



MINISTRY OF AGRICULTURE, FOOD AND RURAL AFFAIRS

Corn Pest Evaluation Checklist for Targeted Use of Treated Seed

- Understanding the factors that influence soil insect populations can assist growers in identifying where insecticide seed treatments should be used. The targeted use of insecticide seed treatments supports an integrated pest management approach which takes into consideration both economic and environmental factors.
- Complete this Corn Pest Evaluation Checklist for Targeted Use of Treated Seed for your farm, considering each field and the conditions and factors that put it at risk of early season insect pests. If a field does not meet these risk factors, consider ordering and planting fungicide only seed in those low risk fields.
- See the [Guide to Early Season Field Crop Pests](#) and [other resources for further information](#) on pest identification, scouting techniques and IPM strategies.

Corn Field Risk Factors

Grubs (European chafer, Japanese beetle and/or June beetle) Risk Factors

Risk Factors	Things to Consider
<ul style="list-style-type: none"> • Sandy and silty soils, especially in fields with knolls and treelines and • Fields with frequent grass crop rotations (cereals, mixed forages, newly broken sod), following soybeans or adjacent to pastures, sod farms, parkland and golf courses • History of grub infestations (e.g. Highgate, Komoka, Tillsonburg, Zurich, south of Barrie to Uxbridge) 	<p>There have been no reports of grub damage in corn fields east of Kingston.</p> <p>% of your fields at risk:_____ (See Note below)</p>

Wireworm Risk Factors

Risk Factors	Things to Consider
<ul style="list-style-type: none"> • Sandy and silty fields with grass crop rotations (cereals, mixed forages, grassy weeds), canola or veg. crops (carrots, sugar beets and potatoes) • Sandy and silty fields with newly broken sod, pasture fields in the last 2 years or summer fallow. • History of wireworm infestations 	<p>% of your fields at risk:_____ (See Note below)</p>

Seedcorn Maggot Risk Factors

Risk Factors	Things to Consider
<ul style="list-style-type: none"> • Fields with high organic matter including recently applied manure in the spring, or pre-plant plowed under green residue (e.g. broken sod, hay fields, cover crops or fields with significant pre-plant weed pressure) • History of seedcorn maggot infestations 	<p>% of your fields at risk:_____ (See Note below)</p>

Black Cutworm Risk Factors

Risk Factors	Things to Consider
<ul style="list-style-type: none"> Higher frequency in fields near Lake Erie that have pre-plant weeds listed below Fields with pre-plant annual weeds (e.g. chickweed, mustards, lamb's-quarters) or cover crops History of black cutworm infestations 	Bt corn hybrids containing Cry1F are the best control option for this pest % of your fields at risk: _____ (See Note below)

Corn Flea Beetle Risk Factors

Risk Factors	Things to Consider
<ul style="list-style-type: none"> Field planted to Stewart's wilt susceptible seed corn inbreds, sweet corn varieties or field corn hybrids (rare) 	% of your fields at risk: _____ (See Note below)

Corn Rootworm Risk Factors

Risk Factors	Things to Consider
<ul style="list-style-type: none"> Fields with heavier soil types (clay, clay loam etc) and continuous corn on corn rotation 	Bt corn rootworm hybrids are the best control option for this pest in moderate to high infestations % of your fields at risk: _____ (See Note below)

Note: Conditions that delay crop emergence, i.e. early planted, cool soils, poor drainage etc. will increase the risk of injury from the above pests. On these higher risk acres give additional consideration to use of an insecticide seed treatment.

There is likely some overlap of pests within the same field, i.e. grub and wireworm have some similar risk factors. Avoid counting the same acreage twice in these totals.

% of Corn Acres Requiring Insecticide Seed Treatment Based on Insect Risks _____

% of Corn Acres that Can be Planted with a Fungicide Only Seed Treatment _____

The information provided in this checklist is provided for informational purposes only, and growers must make their own decisions about crop protection choices.

Resources

- [Corn Pest Evaluation Checklist for Targeted Use of Treated Seed](#)
- [Soybean Pest Evaluation Checklist for Targeted Use of Treated Seed](#)
- [Guide to Early Season Field Crop Pests](#)
- [Corn Hybrids Available in Ontario with a Fungicide Only Seed Treatment Option for the 2015 Season](#)
- [Scouting for Soil Insect Pests in Field Crops](#)
- [Do You Need to Use Insecticide-Treated Corn and Soybean Seed](#)

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