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Report of the OECD Pesticide Risk Reduction Steering Group Workshop "Pesticide User Compliance"

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Series on Pesticides

No. 37

REPORT OF THE OECD PESTICIDE RISK REDUCTION STEERING GROUP WORKSHOP

"PESTICIDE USER COMPLIANCE"



INTER-ORGANISATION PROGRAMME FOR THE SOUND MANAGEMENT OF CHEMICALS

A cooperative agreement among

UNEP, ILO, FAO, WHO, UNIDO, UNITAR and OECD

Environment Directorate
ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT
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The Pesticide Programme was created in 1992 within the OECD's Environmental Health and Safety Division to help OECD countries:

- harmonise their pesticide review procedures,
- share the work of evaluating pesticides, and
- reduce risks associated with pesticide use.

The Pesticide Programme is directed by the Working Group on Pesticides, composed primarily of delegates from OECD Member countries, but also including representatives from the European Commission and other international organisations (*e.g.* United Nations Food and Agriculture Organization, United Nations Environment Programme, World Health Organization, Council of Europe), and observers from the pesticide industry and public interest organisations (NGOs).

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I. Introduction

Overview and background

- 1. This report presents a summary of the discussions at, and the outcomes from, the OECD workshop on Pesticide User Compliance Issues. The workshop was held in Ottawa, from 6-8 June 2006 and was hosted by Health Canada's Pest Management Regulatory Agency (PMRA). The focus of the workshop was on issues and impediments to compliance associated with pesticide use. Such issues were addressed in the context of reducing risks to human health and the environment as well as risks to the integrity of the regulatory process.
- 2. The objectives of the workshop were:
 - To identify the most common types of non-compliance that occur during use of pesticides and to develop effective approaches and methods to manage various risks;
 - To develop ways to enhance knowledge and understandings of pesticide users, with emphasis on achieving compliance with pesticide labels and terms and conditions of registration;
 - To propose ways regulators and the user community can modify the regulatory process to avoid unrealistic or very difficult approval conditions in order to ensure users' ability to comply;
 - To discuss and develop proposed approach(es) to measure the effectiveness of compliance programmes in achieving risk reduction objectives; and
 - To identify areas of potential harmonisation or international collaboration among member countries and other stakeholders.
- 3. Forty people participated in the workshop, representing seven governments, industry, grower groups and the OECD Secretariat. The participant list is attached in Annex II.
- 4. A survey was conducted prior to the workshop to collect background information on what regulators do to promote compliance and how users perceive the current compliance mechanism in their country. The survey results are compiled in a template developed by the organising committee and the report, including the questionnaires sent to users and regulators, is attached in Annex V.

Structure of the workshop

- 5. The workshop was held over two and a half days. Day 1 of the workshop began in plenary with presentations and a panel discussion by speakers representing different perspectives on user compliance, including industry, government, user groups and non-governmental organisations (NGO). Following plenary discussions, four breakout groups met and discussed assigned topics relating to each workshop objective. Prior to the workshop, the workshop organising committee identified specific topics and prepared questions based on the plenary session presentations and questionnaire responses.
- 6. Day 2 focused on a review of the discussions from Day 1. During this plenary session, the rapporteurs of the four breakout groups presented summaries of their respective group discussions. Another breakout group session was held following the morning plenary in which breakout groups considered, discussed, and incorporated the comments made during the plenary discussions, and developed a list of conclusions.

7. During Day 3, participants reviewed the conclusions made the day before and identified recommendations for future work. The workshop concluded with a presentation on the overall summary of the workshop and next steps, provided by the chair of the OECD Risk Reduction Steering Group, Wolfgang Zornbach (Germany). The final workshop programme is attached in Annex I.

II. Plenary Discussions

Summary of presentations and comments

8. The plenary session began with a welcome message from Dr. Karen Dodds, Executive Director of the PMRA, and an introduction by Jeong-Won Park from the OECD Secretariat. This was followed by four presentations given by Allan Brown (CropLife), Bob Frissen (Canadian Federation of Agriculture), Anne Lindsay (US Environmental Protection Agency), and Michael Stahl (International Network for Environmental Compliance and Enforcement). All presentations are summarized below and slides are attached in Annex III.

Strategies to improve user compliance (industry's perspective)

- 9. The presentation by Allan Brown (CropLife) concerned the issue of counterfeit products. He noted that stewardship was at the heart of all CropLife's initiatives and the leading cause of non-compliance was due to the complexity of the label. His recommendations were to simplify the label instructions, provide training for the new Globally Harmonised System (GHS) for classification and labelling of chemicals, and implement the Food and Agriculture Organization (FAO)'s Code of Conduct to guide the appropriate distribution of industrial products in order to discourage the use of counterfeit products.
- 10. With respect to the use of the Internet as a tool for communication between industry and users, Mr. Brown said that the Internet is often being used as a tool to support illegal trafficking rather than to facilitate the compliant use of registered products. Regarding industry's effort to improve labeling systems, Mr. Brown mentioned that CropLife has been working on various projects, among them a project to prepare for the implementation of the GHS. Further work will be done on GHS in various regions.
- To address crop damage caused by counterfeit products, Mr. Brown said that CropLife examines samples to respond to any complaints, and undertakes laboratory work if further verification is necessary. Another problem is that companies are often reluctant to post any public warnings about counterfeit products being offered for sale, for fear that doing so will adversely affect product registrations and sales when the difference between the product and its counterfeit is not easy to distinguish (e.g., consumers might choose an alternative product having no known counterfeits). Anne Lindsay commented that the US EPA has developed an enforcement action programme that is designed to provide warnings to a specific user group, and to show how to determine if a product is a counterfeit. It has been a success without any identified adverse consequences. Some suggested that this was an elusive subject as problems are not too visible unless actual damage occurs.

Users' perception of compliance (user's perspective)

12. Bob Friesen (CFA, Canadian Federation of Agriculture) highlighted major issues that growers are facing. He stressed the importance of a scientific approach when regulating user compliance issues. It becomes inefficient for the user to comply if there are too many regulations. Moreover, most of the regulations in place are to satisfy public perception, and do not necessarily lead to risk reduction. It was however stressed that the right balance should be found in order to have compliant use without compromising on human health and environmental risk. To increase the level of compliance, he suggested that more incentives be given within the regulatory framework. Examples of incentives may include a clear

demonstration of benefits to the users, their land and the public, and the benefits will in turn result in compliance and more effective communication about such benefits. Besides incentives, more communication is needed to educate the public on user practices and real risks to their health.

- 13. In reality, there are not enough tools available for users when they are faced with restrictions on the use of products. This is particularly obvious when products available across borders have different restrictions placed on them. This poses a great challenge and reiterates the fact that more harmonisation is needed. Mr. Friesen added that a better mechanism must be put in place to make the user aware of any changes to the labels and the products. Such a mechanism would significantly reduce non-compliance and decrease the risk posed to the public and the environment. The presentation ended with a wish list from the user community and re-emphasised the importance of equality of access to products, the trade-off between regulations and incentives, and the need for more science and research.
- 14. Key questions, which stimulated good discussion, focused on the communication tools used to find information on products. A concern was expressed about the fact that most users were turning towards the Internet for answers. The answers received may actually come from a range of so different websites that the quality and accuracy of information would be questionable. This could even result in non-compliance. Also, it was found difficult to know how often farmers actually turned to websites as a source of information. In the United States, for example, where a web-based database exists, the actual number of farmers relying on science-based knowledge/information is not known. However, it may also depend on accessibility to the web. Statistics show that in developing countries the accessibility to the Internet has increased and consequently, implementation of GAP (Good Agricultural Practices) has become feasible. This discussion led to the key resolution of creating a database of websites which users, regulators and industry could access and use for their benefit, e.g., finding and posting changes to labels, posting changes to product use.
- 15. The CFA furthermore mentioned the need for incentives that would motivate farmers to comply, not necessarily expressed in monetary terms. Rather, there should be science-based regulations leading to ultimate risk reduction. For example, in the case of labels, it is deemed important that regulators effectively communicate to users the ultimate benefits derived from complying with labels. With regards to training, programmes have been developed aiming at giving proper precaution about consequences on various public health aspects. In some regions of Canada, it was reported that farmers were not allowed to buy certain products unless users were properly certified.
- Concerning the need for further (regional) harmonisation, e.g., in North America, in particular for mutual recognition of data and/or for the legal process of registration, the CFA is of the opinion that farmers should be kept well informed on any harmonised regulations with regards to application requirements. Discussions between industry and farmers are necessary. A larger scope of harmonisation efforts will be needed in the future to overcome problems of differences, e.g., in Canada, the market is rather small and registration is costly. It is true also that, in some countries, MRL regulations can be barriers. A product used in the US can be forbidden in Canada solely because of different MRL requirements. Thus, better harmonisation of MRLs is critical in order to avoid situations where some products are restricted in one country and not in its neighbour countries only because of different MRL standards.

A regulatory perspective on pesticide user compliance (regulator's perspective)

17. Anne Lindsay (US EPA) emphasised the need to develop a "culture of compliance", which would facilitate and foster user compliance. On the one hand, identifying, developing and implementing incentives can create this culture of compliance. On the other hand, it can also be fostered through stewardship programmes and properly trained and certified users in best management practices. Taking the

perspective of a regulatory agency, Ms. Lindsay defined the function of a pesticide regulatory programme as one which "acts as a gateway to the marketplace by setting the terms and conditions of use, and approving label instructions". She indicated that this culture of compliance would foster compliance with approved practices and help avoid misuse and solve trade barrier issues. With regard to the use of counterfeit products mentioned earlier, increased discussion should surround this topic to help determine the reasons for the use of such products and why users feel the need for non-compliance. Speculation about the reasons for counterfeit use revealed that the availability of products was one factor. Therefore in order to prevent such use, products must be easily available and highly accessible to users.

- 18. The US EPA furthermore acknowledged the difficult challenge posed when most of non-compliance occurred in areas outside the country's jurisdiction. There is a need to develop a national model, which would describe how to manage a programme with finite resources and to illustrate the balance between initiatives and the promotion of compliance *vs.* maintenance of the compliance strategies. In the end, the regulators are accountable and must close the gap between knowledge, will, and ability for users to comply.
- 19. With respect to the promotion of best management practices, two current programmes have been introduced in the US. For pesticide programmes there are two sections, i.e. the PESP (Pesticide Environmental Stewardship Programme) and the Strategic Agriculture Initiative with ten regional offices in the US. PESP is a grower/user association that focuses on sustainable pest management. It encourages grower associations to be involved in safety directions for using pesticides. Advocates within the industry are also assigned. It is ultimately up to the State government to recognise the respective specific challenges and to determine the best management practice to implement.
- 20. Since the implementation of the grant programmes, a notable decrease in pesticide abuse has been achieved. This was accomplished by changing the cultural practices of pesticide use and by acknowledging the changes that needed to be made in the practices of pesticide use. Also, a focus on minor crops helped disseminate information strategies applying to business.
- 21. Concerning training and certification processes, US EPA sets the national standards while each State develops its own programmes.
- 22. Questions on Internet retailers were then raised. Although the Office of Enforcement and Compliance Assurance (OECA) has put together an Internet sales issue document, it was admitted that this remained a problem. This form of retail is very attractive to users as it allows for increased product availability. Regulators should think of strategies to solve these challenges.
- With regards to the registrants' duty to report adverse side effects to products, it was indicated that a process was in place at US EPA, i.e., registrants go through categories of risk, specify to the regulators the reporting requirements, and monitor literature of adverse effects, occupational problems, worker illness, and toxicology studies reporting animal and environmental effects with 30-day interval. New registration programme is applied for any pending products whenever it is necessary to go over new registration, and registrations are updated accordingly.

Measuring performance of compliance programmes (INECE)

24. Michael M. Stahl, representing both INECE (International Network for Environmental Compliance and Enforcement) and the US EPA, explained the increasing need for demonstrated results as part of policy planning, management, evaluation, public accountability and budgetary decisions. His presentation on performance indicators focused on the three following stages:

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- (1) identifying potential indicators;
- (2) designing and developing indicators, and
- (3) using these indicators to measure performance.
- 25. In using performance indicators, the value of compliance and the actions for enforcement for non-compliance would be more clearly understood. Among all the tools available to users, it is crucial to utilise the most effective one in reducing risk or improving the effect on the environment. This will not only have an immediate impact and outcome, but will also have a multiplier effect, making the final outcome more achievable. Mr. Stahl suggested options for developing and using indicators for pesticide compliance and enforcement.
- 26. He also focused on the importance of the development of a baseline to help improve or maintain the final outcomes. Setting a baseline for performance measurement is an important start although adjusting the baseline may be unavoidable within several years depending on a period and situation. No fixed standard exists and each body should set its own standards. Also, the initial aim underpinning the baseline might also change as time goes by. Thus, it is not always easy to explain the meaning of the baseline, but it is necessary to decide whether the baseline is realistic to maintain or improve the target. In addition, it must be understood that success can be measured through maintenance and not just as an increase or decrease.
- 27. Additional challenges on "measuring performance" standards were identified, in particular, concerning:
- (1) having budget reduced resulting in a seemingly reduction in activities and therefore performance; and
- (2) the difficulty in measuring complex final outcomes.
- 28. Performance measures show production of value that the agency is undertaking. The use of a logic model may allow others to see what goals or values the programme or activities are producing (i.e., decreased pollution). With respect to criteria for evaluating success, or maintaining a certain 'level' of success, it was recognised that this takes a great deal of resources. Depending on the final outcome, improvement of the goal may not be realistic but maintaining the goal is. The frequency of inspections is less important. The final goal of measurement is not to detect problems but to show final production of value.
- 29. In general, measuring the "impacts of compliance" should be done differently than measuring the secondary impacts (i.e., farmer to farmer information exchange). It is important to figure out who gets the benefits and what are the biggest risks. There are double sides of measurements to consider. It is true that there are some factors that are difficult and even impossible to measure. For example, it is difficult to get information on inspection, as some users do not want to reveal their non-compliance experience. Also, it is very difficult to measure the results of training and assistance efforts to associations. A multiplier effect is also hard to measure. It was therefore recommended to focus on improvements of regulations, new management practices, and how these practices have decreased risks.
- 30. Many delegates raised the question about the difficulties of finding out the exact causal link between multiplier factors and outcomes in using the logic model since one outcome could be linked to many factors simultaneously or a combination of factors. Including a column for intermediate outcomes in the logic model will allow for a specific connection to be made between factors and outcomes. Plausible attribution to intermediate outcomes helps demonstrate work done and is more a reflection of the enforcement activities than the final outcome: in other words, the connection between activity and result. Intermediate outcomes can be understood as a bumper zone prior to reaching outcome. Plausible

attributions in the intermediate outcomes are very important 'procedures' to connect such intermediate factors with risk factors causing the final effects.

