



Bundesamt für
Verbraucherschutz und
Lebensmittelsicherheit



New Procedure for Approving Aerial Uses of Pesticides in Germany Feedback from BVL

Outline

- **Introduction**
- **Regulatory Framework**
- **Environmental Risk Assessment**
- **Toxicological Risk Assessment**
- **Special Risk Mitigation**
- **Conclusions**

Introduction

- **Aerial Application is a special technique**
- **No specific EU-wide regulation until 2011**
- **New regulation in EU**
- **Challenge for harmonisation**

Regulatory Framework

- **New pesticide regulation entered into force in 2011**
 - **1107/2009/EC – Approval actives/Authorisation products,**
 - **Safety phrases are listed in EU (No) 547/2011,**
 - **Sustainable use directive 2009/128/EC**
 - **framework for Community action**
 - **implementation into national plant protection acts**
 - **aerial uses**

Sustainable use directive

- **No aerial uses permitted**
- **Exceptions possible:**
 - **no viable alternatives**
 - **clear advantages regarding human health or the environment**
 - **best available technology to reduce drift**
 - **special risk assessment for aerial application**
- **Implementation in Germany**
 - **forests**
 - **steep slope vineyards**
 - **only helicopters with directly mounted spraying equipment and drift-reducing nozzles**

Aerial Application - Forests



Aerial Application – sloped vineyards



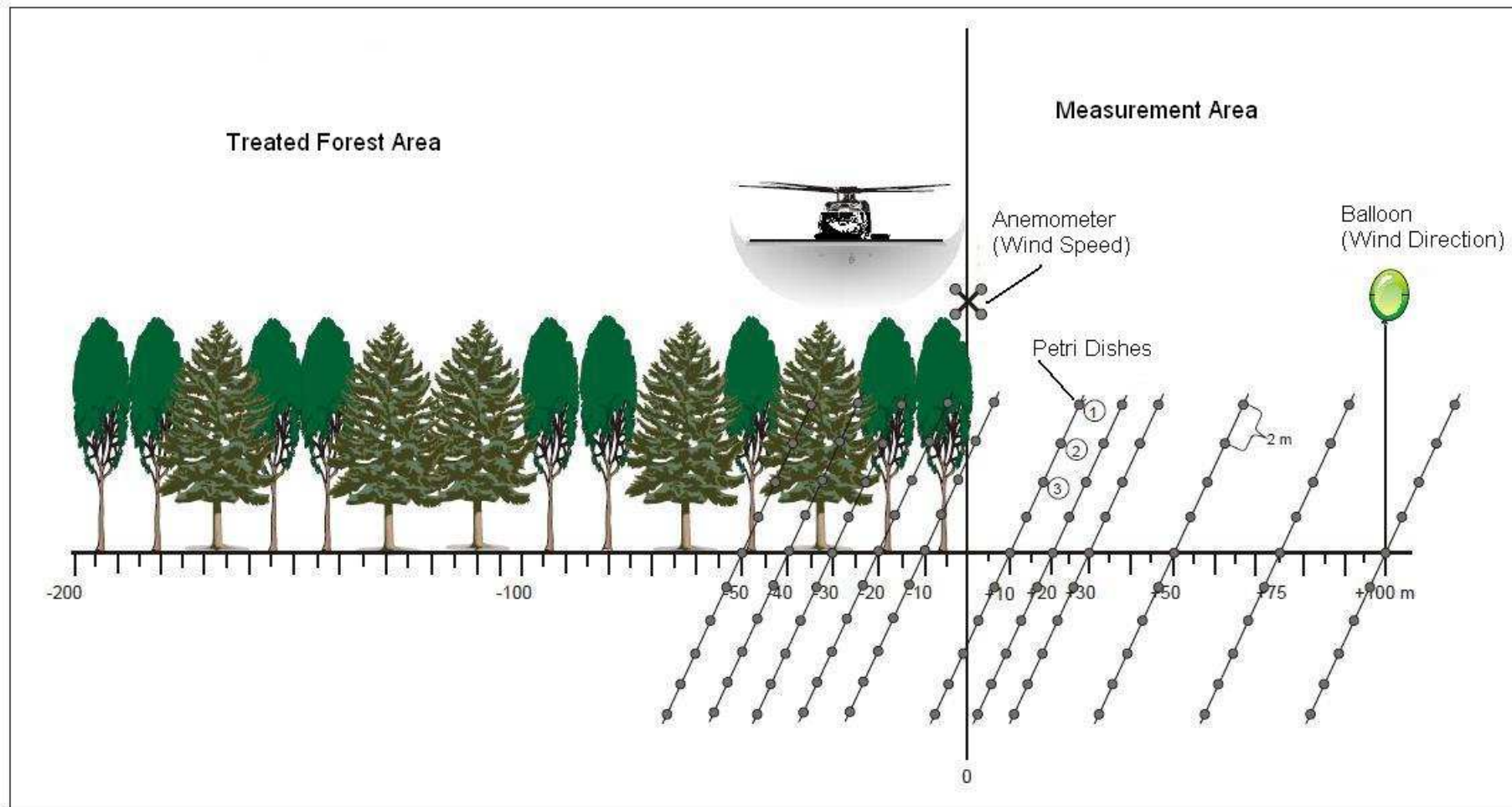
Aerial applications – German procedure

- **Two-step procedure:**
 - **authorisation / extension of authorisation at federal level**
 - **specific permission for each use by authorities of Federal States (Bundesländer)**
- **Extension of authorisation:**
 - **same GAP as ground application**
 - **only products urgently needed for plant protection / resistance strategy**
- **List of authorised products including additional risk mitigation measures in Federal Gazette / on BVL- Homepage**

Risk Assessment and Management

- **New studies on spray drift in forest and steep slope vinyard applications**
- **Specific risk assessment for human health and environment:**
 - **specific spray drift data only for helicopters equipped with low drift technique**
 - **new representative waterbody for large rivers**
 - **actives / products must comply with special requests regarding toxicity**
- **Specific risk mitigation measures for aerial applications**

Drift measurement - forests



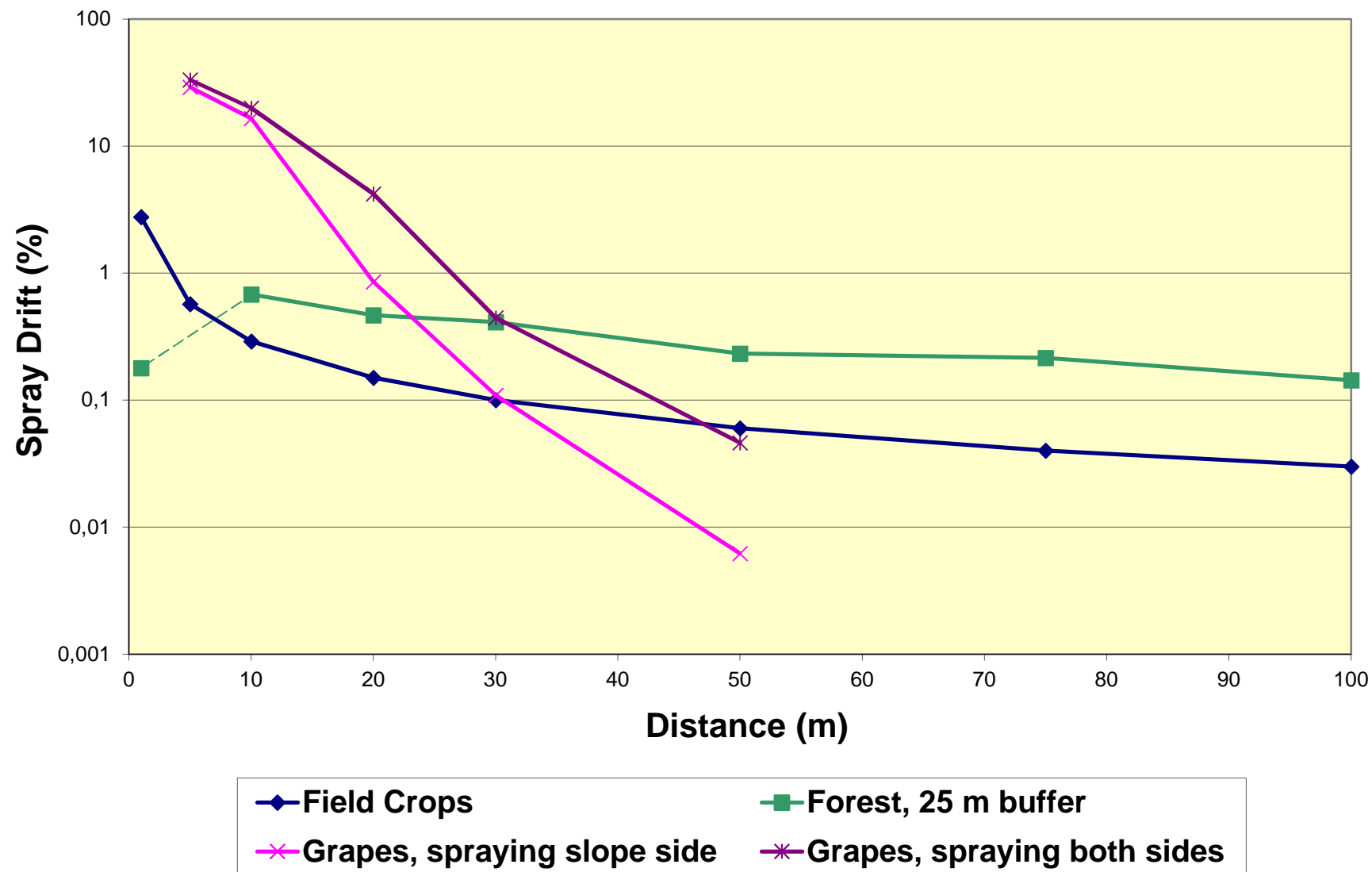
Institut für Anwendungstechnik des JKI
Dr.-Ing. H. Ganzelmeier

