

Evaluation of Coragen Insecticide for Worm Control in Dark Tobacco

HRREC, Springfield, TN - 2009

- NL Madole set mid-June
- 4614 plants/A
- Treatments applied only when worm (hornworm/budworm) threshold was reached.
- Treatments applied broadcast using hollow cone nozzles.
- 1 application: August 18
- 17 gal/A
- Data collected:
 - Worm counts prior to application and then at 1 and 2 wk after application.
 - Yield and Quality Grade Index

Trt #	Treatment	Rate/A
1	Coragen 20SC	3.5 oz/A
2	Coragen 20SC	5 oz/A
3	Exp. DPX-HGW86	13.5 oz/A
4	Exp. DPX-HGW86	27.0 oz/A
5	<u>Local Standard:</u> Orthene 97	0.774 lb/A
6	Untreated Check	0

*Exp. = experimental

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Worm Count Data – Hornworms

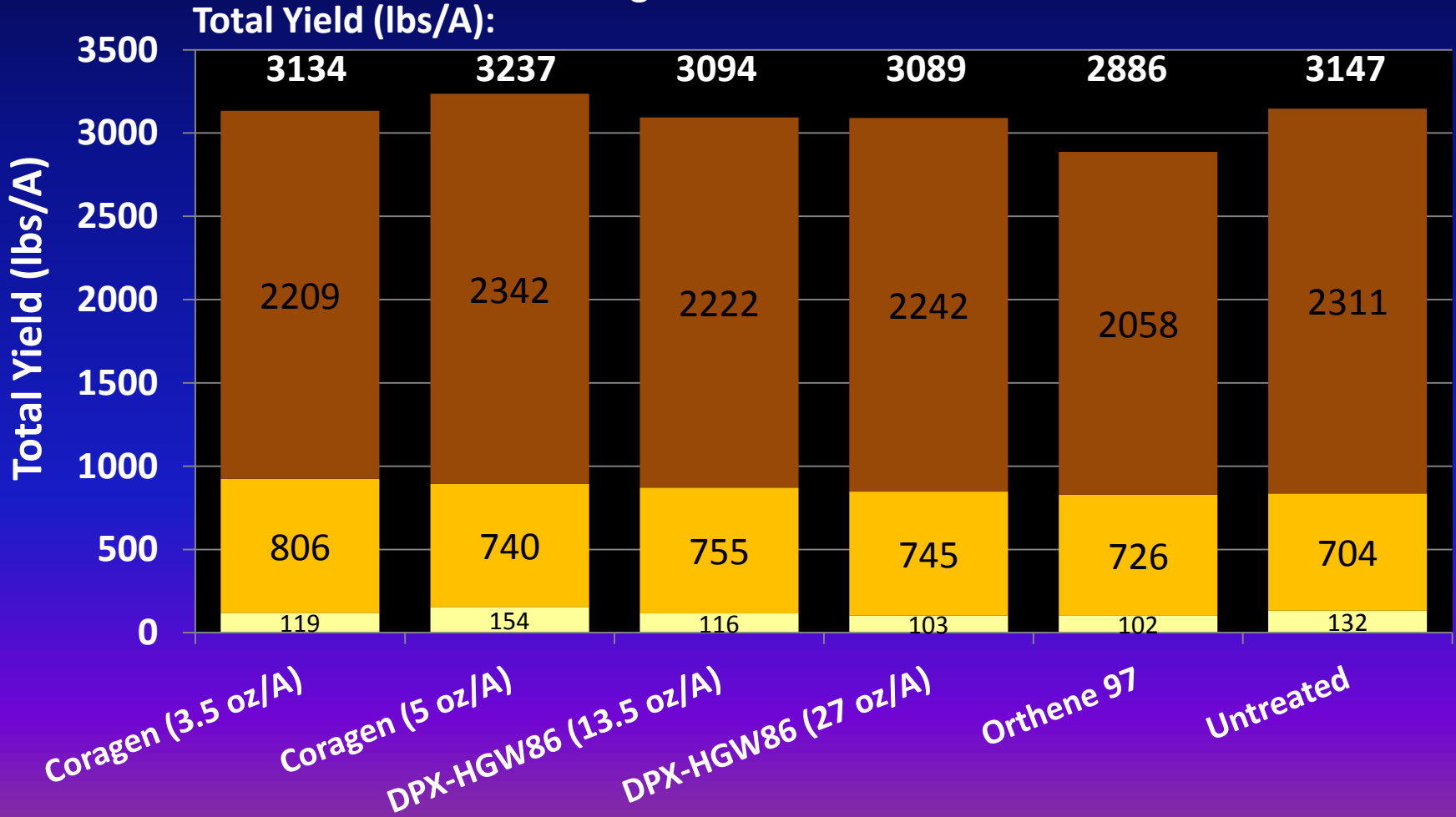
Trt #	Treatment	Rating 1 Pre-Spray August 18	Rating 2 1 WAT August 24	Rating 3 2 WAT September 4
1	Coragen 20SC (3.5 oz/A)	6.75 a	0 b	0 b
2	Coragen 20SC (5 oz/A)	5.75 a	0.25 b	0 b
3	Exp. DPX-HGW86 (13.5 oz/A)	5.5 a	0.50 b	0 b
4	Exp. DPX-HGW86 (27.0 oz/A)	8.25 a	0.25 b	0 b
5	Orthene 97 (0.774 lb/A)	6.25 a	0 b	0 b
6	Untreated Check	3.75 a	5.5 a	2.75 a
	LSD _{0.05}	5.1	1.39	1.16

