

Experiment Info:

Planted:	5/19/2014
Harvest:	10/30/2014
Yield Goal:	200 bu/A
Target Fert .:	220-29-130
Variety:	DKC 53-56 RIB
Population:	36,500
Row Width:	30"
Prev. Crop:	Wheat
Plot Size:	15x180/210/13
Replications:	5
Fall	11/20/2013
Sp.	5/19/2014
Sidedress:	6/20/2014

Soil Test Values (ppm): 7.7 pH:

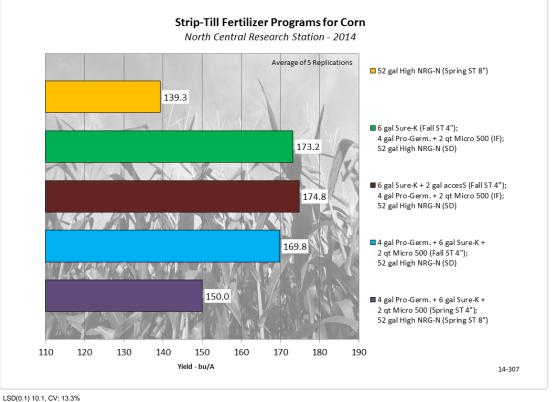
CEC:	6.5
%OM:	1.2
Bray P1:	24
Bicarb P:	10
K:	49
S:	9
%K:	1.9
%Mg:	17.4
%Ca:	79.5
%H:	0
Zn:	1.2
Mn:	8
B:	0.6

Objective:

To compare the placement methods of a recommended nutrient program for strip-tilled corn.

The recommended fertilizer program included 4 gal/A Pro-Germinator + 6 gal/A Sure-K + 2 gt/A Micro 500 + 52 gal/A High NRG-N. One treatment also added 2 gal/A accesS. Placement of these nutrients varied among the treatments. A nitrogen only treatment using High NRG-N placed at 8" deep with the strip till was used as a check.

Pro-Germinator was placed in-furrow with the planter, in the fall strip at 4" or the spring strip at 4". Sure-K was placed either in the fall at a 4" depth with the strip-till operation or one treatment placed it with the Pro-Germinator and Micro 500 in a spring strip-till trip at 4". Micro 500 was always placed with the Pro-Germinator. High NRG-N was sidedressed in most cases except for the check or the treatment that included all nutrients being placed with the strip-till. Nitrogen should always be placed further from the seed to avoid seedling injury. Spring strip-till applications were made the same day as planting. All strip tillage and planting was completed using GPS RTK to insure correct placements of the seed and fertilizer.



Conclusions:

- · High rainfall events in the spring may have lead to lower yields in the treatments with nitrogen applied in the spring strips at an 8 depth.
- · Fall strips with nitrogen sidedressed 30 days after planting yielded significantly higher bu/A than spring strip-till with strip-till placed nitrogen.
- accesS provided a small benefit to this experiment that had a sulfur soil test level in the low range.
- · Phosphorus and micronutrients were more beneficial being placed in-furrow with the planter than at 4" in a striptilled environment.