

SUGARBEET ROOT MAGGOT FORECAST FOR THE 2022 GROWING SEASON

Mark A. Boetel, Professor
Jacob J. Rikhus, Research Specialist

Department of Entomology, North Dakota State University, Fargo, ND

The 2022 sugarbeet root maggot (SBRM) risk map for the Red River Valley appears in the figure below. In 2021, SBRM fly activity was greater than that recorded in the four previous years. Root maggot infestations in 2021 were the highest recorded in the past 15 years, and root injury surveys suggest that some areas could have even higher infestations in 2022.

Areas at highest risk of damaging SBRM infestations include rural Auburn, Buxton, Cavalier, Crystal, Drayton, Grand Forks, Oakwood, Reynolds, St. Thomas, and Thompson, ND, and Ada, Argyle, Climax, Crookston, East Grand Forks, and Kennedy, MN. Moderate risk is expected in areas bordering high-risk zones, as well as fields near Bathgate, Caledonia, Forest River, Hamilton, Hoople, Leroy, Merrifield, and Minto, ND, and near Angus, Borup, Donaldson, Euclid, Fisher, Sabin, Stephen, and Warren, MN. The rest of the area is at lower risk.

Proximity to previous-year beet fields where populations were high and/or control was unsatisfactory can increase risk. Areas where high fly activity occurred in 2021 should be monitored closely in 2022. Growers in high-risk areas should use an aggressive form of at-plant insecticide treatment (granular insecticide) and expect the need for a postemergence rescue insecticide application.

Those in moderate-risk areas using insecticidal seed treatments for at-plant protection should monitor fly activity levels closely in their area and be ready to apply additive protection if justified. Pay close attention to fly activity levels in late May through June to decide if postemergence treatment is needed.

NDSU Entomology will continue to inform growers regarding SBRM activity levels and hot spots each year through radio reports, the NDSU “Crop & Pest Report” and notification of sugar cooperative agricultural staff when appropriate. Root maggot fly counts for the current growing season and those from previous years can be viewed at <https://tinyurl.com/SBRM-FlyCounts>. <https://tinyurl.com/SBRM-FlyCounts>.

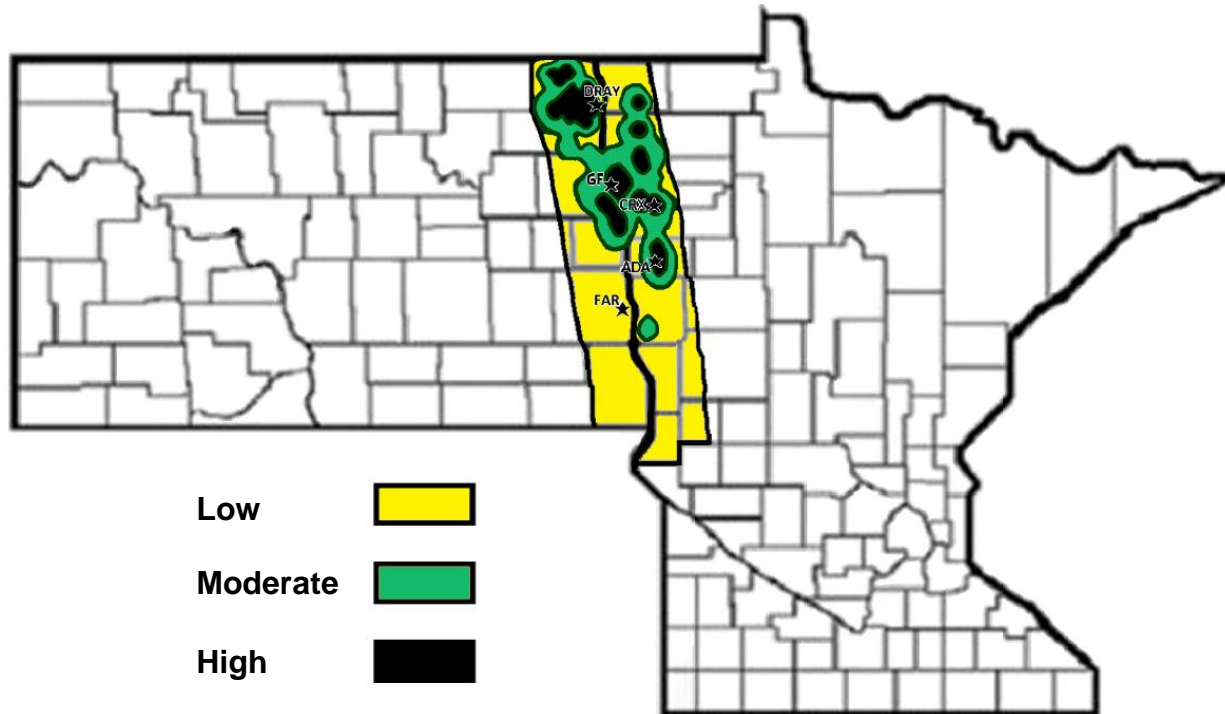


Fig. 1. Anticipated risk of SBRM fly activity and damaging larval infestations in the Red River Valley.

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