

# 2006 Regional 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 MH-30	2 gal	14 days	OT
2	Royal MH-30	1.5 gal	14 days	OT
3	Royal MH-30 + Flupro	1.5 gal + 0.5 gal	14 days	OT
4	Royal MH-30 + Butralin	1.5 gal + 0.5 gal	14 days	OT
5	Royal MH-30 + Prime+	1.5 gal + 0.5 gal	14 days	OT
6	Royal MH-30 + Butralin + Royal TacM	1 gal + 0.5 gal + 2 gal	14 days	SRD
7	Royal TacM	2 gal	14 days	OT
	Butralin + Royal TacM	0.5 gal + 2 gal	21 days	SRD
8	Royal TacM (5 weekly applications)	2 gal	Weekly	OT

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

\*\*All treatments (except trt 8) follow 2 contacts of Royal TacM at 2 gal/A OT.

# Application

- Over-the-top (OT) applications made with 3-nozzle/row system (all TG-5's) at 55 gal/A.
  - 2 row boom covering 2 rows/pass
- Stalk rundown (SRD) applications 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 MH-30	95 a	781 d
Royal MH-30	94 a	1010 d
Royal MH-30 + Flupro	93 a	1126 d
Royal MH-30 + Butralin	94 a	847 d
Royal MH-30 + Prime+	91 a	1220 d
Royal MH-30 + Butralin + Royal TacM	84 b	2543 c
Royal TacM Butralin + Royal TacM	77 c	3938 d
Royal TacM (5 weekly applications)	73 c	5446 a
LSD(0.05)	5.5	1185

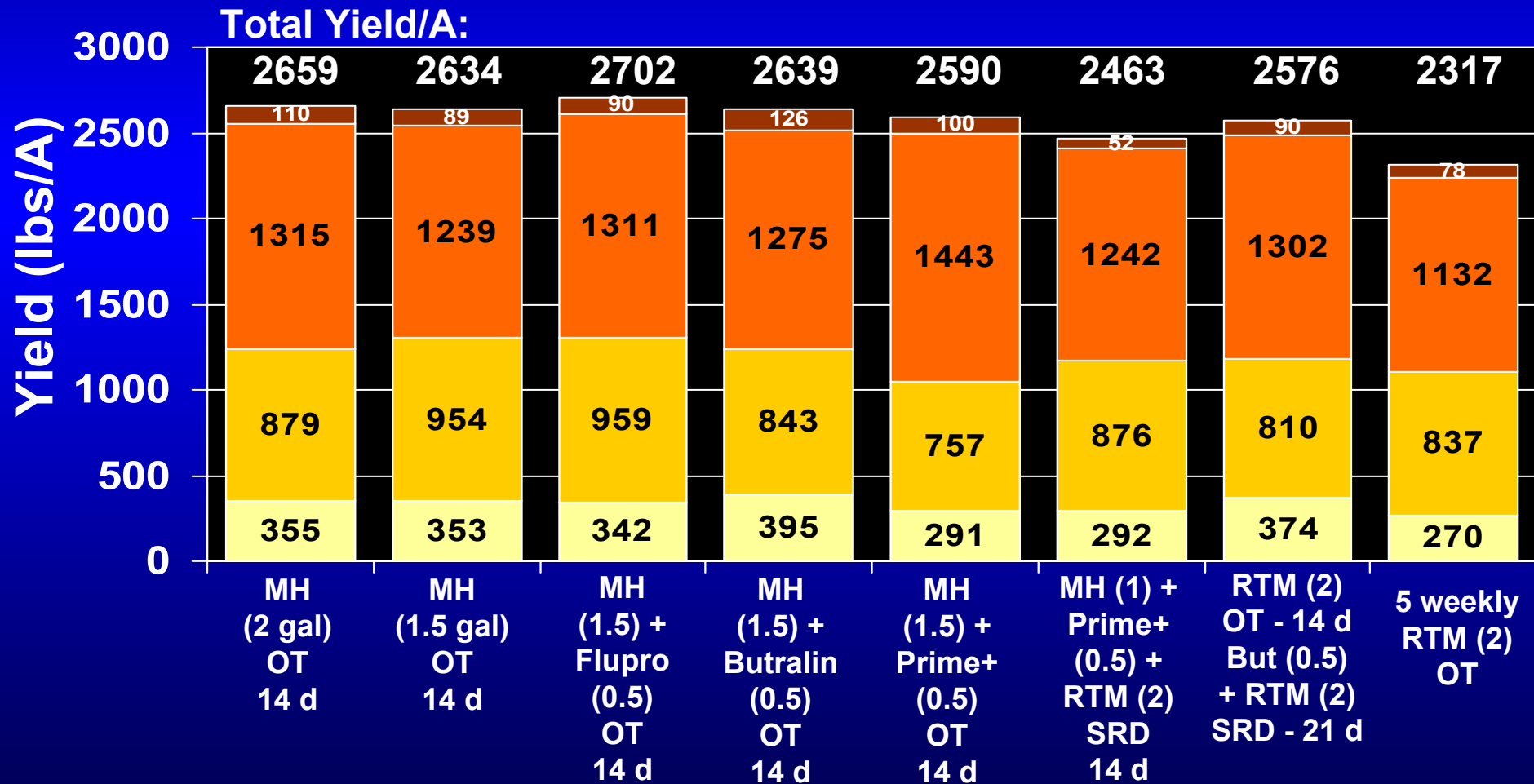
# 2006 Burley Tobacco Yield

## Regional Burley Sucker Control Trial

### UKREC, Princeton, KY

LSD(0.05) = 85 243 210 43 309 (Total)

Flying
  Cutter
  Leaf
  Tip



# 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 MH-30</b>	<b>70.9 a</b>	<b>5250 a</b>
<b>Royal MH-30</b>	<b>71.1 a</b>	<b>5186 a</b>
<b>Royal MH-30 + Flupro</b>	<b>70.4 a</b>	<b>5317 a</b>
<b>Royal MH-30 + Butralin</b>	<b>68.4 a</b>	<b>5208 a</b>
<b>Royal MH-30 + Prime+</b>	<b>69.3 a</b>	<b>5100 ab</b>
<b>Royal MH-30 + Butralin + Royal TacM</b>	<b>71.0 a</b>	<b>4845 ab</b>
<b>Royal TacM Butralin + Royal TacM</b>	<b>70.2 a</b>	<b>5071 ab</b>
<b>Royal TacM (5 weekly applications)</b>	<b>72.0 a</b>	<b>4558 b</b>
<b>LSD(0.05)</b>	<b>4.5</b>	<b>603</b>