

Abstract

The bachelor thesis is focused on pesticides and their impact on the environment. Plant protection products must undergo a comprehensive assessment involving the impact on nontarget organisms. Negative effects of pesticides are not only assessed in humans and other vertebrates but also in invertebrates. Pollinators that play a vital role in ecosystems are an important group for evaluation. This thesis specializes in a group of pesticides called neonicotinoids, some of which are currently banned in some countries. This thesis mentions array of neonicotinoids, their toxicity and effects on pollinators that were observed. Reassessment is crucial in order to make a comprehensive picture of whether the ban was correct.

Keywords: pesticides, neonicotinoids, pollinators, honeybees, bumblebees, colony collapse disorder