













Sound W











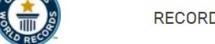




Gore. NZ 46°06'10" S Mike targets around 600-700 heads per square yard and the heads shown above had around 60 and 80 grains per head. So if you average these heads together, that's 70 grains per head.

When multiplied, 600 heads per square yard on average, works out at 42,000 grains per square yard. With 11,000 seeds per pound on average, that's 307.99 bu./ac. This isn't far from the 275 bu./ac high regions in the field.





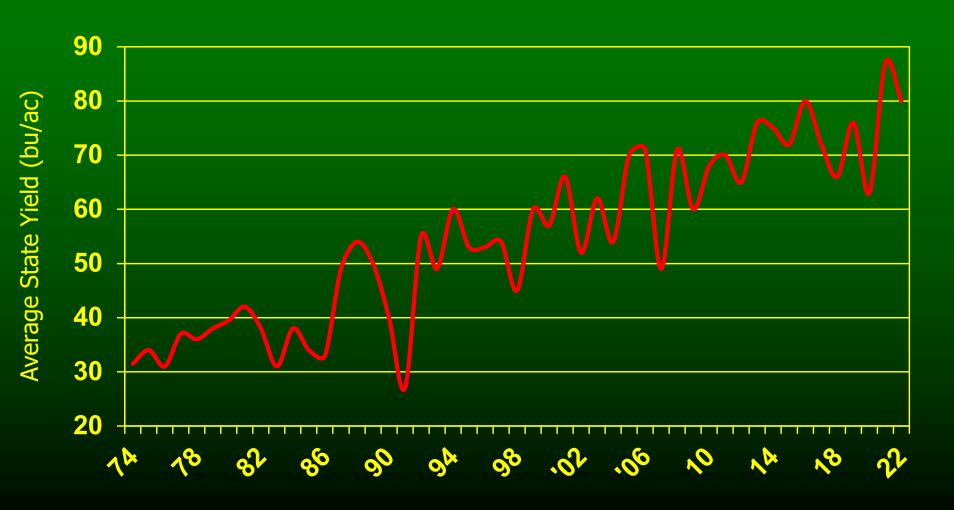
#### Highest wheat yield



## Top 8 Highest (And Most Consistent) Wheat Yield & Profit Management Practices.

- 1. Fertility Based On Yield Potential.
- 2. Narrow Row Spacing.
- 3. High Yielding, Short Varieties With FHB Toler.
- 4. Stand Count (seed population x planting date).
- 5. Uniform Head Counts In The Ideal Range.
- 6. Weed And Insect Control.
- 7. Nitrogen x Fungicides.
- 8. Phosphorus In Row.
- 9. Timing!

## Kentucky Average State Wheat Yields 1974-2022



Source: USDA (http://www.nass.usda.gov)

## No-Till Wheat Adoption in Kentucky 1980 - 2010

Year	Harvested No-Till Acres
1980	<1%
1990	22%
2000	39%
2010	69%

Source: University Of Kentucky

Table 1. Effect of Tillage on Wheat for Seven Fields Over Three Years	
Tillage	Yield (bu/ac)
No-Till	84.1
Till	85.3

Source: University of Kentucky ON-FARM NO-TILL WHEAT RESEARCH, AND ITS EFFECT ON THE SOIL AND ROTATIONAL CROPS

L. Murdock, J. Grove and D. Call - University of Kentucky Dept of Agronomy John Hagen and Phillip Needham – Opti-Crop, Owenboro, Kentucky Scott Van Sickle - Wheat Tech, Russellville, Kentucky













