

2006 MH-Free Sucker Control Trial for Burley Tobacco

Andy Bailey

Dark Tobacco Extension Specialist

Univ. of KY / Univ. of TN

UKREC, Princeton, KY

Methods

- 'TN 90' burley tobacco set May 24, 2006
 - 40" row spacing, 32" plant spacing (4900 plants/A)
- Plots 4-rows, 40 ft. long
- RCBD with 4 replications
- Tobacco topped July 25, 2006

Treatments

Trt	Treatment	Rate/A	Timing	Method
1	Royal TacM fb Royal TacM fb Butralin	2 gal / 2 gal / 1 gal	AT / 7 d / 14 d	OT
2	Butralin fb Butralin	1 gal / 1 gal	AT / 14 d	SRD
3	Butralin fb Butralin (50 GPA)	1 gal / 1 gal	AT / 14 d	OT
4	Butralin fb Butralin (55 GPA)	1 gal / 1 gal	AT / 14 d	OT
5	Butralin fb Butralin (60 GPA)	1 gal / 1 gal	AT / 14 d	OT
6	Royal TacM fb Butralin	2 gal / 1 gal	AT / 7 d	OT
7	Royal TacM fb Royal TacM + Butralin	2 gal / 2 gal + 1 gal	AT / 7 d	OT
8	Royal TacM fb Royal MH-30	2 gal / 1.5 gal	AT / 7 d	OT
9	Check (topped not suckered)	0	-	-

*AT=at topping; OT=over-the-top; SRD=stalk rundown. Timing is days after topping.

Applications

- Over-the-top (OT) applications in Trts 1, 6, 7, and 8 made with 3-nozzle/row system (all TG5's) at 55 gal/A.
 - 2 row boom covering 2 rows/pass
- OT applications for Butralin Trts 3, 4, and 5 made with “straight boom” with alternating nozzles on 20” spacing.
 - 4-nozzle, 2 row boom covering 2 rows/pass
 - Nozzles placed directly over row and row middle
 - Trt 3: TG3-TG4-TG3 (50 gal/A)
 - Trt 4: TG5-TG5-TG5 (55 gal/A)
 - Trt 5: TG5-TG6-TG5 (60 gal/A)
- Stalk rundown (SRD) applications (Trt 2) made with single TG-5 nozzle with backpack sprayer applying 0.75 oz of spray solution per plant.

