



Sidedress Nitrogen Options in Corn Exeter, ON

Experiment Info:

Planted:	4/29/2015
Harvest:	11/10/2015
Yield Goal:	200
Target Fert.:	200-20-5
Variety:	Pnr P0157AM
Population:	35000
Row Width:	30"
Prev. Crop:	Soybean
Plot Size:	1 acre
Replications:	3
Planting:	4/29/2015
Sidedress:	7/15/2015

Soil Test Values (ppm):

pH:	7.3
CEC:	17.5
%OM:	4.3
Bray P1:	0
Bicarb P:	26
K:	106
S:	9
%K:	1.5
%Mg:	12.8
%Ca:	85.5
%H:	0
Zn:	3.5
Mn:	39
B:	4

Objective:

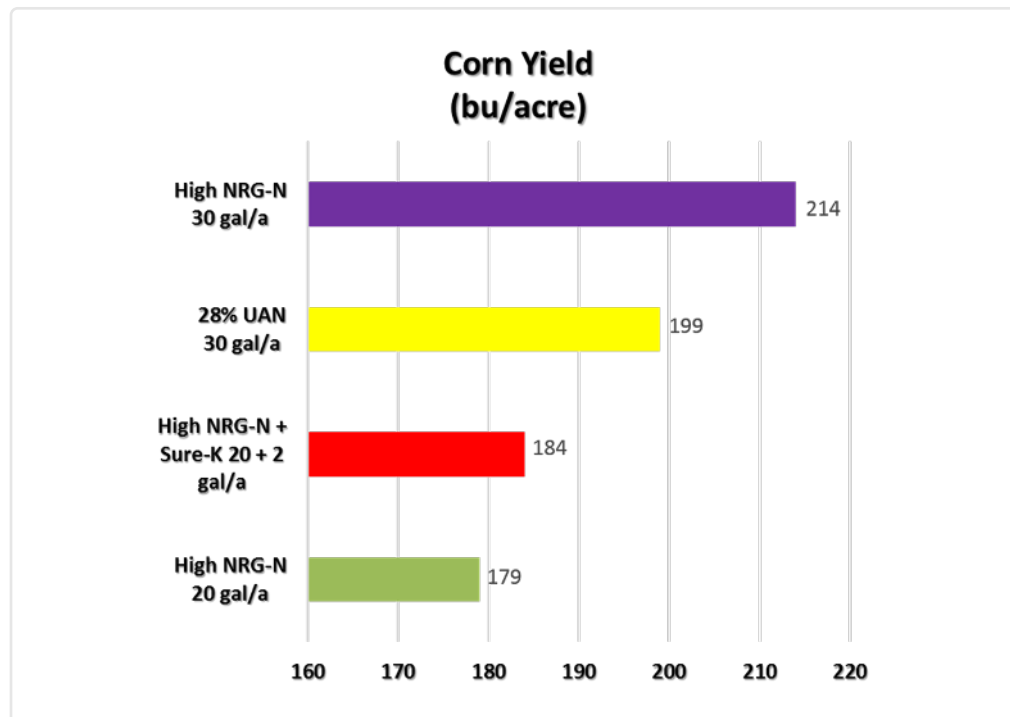
Objective: Compare High NRG-N and 28-0-0 as sidedress nitrogen applications in corn using Y-Drop applicators. The trial was conducted by Michael Strang near Exeter, ON.

Y-Drop applicators are designed to apply fertilizer in a surface band at or near the base of the plant.

All plots received 6 gal/acre 6-24-6 at planting.

The entire plot was strip tilled. All plots received 100 lb/acre AMS + 180 lb/acre ESN (44-0-0) in strips prior to planting. This provided approximately 100 lb/acre nitrogen.

Side dress applications were made using a high clearance sprayer with Y-Drop applicators. Corn was approximately 5' tall, at the V-9 or V-10 growth stage.



Conclusions:

- Corn yield in plots treated with High NRG-N at 30 gal/a were 15 bu/a higher than in plots treated with 28-0-0 at 30 gal/acre.
- Addition of Sure-K at 2 gal/acre to High NRG-N applied at 20 gal/a improved corn yield by 5 bu/a compared to 20 gal/a High NRG-N alone.
- Y-Drop applicators appear to be a useful method of providing later applications of nitrogen to corn.