

# Evaluation of Coragen (Rynaxypyr) Insecticide for Foliar Application in Dark Tobacco

2008

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Springfield, TN

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# 2008 Coragen Trial

## HRREC, Springfield, TN

- *Section 24C registration expected for Coragen (Rynaxypyr) insecticide for tobacco in Kentucky and Tennessee in 2009.*
- 2008 Coragen Trial:
  - Narrowleaf Madole LC dark tobacco set June 6
  - Experimental design: randomized complete block with 4 replications.
  - Plots 4 rows, 40 ft. long
  - Control data collected from all 4 rows, yield data collected from center 2 rows.
  - Foliar treatments applied at worm threshold
    - 5 worms per 50 plants
    - 2 applications made (July 15 and August 8)
  - Treatments applied at 15 to 17 gal/A broadcast over-the-top with 10X hollow cone nozzles.

# 2008 Coragen Trial

## HRREC, Springfield, TN

### Treatments

Treatment	Rate/A	Application Timing
Coragen 1.67SC	3.37 oz/A	At worm threshold
Coragen 1.67SC	5.06 oz/A	At worm threshold
Coragen 1.67SC	6.74 oz/A	At worm threshold
Local Standard: Orthene 97 (app. 1) Tracer 2SC (app. 2)	0.774 lb/A Orthene 2 oz/A Tracer	At worm threshold
Untreated Check	0	-

# 2008 Coragen Trial

## HRREC, Springfield, TN

Rating 1 – July 21 (1 wk after 1<sup>st</sup> application)

Treatment	% Worm Damage	# Budworms/60 plants
Coragen 1.67SC (3.37 oz/A)	3.25	0.25
Coragen 1.67SC (5.06 oz/A)	5.50	0
Coragen 1.67SC (6.74 oz/A)	5.00	0
Local Standard: Orthene 97 (app. 1) Tracer 2SC (app. 2)	4.25	0
Untreated Check	6.50	0.25
LSD <sub>0.05</sub>	3.01	0.51

# 2008 Coragen Trial

## HRREC, Springfield, TN

Rating 2 – August 5 (3 wks after 1<sup>st</sup> application)

Treatment	% Worm Damage	# Hornworms/60 plants
Coragen 1.67SC (3.37 oz/A)	7.75	2.5
Coragen 1.67SC (5.06 oz/A)	5.75	1.25
Coragen 1.67SC (6.74 oz/A)	4.25	1
Local Standard: Orthene 97 (app. 1) Tracer 2SC (app. 2)	6.75	2.25
Untreated Check	10.25	3.25
LSD <sub>0.05</sub>	2.96	1.86

# 2008 Coragen Trial

## HRREC, Springfield, TN

Rating 3 – August 14 (1 wk after 2nd application)

Treatment	# Parasitized Hornworms/60 plants	# Healthy Hornworms/60 plants
Coragen 1.67SC (3.37 oz/A)	0.75	0.5
Coragen 1.67SC (5.06 oz/A)	0.25	0
Coragen 1.67SC (6.74 oz/A)	0	0
Local Standard: Orthene 97 (app. 1) Tracer 2SC (app. 2)	0	0
Untreated Check	0.5	0
LSD <sub>0.05</sub>	0.88	0.69

# 2008 Coragen Trial

## HRREC, Springfield, TN

Rating 5 – September 17 (Preharvest - 6 wks after 2nd application)

Treatment	% Worm Damage
Coragen 1.67SC (3.37 oz/A)	2.6
Coragen 1.67SC (5.06 oz/A)	1.6
Coragen 1.67SC (6.74 oz/A)	1.1
Local Standard: Orthene 97 (app. 1) Tracer 2SC (app. 2)	1.2
Untreated Check	8.1
LSD <sub>0.05</sub>	1.0

# 2008 Coragen Trial

## HRREC, Springfield, TN

### Total Yield/A and Quality Grade Index

Treatment	Total Yield (lbs/A)	Quality Grade Index (0-100)
Coragen 1.67SC (3.37 oz/A)	3946	57.7
Coragen 1.67SC (5.06 oz/A)	3782	56.6
Coragen 1.67SC (6.74 oz/A)	3827	56.9
Local Standard: Orthene 97 (app. 1) Tracer 2SC (app. 2)	3754	56.1
Untreated Check	3774	58.1
LSD <sub>0.05</sub>	310	23.8