



Fertilizer Programs in Irrigated Strip-Till Corn

Irrigation Research Foundation. Yuma, CO

Experiment Info:

Planted:	5/08/2017
Harvest:	11/01/2017
Yield Goal:	250
Target Fert.:	220-60-0-40S
Variety:	LG5618STX RIB
Population:	34,000
Row Width:	30
Prev. Crop:	corn
Plot Size:	4 row x 550'
Replications:	2

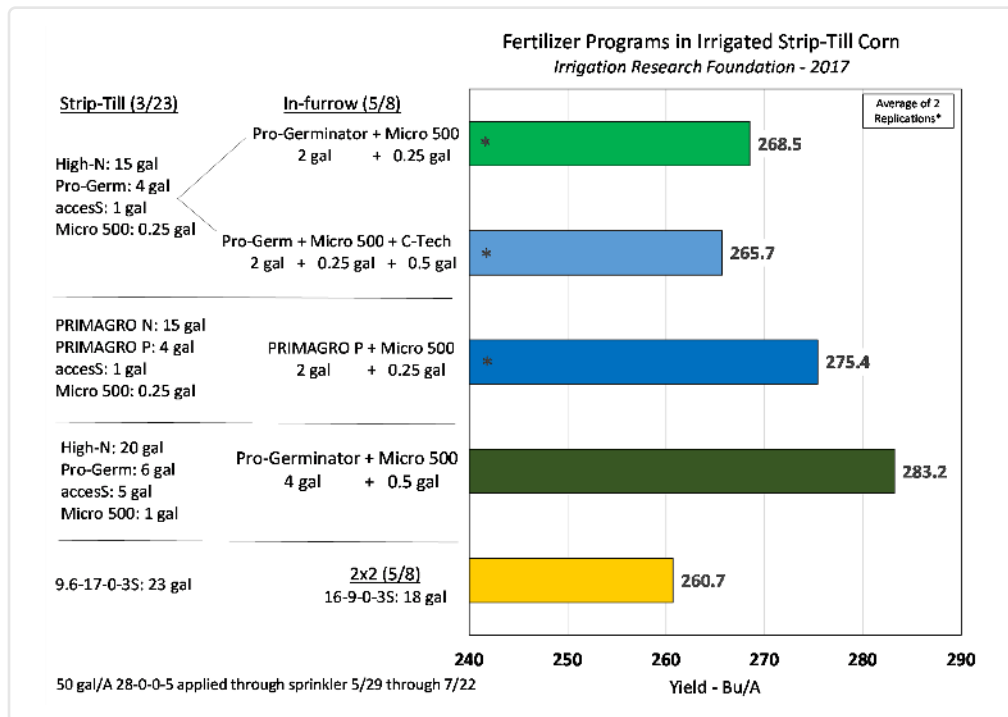
Soil Test Values (ppm):

pH:	6.8
CEC:	10.8
%OM:	1.3
Bray P1:	M3: 54
Bicarb P:	
K:	473
S:	12
%K:	11
%Mg:	25
%Ca:	63
%H:	1% Na
Zn:	3.2
Mn:	86
B:	

Objective:

Determine the effects of fertilizer program components (AgroLiquid Core vs PRIMAGRO vs Conventional) and application rates for effects on yield of irrigated strip-till corn.

The Irrigation Research Foundation is a non-profit facility with the purpose of high-yield crop management investigations in NE Colorado. AgroLiquid's core products have been tested here in past years with supportive findings. This year, new PRIMAGRO nutrients were included for evaluation. The treatments were a combination of Strip-Till (DMI, 45% at 4" deep and 55% at 10" deep) and planter (in-furrow or 2x2). The first AgroLiquid treatment was using the core products; the second added C-Tech to the planter application. The third treatment applied a similar rate of PRIMAGRO N and P. These three treatments had two replications. The other two treatments were non-replicated strips within the test block. The fourth treatment had higher rates than the first treatment to check for yield response. The fifth treatment was the IRF standard for comparison.



Conclusions:

- All treatments resulted in very good corn yields.
- The PRIMAGRO treatment yielded higher than the AgroLiquid core product treatment, and this was an economic return as well. However the addition of C-Tech to the core treatment did not increase yield.
- Increasing the application rates of the core products resulted in a 14.7 Bu/A yield increase. Fertilizer prices can vary, but this was not an economic return with \$3.00 corn.
- All AgroLiquid treatments produced a higher corn yield than the IRF conventional standard treatment. (Those fertilizers were sourced from two local suppliers and costs were not available to me.) Also this program was not known when making the AgroLiquid treatments. So it was put your best treatment out there.