

2nd European Modelling Workshop

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Lisbon

Summary and Recommendations

1. FOCUS scenarios provide a harmonised approach to assess pesticide leaching to groundwater. First experience shows that there is scope for discussion on:
 - Model selection (Which scientific criteria?)
 - How to deal with differences between models (e.g. PELMO < 0.1; PEARL > 0.1)?
 - Acceptable number of scenarios > 0.1 µg/L
 - How to deal with differences between model parameterisations (e.g. dispersion) ?

2. More guidance needed on how to derive and select degradation and sorption parameters
 - Averaging method (e.g. averaging DT50 values and degradation rates gives different results!!) (FOCUS kinetics work group)
 - How to deal with parameter variability ?
 - How to derive degradation parameters for parent compound and metabolites (FOCUS kinetics work group) ?
 - Use of lab or field data (FOCUS kinetics work group) ?

3. National assessments

Convergence in conceptual thinking ?

but in practice still large discrepancies in

- model selection
- scenarios
- model parameterisation
- assessment endpoints

FOCUS scenarios should be considered at the national level as far as possible. Aim at reducing differences in model selection, parameterisation, endpoints.

National scenarios

- Use of relevant FOCUS scenarios
- Development of a small number of national scenarios
- Large number of geographically distributed scenarios
 - identification of vulnerable areas and of determining factors
 - % $PEC_{GW} > 0.1$, frequency distributions

Problem: Which percentage of exceedance is acceptable?

4. If national standard scenarios fail:

- Lysimeter studies
- Field leaching studies
- Specific scenarios
- Refinement of input parameters
- Monitoring
- Approval only in non-vulnerable areas

5. Consider behaviour at > 1 m depth at higher tier
6. Information on depth to groundwater is valuable, but type of aquifer, intended usage of the water are also important
7. Need for acceptable regulatory methodologies for Southern Europe
8. Guidance for groundwater monitoring
9. Guidance for field leaching studies