

**2011**

**Effect of N Sidedressing and  
Application Timing in Dark-Fired Tobacco**

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# Effect of N Sidedressing and Application Timing in Dark-Fired Tobacco

2011 – UKREC, Princeton, KY

- Objective: Determine effect of N sidedressing and timing on yield, quality, and post-cure TSNA in dark-fired tobacco.
- Trial specifications:
  - Randomized complete block with 4 replications
  - PD 7309LC transplanted June 1
  - Phosphate and potassium applied pretransplant according to soil test (0 P<sub>2</sub>O<sub>5</sub>/A; 0 lbs K<sub>2</sub>O/A)
  - Heavy April/May rainfall, hot but good moisture for remainder of season

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## 2011 – UKREC, Princeton, KY - Treatments

Trt	Treatment
1	300 lbs N/A pretransplant incorporated from urea (46-0-0)
2	150 lbs N/A pretransplant incorporated from urea 150 lbs N/A sidedress with liquid UAN-28 at 3 wks after transplanting
3	100 lbs N/A pretransplant incorporated from urea 100 lbs N/A sidedress with UAN-28 at 3 wks 100 lbs N/A sidedress with UAN-28 at 6 wks
4	250 lbs N/A pretransplant incorporated from urea 50 lbs N/A sidedress with ammonium nitrate (33.5-0-0) at 3 wks

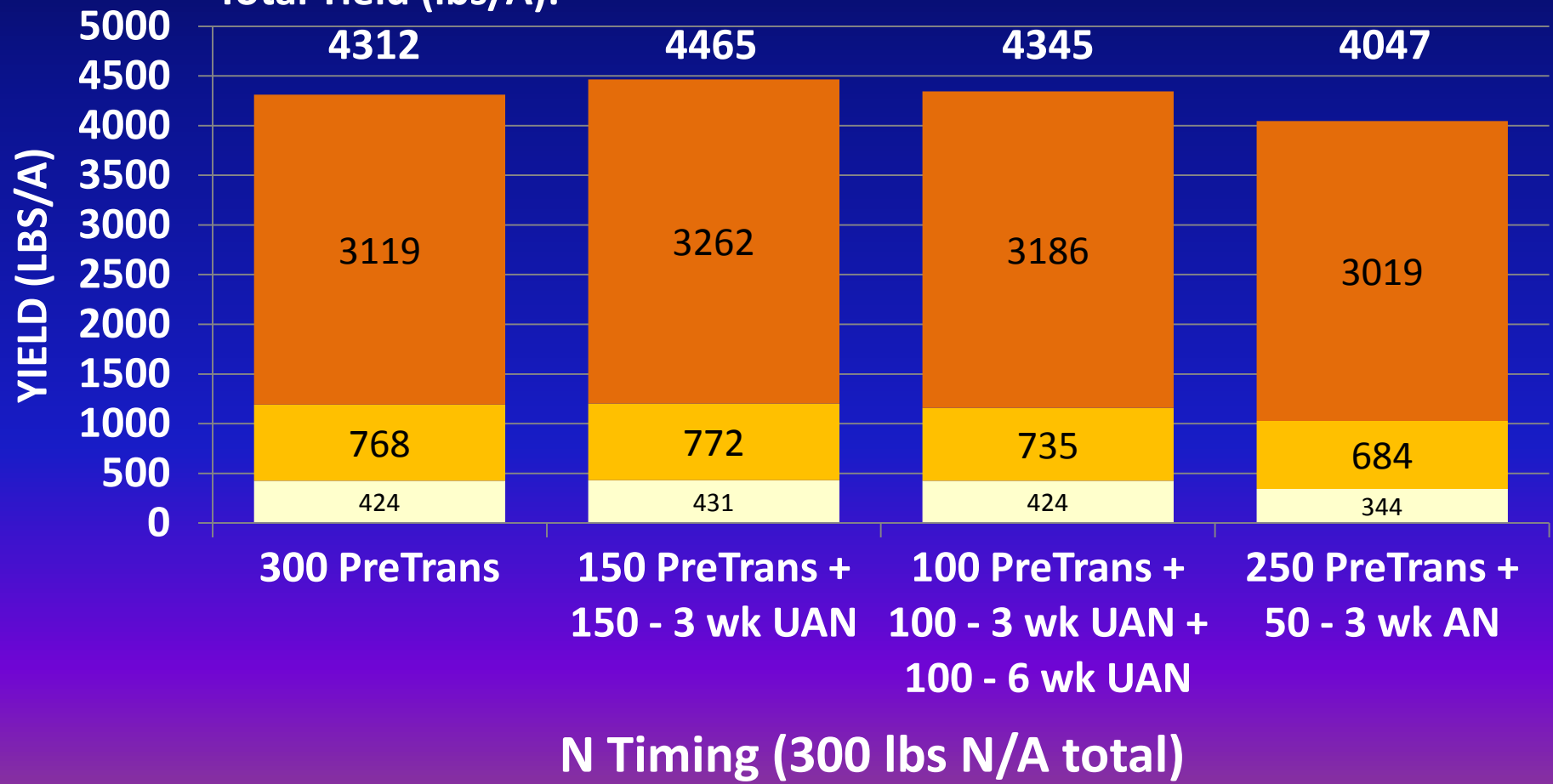
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## 2011 – UKREC, Princeton, KY - Yields

