

# Evaluation of Butralin, Flupro, and Prime+ Programs for Sucker Control in Burley Tobacco

2007 – UKREC, Princeton, KY

Andy Bailey

Tobacco Extension Specialist

Univ. of KY / Univ. of TN

# 2007 Sucker Control Trials

- Disclaimer:
  - The 2007 production season was extremely dry in west KY/TN with minimal sucker growth and vigor. As a result, sucker control from treatments applied in 2007 was somewhat higher than would be expected in seasons where average rainfall occurred.

# Butralin, Flupro, and Prime+ Programs for Burley 2007 – UKREC, Princeton, KY

- Burley Variety: TN 90LC
  - Transplanted May 22; 40" rows, 32" plant spacing (4900 pl/A)
- RCBD experimental design with 4 replications
  - Plots 4 rows, 40 ft. long
  - All 4 rows treated, data collected from center 2 rows
- Contact fatty alcohol only applications made as manual stalk rundown with dropline
- Butralin, Flupro, and Prime+ applications made with 3-nozzle/row system (all TG5s) with 2-row boom (55 gal/A).
- Data collected: crop vigor, % sucker control, sucker wt. per plot, burley yield, quality grade index, revenue.

# Butralin, Flupro, and Prime+ Programs for Burley 2007 – UKREC, Princeton, KY

Treatment	Applicaton Rate (gal/A)	Application Timing	Application Method
OST fb OST fb Butralin	1.5 gal fb 2 gal fb 1 gal	EB (1 <sup>st</sup> top) fb 10% BI (2 <sup>nd</sup> top) fb 7 days after 2 <sup>nd</sup> top	SRD fb SRD fb OT
OST fb OST fb Butralin	2 gal fb 2 gal fb 1 gal	EB (1 <sup>st</sup> top) fb 10% BI (2 <sup>nd</sup> top) fb 7 days after 2 <sup>nd</sup> top	SRD fb SRD fb OT
OST fb Butralin	2 gal fb 1 gal	EB (1 topping) fb 7 days	SRD fb OT
OST fb OST+Butralin	2 gal fb 2 gal + 1 gal	EB (1 topping) fb 7 days	SRD fb OT
OST fb OST+Prime+	2 gal fb 2 gal + 1 gal	EB (1 topping) fb 7 days	SRD fb OT
OST fb MH	2 gal fb 1.5 gal	EB (1 topping) fb 7 days	SRD fb OT
OST fb OST+Butralin fb OST+Flupro	2 gal fb 2 gal + 1 gal fb 2 gal + 1 gal	EB (1 topping) fb 7 days fb 14 days	SRD fb OT fb OT
OST fb OST+Butralin fb OST+Butralin	2 gal fb 2 gal + 1 gal fb 2 gal + 1 gal	EB (1 topping) fb 7 days fb 14 days	SRD fb OT fb OT
1 OST	2 gal	EB (1 topping)	SRD

\*fb=followed by; OST=Off Shoot T; OT=over-the-top application; SRD=manual stalk rundown w/ dropline.

# Butralin, Flupro, and Prime+ Programs for Burley 2007 – UKREC, Princeton, KY

Late-season plot evaluations, 4 wks after topping (preharvest)

Treatment	Tobacco Vigor (1-10, 10 best)	% Sucker Control (0-100%)	Sucker Wt (lbs) per 10 plants/plot	Sucker Wt/A (lbs)
OST fb OST fb Butralin	7.75 abc	84 cd	1.29 a	630.9 a
OST fb OST fb Butralin	8.25 a	84 cd	0.71 a	349.1 a
OST fb Butralin	8.00 abc	81 d	0.50 a	245.0 a
OST fb OST+Butralin	8.13 ab	82 cd	1.04 a	508.4 a
OST fb OST+Prime+	7.56 bc	87 abc	1.28 a	624.8 a
OST fb MH	7.44 c	89 ab	0.52 a	252.4 a
OST fb OST+Butralin fb OST+Flupro	7.69 abc	87 abc	1.28 a	624.8 a
OST fb OST+Butralin fb OST+Butralin	8.19 ab	91 a	1.25 a	612.5 a
1 OST	7.38 c	65 e	1.10 a	537.9 a
LSD <sub>0.05</sub>	0.63	5.4	1.07	523.8

