

Evaluation of Coragen Insecticide for Worm Control in Dark Tobacco

MSU West Farm – Murray, KY - 2009

- PD 7318LC set June 10
- 4900 plants/A
 - 40” rows, 32” plant spacing
- Treatment applications made only at threshold (5 hornworms/budworms per 50 plants)
- Treatments broadcast with hollow cone nozzles
- 2 applications:
 - Application 1: July 1 (15 gal/A)
 - Application 2: August 18 (30 gal/A)

Trt #	Treatment	Rate/A
1	Coragen 20SC	3.5 oz/A
2	Coragen 20SC	5 oz/A
3	<u>Local Standard:</u> Orthene 97 (app. 1) Belt (app. 2)	0.774 lb/A 3 oz/A
4	Untreated Check	0

Data collected:

- Worm counts per plot evaluated nearly weekly throughout season.
- Yield and Quality Grade Index

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Worm Count Data – Hornworms and Budworms

Treatment	<u>Rating 1</u> July 16	<u>Rating 2</u> July 27	<u>Rating 3</u> Aug 3	<u>Rating 4</u> Aug 4	<u>Rating 5</u> Aug 12	<u>Rating 6</u> Aug 21	<u>Rating 7</u> Aug 30	<u>Rating 8</u> Sept 29
Coragen (3.5 oz/A)	1 a	0.25 a	0 a	0 a	1 a	0 b	0 a	0 b
Coragen (5 oz/A)	0 a	0 a	0 a	0.25 a	1.25 a	0 b	0 a	0.33 b
<u>Loc. Stand:</u> Orthene 97 Belt	0 a	0.75 a	0.25 a	0.25 a	2.0 a	0.25 b	0 a	0 b
Untreated	1 a	1.25 a	0.75 a	0.50 a	2.75	1.5 a	0.25 a	1.0 a
LSD _{0.05}	1.05	1.26	0.92	0.65	2.5	0.55	0.40	0.58

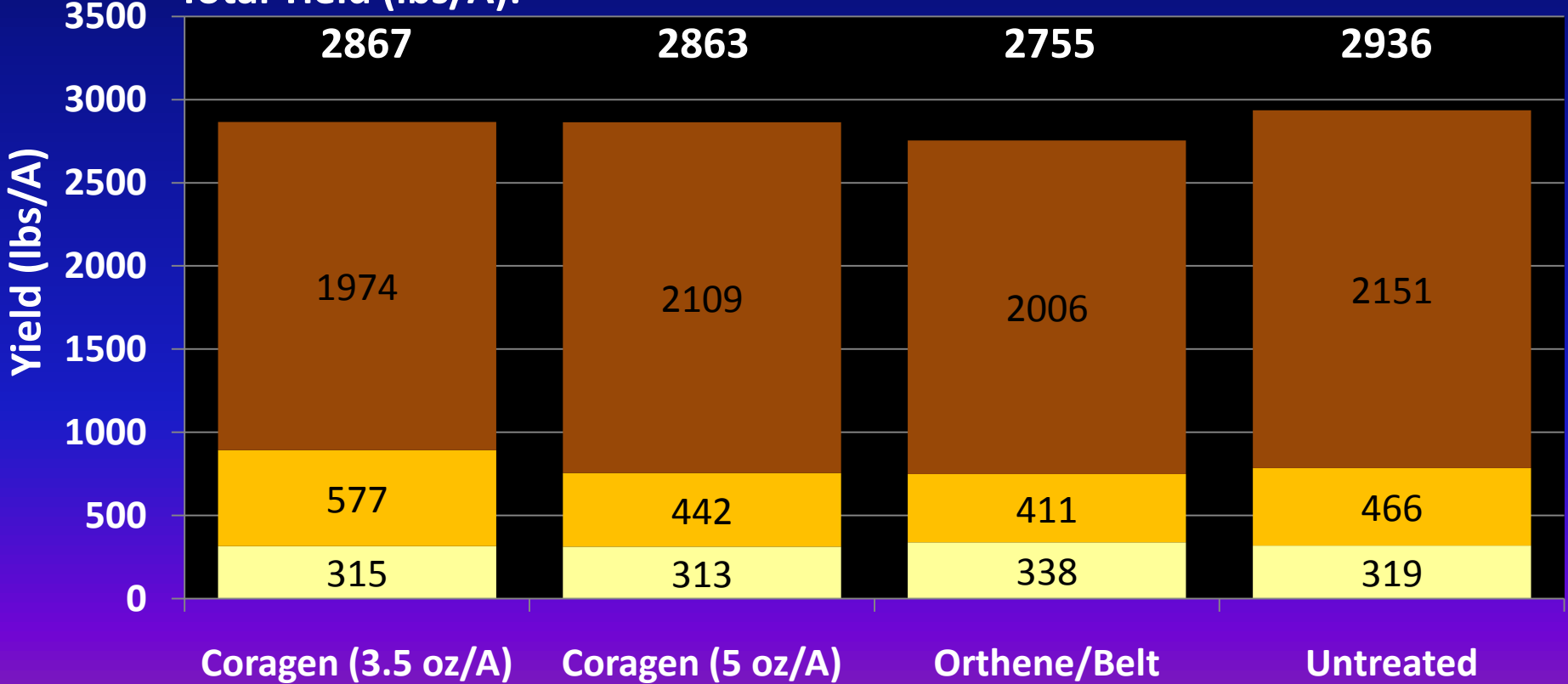
*Treatments applied July 1 and August 18.