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Dark Tobacco Yield Data

LSD_{0.05} = 80 138 484 528 (total)
 Lug Second Leaf

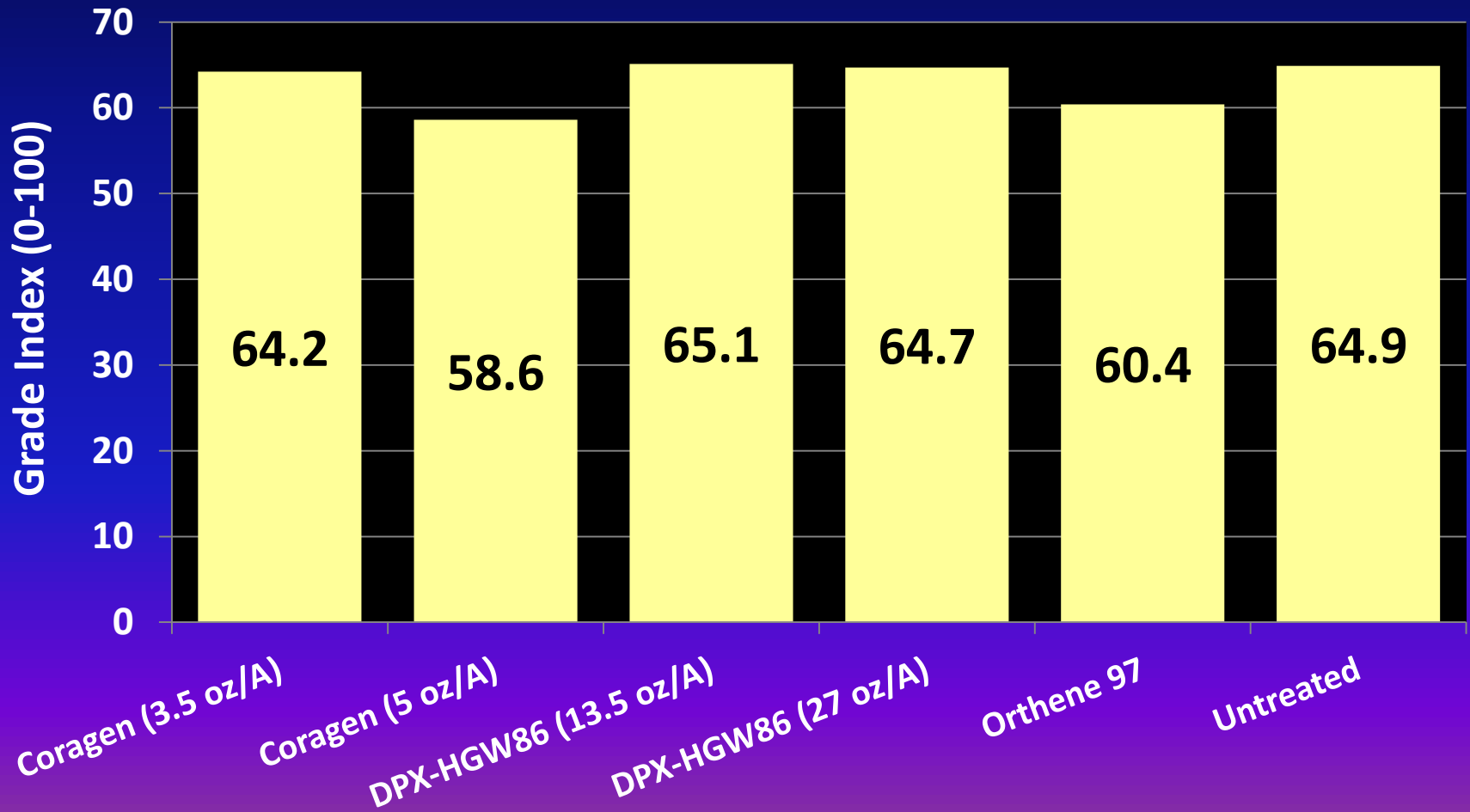


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Dark Tobacco Quality Grade Index Data

LSD_{0.05} = 5.2
■ Grade Index



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Trial Summary

- Relatively low worm pressure in trial
- Worm count data suggest that Coragen and experimental DPX-HGW86 were as effective as Orthene 97 against hornworms.
- Due to low worm pressure, no differences in total yield were observed between treatments.
- Minor difference in grade index were probably not due to treatment.