- 31. When encouraging users to attend information sessions, it is important to ensure anonymity of participants. Most users fear that, if they attend, they would be at increased risk of inspection and consequently may be given a penalty. Thus, guaranteed anonymity allows users to attend the information sessions and allows regulators to provide critical updated information.
- 32. Regarding the problem of different terminology and definitions used in different countries, Mr. Stahl explained that multi-national level efforts are required. Both INECE and the OECD have produced some general guidance on definitions and terms. They may not be applicable or helpful to all countries but this is a good starting point. For example, no word for 'compliance' exists in Portuguese. Harmonising effects and definitions to ensure identical goal/path to all parties therefore involves knowing "compliance" in other languages.

Summary of plenary panel discussion

- 33. The panel discussion further explored some of the ideas that were presented through a series of questions (1 to 4), providing a basis to stimulate discussions between the panel and the workshop participants (the representative from the user community was unfortunately unable to attend). Below are presented the outcomes of the discussions.
- 1. FROM YOUR PERSPECTIVE, AS A MEMBER OF A USER, INDUSTRY OR REGULATORY COMMUNITY, WHAT DO YOU THINK IS WORKING REASONABLY WELL AND WHY? WHAT EXAMPLE WOULD YOU LIKE TO BRING TO OUR ATTENTION?
 - Products available to growers should be accessible at the same time regardless of the country in which they are needed. Work sharing was an effective initiative and product availability should now be a new international initiative. (CropLife)
 - Different divisions within a regulatory agency should work together on a regular basis to continually provide guidance and information updates to all parties involved. In the US, agencies are de-centralised at the moment but need to implement some degree of centralised approach so that regular interactions are fulfilled. (US EPA)
 - More and more compliance programmes adopt integrated approaches that use various policies simultaneously. In addition, more efforts should be made to develop measuring tools to solve specific problems. Finally, the reasons behind non-compliance would dictate what actions should be enforced. In deciding enforcement, a key question is whether the risk is real or perceived. It would then illustrate what tools are available and most effective. (INECE)

2 WHAT IS ONE OF THE MOST SIGNIFICANT COMPLIANCE CHALLENGE(S) FACED BY:

- PESTICIDE USERS
- THE PESTICIDE INDUSTRY
- PESTICIDE REGULATORS
- Interactions between regulators and growers are very important, especially for labelling. Training is often not sufficient since companies do not always agree with the requirements set by the regulators. In such cases, it is difficult to persuade users/growers to comply. The product label is the only piece of information that binds all parties together; thus label development should be done in collaboration among all affected parties (i.e., user, regulator, industry). That is why growers should already be involved at the registration stage. With the full agreement of all parties, compliance becomes more realistic, full accountability can be obtained, and risks can be mitigated more effectively. (CropLife)
- From a regulatory perspective (focusing on performance measures), lack of resources hinders the collection of information to measure outcomes. Additionally, by creating incentives and workable performance measures, the compliance issue should automatically align itself. (US EPA)
- In the US, some statutes simply do not allow for strong enforcement, which implies that the problem of non-compliance is rooted in the legal system itself, and legislations are not designed to enforce compliance. (US EPA/INECE)
- If more tools were available to users, it would be more feasible for them to comply. Users have been making some progress in the field of compliance and more emphasis should be placed on the positive outcomes rather than on the negative ones. (PMRA, Canada)
- A forum needs to be created for users to share and discuss best practices. More incentives also need to be developed for users. This is directly linked to the issue of counterfeit product use and how both regulators and registrants should work together to stop counterfeit use. (Syngenta)
- From a grower's point of view, there is too much information available leading to a high level of complexity; each crop has many different restrictions that are almost impossible to comply with entirely. Standardisation of essential information across companies is crucial. In addition, appropriate information should be focused on risk factors corresponding to actual risks. (Grower Group)
- 3. HOW COULD USERS, MANUFACTURERS AND REGULATORS COLLABORATE DIFFERENTLY WITH THE OBJECTIVE OF OBTAINING AND MAINTAINING COMPLIANCE? IN THE AREA OF COMMUNICATION AND INFORMATION EXCHANGE, WHAT COULD BE/NEEDS TO BE STRENGTHENED?
 - Collaboration opportunities should be created when developing labels so that agreement on compliance can be reached. Once users understand the reasons for compliance, complying should be easier to achieve. Including growers at an earlier stage in the label development is therefore very important. (CropLife)
 - Regarding compliance, the number of changes that need to be made across each country and internationally, is overwhelming. However, a paradigm shift is needed to emphasise the safe use of pesticides. (US EPA)

Regulators must have a better understanding of the motivations behind non-compliance.
 More dialogue is needed between groups to make compliance more understandable and
 manageable, especially with respect to enforcement. Not all user compliance issues are
 equivalent and therefore different tools must be used for different circumstances.
 Communication and better understanding among regulators and advisors will be an important
 step. (INECE)

4. WHAT POSSIBILITIES DO YOU SEE REGARDING POTENTIAL INTERNATIONAL COLLABORATION FOR EITHER USERS OR INDUSTRY OR REGULATORS?

- Harmonisation and collaboration are the common goals of all parties involved. Collaboration among regulators with respect to MRLs is very important because users are facing the challenge of meeting different MRL requirements for different countries. This poses a problem when users are trying to sell their products. As a suggestion, CODEX process should be faster and a better system should be established. (CropLife)
- Changes to the legislation and national boundaries should be made to match the needs of all parties. For example, if a NAFTA label for a product was created, it could result in price advantage to stakeholders in general but also in related problems. For example, some problems may deal with national legislation including intellectual property laws/regulations, which is an important underlying issue often overlooked. (US EPA)
- The international regulators may consider four steps:
 - (1) identifying a few patterns of non-compliance;
 - (2) creating tools or programmes based on these patterns;
 - (3) deciding which area should be developed further considering its feasibility; and
 - (4) collaborating with related users.
 - In doing so, a more harmonised message would be delivered to users across nations, thus reducing confusion. (INECE)
- Users do not want to hear mixed messages from different agencies. Harmonising messages across organisations is crucial to ensure user compliance. (CropLife)

III. Final Breakout Group Report

- 34. On Day 2, each breakout group presented their preliminary reports to the workshop participants in plenary. To guide the discussion, each group had received a template of questions, which prompted ideas, and concepts. The groups had a chance to review and consider answers and suggestions they had received and discussed through the previous day. Participants had a chance to provide feedback and to add ideas and then incorporate this into their reports.
- 35. The final report from each breakout group was presented on Day 3. Each group went through the changes they had made from the previous day's suggestions, and presented to plenary any recommendations and conclusions developed in breakout. During the final plenary session, participants were able to provide final comments on recommendations allowing each group to finalise their reports.

REPORT ON BREAKOUT GROUP NO.1

1. Overall objective

- Establish a list of common types of non-compliance.
- Develop key criteria and proposed approaches and methods to identify that are most important for risk reduction or leading to more effective risk management.
- Using these criteria and the list of common type of non-compliance, rank the types according to expected risk, e.g., high, medium, low, negligible.

2. Participants

36. Karen McCullagh (chair), Pierre Leblanc (rapporteur), Allan Brown, Stefan Lamprecht, Carsten Madsen, Judy Shaw, Mark Veitch.

3. Introduction

- 37. Stimulating and fruitful discussions took place regarding possible approaches to assess the risk from non-compliance. There was a good exchange of ideas and some agreement on the potential application of risk management principles.
- 38. This approach is consistent with the FAO Code of Conduct in that responses to violations should be fair, predictable, and proportional thereby encouraging a level playing field.

4. Summary of discussion

4.1 Common types of non-compliance

Table 1: Common types of non-compliance identified during the March 2003 Compliance Seminar and the Results of the OECD Survey on Pesticides User Compliance (May 2006).

PLACEMENT	TYPES OF NON-COMPLIANCE:	TYPES OF NONCOMPLIANCE:	
	USERS	REGULATORS	
1	Failure to adhere to label recommendations	Unregistered use of a registered product	
	and restrictions: Failure to leave a required		
	untreated buffer to protect water courses		
2	Use of unregistered products	Stocking of obsolete products	
		Drift	
3	Personal protective equipment	Failure to adhere to label recommendations	
		and restrictions: Failure to leave a required	
		untreated buffer to protect water courses	
4	Drift	Use of products imported directly from	
		other countries that are not authorised or	
		have labels in a foreign language	
5	Failure to adhere to label recommendations	s Unlicensed / Improper licensed applicator	
	and restrictions: Use of incorrect dose		
6	Wind speed	Unsafe storage (unlocked, contaminate	
	_	food/feed, etc.)	
		Personal protective equipment	

7	Failure to adhere to label recommendations and restrictions: Use of pesticides on crops and other sites for which they are not	Wind speed
	authorised	
8	Failure to adhere to label recommendations and restrictions: Incorrect timing of preharvest intervals	Use of unregistered products
	Unsafe storage (unlocked, contaminate food/feed, etc.)	
	Improper filling or cleaning of sprayer equipment	
9	Improper disposal of product and/or containers	Improper disposal of product and/or containers
	Soil type/depth to ground water	
	Other label directions	
10	Failure to adhere to label recommendations and restrictions: Exceeding the number of applications allowed per season	Failure to adhere to label recommendations and restrictions: Use of pesticides on crops and other sites for which they are not authorised
11		Permit violation (extra conditions not met aside from on the label)
12		Failure to adhere to label recommendations and restrictions: Incorrect timing of preharvest intervals
		Improper filling or cleaning of sprayer equipment
13		Failure to adhere to label recommendations and restrictions:
		 Use of incorrect dose Exceeding the number of applications allowed per season
14		Unsafe transport (unlocked, contaminate food/feed, etc.)
15		Soil type/depth to ground water
		Other label directions

¹ The ranking assigned to each type of non-compliance was determined from results of the May 2006 Survey on Pesticides User Compliance.

High = Ranked 1st – 3rd

Medium = Ranked 4th – 6th

Low = Ranked 7th – 9th

Negligible = Ranked 10th or higher

² N/A: type of non-compliance not included in the questionnaire

- 39. The group agreed that the lists of non-compliance identified during the March 2003 Compliance Seminar and those identified in the May 2006 Survey covered most types of non-compliance. Some modifications to Table 1 were suggested and are described below:
 - For the following type of non-compliance "Failure to adhere to label recommendations and restrictions: Use of pesticides on crops and other sites for which they are not authorized", it was suggested to separate 'use on crop' and 'non-agricultural site'.
 - Ambiguity of the term "Obsolete products". A clear distinction should be made between products that are never expected to return to the marketplace versus those that may temporarily have this status.
 - "Unlicensed / Improper licensed applicator" can be misleading. Some may refer to an apparatus as opposed to an individual worker. A better term should be "certified user".
 - Redefining the ranking terminology. Reference to 'negligible' should be replaced with 'very low'.
 - Types of non-compliance to be added:
 - counterfeit products,
 - failure to comply with spray technology requirements
- 40. It was noted that some of the listed types of non-compliance may further lead to secondary non-compliance e.g., use of unapproved product can lead to non-compliance with MRLs. It was also noted that deliberate decisions to not comply are made based on a 'calculated risk'.
- During the discussion, the issue of buffer zone was raised. According to the May 2006 survey results, this issue was ranked 1st and 3rd by users and regulators respectively. It remains unclear the exact nature of the challenge and therefore how best to address it. It was agreed that this is a highly technical subject for users and regulators since many factors can affect the level of compliance e.g., can be a result of technology, knowledge, etc... Some incentives may be available e.g., specific criteria that permit reduced buffer zones. In some countries, industry sponsors sprayer calibration clinics to helps growers/farmers accurately apply their product. Moreover, Germany has programme for certification of applicator equipment that must be renewed every two years.

