

# Evaluation of Experimental Fungicides for Black Shank Control in Dark Tobacco

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

- KT D6LC transplanted June 9
  - 40” row spacing, 32” plant spacing
  - 4900 plants/A
- Fungicide treatments applied pretransplant incorporated and post-transplant.
- Pretransplant applications made broadcast at 15 gal/A 6 hrs prior to transplanting, incorporated immediately with field cultivator.
- Post-transplant applications made as banded applications (15” bands to both sides of rows) at first cultivation (2 wks after transplanting) and at layby (4 wks after transplanting).
- Randomized complete block with 4 replications
- Plots 4-rows, 40 ft. long
- All treatments applied 3 times (pretransplant, 1<sup>st</sup> cultivation, layby)
- Treatments
  - Untreated check
  - Experimental (13 oz/A)
  - Experimental (52 oz/A)
  - Ridomil Gold SL (1 pt/A)

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## Treatments

Treatment	Rate/A	Applications
Untreated Check	0	-
Experimental (1x rate)	13 oz/A	PTI + 1 <sup>st</sup> cult. + Layby
Experimental (4x rate)	52 oz/A	PTI + 1 <sup>st</sup> cult. + Layby
Ridomil Gold SL	1 pt/A (16 oz/A)	PTI + 1 <sup>st</sup> cult. + Layby

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## Stand Counts and Total Yield/A

Treatment	% Stand 2 wks after setting	% Stand 4 wks after setting	% Stand 9 wks after setting	% Stand at Harvest	Total Yield (lbs/A)
Untreated Check	96.6	96.6	79.6	75.1	3229
Experimental (13 oz/A), 3 app.	99.6	99.3	88.8	86.7	3612
Experimental (52 oz/A), 3 app.	99.2	98.5	95.9	93.6	3856
Ridomil Gold SL (16 oz/A), 3 app.	98.1	98.1	98.1	97.7	4116
LSD <sub>0.05</sub>	2.9	3.0	12.3	13.4	527

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## Summary/Conclusions

- Experimental fungicide showed some activity against black shank at highest rate tested (52 oz/A).
- Even 3 applications of highest rate of experimental was not as effective as 3 applications of 1 pt/A Ridomil Gold SL.