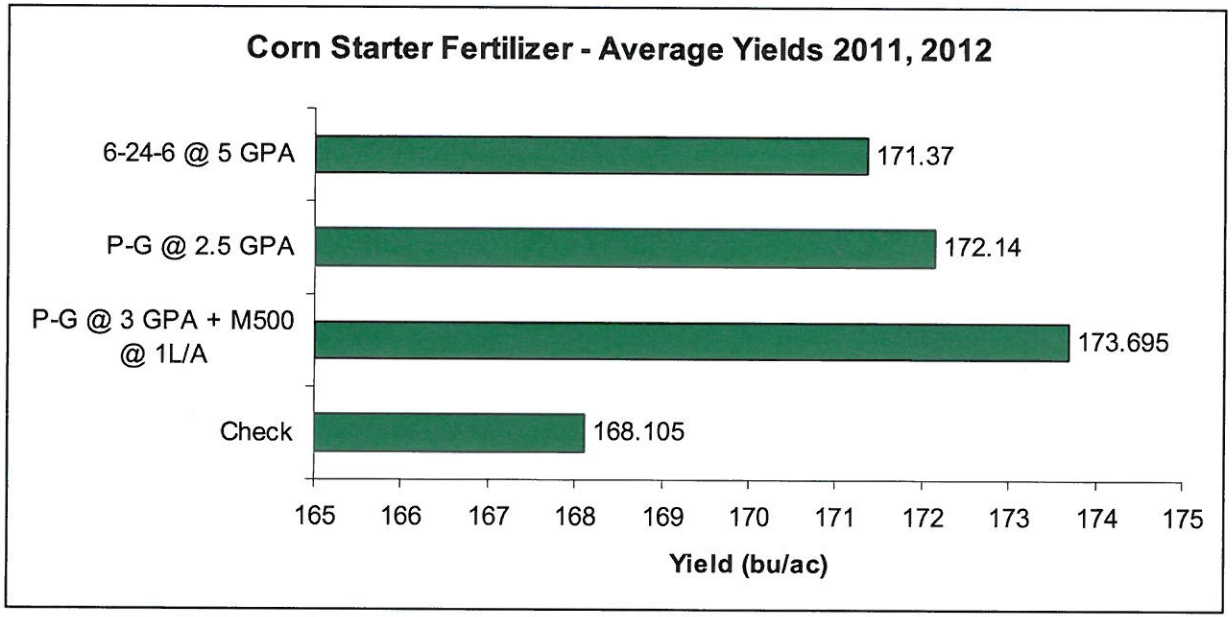
Two Year Liquid Starter Fertilizer Comparison in Corn

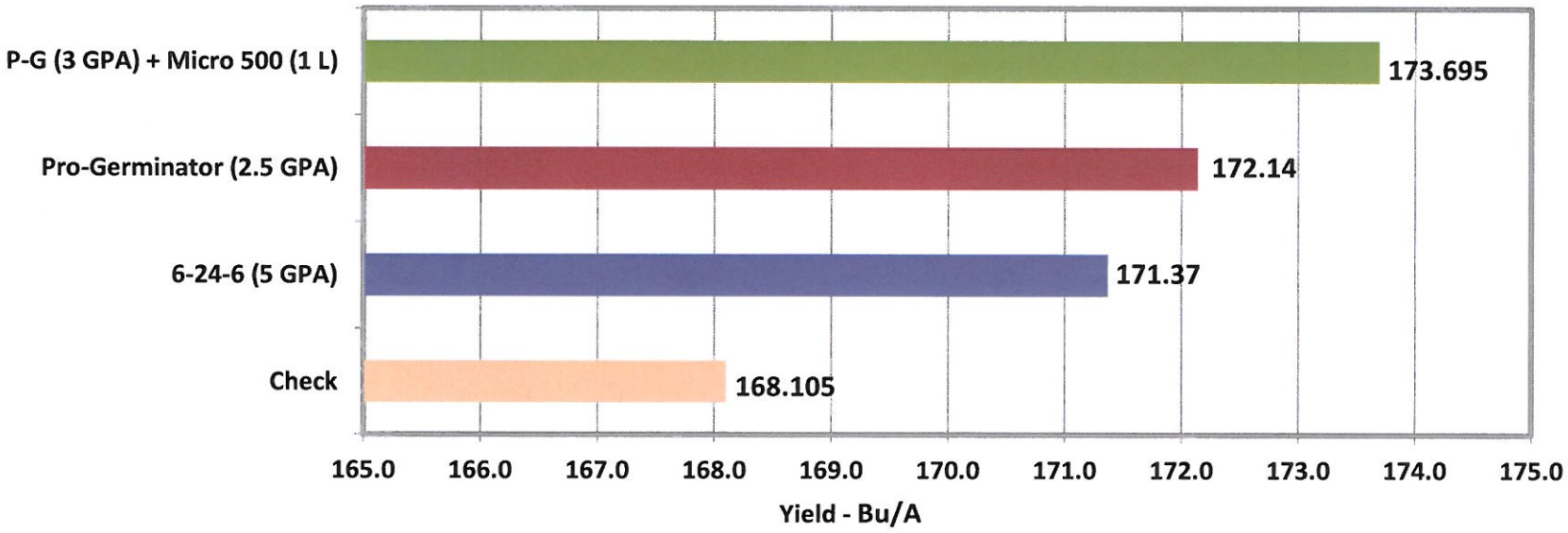
Year: 2012
Date of Planting/Harvest: May 6 / Oct 21
Hybrid: A6272G8
Population: 30, 000 seeds/acre
Plot Size (replications): 12 rows x 720 ft (4)

