

COMPLIANCE OF BEE PRODUCTS PICKING LAVENDER AND SAGE, REGARDING PESTICIDE RESIDUES

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Abstract

The aim of this research was to evaluate the compliance of pesticide residues in bee products (pollen, honey) collected from lavender and sage plantations. The researches were carried out on bee families being harvested in the lavender (Ungheni district) and sage (Glodeni district) plantations, from which samples of bee products were taken (lump pollen and portions of honeycombs with honey) from 5 families of bees from each collection. The pollen and honey samples taken were tested in an accredited Laboratory for the content of pesticide residues more common in our country. The results of the research demonstrated that, in the pollen and honey samples, taken from the bee families located at the lavender picking, no detectable concentrations of residues of any of the 63 pesticides were detected (Acetamipirid, Chlothianidin, Imidacloprid, Thiachloprid, Tiametoxam, Bifentrin, Ciflutrin, Cipermetrin, Deltametrin, Fenvalerat, Lambda-Ghalotrin, Tau-fluvalinat, Clorpirifos, Endosulfan, HCH izomeri, Diazinon, Diclorvos, Dimetoat, Ethion, Fenitrotrion, Fosalon, Malation, Permetrin, Pirimitos-metil, Protenotos, Fenixicarb, Fipronil, Indoxacarb, Pirinicarb, Azoxistrobin, Bitertanol, Bromuconazol, Ciproconazol, Difenconazol, Diniconazol, Epoxiconazol, Flutriafol, Penconazol, Picoxistrobin, Propiconazol, Tebuconazol, Tiadimeton, Boscalid, Kresoxim-metil, Benzanton, Captan NIM, Ciprodinil, Clorotalonil, Dimetomorf, Folpet NM, Iprodion, Procimidon, Spiroxamină, Vindozolin, Pirimetanil, Haloxifop, Glifosat, Pendimetalin, Prometrin, Trifluralin, Lufenuron, Piridaben, Propargit). In the pollen and honey samples, taken from the bee families located at the sage harvest, no detectable concentrations of residues of any of the 63 tested pesticides were detected. Therefore, it was concluded that the bee products (pollen and honey), obtained from the bee families located at the lavender and sage harvests in the researched fields, are ecologically clean (bio) in terms of the content of pesticide residues, and the sites respectively of lavender and sage are suitable for the practice of organic beekeeping.

Key words: *pollen, honey, lavender, sage, residues, pesticides*