

Evaluation of High-Volume Foliar Applications of Coragen Insecticide

HRREC, Springfield, TN - 2009

- NL Madole set mid-June
- 4614 plants/A
- Randomized complete block design w/ 4 replications.
- 1 application made August 13 at 17 or 57.4 gal/A.
- Objective of trial: determine if high volume foliar sprays will deposit enough Coragen to soil to allow root uptake and extended worm control compared to standard lower volume applications.

Trt #	Treatment	Rate/A	Spray Volume (gal/A)
1	Coragen 20SC	3.5 oz/A	57.4
2	Coragen 20SC	5 oz/A	57.4
3	Coragen 20SC	3.5 oz/A	17
4	Coragen 20SC	5 oz/A	17
5	Belt SC	3 oz/A	17
6	Untreated	0	0

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Hornworm Count Data*

Trt #	Treatment	Rate	Spray Vol	Count 1 Pre-App Aug 13	Count 2 1.5 WAT Aug 24	Count 3 3 WAT Sept 4	Count 4 5 WAT Sept 22
1	Coragen 20SC	3.5 oz/A	57.4	3.0 a	0 b	0 b	0 a
2	Coragen 20SC	5 oz/A	57.4	1.75 a	0 b	0 b	0 a
3	Coragen 20SC	3.5 oz/A	17	2.5 a	0.75 b	0 b	0 a
4	Coragen 20SC	5 oz/A	17	3.5 a	0.25 b	0 b	0 a
5	Belt SC	3 oz/A	17	1.75 a	0 b	0 b	0.25 a
6	Untreated	0	0	2.25 a	7.5 a	3.5 a	0 a
	LSD _{0.05}			2.58	0.78	1.18	0.31

*Hornworm counts per plot are based on approximately 60 plants per plot.

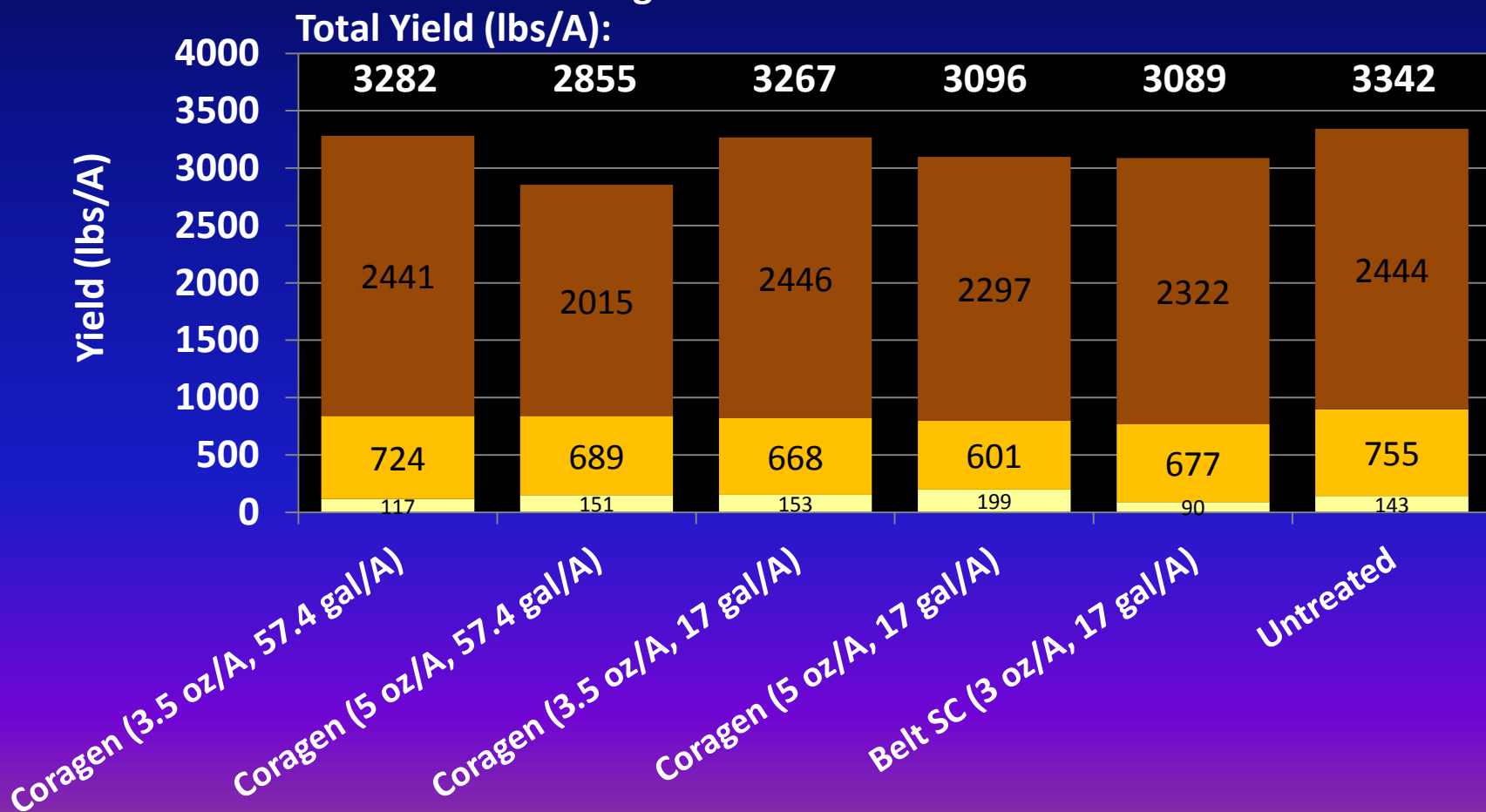
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Dark-Fired Tobacco Yield Data

