



# Adding Additional Copper for Corn ( 22-1206 )

## Experiment Info:

Planted:	5/11/2022
Harvest:	10/15/2022
Yield Goal:	180 bu/A
Target Fert.:	
Variety:	DKC 53-27 RIB
Population:	32,000
Row Width:	30"
Prev. Crop:	Corn
Plot Size:	15 x 350
Replications:	1

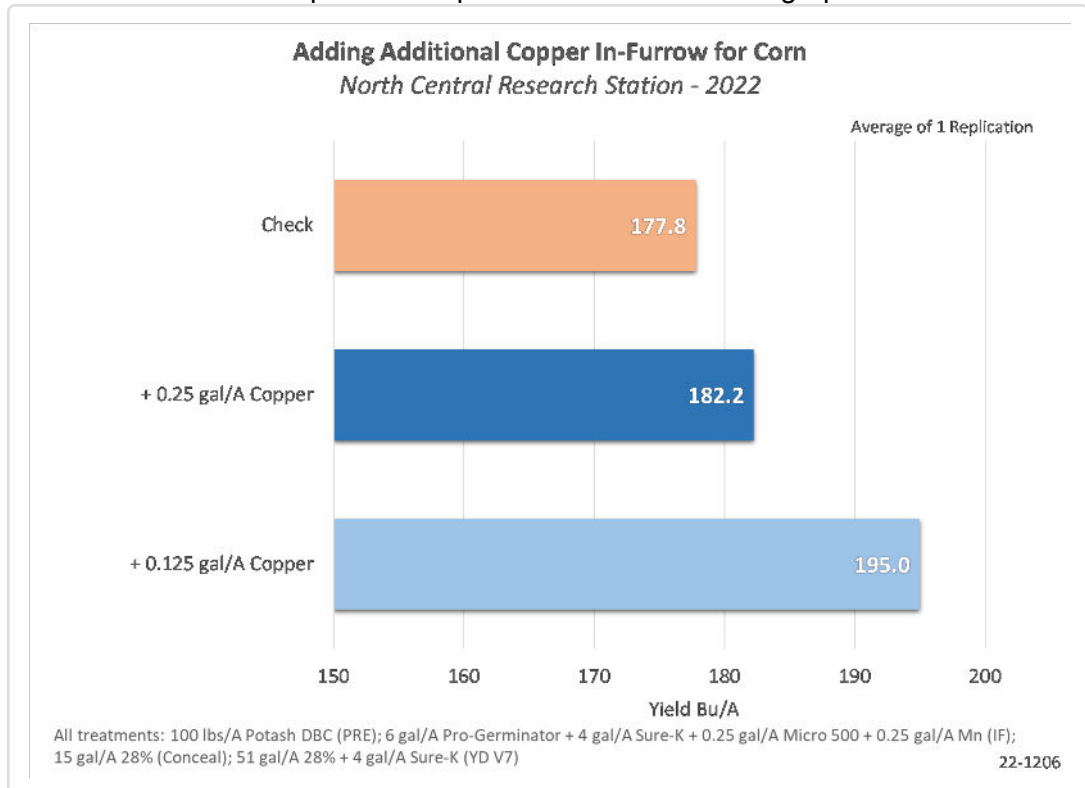
## Soil Test Values (ppm):

pH:	7.4
CEC:	17.2
%OM:	4.3
Bray P1:	9
Bicarb P:	14
K:	61
S:	6
%K:	.9
%Mg:	23.4
%Ca:	75.5
%H:	0
Zn:	.9
Mn:	3
B:	.7

## Objective:

To observe the effect of AgroLiquid MicroLink 6% Copper on corn yield when added to an in-furrow planter application.

The experiment was planted on May 11th into a soil with a copper soil test level of 1.8 ppm which is slightly above sufficient levels but the soil pH is 7.7 possibly making it slightly unavailable. All treatments had 100 lbs/A Potash broadcast before planting and the planter in-furrow mix of 6 gal/A Pro-Germinator + 4 gal/A Sure-K + 0.25 gal/A Micro 500 + 0.25 gal/A Mn. The addition of either 1 pt/A or 1 qt/A of copper made up the comparison treatments. All products were applied in-furrow using a Precision Planting SmartFirmer™ with a splitter attachment that keeps fertilizer applied to the furrow side walls and not directly onto the seed. Only 1 replication of this trial was planted, use results as such. The yield data collected for this one replication experiment is shown in the graph below.



## Conclusions:

- One replication of the addition of 1 pint of copper per acre to the in-furrow planter mix showed a yield advantage of 17.2 bu/A above the check.
- The treatment that added 1 qt/A of copper did out-yield the check by 4.4 bu/A however that was lower than the 1 pint rate. It is quite possible to add too much copper to an in-furrow mix.