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Dark Tobacco Yield Data

LSD_{0.05} = Lug 77 Second 138 Leaf 226 213 (total)

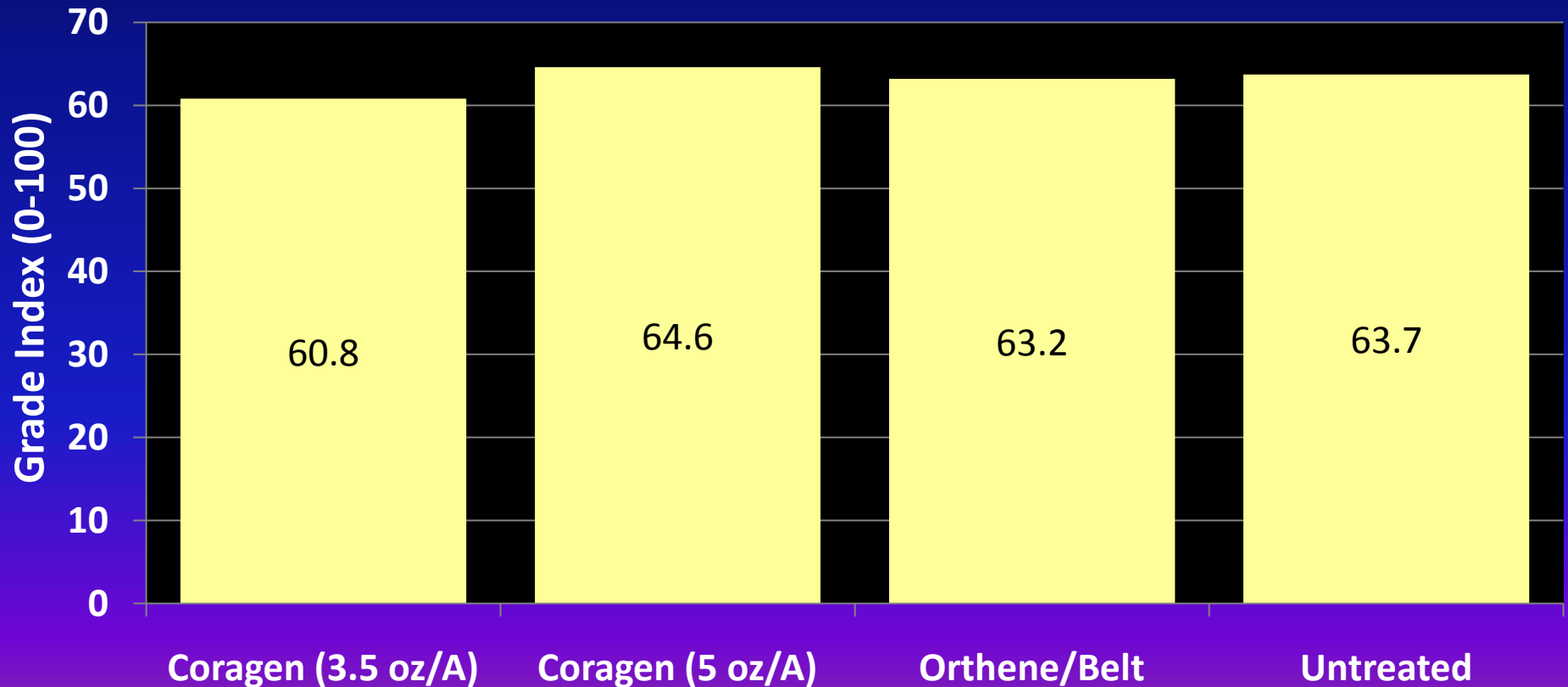
Total Yield (lbs/A):



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Dark Tobacco Quality Grade Index Data

$LSD_{0.05} = 5.9$
■ Grade Index



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Trial Summary

- Hornworm and budworm pressure was light throughout season.
- Data suggests that worm control from Coragen insecticide is at least comparable to control from Orthene 97 and Belt.
- Due to light worm pressure, no total yield or quality differences were observed between treatments.