

# Trace element analysis of winter wheat shows how BinBuster XP mobilizes foliar-applied micronutrients

Dr. Dan Skow of International Ag Labs, Fairmont, MN says that foliar feeding crops is the next major opportunity for raising crop yields, quality and profit.

Skow adds that foliar sprays are the most efficient way to correct trace element deficiencies, which are showing up with increasing frequency on soils with a long history of glyphosate application.

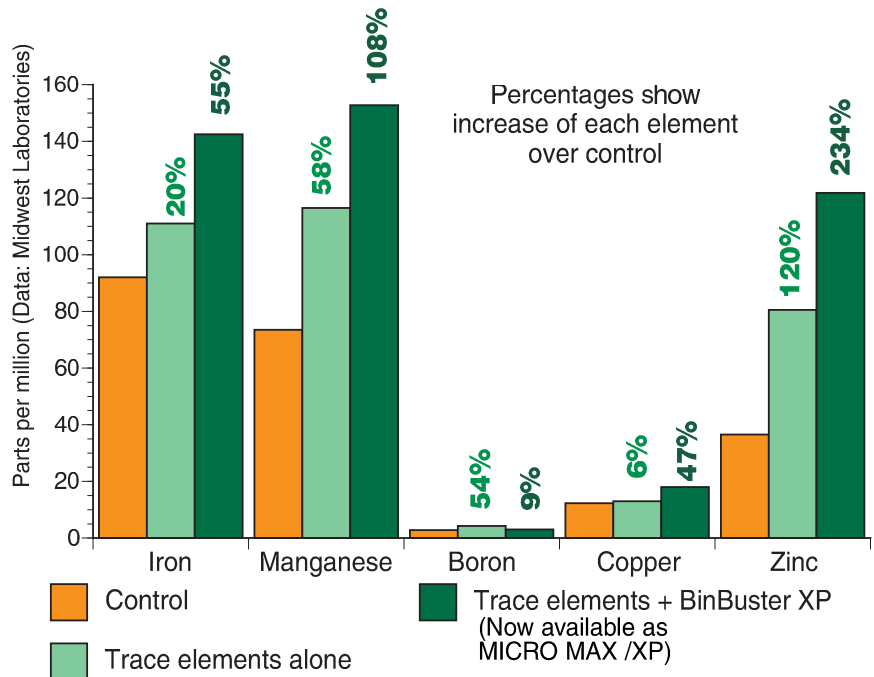
Glyphosate, a strong chelating agent, ties up important elements like manganese, copper and zinc.

Field research in 2010 shows that BinBuster XP — a “nanotech” surfactant and transporter — helps carry foliar-applied elements *into* crops and *through* crop circulation systems. Wheat tissue tests at right are one example. This data is the average of four random-rep samples on wheat for each treatment:

1. Trace elements applied alone
2. Trace elements with BinBuster XP
3. Untreated control

(The trace pack in this test had an analysis very similar to Kugler Co.’s Micro Max.) Applied alone, the trace mix improved levels of beneficial elements (chart above). Tank-mixed with BinBuster XP, absorption and translocation of most elements rose substantially.

## Trace element content of new winter wheat growth 11 days after foliar spray with trace elements, with and without BinBuster XP surfactant/transporter



BinBuster XP greatly reduces surface tension of water, which improves leaf contact (photos below) and enhances internal translocation of nutrients through crop xylem and phloem systems.

BinBuster XP is also a solvent that softens the waxy cuticle on leaves so nutrient can easily enter plant circulation pathways.

Here’s the obvious answer to make the most of an excellent trace element pack and an awesome surfactant/carrier: Blend them in ideal amounts in a ready-to-spray product. That product is MICRO MAX / XP.

Wheat growers can be sure there’s an adequate amount of surfactant and translocation capability every time. BinBuster XP’s unique formulation contains “nanotech” micelles which help trace elements penetrate into leaves quickly and absorb into crop metabolism. More nutrients are absorbed and used. Typically, MICRO MAX / XP is rain-safe in less than half an hour after you spray.



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