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Short-range transport and deposition of volatilised pesticides

By Gunnar Fent

Shaker Verlag Apr 2005, 2005. Taschenbuch. Book Condition: Neu. 210x149x14 mm. Neuware - Plant protection products are widely used in agriculture. They are needed by farmers to protect their crops from attacks of pests, fungal diseases and weeds. A further improved understanding of the behaviour of these products in the environment also helps to increase the safety of the populations of non target organisms in off crop areas close to treated fields. Volatilisation, short-range transport and deposition of pesticides from air had recently been identified as a potentially relevant entry path into the habitats of aquatic and terrestrial nontarget organisms. The German Federal Consumer Protection and Food Safety Agency (BVL, formerly BBA) published in 2002 a guideline for the assessment of volatilisation, short-range transport and deposition of plant protection products from air. It was intended to include this path into the exposure assessment for the authorisation of plant protection products. The guideline describes a tiered assessment consisting of model calculations and field experiments. Both assessment methods, model calculations as well as field experiments, showed some uncertainties in their predicted estimated concentrations. This was due to the fact that volatilisation, transport and deposition of volatilised pesticides are a highly complex processes...



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