4.2 Key criteria to assess risk of the non-compliance incident

- 42. As a result of the plenary discussions that were held after the group reported out to the workshop participants, it became evident that clarifications were needed in the following three areas: i) Probability of non-compliance, ii) Risk from known or suspected non-compliance, and iii) reacting to situations of non-compliance. These areas are addresses in sections 4.2, 4.3, and 4.4.
- 43. The document published by the OECD in 2000 entitled the Reducing the Risk of Policy Failure, identified factors that contributed to the probability or likelihood of non-compliance occurring. These factors were narrowed down into three categories:
 - Willingness e.g., economic priorities/habits
 - Ability/capacity e.g., absence of needed pesticide products, unrealistic label requirements
 - Knowledge e.g., level of outreach and training

- 44. The impact resulting from an incident of non-compliance is characterized by taking into account the effects on:
 - Human Health
 - Environment
 - Regulatory Integrity (respect for the rule of law)
 - Public confidence in the regulation of pesticides
 - Respect for compliance and of the regulatory framework in which pesticides are regulated
 - Policy failure e.g. increase in the number of repeat violators

4.3 Approach to assess the risk from non-compliance

45. The level of risk from known or suspected non-compliance is commonly defined as follows:

Risk = Hazard X Exposure or Risk = Impact X Probability or Likelihood of Impact

46. Please refer to Figure 1 for a depiction the various levels of risk.

4.4 Responses to situations of non-compliance

- 47. When reacting to situations of non-compliance, one must consider the whole spectrum of available tools or types of responses (i.e. soft to more punitive) and choose the most appropriate action.
- 48. The response should:
 - be based on the level of risk,
 - be the most cost effective for the situation, and
 - achieve the desired outcome e.g. change of user attitude or behavior.
- 49. There was agreement among regulators within the group that discretion and judgment are frequently used during inspections resulting from situations of known or suspected non-compliance.
- 50. Although the May 2006 survey results indicated that standard models were not available, it was generally accepted that other compliance and enforcement practitioners use risk management principles e.g., traffic police officers. Monitoring and enforcing automobile speeding violations under different situations such as the location of infraction (school zone or highway), the time of day, and road conditions. Guidance from a risk management model could provide some transparency on how compliance & enforcement decisions are taken and an approach for consistency thereby establishing a level playing field.

4.5 Application of approach in test scenario

51. The group chose the following scenario to run through the proposed risk management approach to assess the associated level of risk.

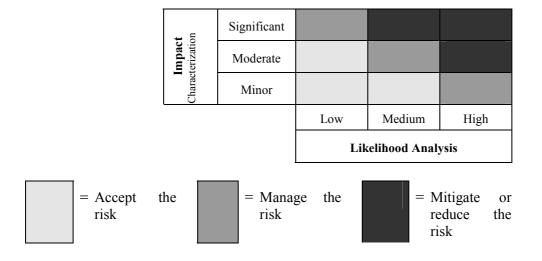
Scenario: A specific pesticide is no longer available for use by farmers and there is the potential that another product is being used that is not labeled for this use.

- Assumptions:
 - o product is registered under the same legislation
 - o same general category of uses
 - o both pesticide products are herbicides (Broad Leaf Weed)
 - o active ingredient does not the same chemistry
 - o crops: registered for use on wheat, used on barley

Table 2: Risk Analysis

What could go wrong?	The likelihood of an impact if the event occurred (low, medium, high)	Impact if the event occurred (minor, moderate, significant)
Crop damaged	low	moderate
Illegal residues	medium	moderate-significant
Possible user exposure	low	minor
Adverse effects on the environment	low - med: (depends on the nature of the chemical)	minor
Use at an incorrect application rate (dose, frequency, interval, etc)	low (crops are similar)	uncertain
Resistance management	low	minor
Impact/compromise of public confidence (regulatory integrity)	medium	minor

Figure 1: Level of Risk and Corresponding Risk Tolerance



52. The group reviewed the described situation and determined that a risk management approach seemed to have validity in conducting a rudimentary assessment of risk and in selecting from a broad category, what risk management options would be appropriate. Figure 1 was distributed as a visual aid during breakout discussions

5. Comments from plenary session

- If the risk is low then why does the legislation exist in the first place?
- It would helpful for users to know the relative importance of label information e.g., strong requirements versus weak requirements.
- Current labels are relatively rigid with respect to the use of a product often restricting growers. Labels should be more flexible to meet the needs growers. E.g. growers can often achieve the same results with a reduced dosage thereby conserving financial resources.
- Some action is always required in response to violations. For a number of reasons some participants, considered "no action" as not being an acceptable approach.
- Intelligence gathering is important part of informing decisions
- Table 1 ranks common types of non-compliance by frequency of occurrence. This does not necessarily reflect the severity of such non-compliant incidents.
- Benefits of having a Compliance Policy:
 - Transparency
 - Provides a basis for consistency
 - Creates a level playing field
 - Helps in focusing efforts and resources

6. Conclusions

- In all cases, an action should be taken in response to situations where non compliance is detected.
- Risk based principles can be helpful in determining the level of risk associated with the incident and how to manage the risk.
- In order to use risk-based principles, it is important to have sufficient information, but that does not mean that there is a need for complete information.
- The use of risk management principles can further lead to a list of possible options for response.
- The nature of the response should take into consideration the level of risk.

7. Recommendation

• Further collaboration among OECD member states (includes rule makers and inspectors) to develop a risk management approach to situations of non-compliance, including consultation with user groups and pesticide industry, third party inspectors.

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8. References

OECD, Reducing the Risk of Policy Failure: Challenges for Regulatory Compliance, 2000, p.11

OECD, Series on Pesticides Number 24. Report of the OECD Pesticide Risk Reduction Steering Group Seminar on Compliance and Risk Reduction, Paris March 2003, p. 10-11

OECD, Survey Results on Pesticides User Compliance, preliminary report May 2006, p.14

FAO Code of Conduct, June 2006, p.10 Sections 2.6 and 2.7

REPORT ON BREAKOUT GROUP NO.2

1. Overall objective

53. Using the list of common types of non-compliance (from Objective 1), develop ideas on how acceptable levels of knowledge and understanding can be achieved for pesticide users. Particular emphasis should be given to achieving compliance with information on pesticide labels and terms and conditions of registration.

2. Participants

54. Karin Corsten (chair), Shawn Fancy (raporteur), Birte Evers-Mersch, Lorna Poff, Marit Skuterud, Andy Hawkins, John Overgaard.

3. Summary of discussions

Part A

Provision of information to users, how to achieve compliance

1. The answers of the users and regulators questionnaire provided information about existing approaches to help ensure pesticide users receive necessary information related to compliance. Which of the communication strategies and approaches listed in Table A are useful to achieve an acceptable level of knowledge and understanding for users? Rank the strategies based on their effectiveness of reaching a broad target audience.

Table A: Communication strategies to provide knowledge and understanding to users

No	Communication strategy/approach	Useful to achieve user compliance?	
1	Newsletters	If part of association, what is the source of information? Useful for automatic regular updates. Must come out at right time, speaking in terms of the grower for their specific situation/commodity, on the point, coming through the association.	
2	Meetings	Grower meetings are good in the off season, face to face, but time consuming. Chance to ask questions and interact. More likely to have various groups attending a meeting (industry, growers, regulators). Rely on notes taken. Could require several meetings throughout the country.	
3	Mailing (post)	Difficult to obtain list of growers. Can consult certified grower lists. Could be sent by vendor at point of sale. Good reference material.	
4	Newspaper, radio, magazines	Expensive, but good when farmers are in the field (busy). Target local newspapers. Could reach a large audience.	
5	Trade shows, vendors, demos	Good for those who attend. Can be costly. Relevant to the user. May not be timely.	

6	Step-wise approach (Training/ education, inspection/ control, warning, prosecution)	Important to show grower a stepwise approach if don't comply with registered product use. Can easily spread by word of mouth. Posting of violation details in paper is a big deterrent. Costly. Inspection control programmes based on risk assessment.		
7	Regularly Education/Training	Focus on training and education to make growers aware of their responsibilities, going back every few years to maintain user expertise. Proactive. Some countries require that growers to be trained.		
8	Farm visits during application	Useful for extension staff/crop specialists/farm advisory workers.		
9	potential risks of misusing (outcome)	to communicate this message. (Linked to 7)		
10	Clear information on the label (different languages)	Most important as reaches all users. Issues with English as a 1 Second Language (ESL). If information is clear, concise and understood compliance will be improved.		
11a	Website (government)	Good for making labels available, list of registered products and appropriate uses/restrictions available.		
11b	Website (other)	Valuable, but can be unreliable depending on the source of the information, knowledge, date, biases (may not get complete picture).		
12	Maintain records	Inspection of spray records that can be reviewed with the farmer. Needed for buffer zone discussions.	6	
13	Stewardship programme	Very important. Costly for industry, but useful in dealing with a specific challenge.	5	
14	Farm advisory system (newsletters, visits)	Farmers pay for the service and trust the system. 90% of farmers use this system in Denmark. Advice generally makes economic sense in addition to encourage safe practices. Establishes farm plans with regular farm visits. Privately run. Provides similar advice to crop specialists/extension staff. Would require records to be kept.		
15	Computer Programmes (Maps, GIS, Modelling)	Additional assistance that can be provided to assist compliance, safety economics.		
16	Telephone	Very specific, time consuming. Good for smaller groups.		
17	Info sheets, Bulletins	Beneficial in providing key facts. Short and easy to read.		
18	TV	Very specific, would have to be a serious problem.		
19	Professional speaker (Doctor)	Useful for when training or advice on health and safety is being given		
20	Call line	Interactive and deals directly with the farmers issue, but costly		
<u> </u>				

^{*} derived from the answers of the user and regulators questionnaire (see "Survey results on pesticides user compliance", May 2006, page 11-16)

^{55.} Table A lists different mediums to provide information to users. Communication strategies in italics are more complex approaches using a variety of elements listed in Table A.

- 56. Regular communication is needed because user requirements/practices are not static. There are many parties involved in the communication process (very complex). Therefore, there is a need to use a communication network to ensure as many users as possible get the required information (regulatory authorities, grower groups, advisory services, industry, educators). Dialogue must be a two way process between users/regulators/industry. A feedback mechanism is important to avoid lack of information. It is important for the authorities to know how products are being used or how users would like to use them. (Regulation should be consistent with best management practices).
- 57. Different communication strategies should be combined, the selection depending on the situation. It should be noted that information is not always reliable and current depending on the source. Table A provides an overview of some of the most useful strategies. Ranking was attempted based on the ability to reach the target audience, the cost of the strategy and the reliability of the information.
- 2. Do you know further communication strategies and approaches to help ensure pesticide users receive necessary information related to compliance?
- 3. Before the workshop several types of non compliance were identified from the answers of the user and regulator questionnaires. A list is given in Table B. Do you have suggestions, what communication strategies and approaches should be used to improve knowledge and understanding for the different types of non-compliance?

Table B: Specific communication strategies for different types of non compliance

Type of non- Communication		Provision by (question 4, 5 and 6)		
compliance	strategy/approach	regulators	regulators in	others
	(question 3)		partnership	independent*
			with others	from
				regulators
Mos	t frequent problems identified by u	sers and/or reg	ulators**:	
		should be	should be	should be
Failure to use only	6,7, 10,14	6,7,10	6, 7, 14	14
approved products	Communication is not sufficient,			
	e.g. linked to availability of			
	pesticides for minor crop use			
Unregistered use of a	6,7, 10,14 Communication is not	6,7,10	6, 7, 14	14
registered product	sufficient, e.g. linked to availability			
	of pesticides for minor crop use			
Use of imported	6,7, 10,14 Communication is not	6,7,10	6, 7, 14	14
products that are not	sufficient, e.g. linked to availability			
authorised	of pesticides for minor crop use			
Label	6,7, 10, 12, 14 Communication is	6,7,10, 12	6, 7, 12, 14	1214
- buffer (water)	not enough, availability to			
, , ,	pesticides, giving incentives (no			
	residues, no env/health risks)			
	Considering payment for lands not			
	used near waterways (Incentive)			
	Promotion of sustainable			
	environmental practice, farm			
	concepts. Computer programmes			
	inputting nozzle and product info			

	to give buffer zone (purchase).			
- personal protective	5, 6,7, 10,13, giving scientific basis	6,7,10	6,7,13	5
equipment	for using personal protective			
	equipment.			
- drift	6,7, 10,14 Communication is not			
enough				
- rate of application	6,7, 10,14 Communication is not			
(dose)	enough,			
Stocking of obsolete	6,7, 13			
pesticides				
Unlicensed/improper	6,8			
licensed applicator				

^{*}independent meaning have the information already provided by regulators and can implement without further regulatory consultation.

- 4. a) Which strategies in Table B are provided by regulators? Only dealt with "should be".
 - b) Which strategies in Table B should be provided by regulators?
- 5. a) Which strategies in Table B are provided by regulators in partnership with private and voluntary sectors? Only dealt with "should be"
 - b) Which strategies in Table B should be provided by regulators in partnership with private and voluntary sectors?
- 6. a) Which strategies in Table B are provided by the private and voluntary sectors independently from regulators? Only dealt with "should be"
 - b) Which strategies in Table B should be provided by the private and voluntary sectors independently from regulators? Be sure to consider how satisfactory and objective the information provided would be if proposed independently from regulators?

Cannot be sure info from industry is objective, but will have specific product related info.

- 58. From Table B it can be seen a combination of communication strategies is necessary in improving users understanding and knowledge of compliance problems. Information should originate from the authorities to guarantee reliability. Additionally other parties should be involved who have direct contact with the user on a regular/timely basis and consider specific user needs.
- 59. Farmer incentives are useful in communication strategies as ways to achieve awareness/compliance.

^{**}derived from the answers of the regulator and user questionnaires (see "Survey results on pesticides user compliance", May 2006, page 13)

PART B

Examples of knowledge transfer mechanisms to encourage compliance

7. In order to determine if the information provided is understood by the intended audience, what mechanisms are in place to verify this? In the questionnaire a list about the power of authorities was given, comprised mainly of transfer mechanisms on how to encourage user compliance. Please add to the list in Table C, any additional mechanisms to encourage user compliance. Which mechanisms are helpful to increase compliance?

