Andy Bailey
Univ. of KY / Univ. of TN
Princeton, KY

2007 Sucker Control Trials

• Disclaimer:

– The 2007 production season in west KY/TN was extremely dry and sucker growth and vigor was minimal. As a result, sucker control levels achieved from treatments applied in 2007 are higher than would be expected in years where average rainfall occurred.

- Experimental design: RCBD with 4 replications
- Plots 4 rows, 40 ft. long (60 plants/plot)
- Treatments applied to all 4 rows, data collected from center 2 rows of plots.
- Variety: Narrowleaf Madole LC transplanted May 21.
 - 40" row spacing, 32" plant spacing (4900 plants/A)
- All applications made with 3-nozzle/row system
 - 2-row boom, all TG5 nozzles, 55 gal/A
- Data collected: crop vigor, % sucker control, sucker weight/plot, fire-cured yield, grade index, revenue.

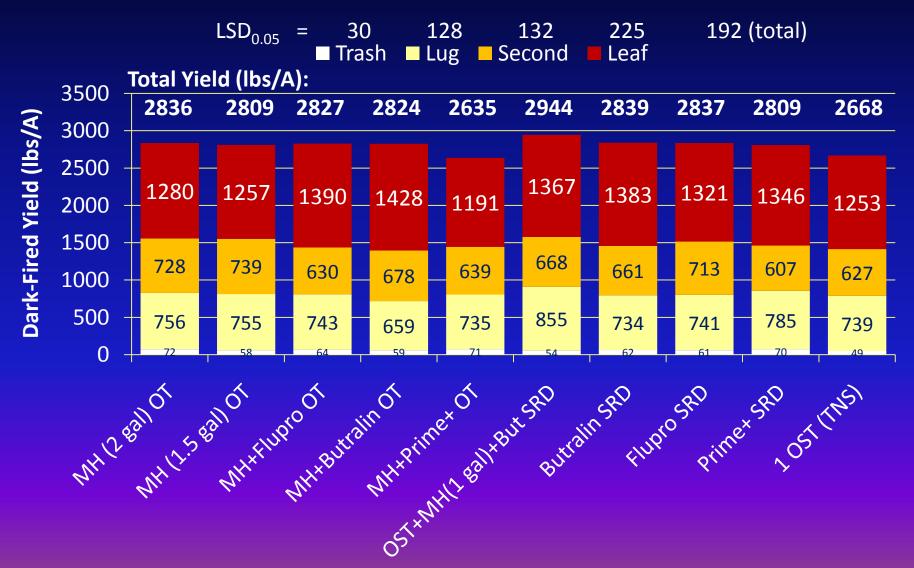
Treatment	Application Rate (gal/A)	Application Timing	Application Method
OST fb OST fb MH	2 gal fb 2 gal fb 2 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	ОТ
OST fb OST fb MH	2 gal fb 2 gal fb 1.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	ОТ
OST fb OST fb MH+Flupro	2 gal fb 2 gal fb 1.5 gal + 0.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	ОТ
OST fb OST fb MH+Butralin	2 gal fb 2 gal fb 1.5 + 0.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	ОТ
OST fb OST fb MH+Prime+	2 gal fb 2 gal fb 1.5 + 0.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	ОТ
OST fb OST+MH+Butralin	2 gal fb 1 gal fb 1.5 + 0.5 gal	1st top fb 2nd top	SRD
OST fb OST fb Butralin	2 gal fb 2 gal fb 0.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	SRD
OST fb OST fb Flupro	2 gal fb 2 gal fb 0.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	SRD
OST fb OST fb Prime+	2 gal fb 2 gal fb 0.5 gal	1 st top fb 2 nd top fb 7 days after 2 nd top	SRD
1 OST (Topped not suckered)	2 gal	1 st topping	SRD

^{*}OST = Off Shoot-T; MH = Royal MH-30; OT = over-the-top application (3 TG5s/row, 55 gal/A); SRD=manual stalk rundown.

Preharvest Rating and Sucker Biomass – August 28 (5 wks after topping)

Treatment	Tobacco Vigor (1-10, 10 best)	% Sucker Control (0-100%)	Sucker Wt/10 plants (lbs)	Sucker Wt/A (lbs)
2 OST fb MH (2 gal) OT	8.00 b	93 ab	1.14 ab	557.4 ab
2 OST fb MH (1.5 gal) OT	8.44 a	87 c	1.34 ab	655.4 ab
2 OST fb MH+Flupro OT	8.06 b	92 ab	0.34 b	166.6 b
2 OST fb MH+Butralin OT	8.25 ab	91 bc	1.14 ab	557.4 ab
2 OST fb MH+Prime+ OT	7.94 b	93 ab	1.80 a	882.0 a
1 OST fb OST+MH(1 gal)+Butralin SRD	8.13 ab	92 ab	1.13 ab	552.5 ab
2 OST fb Butralin SRD	8.13 ab	96 a	0.90 ab	442.2 ab
2 OST fb Flupro SRD	8.25 ab	93 ab	1.33 ab	652.3 ab
2 OST fb Prime+ SRD	8.06 b	94 ab	0.54 b	266.4 b
1 OST (Topped not suckered check)	8.44 a	60 d	1.96 a	961.6 a
LSD _{0.05}	0.35	4.7	1.22	600

Dark-Fired Tobacco Yield



2007 Regional Dark Tobacco Sucker Control Trial

UKREC, Princeton, KY

Dark-Fired Quality Grade Index and Gross Revenue (\$/A)*

*Based on 2004 USDA Grade and Price Support for Type 22 Eastern Dark-Fired Tobacco.

