

# Dark Tobacco No-Till Weed Control Trial

## UKREC, Princeton, KY - 2005

- Wheat burned down 45 d prior to transplanting
  - Roundup WeatherMax (1 qt/A)
- Soil test P and K preplant, 300 lbs N/A (PP-BC + SD)
- Ridomil (1 pt/A) + Lorsban (1 qt/A) broadcast preplant
- Spartan (12 oz/A) + Command (2 pt/A) broadcast preplant
- 'Narrowleaf Madole' dark tobacco set May 27 (4900 pl/A)
- Other production practices standard for dark tobacco
- Plots 4 rows, 40 ft. long
- RCB design with 4 replications

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Trt	Herbicide	Rate (oz/A)	Timing*	Spray Volume (gal/A)
1	Exp 1	0.1	POT	15
2	Exp 1	0.1	PD	13
3	Exp 2	1.0	POT	15
4	Exp 2	1.0	PD	13
5	Exp 3	1.0	PD	13
6	Exp 4	16	PD	13
7	Untreated	0	-	-

\*POT = postemergence over-the-top at 4 wks after setting

PD = post-directed spray (hooded) at 6 wks after setting

# Crop Response to POT Herbicides

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Crop Injury and Plant Height at 11 days after POT

Herbicide	Rate (oz/A)	Injury (0-100%)	Plant Height (in.)
Exp 1 POT	0.1	11	19
Exp 2 POT	1.0	18	21
Untreated	0	0	21
LSD <sub>0.05</sub>		3	4

# Crop Injury and Weed Control from Herbicides

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18 d after POT; 7 d after PD

Herbicide	Rate (oz/A)	Crop Injury	0-100%		
			Honeyvine Milkweed	Pigweed species	Morningglory species
Exp 1 POT	0.1	8	54	79	63
Exp 1 PD	0.1	3	53	53	52
Exp 2 POT	1.0	12	63	73	56
Exp 2 PD	1.0	4	55	78	49
Exp 3 PD	1.0	39	76	68	57
Exp 4 PD	16	58	93	89	92
Untreated	0	0	0	0	0
LSD <sub>0.05</sub>		4	7	11	6

# Weed Control from Herbicides

## UKREC, Princeton, KY – 2005

### Late-season, 1 wk prior to harvest

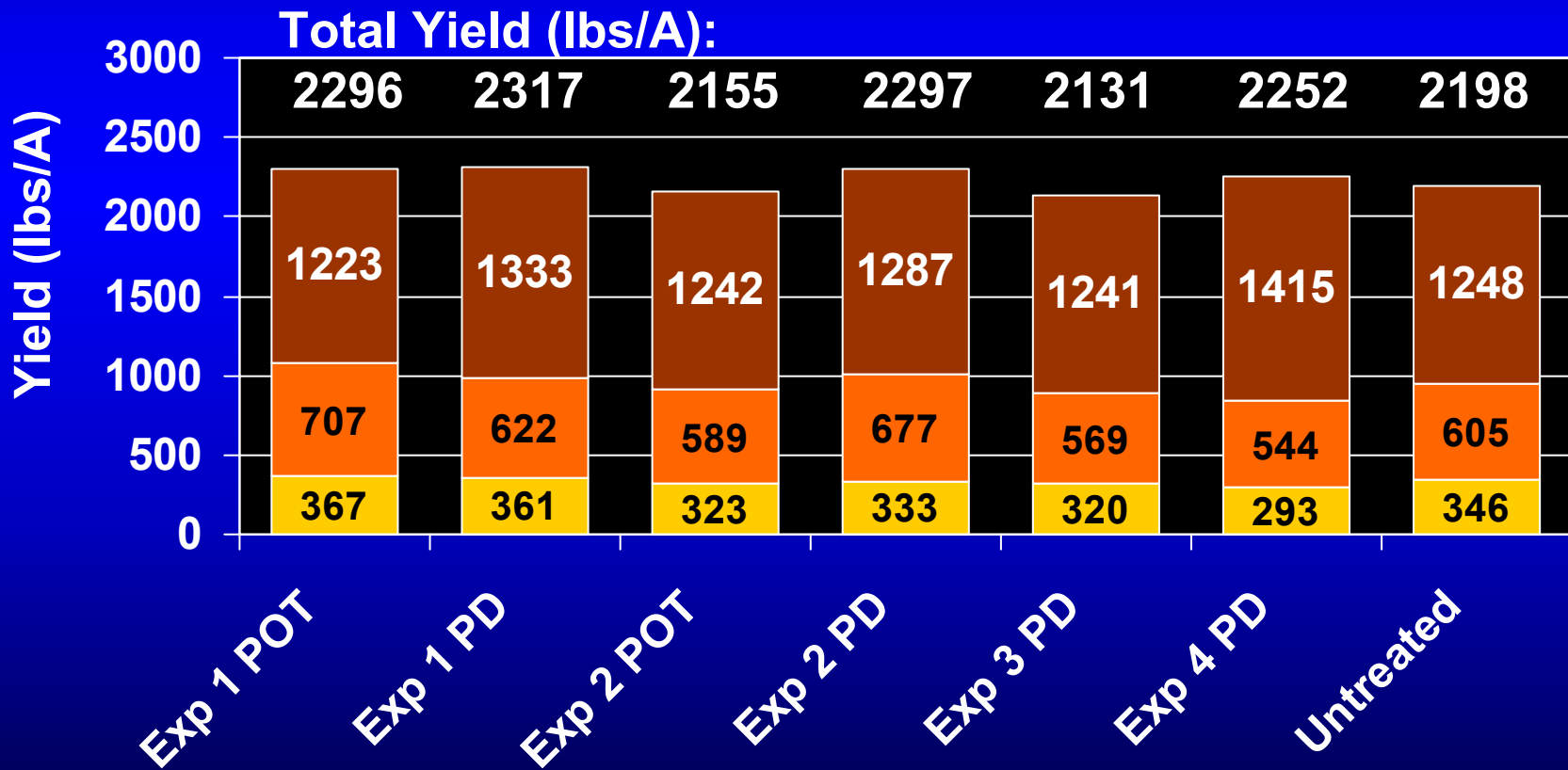
Herbicide	Rate (oz/A)	Nightshade species	Pigweed species	Morningglory species
		0-100%		
Exp 1 POT	0.1	53	61	54
Exp 1 PD	0.1	60	68	77
Exp 2 POT	1.0	44	71	46
Exp 2 PD	1.0	34	67	46
Exp 3 PD	1.0	45	77	39
Exp 4 PD	16	63	86	76
Untreated	0	0	0	0
LSD <sub>0.05</sub>		11	14	11

# No-Till Dark Tobacco Yield

## UKREC, Princeton, KY - 2005

LSD<sub>0.05</sub> = 64      167      314      398 (total)

■ Lug ■ Second ■ Leaf



# Dark Air-Cured Tobacco Grade Index and Revenue\*

## UKREC, Princeton, KY – 2005

\*Grade Index and Revenue based on 2004 federal grade and price support for Type 35 dark air-cured tobacco.

Herbicide	(oz/A)	Grade Index	Gross Revenue
			\$/Acre
Exp 1 POT	0.1	42.4	3514
Exp 1 PD	0.1	48.1	3922
Exp 2 POT	1.0	44.1	3322
Exp 2 PD	1.0	48.0	3858
Exp 3 PD	1.0	44.8	3454
Exp 4 PD	16	47.5	3790
Untreated	0	45.7	3679
LSD <sub>0.05</sub>		11.2	913