Table C: Examples of knowledge transfer mechanisms to encourage user compliance

•	courage		Comments
Authorities/Regulators			
Compliance promotion	++*#	++	(Education) To tell why to do something and how. Proactive, one part of a stepwise approach.
Warning	++*	+	Used where the user is not aware of non-compliance. Useful for individuals.
Inspection	++*	++	Creates awareness, shows regulators are looking
Investigation (suspect wrongdoing)	+*	+	Creates awareness, shows regulators are looking, or others informing on, wrongdoing.
Compliance agreement	+*	+	Explanation.
Reduce/recall of financial grants	O*	++	European situation.
Detention/seizure	O*	+	
Fines	+*	+	Depends on the dollar value
Prosecution	O*	+	Resource intensive, may be only way to get compliance from unwilling users
Revoke permit/ licence/certification	+*#	++	Effective if grower needs certification to apply pesticides. Must hire someone to apply products instead.
Re-certification /license renewal		+	Every 5 years eg.
Stop advertising	O*	0	Not relevant
Stop import	O*	0	Not feasible
Stop use	O*	+	Can be a measure used by authorities and be very effective if the entire product is removed from availability (based on risk assessment)

^{*} derived from the answers of the user questionnaire (see "Survey results on pesticides user compliance", May 2006, page 9)

derived from the answers of the user and regulators questionnaire (see "Survey results on pesticides user compliance", May 2006, page 15-16)

^{60.} A stepwise approach should be used by the authorities to encourage user compliance. This starts with training progresses into inspections and can end in prosecutions. Table D gives an overview of the available mechanisms. In addition to the governmental actions the group has noted additional third party effective mechanisms.

9. What knowledge transfer mechanisms can be used by organisations other than regulators, e. g. self-control (inspections) by grower organisations, analysis of residues in food?

Table D: Examples of knowledge transfer mechanisms to encourage user compliance (others)

Mechanism to encourage compliance	Helpful to increase compliance? (0, +, ++)	Comments
Others - please specify		
Self monitoring	++	
Duty to maintain records	+	
Contracts (users and retailers or	++	Economic benefit
industry)		
Farm management decision	++	buffer zone advice, selection of
support systems		pesticides
Stewardship and other programmes	++	Various groups working with growers to promote best practices.

4. Additional issues raised during the session

61. Breakout group No 2 went through the current FAO Code of Conduct and discussed the Ten Core Principles of Compliance and Enforcement and the Eight Building Blocks for Programme Implementation. The group fully agreed with all the steps suggested by FAO. They are very helpful in achieving user compliance and should be considered within the OECD activities.

Ten core principles of compliance and enforcement

- 1. Full and Continuous Compliance as the Goal
- 2. Culture of Compliance
- 3. Clear and Well understood Requirements
- 4. Expectation of Self-initiated Compliance
- 5. Likelihood of Detection of Violations (some violations hard to detect)
- 6. Fair and Predictable Government Response
- 7. Level Playing Field
- 8. Message Sending and Deterrence
- 9. Comparable Treatment for Public and Private Sectors
- 10. Transparency and Accountability

Eight building blocks for programme implementation:

- 1. Clarifying roles and responsibilities
- 2. Creating enforceable requirements
- 3. Knowing and understanding regulated entities
- 4. Planning and setting priorities
- 5. Promoting and setting priorities
- 6. Monitoring compliance
- 7. Responding to violations
- 8. Evaluating programme success
- 62. Need extension services (govt paid) advisory groups (often private).

5. Conclusions:

- Need a variety of communication strategies
- There are a number of parties involved in the communication process.
- All parties must deliver clear and reliable information.
- To achieve this aim a communication network must be established.
- Regulators must be the source of information being fed to other parties.
- Need interactive communication between all parties involved.
- Different types of non-compliance need different communication strategies.
- Useful to have a 2 prong Compliance and Enforcement System- Mandatory system (stepwise approach) and Voluntary system (stewardship programmes). Stepwise approach is best for governmental system.
- Support core principles and building blocks of the Guideline on compliance and enforcement of a pesticide regulatory programme based on the FAO Code of Conduct.

6. Recommendations:

- OECD should consider compiling and analysing Compliance and Enforcement systems of the OECD countries should develop an effective practice that can be applied in different countries
- OECD member countries should establish and improve communication networks (regulatory authorities, grower groups, advisory services, industry, educators) in their country

REPORT ON BREAKOUT GROUP NO.3

1. Overall objective

- 63. To develop proposals on how regulators and the user community could modify the regulatory process to avoid unrealistic or very difficult approval conditions
 - to help to ensure that users have the ability to comply
 - seeking to improve regulatory processes and infrastructure
- 64. The main focus of the Breakout group was compliance with label instructions of registered products. However, the break-out group raised concerns over the larger issues of user compliance with non-label requirements and this was discussed during the break-out group.

2. Expected results from consideration of the objective

65. A proposal for possible modifications to the regulatory process that would take into adequate consideration pesticides users' **ability** to comply

3. Participants

66. Keith Jones (chair); Tim Dyke (rapporteur); Barbara Delorme (rapporteur); Lene Gravesen, Warren Hughes, Carmen Dwyer, Nielda Sterkenberg, Anne Lindsay

4. Introductory comments

- 67. Regulators may not always be fully aware of user habits and economic priorities that create impediments to compliance with legislation or regulatory decisions. In addition, pesticide approval conditions may not be realistic, in that they may include conservative instructions for unusual but worst-case scenarios. Effective communication is fundamentally important between regulators and regulated community to obtain expected results ie safe and proper use of pesticides. Questions were raised about what feedback mechanisms exist to assist in evaluation of feasibility of complying, what can be improved, how and by whom?
- 68. In order to comply, users need to know how to comply, be able to comply and be willing to comply (OECD 2000).
- 69. Issues related to these basic compliance principles are:
 - Know how to comply
 - Users must understand how to follow a label instruction
 - Able to comply
 - Label instructions must be practical, not ambiguous, and as simple as possible
 - Willing to comply
 - Users will not simply comply because labels are easy to read and interpret.
 - Compliance may be assisted if users understand why legislation is in place and what is behind it and understand data assessment behind a label
 - Users should see benefits of complying
 - Noted that deliberate or conscious non-compliance can occur eg use for an unapproved pest (that may be driven by farm economics when no approvals are available)

- 70. Relevant to this objective, participants in the introductory plenary session to the workshop raised the issues of
 - developing mechanisms to encourage a culture of compliance amongst users of pesticides
 - the need for a balance between encouraging compliance and using enforcement
 - the need for regulation versus incentives or voluntary actions in order to encourage compliance

5. Summary of Discussions

- 71. The break-out group addressed the objective by answering a set of questions.
- 1. How can regulators and users communicate better as to what is or should be on a label?
- 72. Regulators and users can better communicate during the label approval process, and when changes are being proposed or made to approved labels. In addition regulators and users can interact more in consideration of general label issues that may include label format and content. During the label approval process, regulators could liaise with users on the practical application of proposed label instructions and the options that may exist, should proposed label instructions be seen to be impractical or not consistent with good agricultural practice (GAP). Registrants could also involve users in initial label development. When changes are made to approved labels, users should be provided with obvious, clear advice on what changes have occurred.

When legislation regarding user compliance is being developed

- early front-end involvement of users in development of legislation
- not only through user associations
- users need to see benefits of legislation including the ability to sell crops at the same times as reducing worker danger; also aspects of social responsibility
- greater chance of buy-in by users if involved early

For legislation already in place

- training should focus on reasons behind legislation and benefits of legislation (and compliance) as well as 'what' to comply with
- possible role for user certification after successful training
- standardised competencies linked to training and testing packages

1.1. What improvements can be made to general label format for ease of reading, understanding and pesticide use according to label instructions?

73. A standardized label format could be developed, preferably at an international level and involving regulators, registrant and user associations and other non-government organisations, in order to ensure that mandatory user requirements are clearly and consistently placed on certain parts of a label and that discretionary statements are identified as such or separated. It was noted that the implementation of

- 74. Globally Harmonized System for Classification and Labelling would enable application of hazard symbols to labels.
- 1.2. What improvements can be made to labels for specific product groups or user groups?
- 75. It was considered that certain types of information could be moved off product labels and available by other means. Further, regulators could recognise the distinction between labels available for professional users, compared to amateur users. This would allow different labels to be developed for different user groups.
- 2. How can regulators (or user groups, registrants or others) better educate users on labels and the important user information contained on labels?
- 76. This was also addressed under Objective 2 of the workshop. Education should be a multi-stakeholder approach with input from regulators, registrants and user groups.
- 77. Whilst specific mechanisms were not discussed under this objective, training and certification was seen to be a useful avenue to increase the knowledge and commitment of users to comply with labels.
- 3. What factors need to be considered in order for important instructions on labels to be clear to a user without instructions being too simple, or too prescriptive?
- 3.1. Should different labels be developed for different user groups (e.g. professionals vs. occasional or amateur users)?
- 78. See 1.1. To avoid or reduce inadvertent use in inappropriate situations, uses should be separated as much as possible on labels and consideration be given for specific products to be registered for specific uses by different groups of users.
- 3.2. How can a regulator balance the need for warnings for safe use with a desire to not complicate the label with warnings for many different and possibly unlikely use scenarios?
- 79. Regulators could consult with registrants and users to develop alternatives to the label attached to a product being the only tool by which users are provided essential product information. Whilst an essential amount of information would be required on the label attached to product, it should be possible for regulators to develop alternative means of providing information to users on important information. Such information may indeed include mandatory requirements but may more appropriately be on specific details only relevant to distinct regions or advisory information that users may find helpful in achieving compliance.
- 4. Are there alternatives to labels (or supplementary activities) that would still achieve safe and effective pesticide use? If yes, what are the alternatives?
- 4.1. What is the role for user documents such as codes of practice that supplement legal instruments such as labels?
- 80. There is a role for documents available to users that supplement legal instruments such as labels. The role is somewhat related to 3.2, and should be a focus for further consideration by regulators.

4.2. What role should accreditation or licensing of users play to supplement use according to label directions?

81. More often than not, label instructions on pesticide products are written in such a way that assumes certain levels of knowledge, depending on the product. (i.e. the ability to calibrate machinery to ensure adequate distribution of pesticides). Given this, pesticide users should have a level of training that is appropriate to the product and its use pattern. It is common practice for professionals using potentially dangerous chemicals to be trained and licensed in some form. While *ad hoc* training may provide such training, regulators should consider assessing the feasibility of training programmes that lead to some form of licensing, accreditation or certification of pesticide users – so that only accredited users can use certain products. This would be most effective if competencies were developed and training and testing was based on such competencies.

4.3. How would such alternatives alter the way labels are formatted or used as a legal instrument?

82. See 3.2. The Workshop felt that various information systems could provide mechanisms by which pesticide users could have immediate and up-to-date information on instructions to use specific pesticides, thereby reducing the need for complex labels. Whilst the web provides a ready-to-use mechanism, there was concern that accessibility issues by all pesticide users would need to be addressed. Any such mechanisms that were developed would need to be referenced on the label in an appropriate form.

6. Summary of conclusions

- 83. All groups should try and create a culture of compliance and proposals from this workshop are aimed to facilitate this.
- 84. In order to help to ensure that users have the ability to, and are willing to, comply, the Workshop developed proposals on how regulators, registrants and the user community could modify the processes to avoid unrealistic or very difficult approval conditions. The main focus was compliance with label instructions of registered products however the Workshop considered other non-label user requirements. Processes to improve include training and education, label approval, and user consultation.
- 85. These aim to improve dialogue between regulators, registrants and users to aid understanding of the basis behind the regulation/legislation, how to comply and the benefits of compliance.
- 86. The development of clear, easy-to-understand labels coupled to access and reference to additional non-label information was regarded as a useful tool to help enable the user to be informed of, and comply with, regulatory requirements.

7. Recommendations addressing to governments, to industry, to general users, and to the OECD

- 87. As an over-arching recommendation Regulators and registrants should try to create a culture of compliance amongst pesticide users so that it is simple to understand how to use pesticides 'the right way'
 - 1. Mechanisms should be established to facilitate better communication between regulators and users
 - 2. Governments should ensure that legislation should enable the regulator to make appropriate risk management decisions
 - 3. Regulators should consider not approving uses that have a high risk of non-compliance or if use does not follow good agricultural practice; consider alternative regulatory approaches that may be person-limited or time-limited

- 4. Regulators should explore behavioural reasons behind non-compliance; tools to promote compliance should be appropriate for the behaviour.
- 5. Regulators, registrants and user groups should communicate the benefits of compliance (economic e.g. reduced environmental subsidies if a violation of certain regulations, market access, as well as environmental and social benefits)
- 6. Regulators, registrants and user groups should ensure that any documents separate to the label and used by growers are be consistent with the registered/approved label
- 7. Regulators, registrants and user groups should explore the feasibility of user training and certification to ensure certain level of knowledge appropriate for the use conditions
- 8. Regulators should explore mechanisms to involve users/stakeholders in the development of non-label user requirements. These may include regulations, legislation etc.
- 9. OECD should explore standardisation of labels and engage in a co-ordinated approach with other organisations such as FAO
- 10. Regulators, registrants and user groups should explore the use of website links, 1-800 phone numbers and other resources as source of supplementary information to the label. Supplementary information may include mandatory requirements, local restrictions or additional guidance
- 11. Regulators, registrants and user groups should explore mechanisms to simply communicate major use changes to compliance requirements and/or labels
- 12. Regulators and registrants should explore the need for separate major use requirements (e.g. domestic vs agricultural) on the label, into two separate labels or as different registered products
- 13. Regulators and registrants need to consider label updates over time to adapt to current agricultural practices and technology.

