

First European Modelling Workshop
Pesticides in Surface Waters
Cranfield University at Silsoe, 18-19 June 2001

RESOLUTIONS

1. FOCUS s/w scenario group should be congratulated – They have come a very long way.
2. Need to establish a closer link between exposure and effects assessment. Ecotoxicological assessment must be in line with typical exposure patterns.
3. Need to identify reasons for the discrepancy between Ganzelmeier drift values and data from Dutch experiments. Discuss possible implications for pesticide regulation. Evaluate all existing datasets (e.g. Swedish data, UK, AGDRIFT).
4. Investigate for more compounds whether drainage and runoff result in larger PEC values than drift using FOCUS surface water scenarios. Are these results consistent with experimental evidence? (FOCUS s/w scenario group)
5. Compare results for FOCUS steps 1, 2 and 3 with experimental data obtained at different scales (water-sediment studies, mesocosms etc.). Reality check by FOCUS s/w scenario group. Detailed studies outside remit of FOCUS.

6. Need to check the order of concentrations predicted by FOCUS step 1, 2 and 3 for more compounds. (FOCUS s/w scenario group)
7. Establish tools and/or recommendations for estimation of parameters required for FOCUS steps 1, 2 and 3. (FOCUS s/w scenario group), e.g. kinetic evaluation of water-sediment studies. Possibly covered by new FOCUS initiative. May need to consider specific tests (OECD TG 308 should help).
8. Need to assess whether photolysis is relevant in real water bodies and decide if and how this should be included in surface water assessments. Guidance on studies relevant to real conditions required.
9. Concern was expressed about differences in parameters between groundwater + surface water scenarios (esp. interception factors). Possibly FOCUS version control group.
10. Need to consider upstream catchment characteristics
 - What is the upper scale limit for these field models?
 - What assumptions should be put in for treated areas etc.?
(consistency with Step 4)
11. Should dispersion concepts in FOCUS models be harmonised?

12. More discussion needed in interpretation of lysimeter studies in context of pesticide registration.
13. Check Italian field data and step 3 assessments for rice paddies against MEDRICE proposals.
14. Develop adequate sampling strategies for rice in order to upscale results from the field to catchment level.
15. Review information on attenuation of concentration in ditches.
16. Consider effects of riparian and aquatic vegetation on concentration of pesticides in surface waters.

FUTURE WORKSHOPS

Carlos Pais from IHERA, Portugal kindly agreed to host the next workshop. The provisional date is 3.-4. June 2002. A decision on the topic area for the next workshop will be made at the beginning of 2002 and invitations will be sent out to individuals working in this area shortly afterwards.