Evaluation of Experimental Foliar Products for Burley and Dark Tobacco

2007 – MSU, Murray, KY

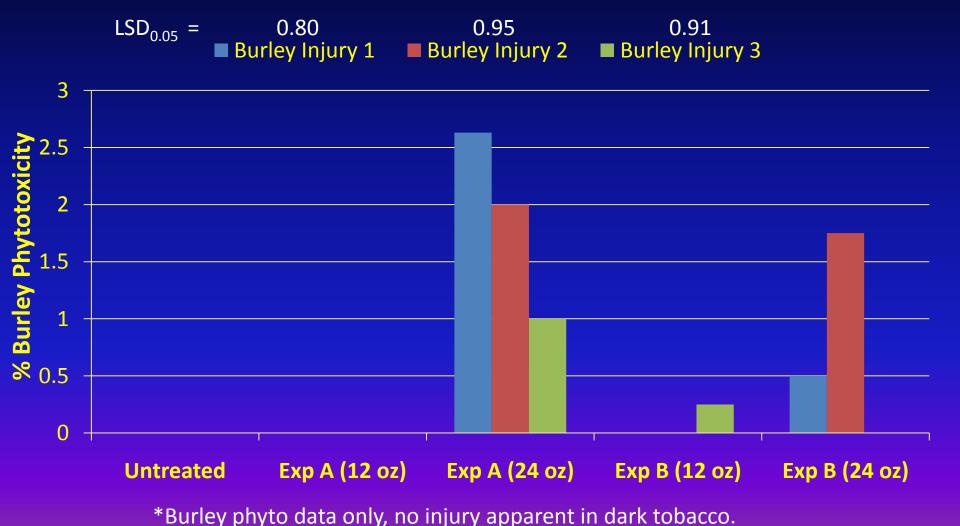
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- Objective: Evaluate phytotoxicity potential from experimental foliar products applied to burley and dark tobacco.
- Randomized complete block with 4 replications
- Tobacco set June 5
 - 40" row spacing, 32" plant spacing (4900 plants/A)
 - Burley variety: TN 90LC; Dark variety: Narrowleaf Madole LC
 - Plots 4 rows, 40 ft. long
 - 2 rows burley, 2 rows dark
 - All rows in plot treated (broadcast, 15 gal/A), evaluated, and harvested
 - 2 products tested, 3 mid-season applications made 7-10 days apart
- Data collected: phytotoxicity ratings, air-cured yield, quality

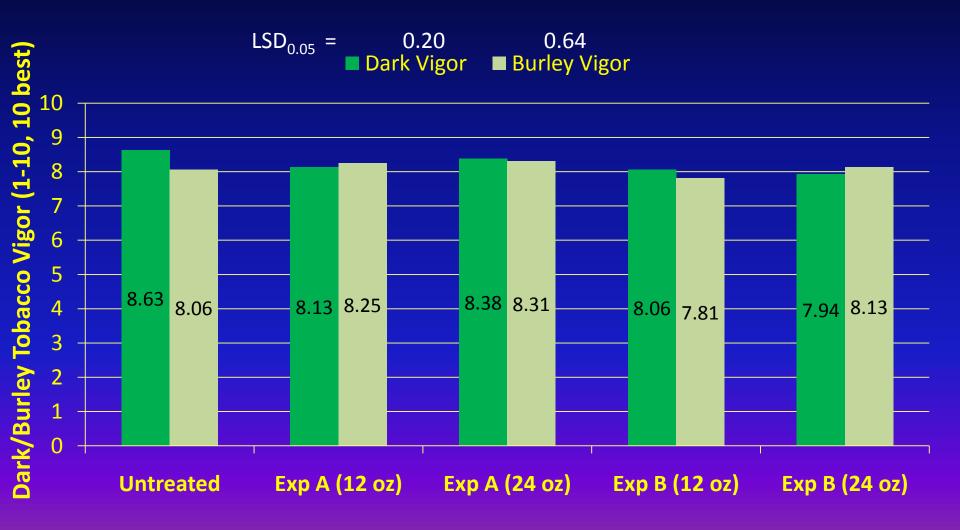
Treatment	Product	Rate/A (oz/A)	No. of Applications
1	Untreated Control	0	0
2	Experimental A	12 oz/A	3
3	Experimental A	24 oz/A	3
4	Experimental B	12 oz/A	3
5	Experimental B	24 oz/A	3

^{*}Dates of Application: App. 1: July 10; App. 2: July 18; App. 3: July 27 Plots evaluated July 18, July 27, August 6, September 19 (preharvest)

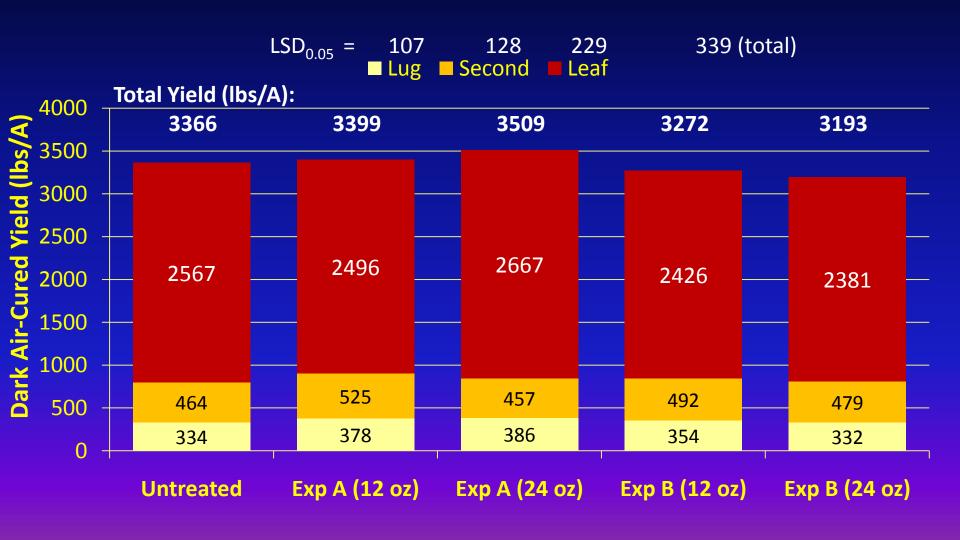
Experimental Foliar Products for Burley and Dark Tobacco – 2007, Murray, KY Burley Phytotoxicity Ratings*