8. References

OECD Survey Results on Pesticides User Compliance, preliminary report, May 2006.

OECD Second Risk Reduction Survey: Draft final report 18th Meeting of the Working Group on Pesticides, June 2005

OECD Report of Seminar on Risk Reduction through Good Pesticide Labelling, June 2005

OECD Series on Pesticides Number 24. Report of the OECD Pesticide Risk Reduction Steering Group Seminar on Compliance and Risk Reduction, March 2003

Health and Safety Executive, Contract Research Report 390/2001. The Effectiveness of Labelling of Pesticides, http://www.hse.gov.uk/research/crr pdf/2001/crr01390.pdf

Reducing the risk of policy failure: Challenges for Regulatory Compliance, OECD 2000

REPORT ON BREAKOUT GROUP NO.4

1. Overall objective

88. To discuss and develop approaches to measure the effectiveness of compliance programmes in achieving risk reduction objectives using a logic model. The product of the break out group will be 1-2 logic models. The logic model developed by this group can be used as an example for OECD member countries

2. Participants

89. Peter MacLeod (chair), David Stangel (rapporteur), Daniel Helfgott (raporteur), Samia Hirani (raporteur), Julie Marcil (raporteur), Craig Hunter, Kate Perry, Michael Stahl, Kim Kennedy, Jeff Parsons, Wolfgang Zornbach, Jeong Won Park, Anne Lindsay

3. Introduction

- 90. A logic model graphically depicts the relationships between the resources invested, activities undertaken, and the results of those activities. For purposes of identifying meaningful measures, the logic model can help determine which programme and outcomes need to be measured.
- 91. During the breakout group discussions, an example of a logic model was developed.
 - Part A: Guidance for creating a logic model
 - Part B: Example of a logic model
 - Part C: Assumptions and Limitations in creating a logic model
 - Part D: Discussion
 - Part E: Recommendations/Conclusions

4. Guidance for creating a logic model:

- 1. Clarify key terms within logic model (i.e. outcomes, output, input, etc...)
- 2. Develop a list of assumptions surrounding the final outcomes and measures as you create the logic model
- 3. Start from a blank model and work right to left, filling in the fields in the following order:
 - a. Final outcomes (i.e. desirable result)
 - b. Intermediate outcomes (i.e. behavioral change)
 - c. Immediate/short-term outcomes (optional)
 - d. Output (i.e. activities)
 - e. Inputs (i.e. resources)
- 4. Use a facilitator with experience in developing logic models
- 5. Brainstorm ideas within a group of stake holders (ie regulator, compliance practitioner, user, industry) with a working knowledge of the issue
- 6. Receive buy-in from the parties involved
- 7. Populate the template with key outputs, intermediate and final outcomes, then add measurement criteria last.
 - a. Link outputs to outcomes
- 8. Evaluate potential measures developed for the logic model through a selection criteria to see if they can be feasibly implemented
 - a. Selection Criteria (See Table A, Selection Criteria).

- 9. Determine whether or not the selected activity is feasible:
 - a. Determine whether sufficient resources are available to accomplish the goal or whether a lower target is preferable
- 10. Acknowledge the limitations of the logic model (See Part C)
- 11. Leave room for progressive behavior target improvements. This can be addressed by keeping the outcome goal consistent over time and using graduated targets, as determined by the measures selected.
- 12. Logic models are a management tool to evaluate whether expected outcomes are being achieved over time. Therefore, logic models need to be reviewed and revalidated on an ongoing basis to determine if the expected outcomes are continually being achieved (based on measures). If these outcomes are not or no longer being achieved, then a decision needs to be made whether to increase the level of outputs or change/add new outputs.

Table A, Selection Criteria

Relevant	Is relevant to goals, objectives, priorities of programme and external stakeholders		
Transparent	Promotes understanding, enlightens users about programme performance		
Credible	Is based on complete and accurate data		
Functional	Encourages programmes and personnel to engage in effective, constructive behavior, activities		
Feasible	The cost of implementing and maintaining the measure does not outweigh its value to programme		
Comprehensive	Addresses the important operational aspects of programme performance		

5. Logic Model Example

<u>INPUTS</u>	<u>OUTPUTS</u>	INTERMEDIATE OUTCOMES	FINAL OUTCOMES
Resources	Activities	Behavior Change	Environmental Impact
Staff	9. Training and certification of users (as measured by number trained and certified).	Users comply with label requirements for: buffer zones, reduced application rates, application technology, storage technology, storage and disposal requirements. As Measured By: - compliance rate-	Maintain or improve water quality in order to protect the aquatic environment and human health. As measured by: - Systematic water monitoring Reduction in fishkills Increase of aquatic species population Reduction in residue levels in fish or other aquatic species Reduction in watershed exceedences.

<u>INPUTS</u>	OUTPUTS	<u>S</u>	INTERMEDIATE	<u>FINAL</u>
			OUTCOMES	OUTCOMES
Resources	Activities		Behavior Change	Environmental Impact
				- Reduction in water/fish advisories
Budget	10. Targeted use field	er and	Reduce use of unregistered products or uses, or canceled products.	***************************************
	inspections/ce monitorin		- As measured by above measures, PLUS	
	11. 12 As Measur	ed By:	 reduced number of incidents 	
	(# of inspect x period of t inspection ty	tions over	involving unregistered products (data may be difficult to get).	
	13. Enforcemen (# of enforce	t actions ement	Use of more water friendly registered alternatives.	
	actions over of time by ty		As measured by sales statistics, and imports, monitoring of residues on food (e.g., PDP data in US).	
	14. Training of inspectors at assistance profession of the control	roviders	Reduction in Stop Sales due to WQ concerns.	
	state/tribal/p). (number of percentage of inspectors/p) trained or #	orovincial or of roviders		
	workshops) 15. User suppor (compliance assistance/pi info sessions outreach, ex Stewardship measured by	romotion: s, public tension.	Reduction in use (sales?) of unregistered pesticides As measured by ????	
	website, use sessions, # c attending ses brochures di 16. Water monit (#sites moni stream miles monitored, # samples take	or training of people ssions, # istributed, toring stored, s # of	Implementation of bmps. - As measured by # of survey response indicating adoption of BMPs.	
	17. Formulation BMPs (# of stakeholder workshops, developed, s and disposal	multi- # BMPs storage	THEREFORE: Reduce risk of water contamination from use of pesticide (ground water).	
	_	,	Reduce risk of water contamination from use of pesticide (surface water).	
	18. Surveys of u practices.	ise		
	19. Either mone gold star inc programmes	entive		
	following B 20. Early or con access to ne	MPs. tinued w tools		
	for high con 21. Programme audits by the regulated en	of self-		

INPUTS	<u>OUTPUTS</u>	INTERMEDIATE	<u>FINAL</u>
		OUTCOMES	<u>OUTCOMES</u>
Resources	Activities	Behavior Change	Environmental Impact
	identify problems		
	areas of		
	noncompliance and		
	allow establishment		
	of a prioritized		
	compliance plan		
	within a finite period		
	of time. (# of audits		
	performed and # of		
	compliance plans)		

6. Assumptions and Limitations

- 1. People will comply given knowledge and ability if the consequences are sufficient to deter noncompliance.
 - a. knowledge understood by all
- 2. Data is accessible and available
- 3. Regulations and requirements should be clear and understandable
- 4. Ensure tools (i.e., BMP's, training programmes, surveys) are developed and available to parties
- 5. A completed logic model may not be transferable from:
 - a. one outcome to another
 - b. one geographic location to another
 - c. one political framework or legislative mandate
- 6. There may be other factors that influence the final outcome

7. Discussion

- 1. Communication
 - Explain the process of the logic model, deliver the results and then propose an implementation plan.
- 2. Other Models for Measurement
 - There are other models which can be used to develop measures. The BOG was not able to evaluate these alternatives.
- 92. The logic model was found to be a good communication tool to describe and outline regulatory activities. Not only is it very visual, but it also outlines both the input and output section of activities description and their associated outcomes. The latter, which are too often poorly described or understood, are a very important part in determining if the chosen activities or outputs produce the appropriate results or should be modified. With the limited resources and the increase transparency of government organizations, they are held accountable for their actions which must be justifiable to their directors, stakeholders or the general public. The logic model makes a direct link between input, output, intermediate outcomes, and eventually final outcomes and can be use to justify budget requirement and how the different resources will be use to create the expected outcomes. By measuring and reporting the intermediate and final outcomes, the logic model can also be use to communicate the results and impacts of regulatory activities to the stakeholders and the public. Other model or modifications of the current logic model could also be use to outline and measure the outcome of regulatory activities. Alternative to the current model could be as simple as adding an "immediate" or "short term outcomes" column. This may help to directly link output to outcomes. In the short period of time that our breakout group had to develop the logic model, we were not able to evaluate other alternatives to the logic model.

8. Recommendations/ Conclusions

- 93. The group concluded that the logic model was a useful management tool in assessing whether the outputs are directly linked to the intended final outcome or if adjustments need to be made.
- 94. The logic model:
 - Is simple to understand and use;
 - Sets clear assumptions and expectations about how and why a programme will solve a particular problem.
 - Explains how a programme is linked to intended results
 - Provides budget justification and explains the need for a programme.
 - Helps to identify what to measure.
 - Is a good communication tool.
- 95. The group recommends that OECD member countries consider using logic models as a tool to develop measures to evaluate various programmes and their effectiveness. While this particular logic model was used, there may be other models and/or tools available, which may more closely suit a country's needs. Those countries that have used logic models, or other models are encouraged to share their models and experiences with other OECD member countries. The group also recommends that OECD WGP consider accessing International Network for Environmental Compliance and Enforcement (INECE) as a resource on this issue.

IV. CONCLUSIONS AND RECOMMENDATIONS

Summary of main conclusions

- 96. In order for users to comply, notably with label instructions, they must have understandings on the instructions and ability and willingness to comply with the instructions. The Workshop identified the most common types of compliance, mechanisms to communicate risks associated with non-compliance, better regulatory mechanisms to ensure user compliance and ways in which the effectiveness of compliance programs can be measured.
- 97. In all cases brought to the attention of a regulator, an action should be taken in response to situations where non compliance is detected. Risk based principles can be helpful in determining the level of risk associated with the incident and how to manage the non-compliance and the anticipated risk. In order to use risk-based principles, it is important to have sufficient information, but that does not mean that there is a need for complete information. The use of risk management principles can further lead to a list of possible options for response. The nature of the response should take into consideration the level of risk.
- 98. There is a need of a variety of communication strategies to communicate to users the risks associated with non-compliance and the benefits of compliance. There are a number of parties involved in the communication process. All parties must deliver clear and reliable information. To achieve this goal a communication network must be established. Regulators must be the source of information being fed to other parties. Interactive communication is needed between all parties involved. Different types of non-compliance need different communication strategies. It is useful to have a two pronged approach for compliance and enforcement systems a mandatory system (step-wise approach) and a voluntary system (stewardship programmes). The workshop supported core principles and the building blocks in the

Guideline on compliance and enforcement of a pesticide regulatory programme contained within the FAO Code of Conduct.

- 99. All groups (regulators, registrants, users, non-governmental organizations and international organizations) should try and create a culture of compliance proposals from this workshop aim to facilitate this. In order to help ensure that users have the ability to, and are willing to, comply, the Workshop developed proposals on how regulators, registrants and the user community could modify regulatory processes to avoid unrealistic or very difficult approval conditions. Processes to be improved include training and education, label approval, and user consultation. These aim at improving dialogue between regulators, registrants and users, to aid at understanding the basis behind the regulation/legislation, how to comply and the benefits of compliance. The development of clear and easy-to-understand labels coupled to access and reference to additional non-label information was regarded as a useful tool to help enable the user to be informed of, and comply with regulatory requirements.
- 100. The logic model was a useful management tool in developing and assessing compliance programs and whether the outputs are directly linked to the intended final outcome or if adjustments need to be made. The logic model is simple to understand and use; sets clear assumptions and expectations about how and why a programme will solve a particular problem; Explains how a programme is linked to intended results; provides budget justification and explains the need for a programme; helps to identify what to measure; and is a good communication tool.