Pre-Harvest Sucker Control Evaluation

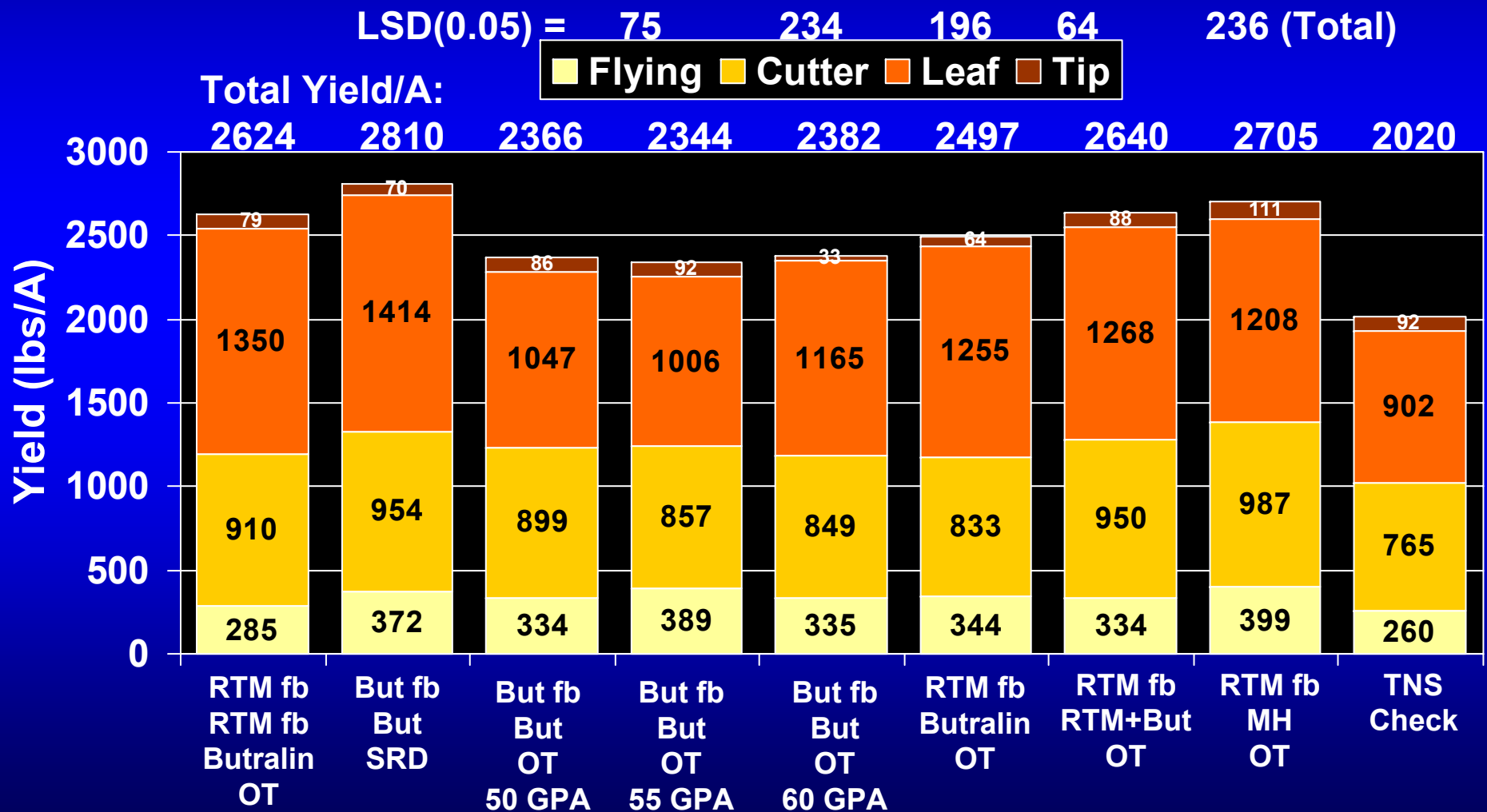
5 wks after topping, just prior to harvest

Treatment	% Sucker Control	Sucker Fresh Wt/A (lbs)
Royal TacM fb Royal TacM fb Butralin	77 e	6517 c
Butralin fb Butralin (SRD)	90 b	4469 c
Butralin fb Butralin (50 GPA)	75 ef	6673 c
Butralin fb Butralin (55 GPA)	72 f	11062 b
Butralin fb Butralin (60 GPA)	74 f	12653 ab
Royal TacM fb Butralin	83 d	4978 c
Royal TacM fb Royal TacM + Butralin	87 c	5438 c
Royal TacM fb Royal MH-30	98 a	464 d
Check (topped not suckered)	0 g	15913 a
LSD(0.05)	2.5	3792

2006 Burley Tobacco Yield

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Grade Index and Gross Revenue

***Based on 2004 USDA Price Support for Type 31 Burley**

Treatment	Grade Index (0-100)	*Gross Revenue (\$/A)
Royal TacM fb Royal TacM fb Butralin	75.2 ab	5184 ab
Butralin fb Butralin (SRD)	72.8 abc	5548 a
Butralin fb Butralin (50 GPA)	70.7 bc	4654 c
Butralin fb Butralin (55 GPA)	72.4 abc	4618 c
Butralin fb Butralin (60 GPA)	72.1 abc	4683 c
Royal TacM fb Butralin	69.4 c	4898 bc
Royal TacM fb Royal TacM + Butralin	75.3 a	5218 ab
Royal TacM fb Royal MH-30	72.5 abc	5321 ab
Check (topped not suckered)	74.1 ab	3974 d
LSD(0.05)	4.5	455