other survey indicating that only about 20% of row-crop growers foliar feed.

**An AgriEnergy seminar presentation** by Dr. Roch Gaussoin of the University of Nebraska offered a wealth of research confirming benefits of foliar nutrition. Four of his examples:

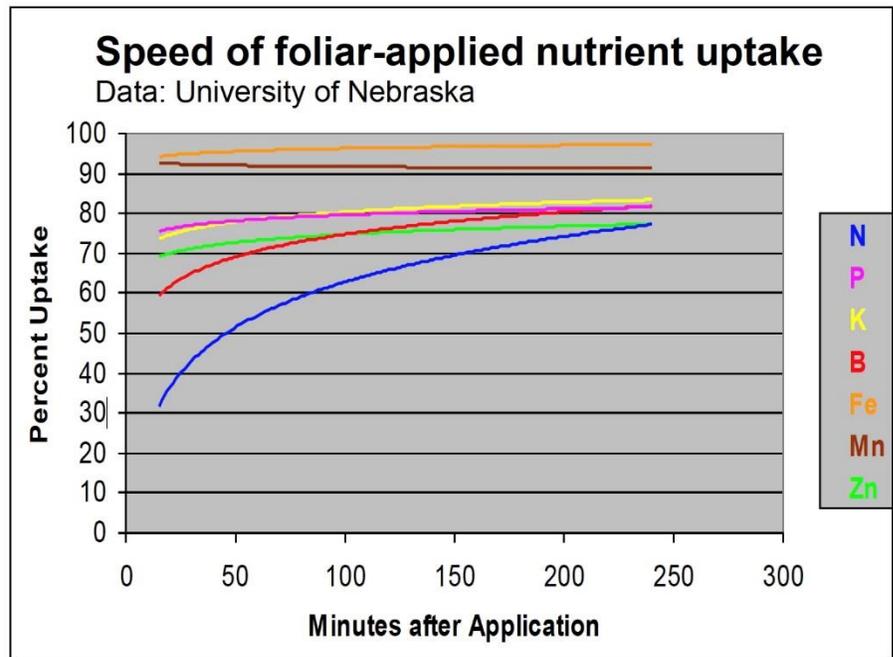
1. More control over nutrient delivery to meet changing seasonal needs.
2. Less groundwater contamination and loss to leaching.
3. Leaf-applied nitrogen is 31% to 99% metabolized, versus 10% to 40% of soil applied nitrogen.
4. With today's fast-response tissue and sap analysis services, you can adjust foliar rates to meet your crop's changing needs *before* deficiencies show up visually. Even if you scout regularly for leaf symptoms, streaking or yellowing indicates that crops have already lost yields.

Dr. Gaussoin said, "Foliar fertilization is by far the most effective way to apply secondary and trace elements. Nutrients are more easily utilized, because foliar

absorption is a physical and chemical process, not a biological process as with most granular fertilizers.”

This chart by Dr. Gaussoin’s team shows that foliar nutrients move into crop metabolism quickly if you use a good surfactant for uniform leaf coverage. If you don’t need OMRI approval, we’ve seen excellent coverage, penetration and nutrient transfer with **WakeUP Summer** through years of field trials and grower experience.

Among the hundreds of ag surfactants and “stickers,” we’ve found that **WakeUP Summer** gives you three benefits in addition to reducing water’s surface tension.



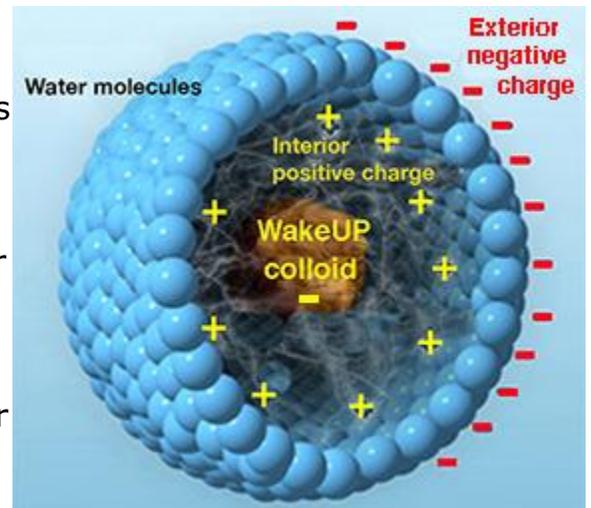
1. Its *cleansing* capability temporarily softens and lifts the waxy leaf cuticle. That opens up the leaf surface for more complete, quick penetration of your nutrient payload.
2. **WakeUP Summer** moves into the crop’s phloem circulation tubes, reducing the time and energy required to ionically pump sugars and other nutrients to distant growing points. Brix tests of corn roots show that sugar levels of roots rise by 70% after foliar treatment with **WakeUP Summer**. That energy feeds more growth of beneficial mycorrhiza and other organisms, which dissolve soil nutrients for crop nutrition.
3. WakeUP is made entirely from plant-based ingredients, so it’s compatible with crop metabolism and safe to use. (Most conventional surfactants are made from phosphates or petroleum-based ingredients. They usually post toxic warnings on the label.)

WakeUP is manufactured with a unique, exothermic reaction which builds billions of negatively charged *colloids* less than one-fourth the size of a water molecule. Mixed with water, each WakeUP colloid attracts positive ends of many water molecules around it. That forms a *micelle* — a sphere with a net negative outside

charge. You can see this happen: Mix WakeUP with water, and the water turns slightly milky.

Each micelle's negative charge lightly repels other micelles. That sharply drops the water's surface tension. WakeUP's energy physics in water are unique from other surfactants.

*Here's the nutritional payoff:* WakeUP's water micelles attract *positive* ions in your mix of manganese, zinc, nitrogen and other nutrients. These bonded micelles and nutrients quickly penetrate together into your crop's metabolism.



Tissue tests consistently show that foliar nutrients such as manganese and zinc move into metabolism at up to *twice* the absorption rate compared to water alone as a carrier.

**That's why we encourage you to tank-mix five ounces per acre of **WakeUP Summer**** when you foliar-feed our excellent nutrient mixes such as **Accelerator** or **Agriboost PK**. These AgriEnergy nutrients, foliar applied on corn pre-tassel, can enhance grain fill and help maintain green leaves later in the season. We'd like to see every one of our customers keep that idea we've long sought in cornfields every fall: A fully-formed, mature ear in a white husk, hanging from a healthy, mostly green stalk.

Call your AgriEnergy rep today! **815.872.1190.**