Comparison of Variety, N fertility, and Housing Density for Dark-Fired Tobacco 2008 – UKREC, Princeton, KY

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Comparison of Dark-Fired Tobacco Variety, Nitrogen Rate, and Housing Density 2008 – UKREC, Princeton, KY

- Varieties: Narrowleaf Madole LC or KT D4LC
- N fertility: 200, 300, or 400 total lbs N/A
- Housing density: 6" or 12" stick spacing
- Experimental design: RCBD with 4 replications
 - Treatments design: split split-plot with variety (main plot), N fertility (sub plot), housing density (sub-sub plot)

Main Effects of Variety, N Rate, and Housing Density on Dark-Fired Yield*

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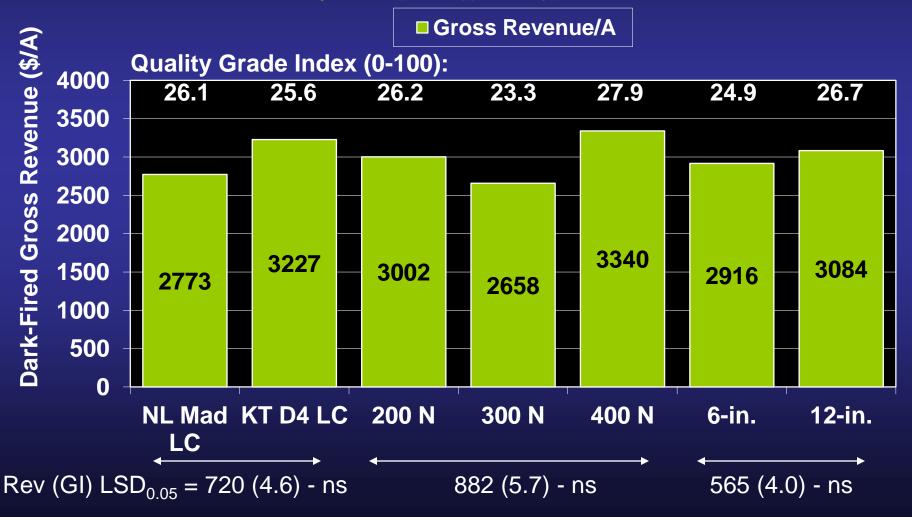
*Main effects of variety, N rate, and stick spacing (variety data averaged over N rate and stick spacing, N rate data average over variety and stick spacing, stick spacing data averaged over variety and N rate).



Main Effects of Variety, N Rate, and Housing Density on Dark-Fired Quality Grade Index and Gross Revenue*

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*Main effects of variety, N rate, and stick spacing (variety data averaged over N rate and stick spacing, N rate data average over variety and Stick spacing, stick spacing data averaged over variety and N rate). Grade Index and gross revenue based on 2004 grade and price support for Type 22 Eastern Dark-Fired tobacco.

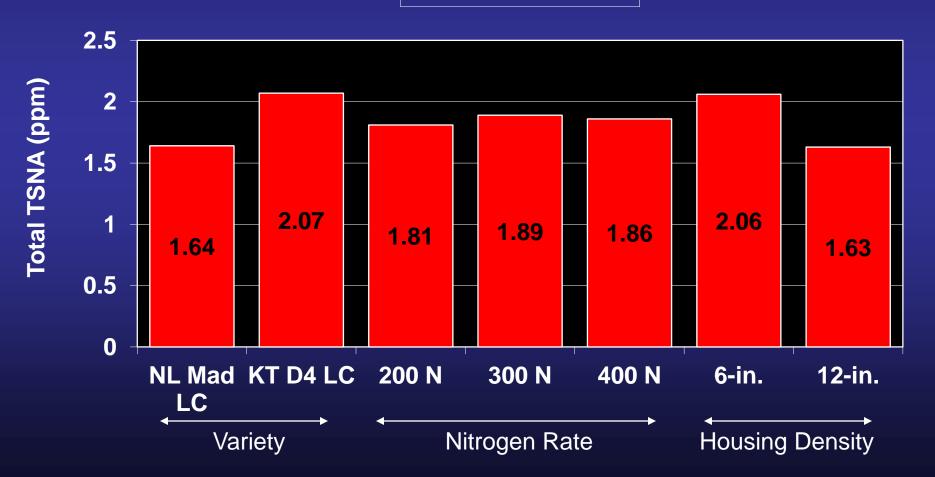


Main Effects of Variety, N Rate, and Housing Density on Total TSNA

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*Main effects of variety, N rate, and stick spacing (variety data averaged over N rate and stick spacing, N rate data average over variety and stick spacing, stick spacing data averaged over variety and N rate).

■ Total TSNA (ppm)



Effect of Variety, N Rate, and Housing Density on Dark-Fired Yield and Quality 2008 – UKREC, Princeton, KY

Trial Summary:

- KT D4 yielded 535 lbs/A more than NL Madole when averaged over N rates and housing densities.
- Although there is potential for decreased quality with KT D4 compared to NL Madole, excessive nitrogen (>300 lbs N/A), and close sticks spacing (6-inches), there were no significant differences in quality or TSNA levels between varieties, nitrogen rates, or housing densities in this trial.
- Dry curing seasons in 2007 and 2008.