

Liquid Fertilizer Placement on Corn

EXPERIMENT INFO

Planted: 05/08/2015

Harvested: 10/30/2015

Hybrid: A7270G8

Population: 32,000/acre

Row Width: 30"

Prev. Crop: Soybeans

Plot Size: 12 rows x 675'

Replications: 3

Sidedress: 06/19/2015 (40 GPA 28% UAN + 1 L/ac eNhance)

SOIL DATA

pH: min: 6.0; max: 7.0

CEC: min: 4.8; max: 5.6

% OM: min: 1.4; max: 1.7

% P: min: 20; max: 22

% K: min: 2.3; max: 3.1

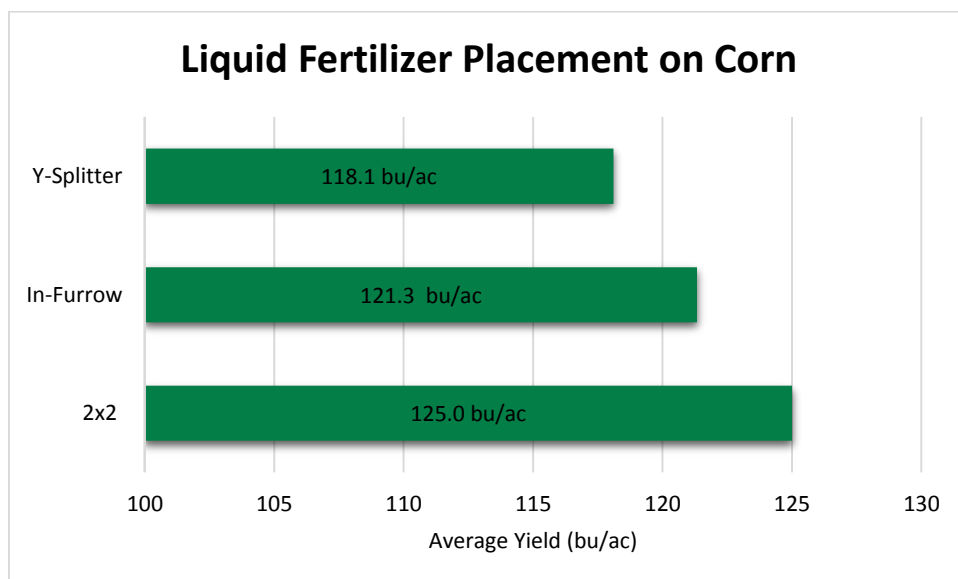
% Mg: min: 10.4; max: 14.9

% Ca: min: 59.0; max: 68.5

Objective:

The key to environmentally responsible nutrient management is applying fertilizer from the right source, at the right rate, at the right time, at the right place. This trial aims to ensure that liquid starter fertilizers are applied at the right place.

Starter Fertilizer: 4 GPA Pro-Germ + 4 GPA Sure-K + 1 L/ac Premium Calcium + 1 L/ac eNhance + 2 L/ac Micro 500



Conclusions:

On May 23, fifteen days after planting, this location experienced a drop in temperature to 27.6°F. The impact of the frost was exaggerated by the excessively dry conditions, making the resulting crop damage more severe. Any plant tissue present at the time of the frost was completely desiccated; however, the growing point survived.

This year, the strongest yield response came with the 2x2 liquid fertilizer placement.

This is the first year of the trial; it will be interesting to see how these treatments will fare in the 2016 growing conditions.