



Soil Nutrition Solutions

PROOF POSITIVE

PRECISION TECHNOLOGY INSTITUTE
PONTIAC, IL

SUMMARY

Nitrogen Inclusion Study

Product: L-CBF BOOST™

Crop: Corn

Application Timing: V4

Planting Date: May 5th

Objective: To evaluate yield, net return, and nitrogen use efficiency (NUE) of QLF® Agronomy's Liquid Carbon-Based Fertilizer (L-CBF) BOOST™ 4-0-3-2S added to UAN 32% applied through a Conceal® dual band. (Figure 1.)

Product Overview:

BOOST™ is a concentrated source of available carbon in a low pH chemistry package. This study specifically evaluates the ability of BOOST™ to act as nitrogen inclusion additive to aid in Nitrogen Use Efficiency (NUE). For this study, we compared a 10% nitrogen inclusion rate to 100% rates of nitrogen with and without BOOST™:

Control: 100% N: 25 Gal/A. 32% UAN At-Plant Dual Band Conceal followed by 25 Gal/A. 32% UAN V4 Side-Dress

10% N Reduction: 20 Gal/A. 32% UAN At-Plant Dual Band Conceal followed by 25 Gal V4 Side-Dress

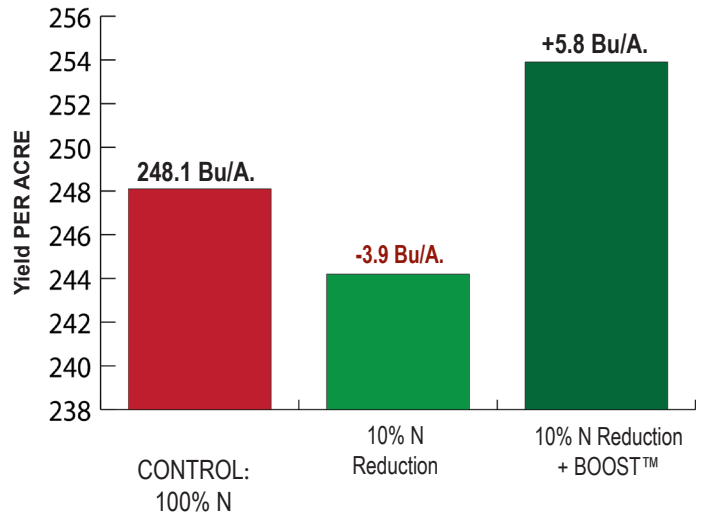
10% N Reduction + BOOST™: 20 Gal/A. 32% UAN + 2.5 Gal/A. BOOST At-Plant Dual Band Conceal followed by 25 Gal 32% UAN + 2.5 Gal/A. BOOST™ V4 Side-Dress.

Results: This year-one study reflects efficiencies gained with the BOOST™ inclusion, ensuring a better recovery of UAN 32% investment delivered through the Conceal® dual band system. BOOST™ treated UAN delivered an impressive 253.9 Bu/A. with just 162 split applied nitrogen, an NUE of 0.64 lbs. of N per bushel removed.

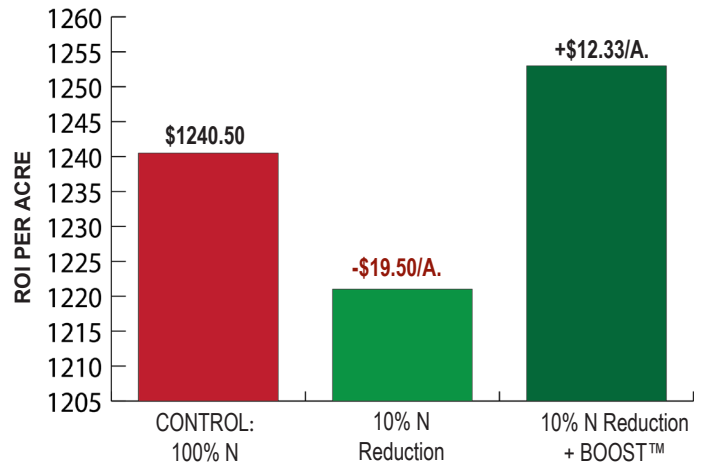


Figure 1. Conceal® dual band nitrogen placement 3" away from seed furrow 1.5"

QLF BOOST™ NITROGEN INCLUSION STUDY: YIELD



QLF BOOST™ INCLUSION STUDY: ROI



QLF BOOST™ NITROGEN INCLUSION STUDY: NUE