Summary of recommendations

Recommendations to all bodies involved

- All groups (regulators, registrants, users, non-governmental organisations and international organisations) should try and create a culture of compliance – proposals from this workshop aim to facilitate this.
- Regulators, registrants and user groups should communicate the benefits of compliance (economic e.g. reduced environmental subsidies if a violation of certain regulations, market access, as well as environmental and social benefits)
- All groups should create mechanisms to promote a need for collaboration of various groups for users to have the necessary tools for them to comply with rules and regulations.
- Regulators and users should strengthen mechanisms to facilitate better communication between regulators and users. This may include user focus groups before label approval and during re-considerations.
- Regulators, registrants and user groups should communicate the benefits of compliance (economic e.g. reduced environmental subsidies if a violation of certain regulations, market access, as well as environmental and social benefits)
- Regulators, registrants and user groups should ensure that any documents separate to the label and used by growers needs to be consistent with the registered/approved label
- Regulators, registrants and user groups should explore the feasibility of user training and certification to ensure certain level of knowledge appropriate for the use conditions
- Regulators, registrants and user groups explore use of website links, 1-800 phone numbers and other resources as source of supplementary information to the label. Supplementary information may include mandatory requirements, local restrictions or additional guidance

• Regulators, registrants and user groups should explore mechanisms to simply communicate major use changes to compliance requirements and/or labels

Recommendations to the governments (regulators)

- No uses on label of high risk of non-compliance (not practical or unrealistic instructions for users). In such cases there is a need for collaboration between users, registrants and regulators to facilitate the availability of a suitable alternative
 - a) regulators should not be making decisions that may place users in a non-compliant position
 - b) regulators should not be creating impediments to compliance
- Regulators need to engage and consult more effectively with industry and user groups over label compliance.
- Governments should ensure that legislation should enable the regulator to make appropriate risk management decisions
- Regulators should explore behavioural reasons behind non-compliance; tools to promote compliance should be appropriate for the behaviour
- Regulators should explore mechanisms to involve users/stakeholders in the development of non-label user requirements. These may include regulations, legislation etc.
- Further collaboration among OECD member states (includes rule makers and inspectors) to develop a risk management approach to situations of non compliance
 - Including consultation with user groups and pesticide industry, and third party inspectors
- OECD member countries should establish or improve communication networks (regulatory authorities, grower groups, advisory services, industry, educators) in their country.
- OECD member countries should consider using logic models as a tool to develop measures to
 evaluate various programmes and their effectiveness. While this particular logic model was
 used, there may be other models and/or tools available, which may more closely suit a
 country's needs.
- Those countries that have used logic models, or other models are encouraged to share their models and experiences with other OECD member countries.

Recommendations to regulators and registrants

- Regulators and registrants should explore the need for separate major use requirements (e.g. domestic *vs.* agricultural) on the label, into two separate labels or as different registered products
- Regulators and registrants need to consider label updates over time to adapt to current agricultural practices and technology

Recommendations to industry

• Label design/information in such a way that users can comply with rules and regulations

Recommendations to OECD

- OECD should explore standardization of label format and ensure that this is done in a coordinated way with other organizations such as FAO
- OECD should compile Compliance and Enforcement systems of the OECD countries and analyse them to develop effective practices that can be applied in different countries.
- OECD WGP should consider accessing International Network for Environmental Compliance and Enforcement (INECE) as a resource on this issue.

CONCLUDING REMARK

101. The chair of the OECD pesticides risk reduction steering group, Dr Wolfgang Zornbach, presented highlights from the two and a half day workshop, and further steps to be taken once the workshop had ended. He also took the time to thank the hosts, organising committee and participants for an engaging and insightful workshop, which had developed strong conclusions and recommendations.

ANNEX I. FINAL WORKSHOP PROGRAMME

OECD WORKSHOP ON PESTICIDE USER COMPLIANCE ISSUES

Workshop Programme

6-8 June 2006 Crowne Plaza, Ottawa, Ontario Joliet & Frontenac Rooms

DAY 1 (Tuesday, 6 June 2006)

Time	Item	Topic	Duration
07:30		REGISTRATION & BREAKFAST *	
08:30	1a	WELCOME Karen McCullagh, Workshop Chair, Director, Regional Operations & Lab Services Division, Pest Management Regulatory Agency, Health Canada	15 minutes
		Karen Dodds, PMRA's Executive Director	
08:45	1b	INTRODUCTION OECD Secretariat Overview of OECD programmes on pesticides; Outcomes of Compliance and Labelling Seminar	15 minutes
	2	OPENING PLENARY PRESENTATIONS	
09:00	2a	Allan Brown, E. I. du Pont Canada Company Subject: Strategies to improve user compliance, manufacturers' point of view.	30 minutes
09:35	2b	Bob Friesen, Canadian Federation of Agriculture (CFA) Subject: Users' perception of compliance. Suggestions on how to improve user compliance	30 minutes
10:10		BREAK	
10:25	2c	Anne Lindsay, United States Environmental Protection Agency (US EPA) Subject: Strategies to improve user compliance, regulators' point of view.	30 minutes
10:55	2e	Michael Stahl, US EPA	

		Member of the International Network for Environmental Compliance and Enforcement (INECE) Expert Working Group Subject: Performance Measurement: Enforcement and Compliance Indicators	30 minutes	
11:30	3	PANEL DISCUSSION Question and answer session	60 minutes	
12:30	LUNCH	1 **		
14:00	4	INSTRUCTIONS FOR BREAK-OUT GROUP DISCUSSION Workshop Chair: Karen McCullagh	15 minutes	
14:15	5a	FIRST BREAK-OUT GROUP DISCUSSION	75 minutes	
		Session I : Criteria to identify and manage types of non- compliance Group Facilitator – Karen McCullagh, PMRA Rapporteur – Pierre Leblanc, PMRA and Julie Marcil, PMRA		
		Session II: Achieving compliance with labels and terms/conditions of registration Group Facilitator – Karin Corsten, Federal Office of Consumer Protection and Food Safety, Germany Rapporteur – Shawn Fancy, PMRA		
		Session III: Modifying regulatory process to ensure user's ability to comply Group Facilitator – Keith Jones, CropLife International Rapporteur – Timothy Dyke, Pesticides & Veterinary Medicines Authority, Australia (APVMA) and Barbara Delorme, PMRA		
		Session IV: Measuring effectiveness of compliance programmes Group Facilitator – Peter MacLeod, CropLife Canada Rapporteur – Daniel Helfgott, US EPA, David Stangel, US EPA and Samia Hirani, PMRA		
15:30		BREAK		
15:45	5b	FIRST BREAK-OUT GROUP DISCUSSION (Continued) (preparation for the plenary summary presentations on Day 2)	75 minutes	
17:00	17:00 END OF DAY 1			
Reception for all workshop participants (17:00-19:00)				

DAY 2 (Wednesday, 7 June, 2006)

Time	Item	Торіс	Duratio
07:30		BREAKFAST *	
08:30	6a	PLENARY SUMMARY PRESENTATION OF OBJECTIVE #4 Rapporteur of group 4	20 minute
08:50	6b	PLENARY DISCUSSION OF OBJECTIVE #4	55 minute
09:45	7a	PLENARY SUMMARY PRESENTATION OF OBJECTIVE #3 Rapporteur of group 3	20 minute
10:05	BREAK		
10:20	7b	PLENARY DISCUSSION OF OBJECTIVE #3	55 minute
11:15	8a	PLENARY SUMMARY PRESENTATION OF OBJECTIVE #2 Rapporteur of group 2	20 minute
11:35	8b	PLENARY DISCUSSION OF OBJECTIVE #2	55 minute
12:30		LUNCH **	
14:00	9a	PLENARY SUMMARY PRESENTATION OF OBJECTIVE #1 Rapporteur of group 1	20 minute
14:20	9b	PLENARY DISCUSSION OF OBJECTIVE #1	55 minute
15:15		BREAK	
15:30	10	SECOND BREAK-OUT GROUP DISCUSSIONS Incorporate feedback from the plenary discussion and consolidate conclusions for all four objectives	75 minute
16:45	11	CLOSING COMMENTS Workshop Chair: Karen McCullagh	15 minute
17:00		END OF DAY 2	

DAY 3 (Thursday, 8 June 2006)

Time	Item	Торіс	Duration
08:00		BREAKFAST *	
09:30	13a	CLOSING DISCUSSION All participants (finalising conclusions; identifying recommendations; identifying possible areas of harmonisation)	60 minutes
10:30		BREAK	
10:45	13b	CLOSING DISCUSSION (Continued)	60 minutes
11:45	14	CONCLUSIONS AND RECOMMENDATIONS Karen McCullagh, Workshop Chair Richard Aucoin, Canadian delegate to OECD's WGP	30 minutes
12:15	15	NEXT STEPS Wolfgang Zornbach, Chair of OECD Pesticide Risk Reduction Steering Group Ministry of Food, Agriculture and Consumer Protection, Germany	15 minutes
12:30		END OF WORKSHOP	

^{*} Continental Breakfast includes: Chilled Orange and Grapefruit Juice, Fresh Fruit Salad, Bakers Basket of Traditional Croissants, Danish Pastries, Muffins, Toast, Bagels, Fruit Bread or Scones (choice of 3), Butter and Preserves, Coffee and Tea (Regular and Herbal).

^{**} Please note that lunches and dinners are not provided.

ANNEX II. PARTICIPANT LIST

PARTICIPANTS LIST FOR OECD WORKSHOP ON USER COMPLIANCE ISSUES

6 - 8 June 2006

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ANNEX III. PLENARY SESSION PRESENTATIONS

Strategies to Improve User Compliance (Allan Brown, E. I. DuPont Canada)

Slide 1



Representing the Plant Science Industry

Strategies to Improve User Compliance Allan Brown E.I. DuPont Canada

Slide 2



FAO Code of Conduct

- · Globally accepted standards
- · Implemented by industry and governments
- · Promote practices for safe use
- · CropLife members are signatories



Farmers

- · Stewards of the Land
- Conservationists preserve the farm for future generations
- · Operating a business
- · Pesticides a business cost
- · Judicious use is good business

Slide 4



User Compliance Issues

- · Crops not on the label
- · Inadequate PPE Exposure concerns
- · Inadvertent Misuse Counterfeit Products



Use on Crops Not on the Label

- Pest problem not controlled with available REGISTERED products
- · Food residues illegal
- · Application errors
- · Unsafe PHI or re-entry
- · Internet search of foreign labels

Slide 6



Strategies

- · Minor Crop Registration Programs
- Cooperative efforts Growers, Manufacturers, Regulators
- · Examples: IR-4

Pest Management Centre



Personal Protection - applicators & bystanders

- · Reading and Understanding Labels
- · Training in proper use
- · Availability of PPE

Slide 8



Outcomes of previous seminar on Compliance

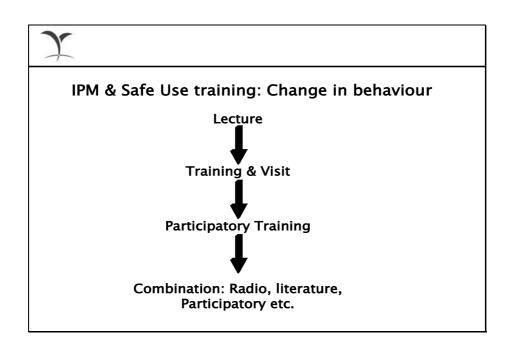
- "Labels need to be simpler, clearer and better adapted to farmer's needs"
- · "Raising awareness through training"



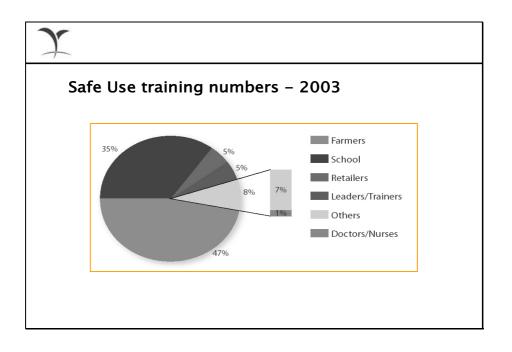
How do we simplify labels?

- · Highlight what is most important
- · Use recognizable symbols
- · Avoid GHS Confusion
- · Make mitigation measures practical

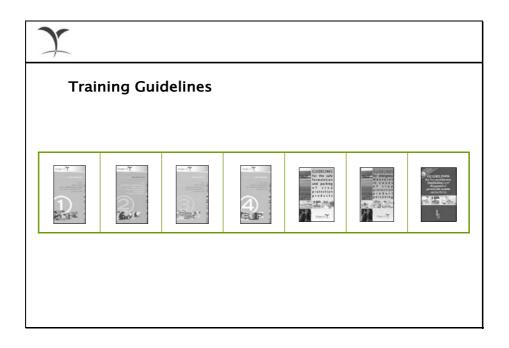
Slide 10



Slide 11



Slide 12





Personal Protective Equipment

- · Recommendations appropriate to climate
- · Available and affordable

Slide 14



Strategies for PPE Compliance

- · Simplify Critical Warnings and Requirements
- · Continue Training of Users
- · Ensure Recommendations are Practical



Inadvertent Misuse of Products - Counterfeit

- · Grower uses wrong product accidentally
- · Product is high in impurities
- · Enforcement is Needed to Protect Growers

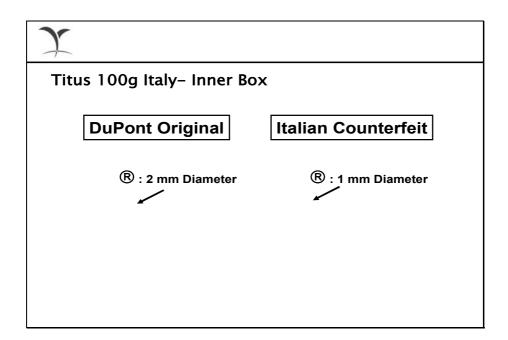
Slide 16



Counterfeit product with the wrong sulfonylurea killed Maize crops in several countries in Europe in 2004

DuPont Titus® Herbicide Corn near Asti, Italy, 2004, counterfeit Titus® Herbicide

Slide 17



Slide 18



Summary of Compliance Strategies

- · Strong Minor Use Programs
- · Clear Labels
- · Training on Safe Use
- · Enforcement of Counterfeit Products

Users' Perception of Compliance (Bob Friesen, Canadian Federation of Agriculture)

Slide 1

Users' Perception of Compliance

Bob Friesen
Canadian Federation of Agriculture

June 6th 2006

Slide 2

Current Situation

Farm Debt in 2004: \$48.9 billion

- In the decade of 1995-2004 Farm Debt has grown a total of 90% (Statistics Canada)
- Realised Net Income in the last 4 years the worst in Canadian History.
- Farmers are increasingly leveraging their farms to survive.

