

Evaluation of Dark Tobacco Varieties under Black Shank Pressure

Graves Co. – Ray Allen Williams Farm – Sedalia, KY - 2008

- Trial set June 9
 - 40” rows, 32” plant spacing
 - 4900 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
- 8 varieties tested
- Randomized complete block design with 4 replications
- 2-row plots, 80 ft. long
- Varieties:
 - Narrowleaf Madole LC
 - TN D950
 - DT 534
 - DT 538LC
 - KT D6LC
 - PD 7318LC
 - D2602 (experimental)
 - PD 305H (experimental)

Evaluation of Dark Tobacco Varieties Under Black Shank Pressure

Graves Co. – Ray Allen Williams Farm – Sedalia, KY - 2008

Variety Tested	Black Shank Resistance	
	Race 0	Race 1
Narrowleaf Madole LC	None	None
TN D950	Medium	Medium
DT 534	Medium	Medium
DT 538LC	Medium	Medium
KT D6LC	Medium	Medium
PD 7318LC	High	None
D2602 (experimental)	High	Medium
PD 305H (experimental)	High	Medium

Evaluation of Dark Tobacco Varieties Under Black Shank Pressure

Graves Co. – Ray Allen Williams Farm – Sedalia, KY - 2008

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	95.9	94.2	58.2	22.7	20.0	624
TN D950	97.8	97.8	86.9	68.4	60.6	2337
DT 534	98.2	98.2	83.4	70.1	63.0	2533
DT 538LC	91.7	91.7	87.2	81.6	81.6	3086
KT D6LC	98.5	98.5	92.4	82.8	78.6	3196
PD 7318LC	98.8	97.6	97.2	94.5	93.0	3409
D2602	97.4	96.7	96.7	95.4	95.4	3638
PD 305H	98.9	98.9	98.9	98.9	98.5	3588
LSD _{0.05}	3.6	4.3	26.2	27.8	32.1	1250

Evaluation of Dark Tobacco Varieties Under Black Shank Pressure

Graves Co. – Ray Allen Williams Farm – Sedalia, KY – 2008

Summary/Conclusions

- Black shank pressure was moderate and was predominantly race 0.
- PD 7318LC (highly resistant to race 0) had good survival of 93% and yielded 3409 lbs/A.
- Experimental varieties D2602 and PD 305H had highest survival (95 and 99%) and highest yield (3638 and 3588 lbs/A).