



MINISTRY OF AGRICULTURE, FOOD AND RURAL AFFAIRS

**Soybean 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 Soybean 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.

**Soybean Field Risk Factors**

**Grubs (Japanese beetle and/or June beetle) Risk Factors**

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

**Seedcorn Maggot Risk Factors**

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

**Bean Leaf Beetle Risk Factors**

Risk Factors	Things to Consider
<ul style="list-style-type: none"> <li>• Earliest planted fields in the 5 southern counties (Essex, Chatham-Kent, Elgin, Lambton, Middlesex) <b>and</b> has a history of early seedling injury from bean leaf beetle</li> <li>• Fields adjacent to alfalfa fields</li> </ul>	<p>Bean leaf beetles are not yet well established in Eastern Ontario</p> <p><b>% of your fields at risk:</b> _____</p> <p>(See <a href="#">Note</a> below)</p>

**Soybean Aphid Risk Factors**

Risk Factors	Things to Consider
<ul style="list-style-type: none"> <li>Fields with a history of heavy infestations during the early V stages, resulting in aphids reaching threshold immediately at R1 stage</li> </ul>	<p>Fields in Eastern Ontario are more likely to experience early season soybean aphid infestations.</p> <p>The recommended method of control by Entomologists across North America is the use of foliar insecticides when threshold has been reached during the R1 to R5 crop stages. Seed treatments only provide protection for the very early V stages of soybeans, when soybean aphids rarely invade soybeans in Ontario.</p> <p><b>% of your fields at risk:</b> _____ (See <a href="#">Note</a> below)</p>

**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. grubs and bean leaf beetle could have some similar risk factors. Avoid counting the same acreage twice in these totals.

**% of Soybean Acres Requiring Insecticide Seed Treatment Based on Insect Risks:** \_\_\_\_\_

**% of Soybean 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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