Mai 2011

Drift measurement - vineyards



Drift values – aerial application



Risk Assessment – Health Protection

- **Specific requirements for actives and products:**
 - **no classification according to 1272/2008/EU as CMR Cat. 1A or 1B for active substances**
 - **no classification as mutagenic Cat. 2, toxic for reproduction Cat. 2, sensitising, corrosive, very toxic or toxic for products**
 - **no classification as acutely toxic, hazardous to health (inhalative, dermal) for spray solutions**

Risk Assessment – Environment

- **Aquatic Organisms:**
 - **no additional drift reducing technique available (always best available equipment)**
 - **additional dilution factor for federal waterways**
 - **separated buffer zones for federal waterways and smaller water bodies**

Risk Assessment – Environment

- **Terrestrial Non-target Organisms:**
 - **accounting for state and long-term preservation of the ecological value of steep slope vineyards**
 - **accounting for actives in use in the past and at presence and their possible influence on the ecosystem**
 - **if necessary, compensatory measures (forests)**

Risk Mitigation Measures - general

- **For extensions of authorisations: at least the same risk mitigation measures as main use**
- **The first helicopter flight path must be at least half a working width away from the field boundary or, if applicable, from a stipulated buffer zone**
- **Aerial application only by helicopters with directly mounted spraying equipment and drift-reducing nozzles (Size 05)**
- **No bystanders in application area during spraying and until spray coating has dried**
- **Public announcement of application dates in advance in the concerned area**

Risk Mitigation Measures – Health Protection

- **Buffer zones to housing areas**
- **Buffer zones to areas which might be used by bystanders later on**
- **Minimum water volume per ha to avoid toxicological classification of spray solution**
- **Waiting period for re-entry, if applicable with protective clothing**
- **Waiting period for consumption of mushrooms, wild fruit and berries (precautionary)**

Risk Mitigation Measures - Environment

- **Forests:**

- **The first helicopter flight path must be at least 25 m plus half a working width away from the forest boundary**
- **Applications on half of a connected forest area at the most to ensure recolonisation of non-target species**
- **Use in nature reserves is not allowed**

Risk Mitigation Measures

- **Vineyards:**
 - **The first helicopter flight path must be at least half a working width away from the forest boundary**
 - **Specific measures for red list species in vineyards**
 - **Smaller buffer zones between vineyards and federal waterways compared to small streams**

Reporting

- **Federal states (Bundesländer) are requested to report all permissions given to BVL at the end of each year**
 - number of permissions
 - application dates
 - products & application rates
 - pests controlled
 - descriptions of sites, especially distance to protected
 - non-target areas like nature reserves, water bodies, housing areas, transport routes etc.

Conclusions

- **Specific risk assessment and mitigation is necessary – proposal presented, comments welcome**
- **Specific risk mitigation measures as important tool to comply with requests from sustainable use directive**
- **Harmonisation of frequently used risk mitigation measures underway in EU (MAgPIE)**
- **For specific, less frequently used indications still national risk mitigation measures only for Germany**
- **Harmonisation is needed here too**

Thank you for you attention!

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