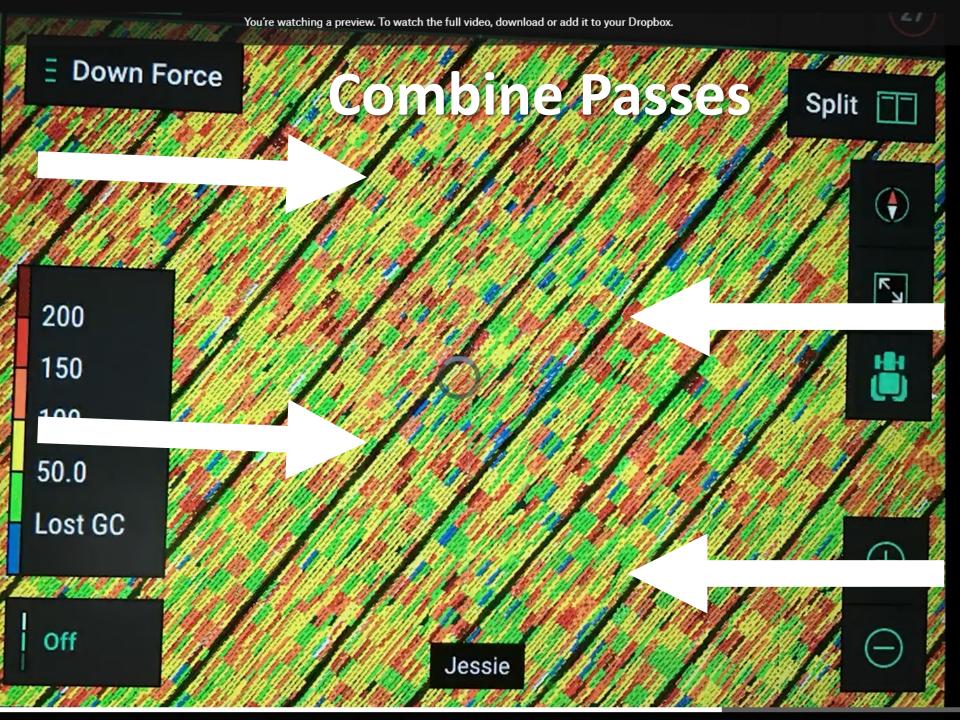






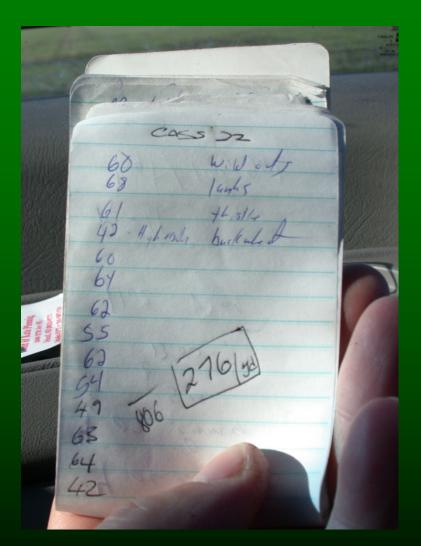
















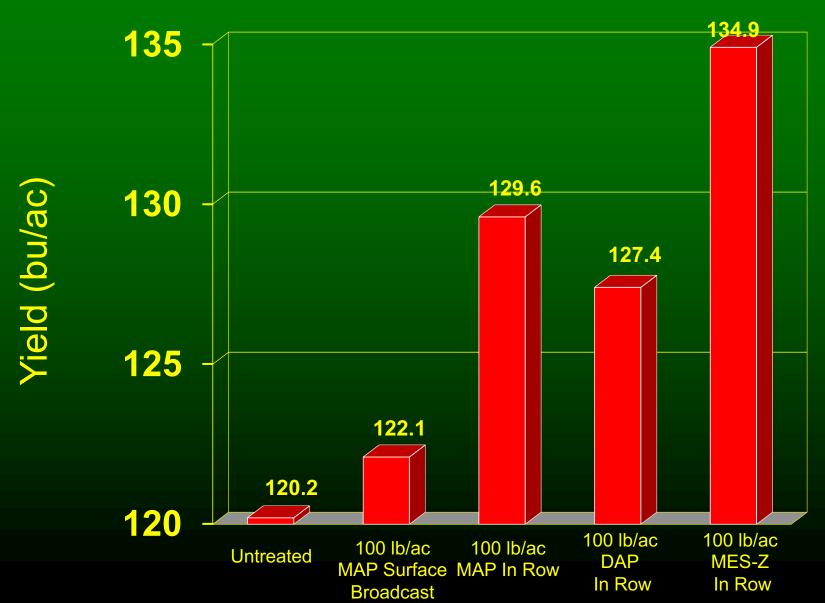






#### Effect of In-Row P With No-Till 7.5" Wheat

Needham Ag Technologies. NT Wheat After 200 bu/ac corn Location: Calhoun, KY - Harvest 2015 (Average of 2 replications). Soil Test P=69 lb/ac, S=49 lb/ac and Z 2.8 lb/ac (Mehlich 3 analysis)













# Dry Nitrogen Application Methods?



Liquid Nitrogen
Application
Methods?

