MicroEssentials® SZ™
Durum Wheat Fertility

Objective
• Evaluate the yield response of MicroEssentials® SZ™ (12-40-0-10S-1Zn) in durum wheat compared to MAP (11-52-0).

Overview
• Durum wheat is a common crop grown in the Northern Great Plains and Western Prairie Provinces of Canada.
• MAP is commonly used as a phosphorus fertilizer source applied to durum wheat.
• Durum wheat is known to be responsive to zinc fertility.
• MicroEssentials SZ provides N, P, S and Zn in one nutritionally balanced granule.

Trial Details
Locations and Crop Management:
CROP: Durum Wheat (Triticum durum)
YEARS: 2010–2013
DATA SOURCE: Field studies conducted by third-party, independent researchers.
EXPERIMENTAL DESIGN: Small-plot RCBD with 4 replications.
CROPPING CONDITIONS: Trials conformed to local cropping practices.
• P Rate: 40 lbs P₂O₅/ac
• K Rate: As required by soil test.
• Application Timing: Preplant
• Application Method: Broadcast incorporate

Zinc deficiency in wheat

Summary
• Averaged across 4 years and 16 replicated trials, MicroEssentials SZ outyielded MAP by 2.0 bu/ac (3.3%).
• This data demonstrated a significant yield response to the sulfur and zinc found in MicroEssentials SZ.
• MicroEssentials SZ provides uniform nutrient distribution, increased phosphorus uptake, season-long sulfur availability, as well as zinc nutrition for additional yield and return on investment.