LSD_{0.05} = 93 199 336 359 (total)

■ Lug ■ Second ■ Leaf

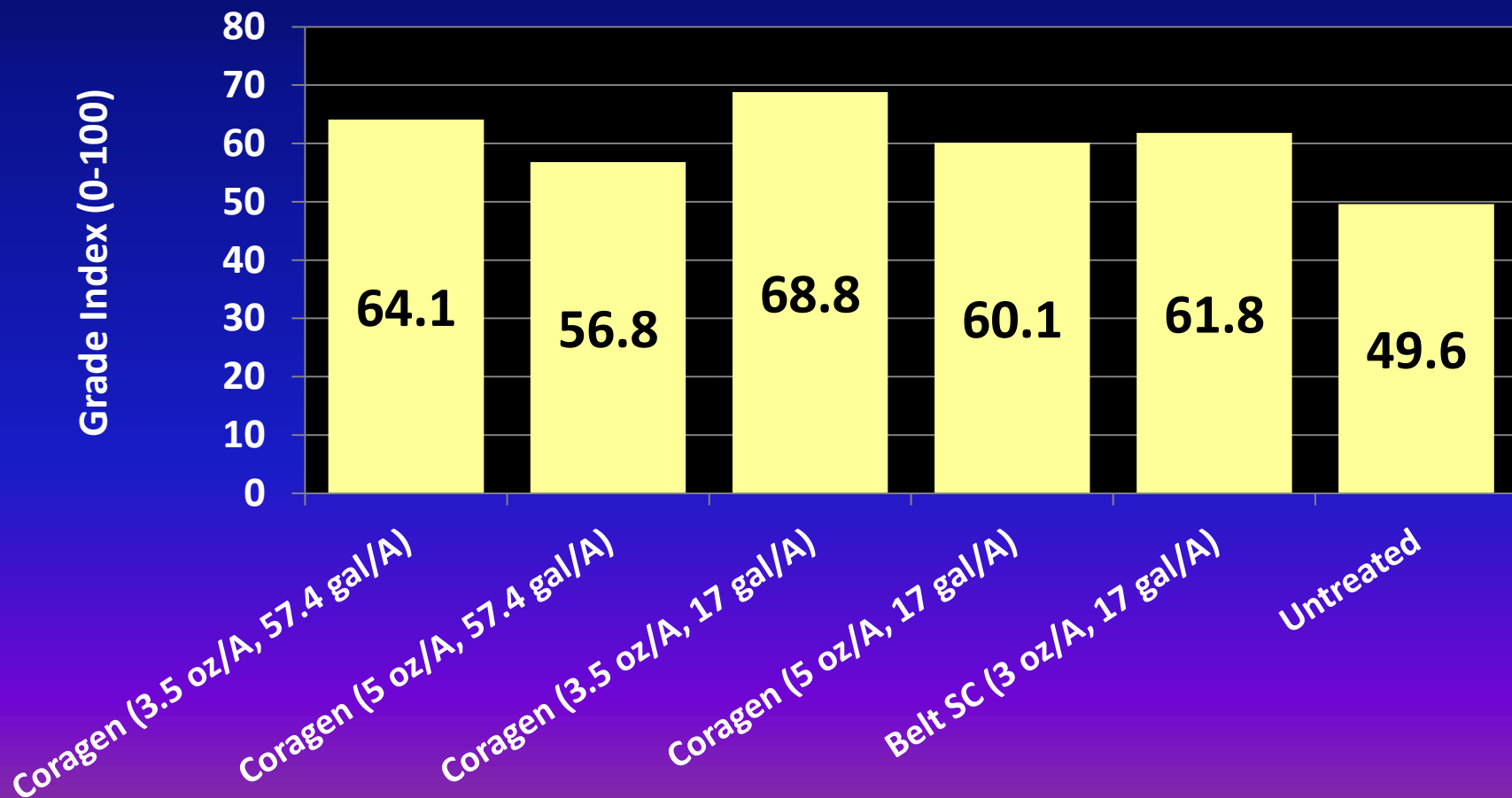


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Dark-Fired Quality Grade Index Data

LSD_{0.05} = 14.9
■ Grade Index



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Trial Summary

- Relatively low hornworm populations in trial
- No statistically significant difference in worm control from high volume spray compared to standard spray volume.
- Coragen applied at either spray volume controlled hornworms as well as Belt
- Due to relatively low hornworm populations, total yield was not affected by treatment
- There was generally higher quality in tobacco treated with Coragen or Belt compared to untreated tobacco.