

# Evaluation of Capture LFR and Brigadier 20SP Insecticides in Dark Tobacco

2008 – HRREC, Springfield, TN

- *Brigadier 20SP is a prepackaged mixture of bifenthrin (Capture) and imidacloprid (Admire Pro).*
- Dark tobacco trial:
  - Narrowleaf Madole LC set June 6
  - Treatments applied either in setter water (trt 7) or as 2 foliar sprays up until layby. Foliar applications made July 15 and August 8.
  - Foliar treatments applied using hollow cone (10X) nozzles at 17 gal/A
  - Trial was randomized complete block design with 4 replications
  - Plots 4 rows, 40 ft. long
  - Data collected: in-season evaluations of worm control (hornworm and budworm), dark-fired yield and quality
  - Tobacco harvested September 27, fire-cured

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Treatment (# of app.)	Rate/Acre	Application Timing
Untreated Check	-	-
Capture LFR 1.5EC (2)	6.8 oz/A	4 and 6 wks after transplanting
Capture LFR 1.5EC (2)	8.5 oz/A	4 and 6 wks after transplanting
Brigadier 20SP (2)	5.12 oz/A	4 and 6 wks after transplanting
Brigadier 20SP (2)	6.4 oz/A	4 and 6 wks after transplanting
Brigadier 20SP (2)	7.68 oz/A	4 and 6 wks after transplanting
Capture LFR (setter water) fb (2) foliar Brigadier applications	Capture 4 oz/A Brigadier 6 oz/A	At transplanting and 4 and 6 wks after transplanting

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2008 – HRREC, Springfield, TN – Rating 1, July 21 (1 wk after 1<sup>st</sup> foliar)

Treatment	# Worm Damaged Plants per plot (60)
Untreated Check	3.25
Capture LFR 1.5EC (6.8 oz/A)	3.75
Capture LFR 1.5EC (8.5 oz/A)	4.0
Brigadier 20SP (5.12 oz/A)	2.5
Brigadier 20SP (6.4 oz/A)	4.5
Brigadier 20SP (7.68 oz/A)	5.25
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	2.75
LSD <sub>0.05</sub>	2.04

# Evaluation of Capture LFR and Brigadier 20SP Insecticides in Dark Tobacco

2008 – HRREC, Springfield, TN – Rating 2, August 5 (3 wks after 1st foliar)

Treatment	# Worm Damaged Plants per plot (60)
Untreated Check	4.25
Capture LFR 1.5EC (6.8 oz/A)	2.0
Capture LFR 1.5EC (8.5 oz/A)	1.75
Brigadier 20SP (5.12 oz/A)	3.5
Brigadier 20SP (6.4 oz/A)	3.0
Brigadier 20SP (7.68 oz/A)	2.75
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	2.5
LSD <sub>0.05</sub>	2.7

# Evaluation of Capture LFR and Brigadier 20SP Insecticides in Dark Tobacco

2008 – HRREC, Springfield, TN – Rating 4, September 17 (Preharvest)

Treatment	% Worm Damage
Untreated Check	6.4
Capture LFR 1.5EC (6.8 oz/A)	1.8
Capture LFR 1.5EC (8.5 oz/A)	1.2
Brigadier 20SP (5.12 oz/A)	1.0
Brigadier 20SP (6.4 oz/A)	0.8
Brigadier 20SP (7.68 oz/A)	1.3
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	0.9
LSD <sub>0.05</sub>	1.0

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2008 – HRREC, Springfield, TN – Total Dark-Fired Yield and Quality Grade Index

Treatment	Total Yield (lbs/A)	Quality Grade Index (0-100)
Untreated Check	3552	60.5
Capture LFR 1.5EC (6.8 oz/A)	3798	71.3
Capture LFR 1.5EC (8.5 oz/A)	3929	56.7
Brigadier 20SP (5.12 oz/A)	3716	61.2
Brigadier 20SP (6.4 oz/A)	3698	59.2
Brigadier 20SP (7.68 oz/A)	3608	59.4
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	3814	71.4
LSD <sub>0.05</sub>	235	12.1