**FIVE REASONS WE SUPPORT RESTRICTIONS ON NEONICS**

1. **Neonics kill bees**
   In 2014 Ontario beekeepers reported overwinter losses of 58 per cent, more than three times the average for all other provinces that winter.¹ Health Canada’s Pest Management Regulatory Agency has determined that neonicotinoid pesticides are a contributing factor to bee mortalities.² Scientists estimate that some neonics are 5,000 to 10,000 times more toxic to bees than DDT, in terms of acute effects alone.³ Ontario’s native wild bees are also at risk.⁴ Many of our wild bumblebees — even those that were once common — are in steep decline. Declining pollinator health has an impact on food production and food security.

2. **At sub-lethal levels, neonics can harm bees and many other species**
   Long-term (chronic) exposure to neonicotinoids even at low levels of less than 3 parts per billion are associated with impaired navigation, learning, memory, food collection, resistance to disease and fertility. Based on a systematic review of more than 1,000 published scientific studies (including industry-sponsored ones), the international Task Force on Systemic Pesticides concluded that neonics can harm terrestrial and aquatic invertebrates and birds, as well as insect pollinators: “Overall, a compelling body of evidence has accumulated that clearly demonstrates that the wide-scale use of these persistent, water-soluble chemicals is having widespread, chronic impacts upon global biodiversity and is likely to be having major negative effects on ecosystem services such as pollination that are vital to food security and sustainable development.”⁵

3. **Neonics are a persistent environmental contaminant**
   Neonics persist in the environment for months, or even years,⁶ resulting in near-continuous and increasing exposure from one agricultural season to the next. They are also water-soluble. These two characteristics point to the potential for large-scale contamination of soils, sediments, ground water and surface water, as well as vegetation. Researchers in Quebec identified neonic residues in 100 per cent of 25 water samples from puddles in fields where neonic-treated corn seeds were planted, at levels that could harm bees drinking from the puddles.⁷
4. Current use of neonic seed treatments is inconsistent with recommended farm practices

Integrated Pest Management (IPM), as recommended by OMAFRA, requires that pest-control strategies target identified pest threats, with a view to minimizing the adverse effects of pesticides on the environment. Instead, neonic seed treatments have become indiscriminate and routine, whether or not a pest problem is present. In Ontario, virtually all corn and 60 per cent of soybean seeds are treated with neonic.

This means close to four million acres planted with neonic-treated seeds. A recent U.S. Environmental Protection Agency study of neonic seed treatments in soybean production concluded that they were of little or no overall benefit to overall crop yield in most situations.

5. Other jurisdictions have banned neonic to protect pollinators

After a thorough review by the European Food Safety Authority, the European Commission placed a two-year moratorium on certain agricultural uses of neonic to protect pollinators. European Commission countries nevertheless experienced record yields of grain corn last year, the first year the moratorium was in place.

Despite the strong scientific evidence of harm, North American governments have been slower to act. We welcome Ontario’s leadership on this issue. New regulatory restrictions to reduce the use of neonic-tREATED corn and soybean seeds in Ontario by 80 per cent are necessary to protect pollinators and the environment.

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5 WIA.
6 Ibid.