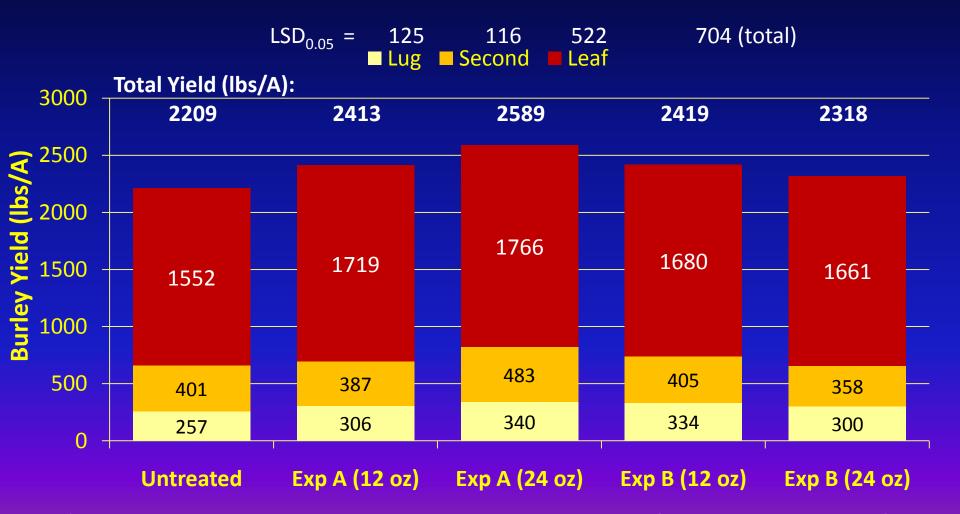
Experimental Foliar Products for Burley and Dark Tobacco – 2007, Murray, KY Late-season preharvest burley and dark crop vigor ratings



Experimental Foliar Products for Burley and Dark Tobacco – 2007, Murray, KY Dark Air-Cured Tobacco Yield



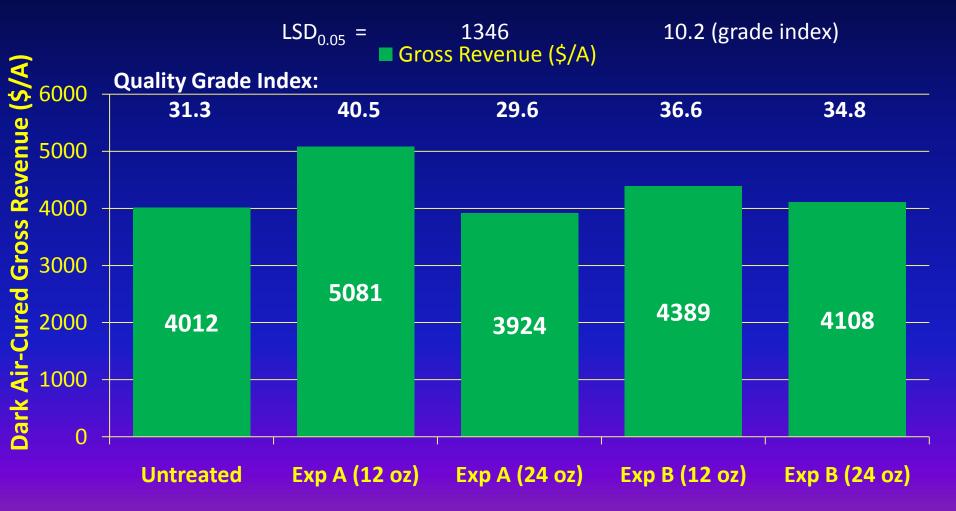
Experimental Foliar Products for Burley and Dark Tobacco – 2007, Murray, KY Burley Tobacco Yield



^{*}Some variability in burley yield due to heavy tomato spotted wilt infection in burley portion of trial.

Dark Air-Cured Quality Grade Index and Gross Revenue/A*

*Grade Index and revenue based on 2004 USDA grade and price support for Type 35 Dark Air-Cured Tobacco.



^{**}Quality grade index not evaluated on burley due to tomato spotted wilt damage.

Trial Summary:

- Phytotoxicity not apparent on dark tobacco, appeared as mild flecking on burley, most from 24 oz/A rate of Experimental A (Trt 3).
- Dark late-season plant vigor reduced from all treatments compared to nontreated, largest reduction from either rate of Experimental B.
- Small reduction in dark leaf yield from Experimental B at either rate compared to Exp. A at 24 oz/A, but not different from untreated. Total yield not affected.
- Small differences in yield of burley seconds, total burley yield not affected.
- Quality grade index lowest in dark treated with 24 oz/A rate of Exp.
 A, but not different from untreated. No differences in dark gross revenue/A.