

Root Maggot Control

2008



Insects Covered

- Sugarbeet Root Maggot
- Wireworm
- Springtails
- Cutworm
- Lygus Bug



Sugarbeet Root Maggot Control Objectives

- Improve Root Maggot Control
- Eliminate Loss of Revenue due to SBRM
- Reduce Insecticide Cost Per Acre
- Monitor Crop Yield and Quality



Fly Emergence



- Cooler than normal temperatures can delay the peak as much as one week or more.
- The estimated time for peak fly emergence is June 20th - June 24th.



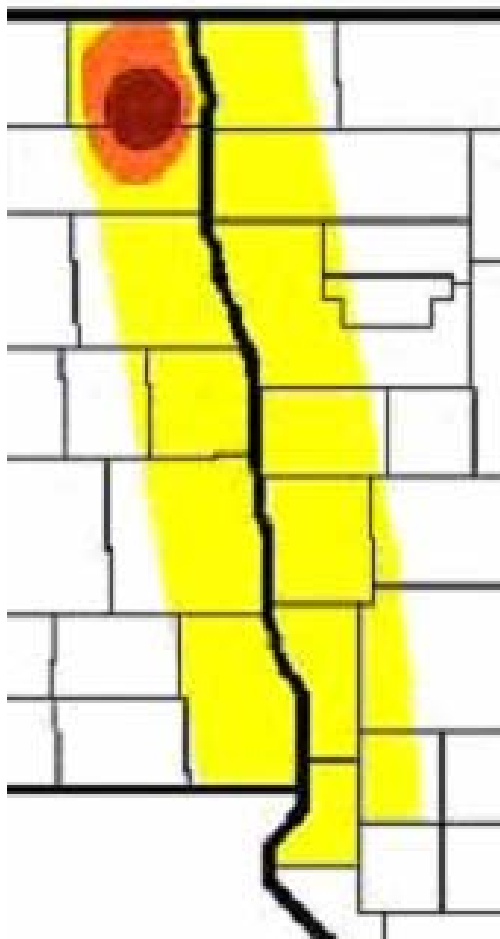
Factors that Affect Fly Emergence

- SBRM requires 600 Degree-Days to develop from larvae to adults.
- Wind, rain and cool wet weather can delay fly emergence and movement.

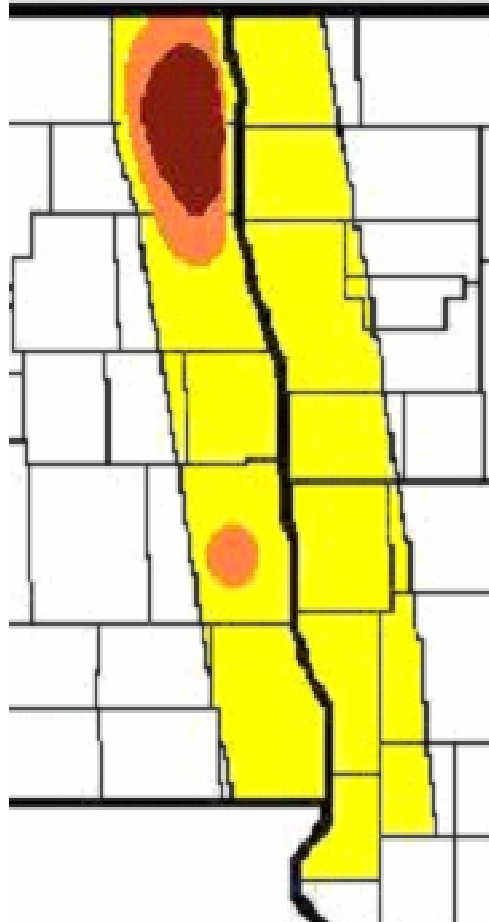


Fly Forecast Maps

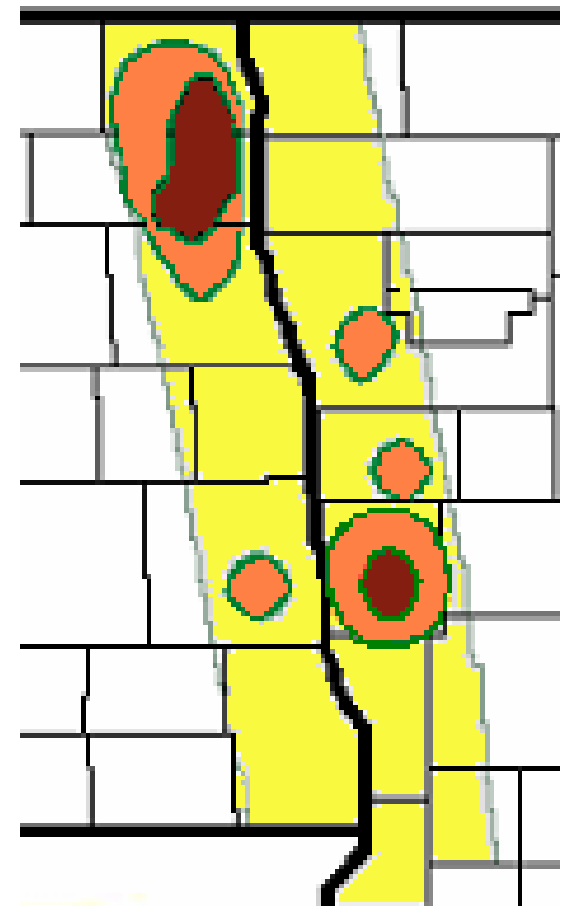
2004



2006



2007



First Application Control Practices

- Calibrate granular applicators
- Select the correct insecticide and rate

Insecticide	Recommended rates (product/ac) for expected population levels			Timing Options
	Low	Moderate	High	
Counter 15G RUP	5.9 lb.	10.0 lb.	11.9 lb.	Planting-time or Post
Mustang Max	4.3 oz	NA	NA	Planting time or post
Lorsban 15G RUP	6.7 lb.	10.0 lb.	13.4 lb.	Planting-time or Post
Temik 15G RUP	6.7 lb.	10.0 lb.	14.0 lb.	Planting-time & Post