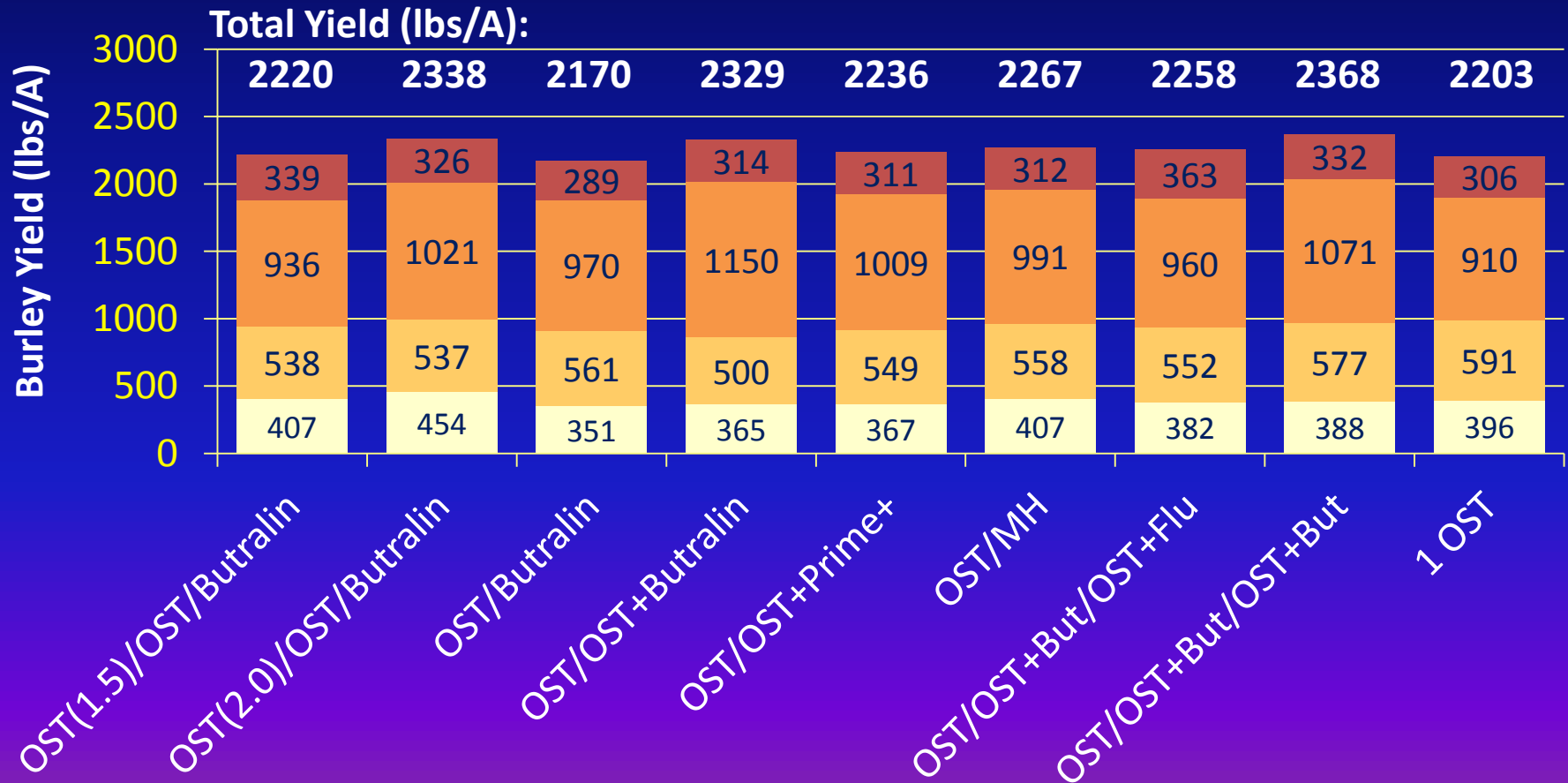
# Butralin, Flupro, and Prime+ Programs for Burley

## 2007 – UKREC, Princeton, KY

### Burley Yield

LSD<sub>0.05</sub> =      75                      117                      230                      61                      263 (total)

■ Flyings    ■ Cutters    ■ Leaf    ■ Tips



# Butralin, Flupro, and Prime+ Programs for Burley 2007 – UKREC, Princeton, KY

## Quality Grade Index and Gross Revenue/A\*

\*Grade Index and Gross Revenue based on 2004 USDA grade and price support for Type 31 burley tobacco.

