

3rd EU Modelling Workshop Catania 2004

Resolutions

1. Estimation of pesticide input parameters for regulatory modelling

Agreement that aged sorption occurs (and is not necessarily related to particular degradation kinetics), but disagreement on speed, extent, and mechanisms.

Guidance required for metabolite kinetic rate parameterisation in a system with a quickly degrading parent.

Guidance needed on when to generate and how to interpret metabolite degradation rates and endpoints from studies in which (a) parent is applied or (b) the metabolite itself is applied.

Clearer guidance needed on which method (in FOCUS kinetics report) should be used to determine degradation rate constants from sediment water studies for modelling.

2. Groundwater models and scenarios

It is not possible to measure directly water and pesticide fluxes in field studies reliably using current technology.

It is proposed that in principle in a tiered approach the earlier steps should be more conservative (and require less effort) than later steps.

GIS modeling

methods must depend on quality and existence of data
offers opportunities to evaluate the representativeness of pre-defined scenarios

offers opportunities to investigate the variability of the leaching pattern at different scales

It is suggested that some FOCUS groundwater scenarios (i.e. Porto, Piacenza) should be re-evaluated.

Tiered assessment schemes

Guidance required on the interaction of FOCUS scenarios and the development of national scenarios

3. Surface water models and scenarios

It is suggested that the relevance of the FOCUS surface scenario D2 should be re-evaluated.

Uncertainty of peak concentrations should be taken into consideration in step 4
Important factors are weather and application timing and catchment characteristics.

Need for guidance for Step 4 surface water.

FUTURE WORKSHOPS

Christophe Mouvet and Igor Dubus from BRGM, France kindly agreed to host the next workshop. No provisional date can be given and a decision on the topic area for the next workshop will be made in 2005. Invitations will be sent out to individuals.