



Development and validation of methods for the estimation of spray drift deposition on surface water

Theme: Risk assessment procedures for pesticide registration

BO-06-010-003

Problem

Risk assessment methodologies are to be developed, validated, reviewed or improved for the protection goal: risk to aquatic organisms. A major input route for the risk to aquatic organisms is spray drift. Differences in spray drift data and the risk to the surface water do occur between countries.

Approach

The research objective is to harmonize information on drift deposition by analyzing spray drift data and identifying the main differences.

- The results from spray drift field measurements are collected in a spray drift database to come to generalized spray drift curves to be used in the authorization procedures of pesticides
- International spray drift data are collected and compared with the Dutch spray drift data to identify sources of differences
- Harmonization of spray drift data is prepared in international working groups (ISO)



Results

- New Dutch standard spray drift deposition curves in different crop situations are presented
- Differences occur in the reference spray drift deposition data between EU member states

Future use in risk assessment

The results can be directly used for the development of a higher tier approach for aquatic risk assessment in the registration procedure for pesticides.

Communication 2008

- Results are communicated at international conferences (DPG, Febr. Germany; NVTL, Febr. Neth.), working groups (ISO, April, Paris) and in scientific articles and reports
- The set-up, progress and results are being discussed in the Dutch work group 'Exposure aquatic organisms'

Jan Huijsmans, Jan van de Zande & Henk Jan Holterman

Contact: Jan Huijsmans
Plant Research International
P.O. Box 16, 6700 AA Wageningen
T +31 317 48 06 85 - F +31 317 42 31 10
jan.huijsmans@wur.nl - www.pri.wur.nl