

# 2006 MH-Free Sucker Control Trial for Burley Tobacco

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# 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

## MH-Free Burley Sucker Control Trial

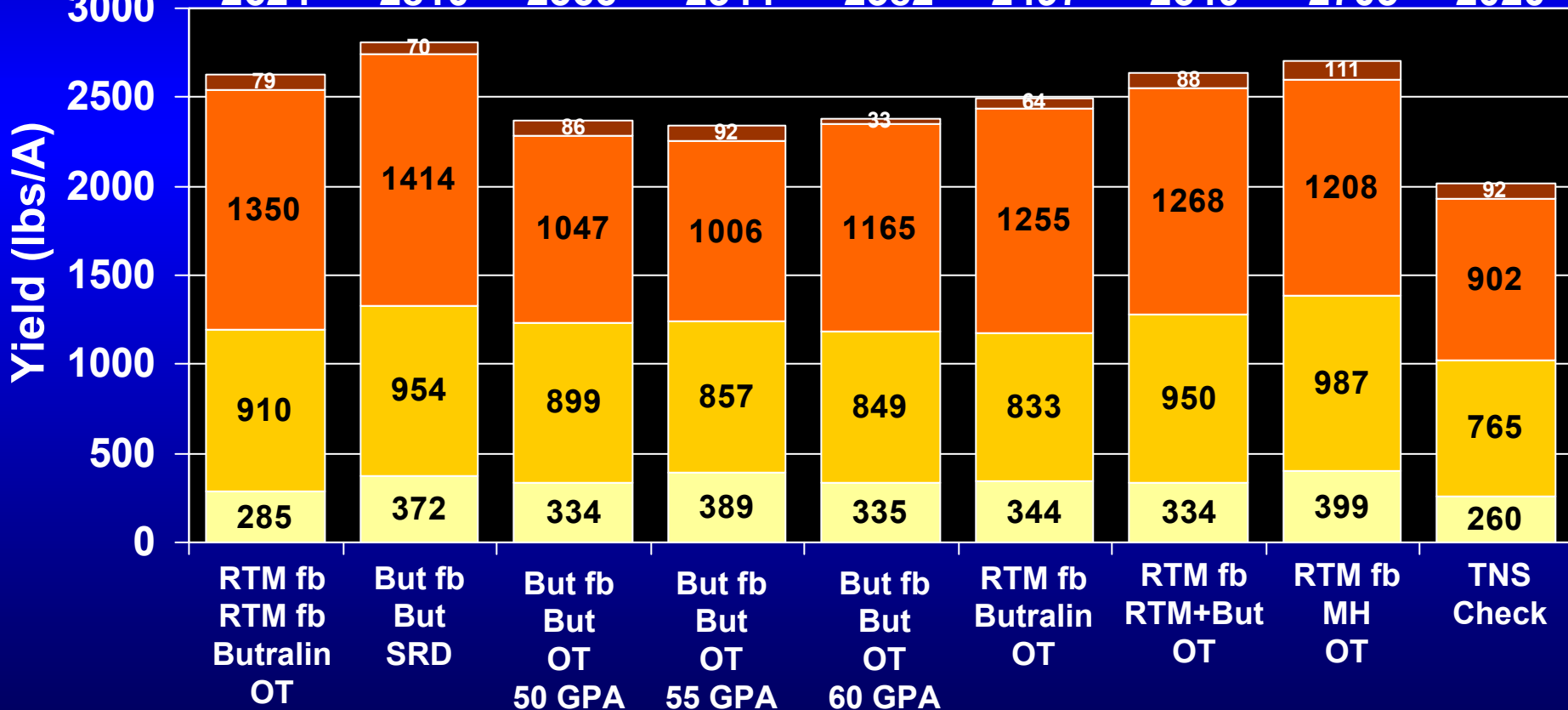
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LSD(0.05) = 75 234 196 64 236 (Total)

Flying
  Cutter
  Leaf
  Tip

Total Yield/A:

2624 2810 2366 2344 2382 2497 2640 2705 2020



# Grade Index and Gross Revenue

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

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