## USING FREE PHOS 24 IN THE DEEP BAND - WINTER WHEAT

Treatment (in addition to base check)	<b>Yield</b> (Bu/a)	Bushels Over Check	Test Wgt (Lb/Bu)
14 lbs P - 2.5 Gal 11-37 + 1 Gal Free pHOS 24	129	<b>16.5</b>	62.5
18 lbs P - 3.5 Gal 11-37 + Gal Free pHOS 24	120	<b>7.4</b>	62.9
3 lbs P - 1 Gal Free pHOS 24 (no added 11-37)	116	→4.2	63.0
Base + 4 Gal 6% Humic Acid	116	→4.0	62.9
Base + 2 Gal 6% Humic Acid	114	<b>∌</b> 1.4	63.1
Base Check - 110N-P20-S15-Cl10	112		63.2
LOCATION MEAN (bu/a) CV (%) SD	117.4 2.4% 2.8		63.0 0.5% 0.3

<sup>^</sup> Variety used was WB1529, a soft white winter wheat

## **KEY FINDINGS**

- This study suggests it will take a lot of humic acid to equal the efficency of the combination of organic acids in Free pHOS 24. It took 4 gallons of humic acid PLUS 4.5 gal of 11-37 to equal the performance of 1 gal of Free pHOS 24
- The base treatment of 20 lbs of P is 4.5 gal of 11-37
  - 1:2:5 ratio Free pHOS 24:11-37 was top yielding in this trial
  - 1:3:5 ratio was not as optimal ROI or yield
  - Results suggest an optimal ratio of Free pHOS 24 is needed to protect P
- This expirement will be conducted again maintaining a 1:2.5 ratio with higher P rates



<sup>^</sup> All treatments received 110N-20P-15S-10Cl (Base Check) deep banded unless otherwise stated. Shanked in 5" -6" below soil surface using a Ripper Shooter