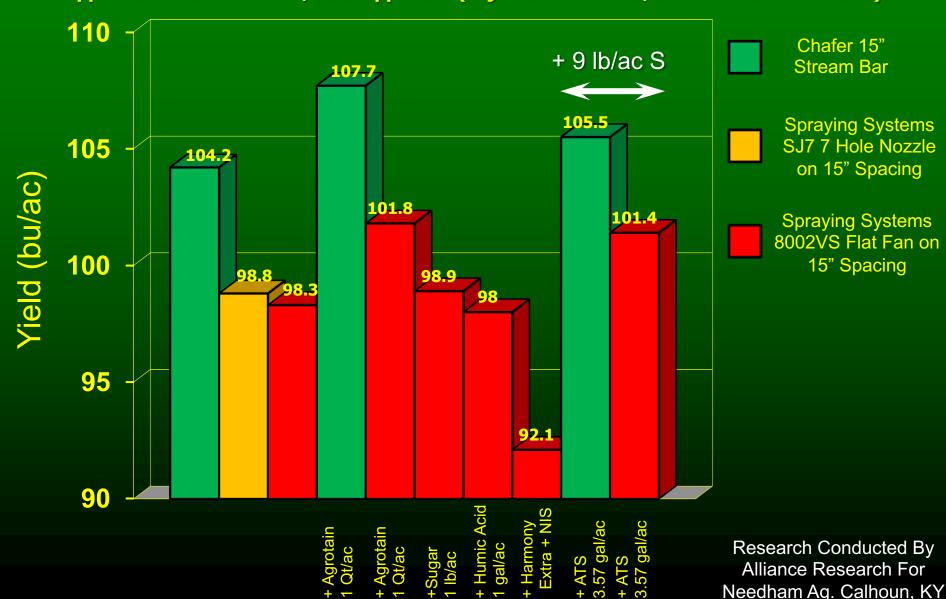


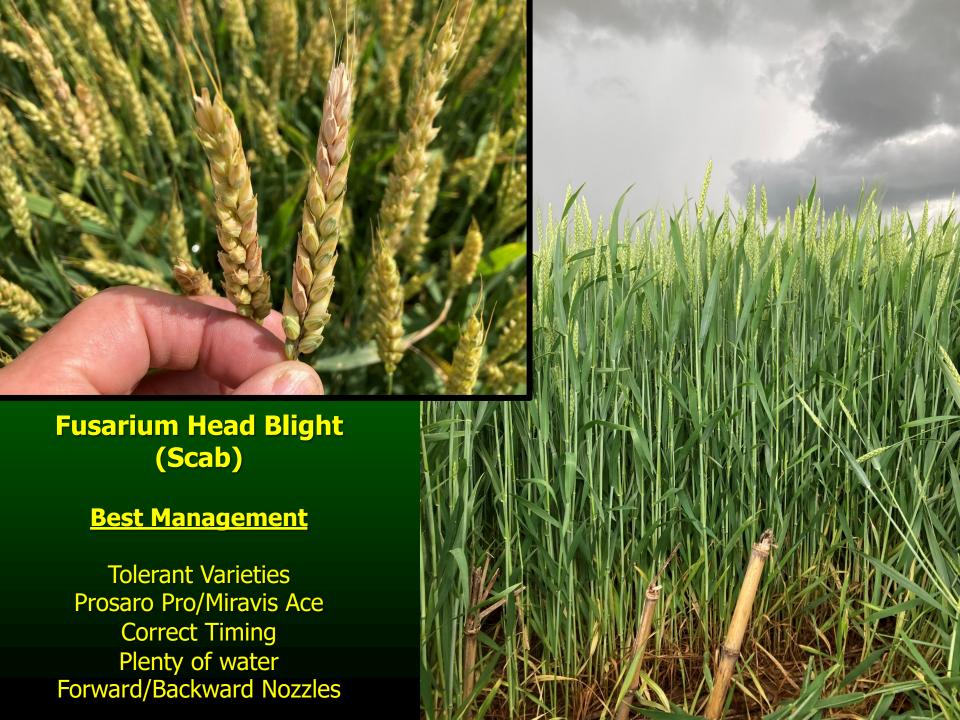




### Wheat – Spring Nitrogen Application Methods

Growth Stage Feekes 6/Z31 Application. <u>3 Year Average Yields (From 2015-2017 replicated trials)</u>
Application Rate - 66.6 lb/ac of applied N (adjusted to 66.6 lb/ac with ATS treatments)









Phil Needham

Needham Ag Technologies, LLC





















