

2011 Coragen Post-Transplant Experiment

HRREC, Springfield, TN

Objectives

- Continue to evaluate residual activity of Coragen in transplant water applications and compare foliar applications to Belt.
- Determine if Coragen can be soil applied and cultivated in following transplanting to allow root uptake and residual worm control similar to transplant water applications.



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Trt #	Insecticide	Rate	Timing
1	Coragen	5 oz/A	Transplant water Foliar (5 oz/A) at threshold
2	Coragen	7 oz/A	Transplant water Foliar (5 oz/A) at threshold
3	Coragen	5 oz/A	First cultivation (3 wks – June 24)
4	Coragen	7 oz/A	First cultivation (3 wks – June 24)
5	Coragen	5 oz/A	Foliar at threshold
6	Belt	2 oz/A	Foliar at threshold
7	Untreated Check	0	-

*All treatment applications were followed up with Lannate foliar (1 pt/A) or Orthene 97 (0.77 lb/A) when threshold reached.

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- Trial set June 14
 - PD7318LC
 - 4,614 plants/A
- Randomized complete block with 4 replications
 - 2-row plots, 40 ft. long, approx. 30 plants per plot
- Post-transplant soil applications applied as banded application on each side of row on July 5
- Weekly worm counts taken beginning July 13
- Tobacco harvested October 15, fire-cured.
- Data collected: worm counts, yield, quality

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Hornworm and Budworm per plot, HRREC, Springfield, TN

Wks after TP (thresh reached)	5.5	6.5	7.5	8.5	9.5	10.5	11.5	12.5	13.5	14.5
Treatment	July 20	July 27	Aug 3	Aug 10	Aug 17	Aug 25	Aug 31	Sept 8	Sept 14	Sept 21
Cor (5 oz/A) TPW	0.0 b	2.8 b	0.0 b	2.0 c	0.3 b	0.0 b	0.0 a	0	0	0
Cor (7 oz/A) TPW	0.3 ab	4.0 ab	0.8 b	1.8 c	0.0 b	0.0 b	0.0 a	0	0	0
Cor (5 oz/A) CULT	0.0 b	5.8 a	1.0 b	4.8 b	0.0 b	0.0 b	0.0 a	0	0	0
Cor (7 oz/A) CULT	0.0 b	4.0 ab	0.8 b	2.8 bc	0.0 b	0.0 b	0.0 a	0	0	0
Cor (5 oz/A) FOL	0.8 a	4.5 ab	0.0 b	1.3 c	0.5 b	0.5 ab	0.0 a	0	0	0
Belt (2 oz/A) FOL	0.3 ab	4.5 ab	0.0 b	2.0 c	0.3 b	0.8 ab	0.3 a	0	0	0
Untreated	0.5 ab	4.5 ab	13.5 a	8.5 a	5.5 a	1.0 a	0.0 a	0	0	0

 = Lannate (1 pt/A) foliar

 = Orthene 97 (0.77 lb/A)/A) foliar

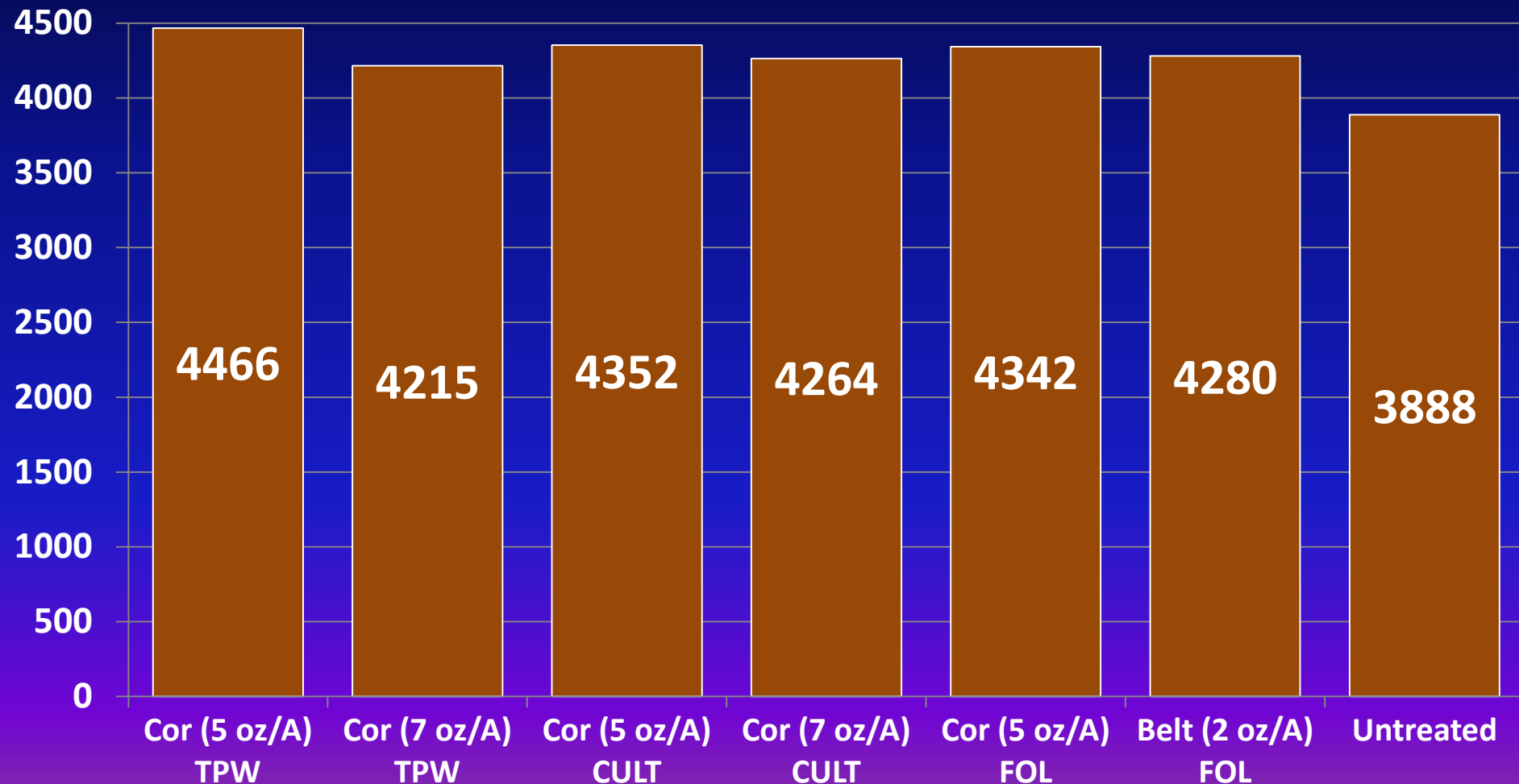
 = Coragen (5 oz/A) or Belt (2 oz/A) foliar

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HRREC, Springfield, TN – Dark-Fired Yield

LSD (0.10) = 201

■ Total Yield (lbs/A)



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HRREC, Springfield, TN – Dark-Fired Quality Grade Index

LSD (0.10) = 16.9

■ Total Quality Grade Index (0-100)

