

# Evaluation of Dark Tobacco Varieties under Black Shank Pressure

Christian Co. – Kent Boyd Farm – Hopkinsville, KY - 2009

Variety	Race 0	Race 1
NL Madole LC	None	None
TN D950	Low-Med	Low-Med
KT D4LC	Medium	Medium
DT 538LC	Medium	Medium
PD 7302LC	High	None
PD 7305LC	High	Low-Med
D 2602	High	Medium
PD 7319	High	Low-Med

- Trial set June 30
  - 42” rows, 32” plant spacing
  - 4667 plants/A
- GPS coordinates used to put trial in exact same location as 2008 experiment
- Plant mortality evaluated throughout season
  - 3, 6, and 11 wks after setting
  - Preharvest (16 wks)
- Yield data calculated using preharvest stand counts
  - Harvested October 19
  - Stripped December 22

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Variety (R0/R1)	% Stand 3 wks	% Stand 6 wks	% Stand 11 wks	% Stand 16 wks	%Stand in 2008*
NL Madole LC (0/0)	90.5	36.6	0.4	<b>0.4</b>	<b>24.6</b>
TN D950 (L-M/L-M)	99.6	91.6	70.6	<b>53.2</b>	
KT D4LC (M/M)	99.1	99.1	88.9	<b>87.1</b>	<b>86.4</b>
DT 538LC (M/M)	100.0	96.9	91.6	<b>82.3</b>	<b>91.9</b>
PD 7302LC (H/0)	95.2	33.1	27.1	<b>21.8</b>	<b>93.8</b>
PD 7305LC (H/L-M)	98.8	96.3	85.4	<b>72.0</b>	<b>96.3</b>
D 2602 (H/M)	100.0	98.7	97.4	<b>94.4</b>	<b>93.8</b>
PD 319H (H/L-M)	99.6	91.2	39.0	<b>31.0</b>	
LSD <sub>0.05</sub>	7.1	23.6	27.6	<b>27.7</b>	

\*Only 6 of the 8 varieties were also evaluated in 2008.

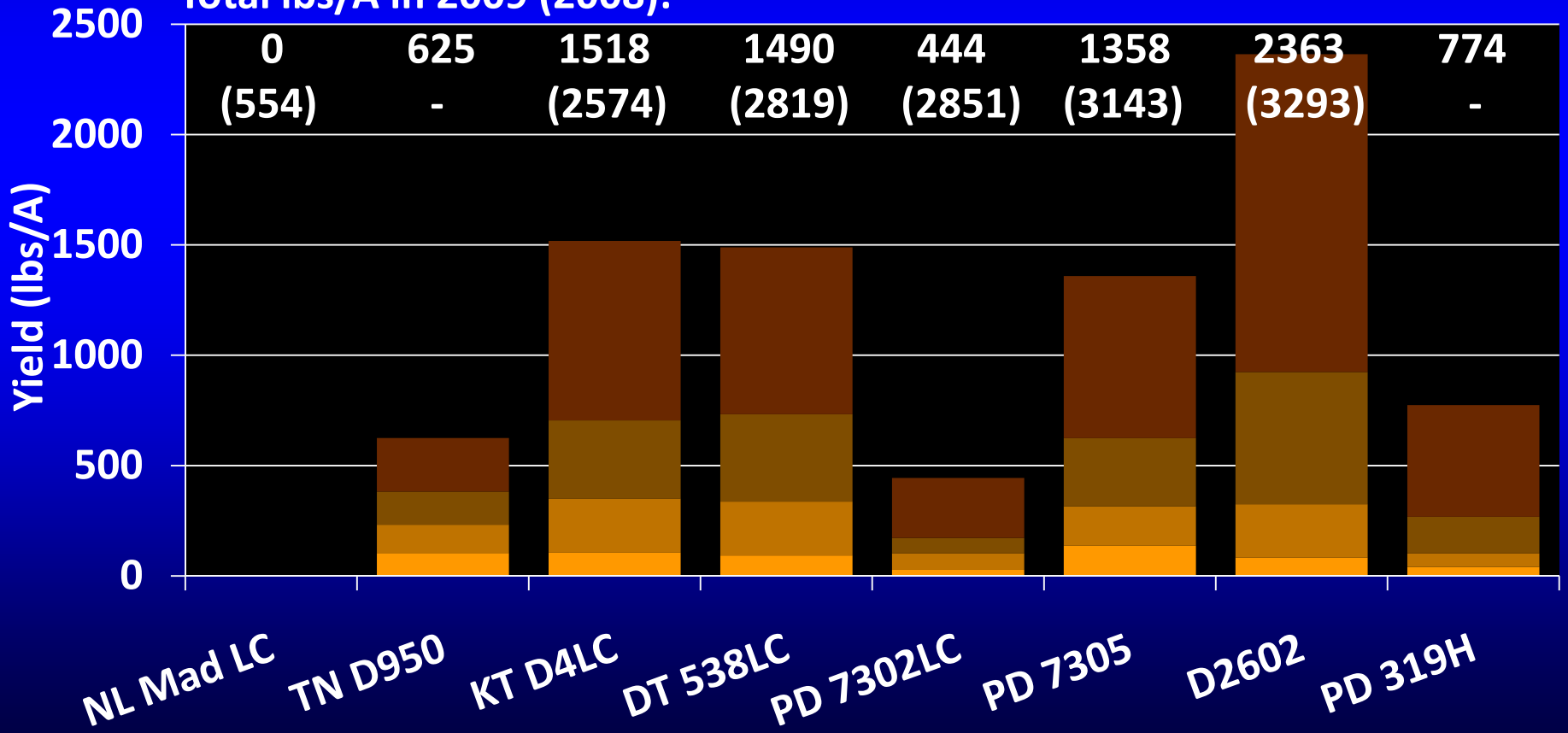
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## Yield Data

LSD<sub>0.05</sub> = 70 88 175 498 748 (total)  
■ Trash ■ Lug ■ Second ■ Leaf

Total lbs/A in 2009 (2008):



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## Data Summary

- Based on stand counts and yields compared to 2008, levels of race 1 black shank increased dramatically in 2009.
  - PD 7302LC (race indicator variety): final stand and total yield
    - 93.8% and 2851 lb/A in 2008; 21.8% and 444 lb/A in 2009
  - Lower yields on all 6 varieties that were tested in both years
    - Average total yield was 2539 lb/A in 2008; 1196 lb/A in 2009 (down 53%)
- Good fire-cured quality on all varieties tested
  - No obvious quality problems in any variety