

“BEST YIELDS ON THIS SOIL TYPE IN THE PRECEDING EIGHT YEARS HAD NOT EXCEEDED 193 BU/AC”

JIM PORTERFIELD - MARTINSVILLE, IL

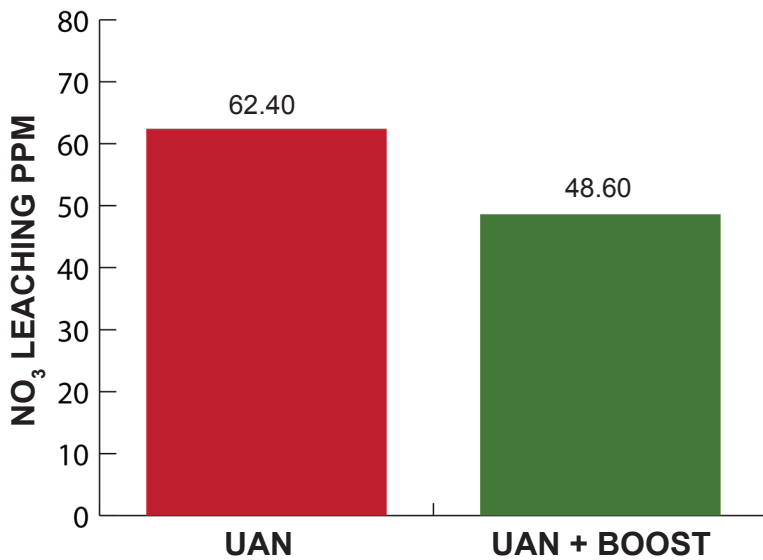
SUMMARY

A Corn Yield and Nitrate Leaching Study along with soil health and microbiology measurements were performed at an independent research station in Martinsville, Illinois in 2020. The objective of the study was to verify if QLF's (Liquid Carbon-Based Fertilizer) L-CBF BOOST™ with Urea Ammonium Nitrate-UAN will decrease nitrate (NO₃-) leaching in field tile drainage water along with making nutrients readily available for the corn plants to uptake and gain yield advantages. Liquid nitrogen was applied both pre-emerge broadcast and post-emerge at V5 side-dress with Y-drop. This study compared rates of two applications at 40 gallons per acre of UAN 28% to rates of 36 gallons per acre of UAN 28% + BOOST at 4 gallons of per acre. The L-CBF BOOST treatments used 20 lbs. less (9% less) applied nitrogen per acre and demonstrated twenty-two percent reduction in NO₃- leaching concentrations while gaining a twenty-two bushel per acre (12% more) increase in corn yield.

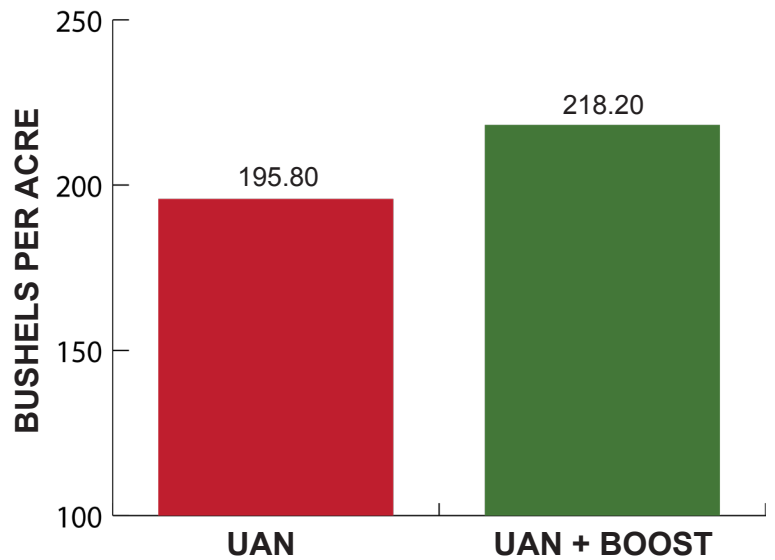
May 10th	May 12th	June 8th	Total N Applied
Broadcast N	Planting Date	Side Dress N	
40 GPA UAN 28%		40 GPA UAN 28%	238 LBS N
36 GPA UAN 28% 4 GPA BOOST		36 GPA UAN 28% 4 GPA BOOST	218 LBS N

BOOST ADVANTAGE
+\$71/ACRE NET RETURN

Nitrate Concentration Reduction



Corn Yields



-22%
NITRATES

-20 LBS
APPLIED N

+22
BUSHEL