LSD (0.10) =      85      94      447      518 (total)

■ Lug   ■ Second   ■ Leaf

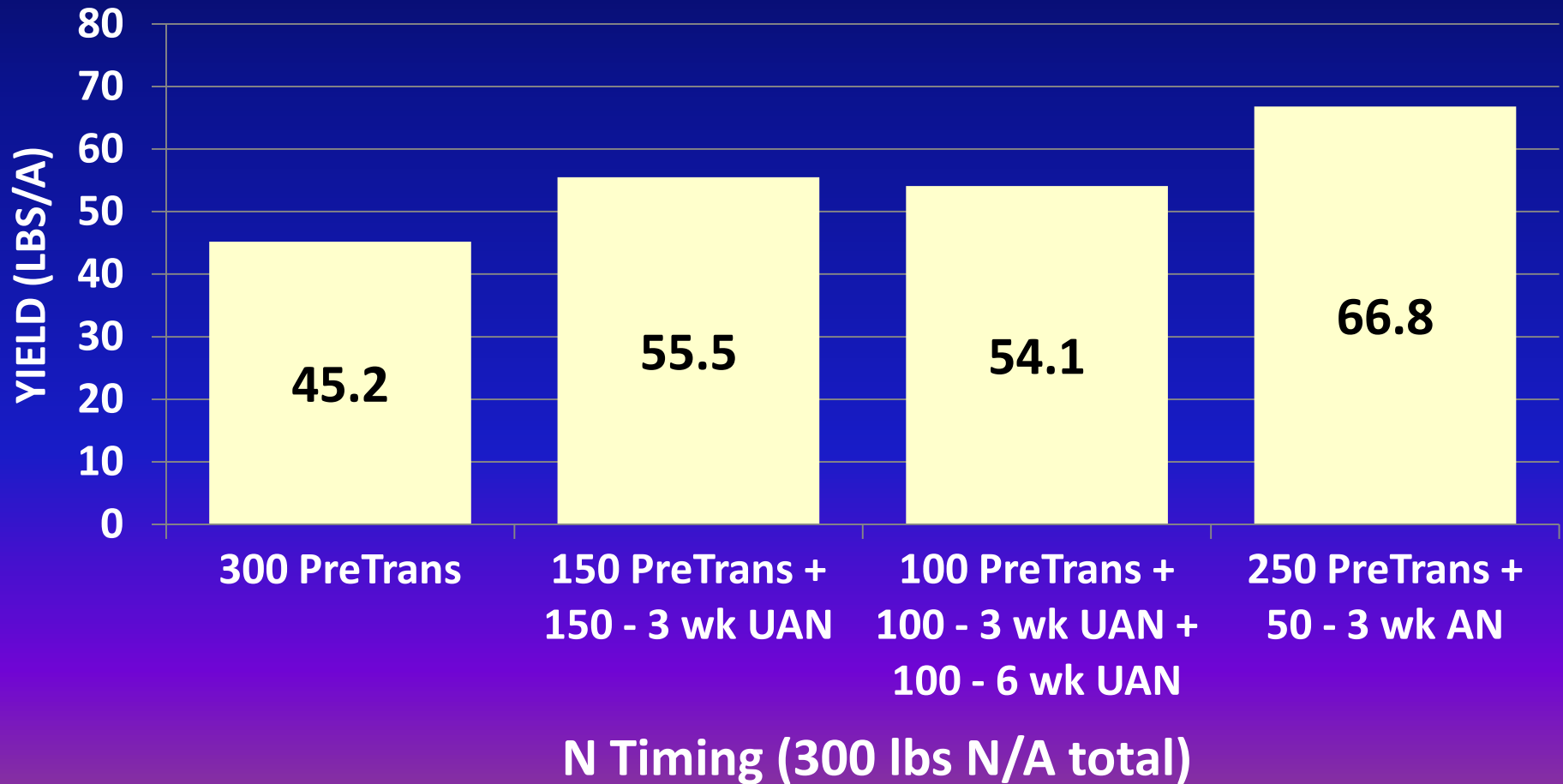
**Total Yield (lbs/A):**



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2011 – UKREC, Princeton, KY – Quality Grade Index

