

Economic Risk based on Sugarbeet Root Maggot Fly Counts on Sticky-stake Traps

<u>Daily</u> Capture (flies per stake)	<u>Cumulative</u> Capture (flies per stake)	Risk Level*	Suggested Management Tactic**
0-25	0-50	Low	Monitor fields closely.
26-50	51-100	Slight	A postemergence insecticide may be needed if an at-plant insecticide was used at a low rate or no at-plant material was applied.
51-75	101-150	Moderate	A postemergence insecticide is probably justified, even if an at-plant insecticide was applied to the field at a moderate or high rate (a granular insecticide can be used if 7 or more days before expected peak fly activity; use a liquid insecticide if within 4 days of peak fly).
76-100	151-200	Elevated	Apply a postemergence LIQUID insecticide as soon as possible (repeat if <u>daily</u> fly counts exceed 100 per trap.).
101-150	201-300	High	Apply a postemergence LIQUID insecticide immediately (apply it in 2 split applications, 7 days apart, at a <u>moderate labeled rate</u>).
151+	301+	Extreme	Apply a postemergence LIQUID insecticide <u>at high labeled rate</u> immediately (consider a 2 nd application if daily counts resurge).

*Risk will vary based on actual peak fly activity date in a given field. Risk categories and corresponding management tactics in these tables are based on historical population levels and associated insecticide performance in research trials. Management suggestions are offered as general guidelines to assist growers with making informed management decisions; however, no guarantee can be made on whether economic return will be achieved from management tactics.

**Consult the “Sugarbeet Production Guide” (viewable on the internet at <http://www.sbreb.org/Production/production.htm>) for this year’s sugarbeet root maggot forecast and management recommendations. Contact your local agriculturist or Mark Boetel, NDSU Entomologist (701-231-7901), for assistance with specific pest management decisions.

Updates on root maggot development and expected peak fly activity dates will be released on NDSU’s Crop & Pest Report and the “Sugarbeet Growing Tips” program on several area radio stations (visit <http://www.ag.ndsu.nodak.edu/aginfo/sugar/radio.html> for a list of stations and broadcast scheduling).