RUP – Restricted Use Pesticide

Relative Insecticide Rate	Approximate Savings (\$/A)
Low Versus High	\$10
Low Versus Moderate	\$6.75
Moderate Versus High	\$3.50

Approximate Savings

Mustang vs moderate rate \$11.50 / acre
Mustang vs low rate \$4.30/ acre

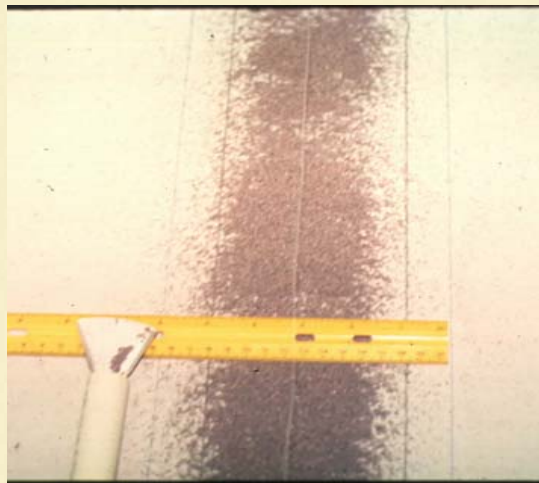


- Achieve uniform even flow of granules over the row

Gandy Band



Spoon



Modified In-furrow



- Apply a 3-5 inch band with a bander or spoon for best control.



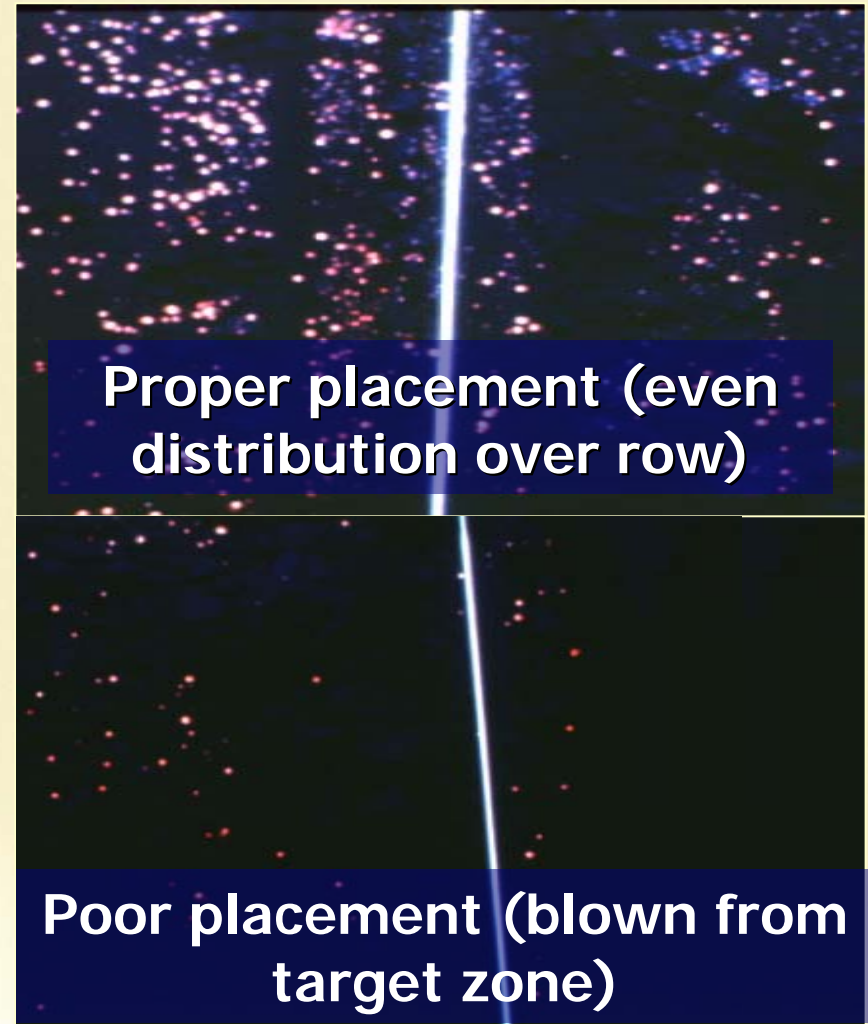
Effects of Counter on Stand when applied modified in-furrow

Treatment	Rate	Stand Count
Check		223
Counter 15G	10 lb per acre	189
Counter 15G	11.9 lb per acre	166



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Use Windshields on Planters



Control For High Pressure Areas

- When fly pressure is heavy, best results are achieved by a second application of granular insecticide.
- June 1st is the approximate date of the 2nd application.
- Other reasons for second application would be heavy rains, early planting, and insecticide application problems.



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Crust Busters

Incorporation
of 2nd
Application is
needed to
hold the
insecticide in
place.



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Other Options

- Lorsban 4E, One or more applications
- Applied with microrates
- Applied at peak fly emergence
- Oat Cover Crop



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