Soil Test Levels	
pH: 6.8	C.E.C.: 6.3
OM: 1.8%	P Bicarb: 77 ppm
K: 95 ppm	P Bray: 224 ppm

Placing small to moderate amounts of fertilizer in close proximity to the seed at planting has been shown to increase early season growth and yield of grain crops (Gordon and Pierzynski 2006). This phenomenon is particularly evident under cool, wet conditions (Buah et al. 1999). Yield responses to starter fertilizer have been documented even when soil test values were high (Gordon and Pierzynski 2006). This experiment was conducted, over a two year period, to further evaluate the effects of starter fertilizer on grain corn yields in Southwestern Ontario at the field-scale level. Treatment effects on yield are in the following chart.

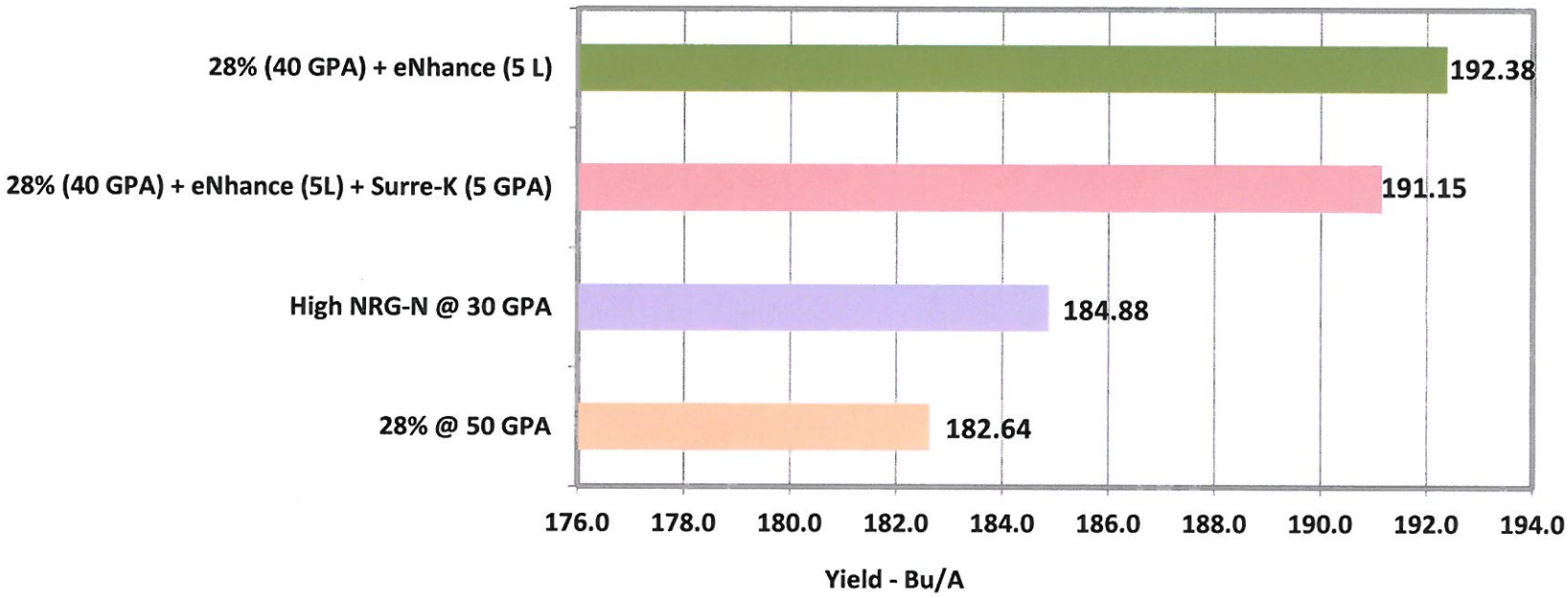


CORN - Independent Field Trial
Innerkip, ON - 2011 / 2012



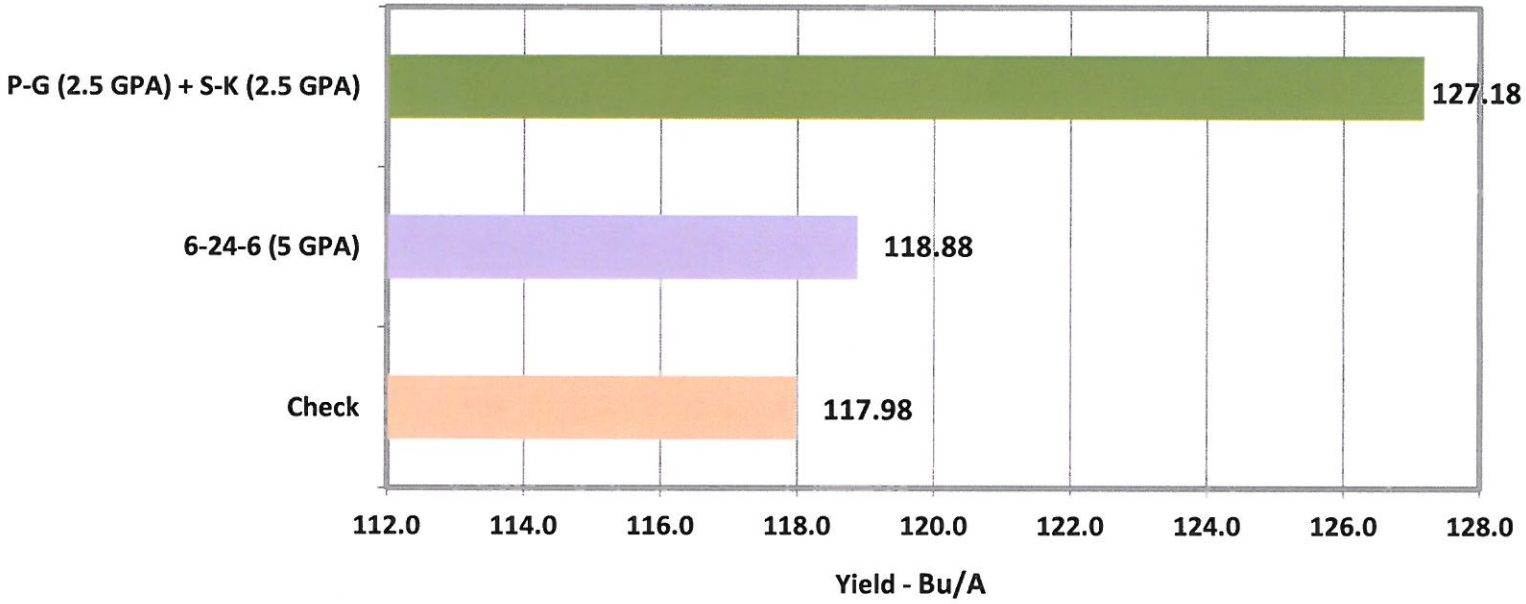
- Two Year Average
- Seed Variety: Pride A6272G8
- In-furrow treatment
- pH: 6.8; OM: 1.8%; C.E.C. : 6.3;

CORN - Sidedress Comparison
Innerkip, ON 2012



- Variety: A6535G8; 2900 CHU
- Planitng Date / Harvest Date: May 1 / October 17
- Application Date: June 20
- Starter Fertilizer: Pro-Germinator (3 GPA) + Sure-K (5 GPA) + eNhance (1 L)

CORN - Starter Blend with Manure
Innerkip, ON 2012



- Variety: A6272G8; 2850 CHu
- Planting Date / Harvesting Date: May 12 / December 5
- In-Furrow application