Grower Realities

- · Growers need to make a living!
- Pesticide costs up to 30% of variable costs
- Growers hate to apply pesticides, and will avoid doing so by using the most effective choices for best results
- Growers and their families live on the farm, and have NO wish to contaminate or be contaminated
- Growers take courses, go to training sessions, and get updated on new products annually

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Slide 4

PEI Experience

- · Farmers feel over regulated
- The regulations are not farmer friendly, instead they satisfy public perception
- Cumbersome, expensive, difficult
 - Certification required for transport of treated seed
- Regulation vs. Incentive
 - Need to recognise farmers for the good they do and provide incentive to have them go above and beyond the call of duty.
 - · Due diligence

Horticultural Perspective

- Lack of availability of safe, low impact, effective and acceptable pest control products
- Forced to use older, higher rate, longer residual, and less effective products
- Restrictions that arise from long PHIs, excessive PPE, and reduced efficacy leading to increased rates and frequency of use
- International trade restrictions from nolonger allowed residues of old products

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Slide 6

What Growers Need

- Clear label instructions: overprint colour warning symbols onto rate tables for impact
- Reasonable PPE requirements: overkill leads to disdain, and avoidance
- Labeled rates for maximum safe dose: growers will reduce rates from there, but NOT exceed
- Maximum seasonal crop dose for multiple use products (Insecticides & Fungicides)
- MRLs that cover GAP under all use conditions

Wish List

- Make universal pesticide product availability across borders to level trade, MRL, and use pattern issues
- Develop lighter, breathable fabrics for PPE to enhance use thereof
- Improve charcoal filtration systems for tractor cabs to reduce PPE needs
- Develop battery operated AC units that plug into PPE suits for mixing/loading etc.
- Enhance research programs to find better pest management solutions to reduce spray needs

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Slide 8

Conclusion

- Equality of Access with our competitors
 - · Availability of products, Similar range of uses
 - Are differences with competitors backed by science?
- Regulations vs. Incentives
 - Farmer Friendly vs. Public Perception
- More Science and research

The more tools, the more likely to have the right tool, resulting in overall less spray.

Thank You

The CFA is a farmer-funded, national umbrella organization representing provincial general farm organization and national commodity groups. Through its members, it represents over 200,000 Canadian farm families across Canada

A Regulatory Perspective on Pesticide User Compliance (Anne Lindsay, US EPA)

Slide 1

A Regulatory Perspective on Pesticide User Compliance

Anne E. Lindsay,
Deputy Director
Office of Pesticide Programs
U.S. Environmental Protection
Agency

Slide 2

Overview of EPA Pesticide Regulation

- o Office of Pesticide Programs (OPP)
- o Office of Enforcement & Compliance Assurance (OECA)
- o State/Tribal "lead" Agencies -- "primacy" for enforcement in field

EPA Overview (continued)

- o Label is enforceable since 1970's
- o Use directions, personal protection instructions, risk mitigation measures
- o Slogan of enforcement "The label is the law"

Slide 4

Identify types of non-compliance

- o Use for unregistered purpose
- o Not comply with label directions
- o Not comply with other regulations:
 - o Worker Protection Regulations (Ag. Employers)
 - o Adverse effects reporting (registrants)

Achieve compliance with label

- o Certification and training
 o Some limitations in current scope
- o Outreach on policies/decisions
- o The label itself

Slide 6

Label language factors

- Ambiguity
- Complexity
- Obsolescence
- Practicality

Ensure ability to comply

- Consult during decision process
- Reality checks with users/enforcers
- Provide others opportunity to initiate issue discussions

Slide 8

Measure effectiveness of compliance to reduce risk

- OPP and OECA measure different things, but for same outcome goals
- Example reduce adverse incidents for 6 pesticides with highest rate
 - Both compliance and enforcement aspects

Opportunities to collaborate/harmonize

- GHS will harmonize some labeling
 Continue to move forward
- Standardize more label elements
- Communicate compliance problems, e.g., internet sales; new technologies

Measuring Performance of Compliance Programmes (Michael M. Stahl, US EPA and member of INECE)

Slide 1

Measuring Performance of Compliance Programs

OECD Workshop on User Compliance Issues June 6, 2006

> Michael M. Stahl, Director Office of Compliance U.S. Environmental Protection Agency

Member, INECE Expert Working Group on Compliance and Enforcement Indicators

Slide 2

Presentation Outline

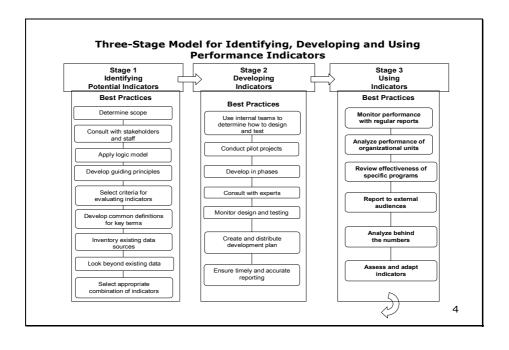
- Introduction
- Key Terms in Performance Measurement
- Identifying, Designing and Using Measures
- Additional Suggestions

Key Terms

- Inputs staff, time, funding, materials, equipment
- Outputs activities, events, services and products that reach a regulatee (number of inspections)
- Outcomes results of outputs
 - Intermediate outcomes progress toward a final outcome (change in behavior)
 - Final outcomes ultimate result the program is designed to achieve (air quality)

3

Slide 4



Slide 5



Inputs	Outputs	Intermediate Outcomes	Final Outcomes
resources	activities	behavior change	environmental impact
Personnel	Inspections conducted	Greater understanding of how to comply	Reduced pollution emissions
Funds for salaries, contracts, etc.	Enforcement actions taken	Improved environmental management practices	Improved ambient water quality
	Fines assessed and collected	Increased compliance	Reduced contaminant burden in wildlife species

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Slide 6

Selection Criteria

Relevant	Is relevant to goals, objectives, priorities of program and external stakeholders
Transparent	Promotes understanding, enlightens users about program performance
Credible	Is based on complete and accurate data
Functional	Encourages programs and personnel to engage in effective, constructive behavior, activities
Feasible	The cost of implementing and maintaining the measure does not outweigh its value to program
Comprehensive	Addresses the important operational aspects of program performance

О

Sample Output Measures

- Number of inspections and investigations conducted
- Number of civil and criminal enforcement actions
- Number of facilities/entities reached through compliance assistance efforts
- Number of training courses and other capacity-building efforts provided to programs at sub-national levels

7

Slide 8

Sample Outcome Measures

- Amount of pollutants reduced through enforcement actions
- Amount of soil removed, gallons of groundwater treated via enforcement actions
- Monetary value of pollution control projects required by enforcement actions
- Number of entities seeking compliance assistance from program
- Actions taken as a result of assistance from program
- Rate of recidivism among significant violators and average time to return to compliance
- Statistically valid compliance rates for key regulated populations

Problem-Oriented Measures

- Tailored to the particular type(s) of non-compliance being targeted
- Challenges: differences in definitions of noncompliance and legal authorities of each country, inherent obstacles in developing meaningful compliance rates
- Addresses question: how are we performing in reducing or eliminating the specific problem(s)?

9

Slide 10

Program-Oriented Measures

- Focused on the effort (i.e. outputs) and results (i.e. outcomes) achieved with respect to broad categories of non-compliance
- Challenges: varying types of data used by different nations, lack of measurable outcomes regarding pesticide use
- Addresses question: how are we performing in producing outputs and outcomes designed to generally reduce non-compliance

Additional Suggestions

- Logic models are a useful tool in sorting out activities, results and their relationships.
- Selection criteria are very valuable for identifying which potential measures should be advanced to implementation.
- The contribution and value of intermediate outcomes should not be overlooked in developing measures.

11

Slide 12

Contact Information

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ANNEX IV. LIST OF BACKGROUND DOCUMENTS

Objective I

Integrated Risk Management Framework

Treasury Board of Canada Secretariat

Pesticide Risk Indicators at National Level and Farm Level

Swedish Chemicals Inspectorate

Workshop on pesticide risk indicators for man and the environment

EU sponsored HAIR project

Environmental Risk from European Agriculture

European Centre for Nature Conservation

Prevention of Illegal International Traffic

In Toxic and Dangerous Products

Third Session of the Intergovernmental Forum of Chemical Safety (IFCS)

Objective II

Final Report – Executive Summary

Fourth Session of the Intergovernmental Forum of Chemical Safety (IFCS)

(Also relevant to objective#1)

Guidance elements for the detection, prevention and control of illegal traffic in hazardous wastes: draft

training manual for the enforcement of laws implementing the Basel Convention

United Nations Environmental Programme (UNEP)

(Also relevant to objective#1)

Code of Practice for Using Plant Protection Products

United Kingdom's Pesticides Safety Directorate

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

United Nations Institute for Training and Research (UNITAR)

Code of Conduct on the Distribution and Use of Pesticides

Food and Agriculture Organisation (FAO)

Guide for Industry on the Implementation of the FAO Code of Conduct on the Distribution and Use of

Pesticides

CropLife

Objective III

Guidelines on Personal Protection when using crop protection products in hot climates

CropLife

(Also relevant to objective #2)

Objective IV

Performance Measurement Guidance for Compliance and Enforcement Practitioners

INECE

ANNEX V. SURVEY RESULTS

SURVEY RESULTS ON PESTICIDES USER COMPLIANCE

BACKGROUND DOCUMENT FOR OECD USER COMPLIANCE WORKSHOP

I. Survey on the national and international practices of pesticides user compliance

- 102. The main focus of the questionnaire is on the regulatory compliance with the use of pesticides products in OECD member countries. It includes current and major compliance issues which are directly relevant to the workshop objectives. The questionnaire responses are collated as background information to provide participants guidance for their breakout group discussions.
- 103. As of 2 May, 2006, fifteen countries returned their completed questionnaires, including fourteen member countries and Slovenia. The fourteen member countries include Australia, Belgium, Canada, Denmark, Finland, Germany, Ireland, Japan, New Zealand, Norway, Slovak Republic, Sweden, Switzerland, and the United States. A template per country summarising the results based on completed questionnaires is attached as ANNEX.

The status of collecting responses

	Regulator Questionnaire	User Questionnaire
Australia	9	3
Belgium	1	2
Canada	1	13
Denmark	2	-
Finland	1	1
Germany	9	2
Ireland	1	-
Japan	1	1
New Zealand	1	2
Norway	1	-
Slovak Republic	1	-
Slovenia*	1	1
Sweden	1	-
Switzerland	1	-
United States	1	-
Total	32	25

^{*} Note that Slovenia is not an OECD member country.

II. Summary of the results

104. This summary follows the structure of the template corresponding to each workshop objective.

1. General Information

Pesticide regulators

Country	Regulators
Australia	
	Regulation of pesticides up to and including the point of retail sale
	Australian Pesticides and Veterinary Medicines Authority
	Regulation of pesticide use
	Australian Capital Territory - Environment A.C.T.
	Northern Territory - Department of Primary Industry, Fisheries and Mines
	Western Australia - Department of Agriculture; Department of Health
	South Australia - Primary Industries and Resources
	Victoria - Department of Primary Industries; Department of Human Services
	New South Wales - Department of Environment and Conservation
	Queensland - Department of Primary Industries and Fisheries
	Tasmania - Department of Primary Industries, Water and Environment
Belgium	Name of National Regulator and Country: Belgian Food Agency Name of Contact: Schmit Jean-
	François
	Phone: +32 (0)2 208 47 69
	Facsimile Number: +32 (0)2 208 47 43
	E-mail: jean-francois.schmit@afsca.be
Canada	All Provinces and Health Country's Port Management Provinces Appears
Canada	All Provinces and Health Canada's Pest Management Regulatory Agency
Denmark	Website: www.pmra-arla.gc.ca Ministry of Food, Agriculture & Fisheries, Danish Plant Directorate
Denmark	Name of Contact: Carsten S. Madsen
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	Facsimile Number: +45 45 26 36 10
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	Address: Skovbrynet 20, DK-2800 Kgs. Lyngby
	Danish Environmental Agency
	Address: Strandgade 29, DK-1401 Copenhagen K, Denmark
Finland	Name of National Regulator and Country: Plant Production Inspection Centre, Finland
	Name of Contact: Deputy Director Eija-Leena Hynninen
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	Facsimile Number: +353 1 6157575
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	Address: Department of Agriculture and Food Laboratories, Backweston Campus, Young's
	Cross, Celbridge, Co. Kildare.
	Cross, Coloridge, Co. Kildure.

