2018
NEONICS 101

What you need to know to be compliant on your farm.

What are your options for planting Neonic-treated seed in 2018?

Do not plant any neonicotinoid-treated corn and/or soybeans

Purchase seed treated with fungicides only or, for corn, fungicides plus a diamide

A great option from DEKALB® is Acceleron® Seed Applied Solutions for corn plus Dupont™ Lumivia® Seed Treatment (fungicides plus an insecticide)†. See below for more details on Lumivia® insecticide seed treatment.

DuPont™ Lumivia®

insecticide seed treatment

Lumivia® provides a novel mode of action for corn

- Lumivia® is the first insecticide seed treatment using Chlorantraniliprole, the active ingredient belonging to a new class of chemistry called anthranilic diamides.
- As a seed treatment, Lumivia® is fast acting; within minutes of ingestion, chlorantraniliprole causes parallysis of target pests, preventing feeding, and eventually causing death.

Lumivia® offers fast-acting protection up to the 4-5 leaf stage against early-season insect pests such as wireworms, cut-worms, grubs, seed corn maggots, and army worms

- Lumivia® quickly moves systemically upward throughout the plant from seed germination to V5 seedling stage, delivering protection to new growth.

Lumivia® provides uniform, healthy stands for maximum yield potential

Lumivia® has an excellent environmental profile and seed safety

- When used according to label directions, Lumivia™ has minimal impact on benefitial insects and pollinators, as well as other non-target organisms.
- This selectivity, combined with robust pest control makes Lumivia® a strong tool for Integrated Pest Management (IPM) programs.

Information on DuPont™ Lumivia® insecticide seed treatment provided by E.I. du Pont de Nemours and Company.

Plant neonicotinoid-treated corn and/or soybeans

Complete the following and provide appropriate paperwork* to your seed dealer:

- Complete the Integrated Pest Management Course (IPM) offered by Ridgetown College. Your certificate number will be required to purchase neonic-treated corn and/or soybeans
- Conduct pest assessments and complete required forms (see last page for more details):
  - **Soil Inspection Pest Assessment** (prior to planting) performed by a professional pest advisor**.

    Don't know where to start? The DEKALB Agronomy team recommends starting with:
    - Fields with a history of pests
    - Fields with high weed pressure early in the season
    - Fields that you are able to plant early each year
    - Field edges in the fall
    - Fields with cover crops
  - A **Crop Inspection Pest Assessment** performed by a professional pest advisor**.
- Sign an IPM Written Declaration Form stating that you have considered IPM principles

Are you unsure you have a need for neonic treated seed in your fields? The DEKALB Agronomy team recommends scouting areas with:

- Light soils
- Short rotation intervals
- Lower average yields
- Fields that get a manure application
- Fields with cover crops

* Guidelines and forms can be found at Ontario.ca/neonics
** For the 2018 season, a professional pest advisor can be any perosn that is CCA accredited

†Acceleron® Seed Applied Solutions for corn plus DuPont™ Lumivia® Seed Treatment (fungicides plus an insecticide) is a combination of four separate individually-registered products, which together contain the active ingredients metalaxyl, prothioconazole, fluoxastrobin and chlorantraniliprole.

Conducting a Soil Pest Assessment

Divide the total acres you farm into plots no larger than 100 acres; these can be individual fields smaller than 100 acres, or portions of fields larger than 100 acres. Choose a minimum of 5 locations for each 100-acre section that are separated by at least 10 meters. Scout for pests in each of the 5 locations using one of the methods below:

1. Digging Scouting Technique – for wireworms and grubs
   - Dig a hole approximately 30 cm by 30 cm and 7 to 10 cm deep
   - Sift through the soil checking for grubs or wireworms
   - Record the number of grubs or wireworms in each hole

2. Bait Trap Scouting Technique – for wireworms
   - Dig a hole approximately 15 cm by 15 cm and 15 cm deep
   - Place about 1 cup of bait in the hole; possible materials for bait are:
     - 1 cup of flour, or
     - 1 cup of equal parts of soaked untreated corn seed and untreated wheat seed, or
     - 1 cup of freshly cut potatoes
   - Fill the hole with soil, breaking any clumps, to cover the bait. Mound the soil to prevent standing water and mark with a flag or marker.
   - Dig out the bait seven to 10 days later to observe and count any wireworms

Calculate the average number of grubs or wireworms in the plot to compare to pest thresholds:
- The average number of grubs observed in the five scouting locations is 2 or greater.
- The average number of wireworms observed in the five scouting locations is 1 or greater.

Other Notes on Pest Assessment:

- During the 2017 season, a farmer was able to complete their own Pest Assessment for their fields, providing they completed IPM training and provided their certificate number and confirmed they had considered the principles when purchasing neonic-treated seed. **As of August 31, 2017, a professional pest advisor will be required to conduct the soil pest assessment and prepare the report. This requirement will be phased in over time on a geographic basis.** See the MOECC website for the list of counties and phase-in dates https://www.ontario.ca/laws/regulation/r15139 (located at the bottom of the page)

- IPM is an acronym you probably already know (it stands for Integrated Pest Management); but in this context is applies to a particular Government IPM training course that farmers must take in order to conduct pest assessments. As of June 1, 2017 the course costs $63.36.

- Farmers will be able to take training in a classroom at various locations or online through the University of Guelph, Ridgetown Campus. Farmers do not need to take IPM training if they are a farm owner who hires people to purchase and plant seeds. In this case, the person they hire will need to take the training. An IPM trained person can supervise up to seven people who are planting seeds on the farm. Find out more at https://www.ontario.ca/page/neonicotinoid-regulations-growers#section-9

Consult DEKALB.ca/neonics or your local DEKALB Agronomist for more information.

For information about the training and to register please see http://www.ipmcertified.ca or call Ridgetown Campus at:

Integrated Pest Management (IPM) Course for Corn and Soybeans
University of Guelph Ridgetown Campus - Brien House
120 Main St. East
Ridgetown ON Canada N0P 2C0
rccp@uoguelph.ca
1-866-225-9020

The Ministry of the Environment and Climate Change has published resources online. There is also a toll free number and an email address to ask questions. We encourage you to ask your questions so that they understand the scope of this issue and the impact on the farmers of Ontario.

Guidelines and Forms
www.ontario.ca/neonics
www.ontario.ca/pollinators

MOECC: 1-800-565-4923 or
picemail.moe@ontario.ca
OMAFRA: Tel: 1-877-424-1300 or
ag.info.omafra@ontario.ca