

Sucker Control with MH-Free Treatments and Conveyor Hoods in Dark Tobacco

2011 – HRREC, Springfield, TN

- Objective: evaluate sucker control in dark-fired tobacco from sequential non-MH treatments applied with standard sprays and conveyor hoods.
- PD 7318LC set June 14, 4614 plants/acre
- RCBD with 4 replications
- Plots 4-rows, 40 ft. long
- All rows treated, data collected from center 2 rows
- Tobacco harvested October 15, fire-cured

Conveyor Spray Hoods

- Funnel device that fits over standard 3-nozzle system to concentrate spray closer to stalk.
- Potential advantages:
 - Better coverage on leaf axils on stalk
 - Less leaf exposure could mean less residues
- Potential disadvantage:
 - Narrower treated width, straight tobacco more critical



2011 Dark Tobacco Sucker Control Trial

HRREC, Springfield, TN - Treatments

| Trt | Treatment | Rate (gal/A) | Application Method | Timing |
|-----|---|---|------------------------|---|
| 1 | OST fb OST fb OST+Flupro fb OST+Flupro | 2 gal fb 2 gal fb 2 gal+0.5 gal fb 2 gal+0.5 gal | Standard 3-nozzle | 1 wk pretop fb top fb 1 wk post top fb 2 wk post top |
| 2 | OST fb OST fb OST+Flupro fb OST+Flupro | 2 gal fb 2 gal fb 2 gal+0.5 gal fb 2 gal+0.5 gal | Standard with conveyor | 1 wk pretop fb top fb 1 wk post top fb 2 wk post top |
| 3 | 2 OST | 2 gal | Conveyor | 1 wk pretop fb 1 st topping |
| 4 | OST fb OST fb OST+Butralin fb OST+Butralin | 2 gal fb 2 gal fb 2 gal+0.5 gal fb 2 gal+0.5 gal | Standard 3-nozzle | 1 wk pretop fb top fb 1 wk post top fb 2 wk post top |
| 5 | OST fb OST fb OST+Butralin fb OST+Butralin | 2 gal fb 2 gal fb 2 gal+0.5 gal fb 2 gal+0.5 gal | Standard with conveyor | 1 wk pretop fb top fb 1 wk post top fb 2 wk post top |

*First topping August 15, last topping August 23

First Off-shoot T (OST) application made August 11

Second OST application August 15

Sequential OST+Flupro and OST+Butralin applications made August 24 and August 30

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HRREC, Springfield, TN – Sucker Control Data

| Trt | Treatment | Application Method | Sucker Control (1-5 scale, 1=Best; 5=worst) | # Axillary Suckers per 10 plants | # Ground Suckers per 10 plants | # Total Suckers per 10 plants |
|-----|---|------------------------------|---|----------------------------------|--------------------------------|-------------------------------|
| 1 | OST fb OST fb OST+Flupro fb OST+Flupro | Standard 3- nozzle | 2.75 bc | 2.75 c | 14.25 c | 17.0 c |
| 2 | OST fb OST fb OST+Flupro fb OST+Flupro | Standard with conveyor | 2.50 cd | 2.25 c | 17.25 bc | 19.5 c |
| 3 | 2 OST | Conveyor | 4.50 a | 33.0 a | 20.5 ab | 53.5 a |
| 4 | OST fb OST fb OST+Butralin fb OST+Butralin | Standard with conveyor | 1.25 d | 3.0 c | 16.75 bc | 19.75 c |
| 5 | OST fb OST fb OST+Butralin fb OST+Butralin | Standard 3- nozzle | 4.00 ab | 14.75 b | 24.25 a | 39.0 b |

2011 Dark Tobacco Sucker Control Trial

HRREC, Springfield, TN – Dark-Fired Yield and Quality Grade Index

| Trt | Treatment | Application Method | Total Dark-Fired Yield (lbs/A) | Dark-Fired Quality Grade Index (0-100) |
|-----|---|------------------------|--------------------------------|--|
| 1 | OST fb OST fb OST+Flupro fb OST+Flupro | Standard 3-nozzle | 3398 a | 51.9 a |
| 2 | OST fb OST fb OST+Flupro fb OST+Flupro | Standard with conveyor | 3533 a | 55.5 a |
| 3 | 2 OST | Conveyor | 2935 b | 58.4 a |
| 4 | OST fb OST fb OST+Butralin fb OST+Butralin | Standard with conveyor | 3360 a | 58.1 a |
| 5 | OST fb OST fb OST+Butralin fb OST+Butralin | Standard 3-nozzle | 2929 b | 57.1 a |