

Evaluation of Dark Tobacco Varieties under Intensive Black Shank Pressure

Daviess Co. - Tony and Joe Fischer Farm – Owensboro, KY - 2008

- 2 quarts/A Ultra Flourish applied PreTr Inc. to entire trial area.
- Trial set June 4
- Plant mortality evaluated throughout the season
 - 2, 4, 6, 9 weeks after setting
 - Preharvest
- Trial harvested September 9
 - Air-cured
- Stripped November 13
- 9 varieties tested
- Randomized complete block with 4 replications
- 2-row plots, 60 ft. long
- Varieties:
 - Narrowleaf Madole LC
 - VA 359
 - KT D6
 - KT D8
 - PD 7302LC
 - PD 7309 LC
 - PD 7318LC
 - PD 305H (experimental)
 - D2602 (experimental)

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Black Shank Resistance Levels of Varieties Tested

Variety Tested	Black Shank Resistance	
	Race 0	Race 1
Narrowleaf Madole LC	None	None
VA 359	Low	Low
KT D6LC	Medium	Medium
KT D8LC	Medium	Medium
PD 7302LC	High	None
PD 7309LC	High	None
PD 7318LC	High	None
PD 305H (experimental)	High	Medium
D2602 (experimental)	High	Medium

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Stand Counts throughout the season and final yield/A

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	93.8	93.3	15.6	3.1	0.40	13
VA 359	97.8	95.5	12.9	4.9	1.8	95
KT D6LC	96.0	96.0	88.4	58.0	39.7	1770
KT D8LC	95.1	95.1	94.6	71.0	46.0	1717
PD 7302LC	94.2	91.1	0.40	0.0	0.0	0
PD 7309LC	98.7	96.9	16.1	5.8	2.2	82
PD 7318LC	94.6	91.1	1.3	0.0	0.0	0
PD 305H	95.5	95.1	87.5	48.2	36.2	1292
D2602	95.1	95.1	92.0	73.2	56.3	2126
LSD _{0.05}	5.6	5.9	11.6	24.1	22.6	993

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Summary/Conclusions

- Black shank presence in the experiment was heavy and included high levels of both race 0 and race 1 black shank
- Highest survival was with varieties that had medium resistance to both races (KT D6LC, KT D8LC) or experimental varieties with high resistance to race 0 and medium resistance to race 1. Near total loss with varieties that only had race 0 resistance (PD7302LC, PD 7309LC, PD7318LC).