LSD (0.10) = 11.5  
■ Quality Grade Index



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2011 – UKREC, Princeton, KY – Total TSNA (dry and wet wt. basis)

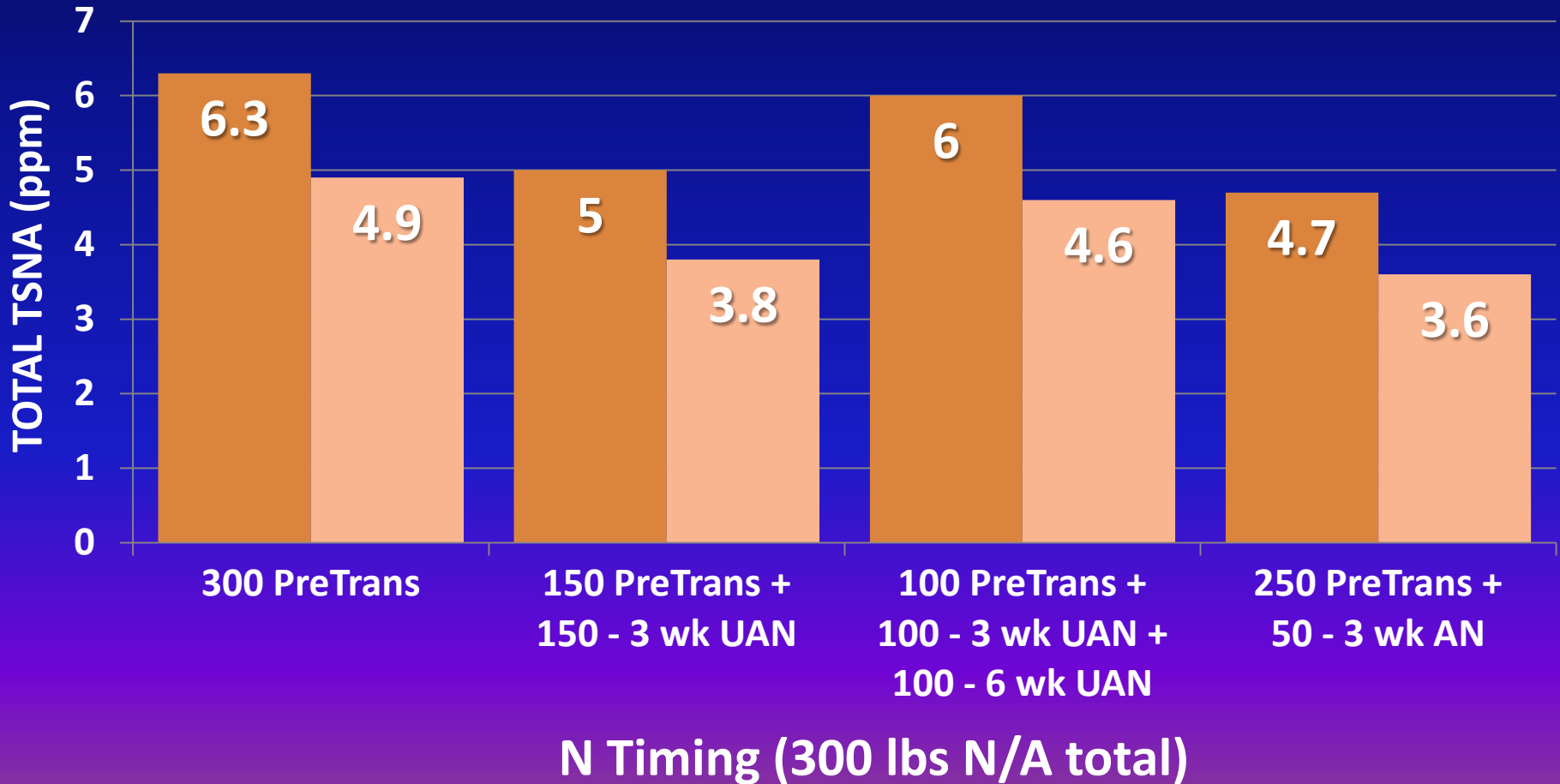
LSD (0.10) =

2.5

1.9

■ Total TSNA (dry wt. basis)

■ Total TSNA (wet wt. basis)



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## Application Timing in Dark-Fired Tobacco

2011 – UKREC, Princeton, KY – Nitrite ( $\text{NO}_2$ , dry and wet wt. basis)

LSD (0.10) =

5.4

3.5

■ Nitrite (dry wt. basis)

■ Nitrite (wet wt. basis)

