Evaluation of Dark Tobacco Varieties under Black Shank Pressure

Christian Co. – Kent Boyd Farm – Hopkinsville, KY - 2008

- Trial set June 11
  - 42” rows, 30” plant spacing
  - 4978 plants/A
- Predominantly Race 0 black shank
- Plant mortality evaluated throughout season
  - 2, 4, 6, 9 wks after setting
  - Preharvest
- Yield data collected using preharvest stand counts
- Fire-cured
  - 2 fires over 22 days

- 8 varieties tested
- Randomized complete block design with 4 replications
- 2-row plots, 80 ft. long
- Varieties:
  - Narrowleaf Madole LC
  - DT 538LC
  - KT D4LC
  - KT D6LC
  - PD 7302LC
  - PD 7318LC
  - D2602 (experimental)
  - PD 305H (experimental)

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Variety Tested	Black Shank Resistance	
	Race 0	Race 1
Narrowleaf Madole LC	None	None
DT 538LC	Medium	Medium
KT D4LC	Medium	Medium
KT D6LC	Medium	Medium
PD 7302LC	High	None
PD 7318LC	High	None
D2602 (experimental)	High	Medium
PD 305H (experimental)	High	Medium

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Variety	% Stand 2 wks after setting	% Stand 4 wks after setting	% Stand 6 wks after setting	% Stand 9 wks after setting	% Stand at harvest	Total Yield (lbs/A)
NL Mad LC	95.6	94.5	57.4	24.6	18.8	554
DT 538LC	93.8	93.8	92.7	91.9	85.3	2819
KT D4LC	92.7	92.7	92.7	86.4	77.9	2574
KT D6LC	97.1	96.3	94.5	81.3	66.9	2287
PD 7302LC	96.0	96.0	95.6	93.8	89.3	2851
PD 7318LC	94.5	94.5	91.2	85.3	79.8	2415
D2602	94.1	94.1	94.1	93.8	93.4	3293
PD 305H	97.1	97.1	97.1	96.3	95.6	3143
$LSD_{0.05}$	4.6	4.3	15.3	23.7	24.7	962

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Summary/Conclusions

- Black shank pressure was moderate and was predominantly race 0.
- Varieties highly resistant to race 0 (PD 7302LC and PD 7318LC) had relatively good survival of 80 to 89%.
- Experimental varieties D2602 and PD 305H had highest survival (93 to 96%) and highest yield (3293 and 3143 lbs/A).