



# PrimAgro Comparisons on Wheat ( 19-503 )

## Experiment Info:

Planted:	10/19/2018
Harvest:	7/24/2019
Yield Goal:	100 bu/A
Target Fert.:	120-88-85
Variety:	P25R40
Population:	2 million
Row Width:	7.5"
Prev. Crop:	Soybeans
Plot Size:	15 X 290
Replications:	4

## Soil Test Values (ppm):

pH:	7
CEC:	7.4
%OM:	1.7
Bray P1:	19
Bicarb P:	10
K:	73
S:	4
%K:	2.5
%Mg:	23.6
%Ca:	73
%H:	
Zn:	1.2
Mn:	6
B:	.3

## Objective:

To evaluate the carryover effect of biological products from a previous crop.

Soft Red Winter Wheat was planted, on a minimum tilled soil, after a late soybean harvest in 2018 with all treatments receiving a variation (as shown in the chart below) of 4 gal/A AgroLiquid phosphorus + 4 gal/A AgroLiquid potassium + 2 qt/A Micro 500. The previous soybean crop was 15" row spacing with in-furrow planter fertility applications as shown on the chart, to the left of the wheat applications. All plots were treated the same with 10 gal/A of 28% UAN + eNhanse streamed @ greenup and another 22 gal/A of 28% UAN + eNhanse streamed at Feekes 4; and a fungicide spray at flowering on. The PrimAgro products, containing organically derived biological components, used in both crops are highlighted in blue, in the chart below.

2018 Soybean spring planting applications			Winter Wheat Fall planting applications			Yield bu/A
PrimAgro P	PrimAgro K	Micro 500	Pro-Germinator	Kalibrate	Micro 500	81.7
Pro-Germinator	PrimAgro K	Micro 500	Pro-Germinator	Kalibrate	Micro 500	79
PrimAgro P	Kalibrate	Micro 500	PrimAgro P	PrimAgro K	Micro 500	78.6
Pro-Germinator	Kalibrate	Micro 500	Pro-Germinator	Kalibrate	Micro 500	76.9
1.5 gal/A	1.5 gal/A	2 qts/A	4 gal/A	4 gal/A	2 qts/A	

LSD(0.2)3.9, CV:6.3%

## Conclusions:

- An observation of wheat rows planted over the previous soybean row where applications had been made showed a slightly taller and greener plant regardless of the products that had been previously applied.
- The soybean treatment that used PrimAgro P and PrimAgro K products resulted in a higher wheat yield that was a significant 4.8 bu/A better than the treatment of AgroLiquid core products used in the 2018 soybeans.
- All treatments that had a previous crop application of PrimAgro products in the preceding year had a higher yield than the standard AgroLiquid core product use.
- Microbial respiration or soil health scores were not evaluated on this experiment in 2019.