

Operator Exposure during Application of Herbicides Applied through Weed Wipers

Can you help us understand pesticide exposures during applications using vehicle mounted weed wipers? We need volunteers to have their exposures measured while making applications.

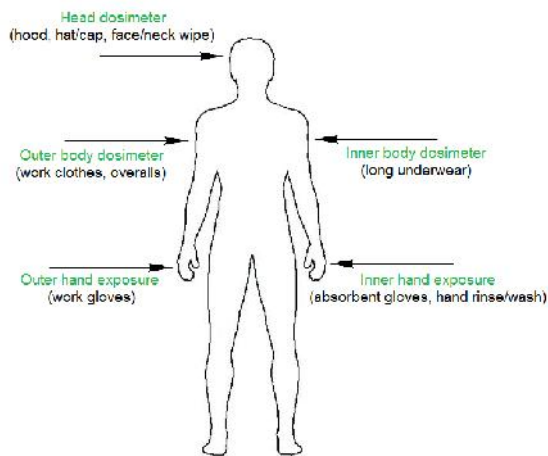
Background: Plant protection products (PPP) must have HSE authorisation before they can be used. This requires an assessment of potential health risks for the operator supported by exposure data, usually provided by an exposure study or from regulatory exposure models.

The current regulatory guidance on exposure assessment for PPPs identifies data gaps which include weed wiper exposure scenarios. Without this specific exposure data precautionary approaches are taken, but it is not clear if the appropriate standard of protection is provided. This may mean that potentially acceptable uses are not allowed or are restricted. HSE needs more information to understand these exposures.

This work will inform HSE's regulatory decisions in the authorisation of PPPs for uses involving weed wipers.

Aim: The aim of this work is to collect robust operator exposure data for the application of herbicides with weed wipers.

Method: The project team will use standard procedures for studies for occupational exposure to agricultural pesticides. They will come to the site of application and take observations and measurements whilst the volunteer operator applies herbicides using a vehicle mounted weed wiper over a typical working day. This will include the following:



Types of Dosimeters

- Sample skin exposure using outer and inner clothing, hand washes and face/neck wipes (new work clothes provided)
- Collect urine samples for biological monitoring (optional)
- Gather observations of actual working practices

Ethics approval will be obtained to cover all aspects of the study. The findings will remain anonymised and reported at/in a scientific conference and journal. A short article will be written for a trade paper or similar.

Benefits: Personal exposure assessment of operators/members
Identification of potential exposure risks of operators/members
Involvement with, and understanding of, potential changes to PPP assessment
Engagement with the UK's national regulator for PPPs
Knowledge of any changes that may affect operators/members

If you can help please contact Paul Johnson T: 0203 028 2146 E: paul.johnson@hse.gov.uk