

# Knowledge development on spray drift deposition and the effect on non-target plants

Theme: Risk assessment procedures for registration of plant protection products BO-06-010-008

## Problem

Risk methodologies are to be developed, validated, reviewed or improved for the protection goal: non-target plants. Improved estimates of spray drift deposition onto non-target plants and the effects on the plants are necessary to be evaluated for authorization of safe use.

## Approach

Knowledge development is needed to better understand the relation between short range spray drift deposition, the effect relations and the protection of non-target plants in the evaluation zone next to the field. Important elements are:

- Effect of the place and size of the non-target evaluation zone on spray drift deposition level at that evaluation zone
- Effect of spray application and crop situations on spray drift deposition at the evaluation zone
- Inventory of effect relations on non-target plants at the evaluation zone
- Inventory of the potential development of higher tier pesticide registration procedures for non-target plants



## Results

- Discussion with stakeholders on relevance of the definition of size and place of the non-target evaluation zone next to the field in the authorization procedure
- Inventory of international data on field edge and short distance spray drift deposition related to non-target plant protection

## Future use in risk assessment

Results can be directly used for the development of a higher tier approach for non-target terrestrial plants in the registration procedure for pesticides.

Jan Huijsmans, Jan van de Zande, Marleen Riemens, Corné Kempenaar & Henk Jan Holterman

Contact: Jan Huijsmans  
Plant Research International  
P.O. Box 16, 6700 AA Wageningen, the Netherlands  
T +31 317 48 06 85 - F +31 317 48 10 47  
jan.huijsmans@wur.nl - www.pri.wur.nl

*This project is part of the BO research programme Plant Health of the Ministry of Agriculture, Nature and Food Quality*