

# Risk assessment procedure for effects of atmospheric deposition on nature areas

Theme: Risk assessment procedures for pesticide registration

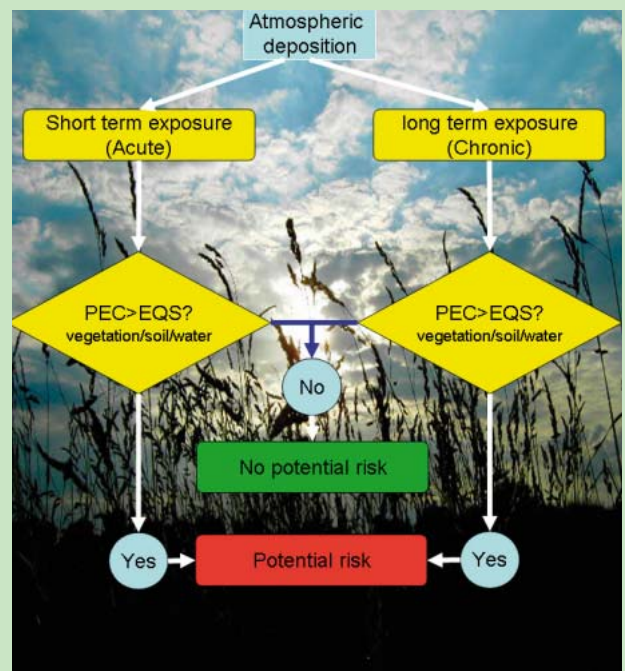
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## Problem

The current risk assessment in the NL registration procedure for pesticides is focussed on the fate and effects at the edge-of-field scale. After application, a substantial part of the dosage may volatilise and be transported via the air over greater distances and deposited on nature conservation areas. At present no procedure exists to evaluate the risks of exposure to pesticides due to atmospheric deposition on these areas.

## Approach

Guidance from the Dutch Working Group 'Persistent Plant Protection Products in Soil' as well as guidance from DG-Sanco (EU) were used in the preparation of a proposal for the risk assessment of effects of atmospheric deposition on nature conservation areas. The predicted environmental exposure concentrations (PEC) are compared to concentrations corresponding to the Environmental Quality Standard (EQS).



Proposal for a risk assessment scheme.

## Results

- The acute risk as well as the chronic risk to exposure of pesticides in nature conservation areas can be assessed
- The procedure enables to take different surface types in the non-target area into account

## Future use in risk assessment

The scheme is being developed to enable the assessment of the effects of atmospheric deposition in the NL registration procedure of plant protection products.

## Communication 2008

The proposal scheme will be presented in the Dutch Working Group 'Exposure Aquatic organisms' in autumn 2008.



The nature conservation area 'Fochteloer veen'.

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