T	Military CA said to a Process of Pilotic TADAN
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	Ministry of the Environment JAPAN
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New	Environmental Risk Management Authority of New Zealand, New Zealand
Zealand	(http://www.ermanz.govt.nz)
	Name of Contact: Peter Dawson
	Phone: 64 4 916 2426
	Facsimile Number: 64 4 914 0433
	E-mail: peter.dawson@ermanz.govt.nz
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	New Zealand Food Safety Authority, New Zealand
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	Phone: +64 4 463 2560
	Facsimile Number: +64 4 463 2566
	E-mail: warren.hughes@nzfsa.govt.nz
	Address: PO Box 2835, Wellington. New Zealand
Norway	Name of National Regulator and Country: Norwegian Food Safety Authority, Norway
,	
	Name of Contact: Ellen Mari Grande
	Phone: 47 23 21 68 75
	Facsimile Number:
	E-mail: ellen.mari.grande@mattilsynet.no
	Address: Mattilsynet, Felles postmottak, postboks 383, N-2381 Brumunddal, Norway.
Slovak	Central Controlling and Testing Institute in Agriculture (UKSUP), Slovak Republic
Republic	Name of Contact: Mrs. Zaneta Scobakova, Mr. Stanislav Barok Department of registration
перионе	Department of plant protection of pesticides
	Phone: 00421 2 59 880 325 / 00421 2 69 204 443
	Facsimile Number:
	E-mail: zaneta.scobakova@uksup.sk
	s.barok@uksup.sk
	Address: Matuskova 21, Hanulova, 833 16 Bratislava, 844 29 Bratislava
Slovenia	MAFF. Phytosanitary Administration of the Republic of Slovenia Name of Contact: Milena
Sioveilla	KOPRIVNIKAR B.
	Phone: 00 386 1 30 94 377
	Facsimile Number: 00 386 1 30 94 335
	E-mail: milena.koprivnikar@gov.si
Cyyodon	Address: 6 Einspielerjeva, SI – 1000, Ljubljana
Sweden	Name of National Regulator and Country: Swedish Chemicals Inspectorate
	Phone: +46-8-51941100
	Facsimile Number: +46-8-7357698
	E-mail: kemi@kemi.se
G :	Address: Box 2, 17213 Sundbyberg, Sweden
Switzerland	Federal Office for Agriculture, Principal Division for Special Services and Means of Production,

ENV/JM/MONO(2007)9

	Plant Protection Section, Switzerland	
	Name of Contact: Elisabeth Bosshard	
	Phone: 0041-31-324 90 80	
	Facsimile Number: 0041-31-322 70 80	
	E-mail: elisabeth.bosshard@blw.admin.ch	
	Address: Mattenhofstrasse 5, 3003 Bern, Switzerland	
US	U.S. Environmental Protection Agency, Office of Enforcement and Compliance Assurance	
	Name of Contact: Kate Perry	
	Phone: 202-564-4059	
	Facsimile Number: 202-564-0028	
	E-mail: perry.kate@epa.gov	

Legislation(s) governing pesticide users

Country	Pesticides legislations	
Australia	Agricultural and Veterinary Chemicals (Administration) Act 1992 Agricultural and Veterinary Chemicals (Administration) Regulations 1995 Agricultural and Veterinary Chemicals Code Act 1994 Agricultural and Veterinary Chemicals Code Regulations 1995 http://www.apvma.gov.au In addition to national legislation regulating pesticides up to and including the point of retail sale, each State and Territory has its own legislation for pesticide users	
Belgium	Royal Decree of 28 February 1994 on conservation, marketing and use of agricultural pesticides (enforced by state)	
Canada	Each Province has own regulations for users, as well as Federal Pest Control Products Act and Regulations	
Denmark	Law 1996-01-16 nr. 21 on chemical substances and products. Act on chemical products and substances of 9 July 1993, last amended on 20 December 2004 The Statutory Order on Pesticides of 9 July 1993, last amended 16 March 2006. Enforced by: National: Chemical Inspection Service inspect stockings and use, the Plant Directorate inspect the account on the use of pesticides and the spraying equipment. Country: The local authorities inspect stockings and use.	
Finland	Torjunta-ainelaki 1969/327 (National Law on Pesticides 1969/327) Torjunta-aineasetus 1995/792 (National Regulation on Pesticides 1995/792) Regulation 328/2005 given by the Ministry of Agriculture and Forestry related to testing sprayer equipment. It is connected to EU's Common Agricultural Policy (CAP).	

Germany	German Plant Protection Act (Gesetz zum Schutz der Kulturpflanzen)
o c rimumy	and related regulations:
	- Ordinance for Banned Uses of Plant Protection Products (Pflanzenschutz-
	Anwendungsverordnung)
	- Code of Good Agricultural Practice in Plant Protection (Grundsätze für die gute
	fachliche Praxis im Pflanzenschutz)
	- Governing Specialist Qualifications in Plant Protection (Pflanzenschutz-
	Sachkundeverordnung)
	- Plant Protection Product Ordinance (Pflanzenschutzmittelverordnung)
	- Ordinance concerning the use of Plant Protection Products hazardous to bees -
	Bee Protection Ordinance (Bienenschutzverordnung)

	Additionally, in some Federal States special legislation is enforced, regulating		
	special buffer stripes to surface water or the use of PPPs in non-agricultural areas,		
	e.g. the use on hard surfaces. (The mentioned areas are regulated by a German		
T11	Federal law, however, some Federal States have stricter regulations.)		
Ireland	Statutory Instrument 83 of 2003 (as amended)		
T	http://www.pcs.agriculture.gov.ie		
Japan	Agricultural Chemicals Regulation Law		
	Mandatory standard for users of agricultural chemicals (Ministerial ordinance)		
	http://www.maff.go.jp/nouyaku/		
New Zealand	Hazardous Substances and New Organisms Act (HSNO) 1996		
	http://www.legislation.govt.nz		
	Agricultural Compounds and Veterinary Medicines Act 1997		
	http://www.nzfsa.govt.nz/acvm/index.htm		
	Food Act 1981		
	http://www.nzfsa.govt.nz/policy-law/legislation/food-standards/index.htm#mrl		
Norway	Regulation related to pesticides of 26. July 2004		
Slovak Republic	I. Act No. 193/2005 Col. on plant health care		
	II. Ordinance No. 225/2005 laying down requirements concerning placing on the		
	market of plant protection products III. Decree No. 3357/2004-100 amending Decree No. 3322/3/2001-100 laying down		
	details concerning plant protection products and Decree No. 1968/2004-100		
Slovenia	Act on plant protection products (OJ RS No 98/04)		
	Rules on obligations of operators for application of plant protection products (OJ		
	RS No 62/2003)		
Sweden (SNFS 1997:2 Statens Naturvårdsverks föreskrifter om spridn:			
	bekämpningsmedel) http://www.internat.naturvardsverket.se/		
Switzerland	- Ordonnance sur les paiements directs OPD 910.13;		
	http://www.admin.ch/ch/f/rs/910 13		
	- Ordonnance sur la réduction des risques liés aux produits chimiques, ORRChim,		
	http://www.admin.ch/ch/f/rs/c814 81.html (languages available: German, French,		
	Italian)		
US	FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) (see		
	http://www.epa.gov/compliance		
	State laws (see AAPCO website for citations)		

Surveyed user group

Country	Surveyed user group(s)
Australia	Cotton Australia Ltd (<u>www.cottonaustralia.com.au</u>) Aerial Agricultural Association of Australia (<u>www.aerialag.com.au</u>) Horticulture Australia Limited (<u>www.horticulture.com.au</u>)
Belgium	Agricultural user group http://www.fwa.be/
Canada	Provincial Government Extension Workers, Agricultural Research Company, Agricultural Crop Consultants, Crop Life, Aerial Spray Company, Pulse Growers, Potato Growers
Finland	Agricultural and horticultural producers and forest owners, www.mtk.fi
Germany	Agricultural and horticultural group Horticulture group: www.g-net.de
Japan	National Federation of Agricultural Co-operative Associations http://www.zennoh.or.jp/

New Zealand	Horticulture, <u>www.hortnz.co.nz</u>	
	Federation of Farmers (e-mail: hughrit@xtra.co.nz)	
Slovenia	Chamber of agriculture and forestry of Slovenia, www.kgzs.si	
	agricultural, landscape, horticultural	

2. Activities to Encourage Compliance (relevant to Objective 1)¹

105. Below are the responses to the questions on enforcement tools which are currently used by regulators and are found helpful by the user groups.

(Number of countries)

(Number of countries)		
Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to	
encouraging USER Compliance	encourage USER compliance	
 compliance promotion (15) inspection (15) written/verbal warning (12) revoke permit/license/certification (10) 	 written/verbal warning (15) inspection (15) prosecution (15) investigation (suspect wrongdoing) (15) stop use (14) 	
 investigation (suspect wrongdoing) (9) compliance agreement (9) fines (7) reduce or recall of financial grants (4) detention/seizure (4) prosecution (4) stop advertising (3) 	 fines (14) revoke permit/license/certification (13) compliance promotion (11) detention/seizure (11) stop advertising (11) stop import (11) compliance agreement (10) 	
 stop import (2) stop use(2) other – educate users why compliance is a benefit (<i>Canada</i>); strong support / recognition / licensing on basis of industry programmes (<i>Australia</i>); 	 reduce or recall of financial grants (8) other activity – some States can issue control orders, compliance notices and defective spray notices (<i>Australia</i>); prohibition of sale, disposal of non-authorised plant protection products (<i>Germany</i>); Press releases with enforcement results (<i>US</i>). 	

3. Assessing effectiveness of compliance programmes/activities

Summary of responses

106. Australian States and Territories do not conduct formal assessments of the effectiveness of compliance programmes or activities. Informal surveillance is conducted via programmes such as agricultural produce residues or water monitoring. Some States conduct targeted or random auditing of licensed operators, user activities or facilities.

Objective I: Developing criteria to identify and manage common types of non-compliance

Objective II: Achieving compliance with information on labels and terms/conditions of registration

Objective III: Modifying regulatory process to ensure the ability to comply

Objective IV: Discussing approaches to measure the effectiveness of compliance programmes

¹ Note that the workshop objectives are as follows.

- Denmark records the number of offenders in different user groups and takes it into account during inspection campaign in the following year. Denmark noted that it was very difficult to enforce the use of pesticides. Until now three authorities have inspected the use of pesticides: the Chemical Inspection Service, the local authorities and the Plant Directorate. From 2007, only one authority the Plant Directorate will take care of the inspections at farmer's level. Denmark expects that this will make the compliance programme/activities more effective.
- 108. In Finland, supervision on use of pesticides is based on an annual control plan. Plant Production Inspection Centre affirms the annual control plan for the use and marketing of pesticides. The plan is carried out and reported by determined authorities. Plant Production Inspection Centre summarises these reports in an annual summary with conclusions and recommendations. Such annual reports are delivered to the Ministry of Agriculture and Forestry, Employment and Economic Development Centres and EU. In addition, because of the need to develop, the national law on pesticides related to supervision, the law is currently under renewal. The main aim is to get the new legislation on plant protection products to be accepted during 2007.
- 109. Germany carries out inspections every year, covering all the important user compliance problems. This may help to indicate the effectiveness of information and compliance promotion regarding users. The results of the inspections are compiled once a year before the start of a new vegetation period (individually in the Federal States and in a national expert group chaired by the BVL). According to the evaluation of the inspections, it is possible to identify main problems. These problems are selected to be subject for information and compliance promotion regarding users of Plant Protection Products. The annual control plan considers specific regional conditions (risk based controls) and the results of the inspections of previous years. If there are objections against a user, this user will be inspected within one year or less for a second time to see if the objections are still valid or not. The Federal States use a step-by-step approach to increase user compliance, that is, (1) enforce compliance promotion, (2) written warning, (3) fines, and (4) higher fines or detentions.
- 110. In Ireland, a new programme is currently being implemented. After a period of operation the effectiveness of this programme will be assessed. Ireland conducts a Plant Protection Product "Usage Surveys" on a cyclical basis and keeps annual records of import, export and manufacture of Plant Protection Products.
- 111. The Environmental Risk Management Authority (ERMA) in New Zealand produces an Annual Monitoring Report as a statutory obligation. ERMA monitors and reviews the extent to which the HSNO Act reduces adverse effects on the environment and people by analysing relevant data sources such as key statistics, reported incidents and indicators. ERMA also attends enforcement agency liaison meetings to gather information on compliance and enforcement and to ensure that agencies are reporting appropriately. The ACVM Group undertakes regular slice of life audits to monitor a range of activities, including user compliance.
- 112. Norway stated that there are no particular compliance programmes or activities but Norway has performed a number of surveys among users where questions on user compliance are included. For professional users, spray journals are mandatory.
- In Switzerland, an extensive Evaluation Programme has been initiated in 1997 to study the impact of new risk reduction measures, for which the legal base has been put into force in 1998. Parameters studied were e.g. biodiversity, nitrogen, phosphorus, use of plant protection products. The evaluations in the various areas have been conducted in the last few years and the summary reports are now available. With respect to the use of plant protection products, the use data were collected in four different lake areas in Switzerland. The evaluation of the data has shown that the quantitative goal of a 30 percent

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reduction in the use of plant protection products compared to the reference value of 1992 has been achieved. The results however also show that in addition to the implementation of more ecological production methods also other factors have contributed to the reduction observed. The reports are available under: www.blw.admin.ch/news/01325.

Assessments of compliance

- 114. There are very few formal assessments of individual practices in most countries that responded to this survey. Exceptions include Germany where there are annual inspections, and Denmark where three different agencies appear to have responsibilities, but this is not that effective as 'enforcement is very difficult'.
- 115. Ireland is putting in place a new programme of inspections and in the UK certain aspects of compliance with pesticide regulations will be part of the conditions for receiving the major 'single farm payment' from 2006. The most common approach to considering levels of compliance are through the use of environmental measures as surrogates, although some countries are still trying to formulate how pesticides use should be monitored.
- 116. It is also worth noting that the widest range of activities from detailed inspections to formulating an approach is happening within the EU, which is, theoretically, taking a more integrated approach to PPP issues than has been the case.

Possible avenues for assessing compliance that are not commonly mentioned

- 117. Only responses form Australia mentioned the possible role of quality assurance schemes in assessing compliance with regulation. However, even this fails to draw obvious conclusions between 'market' assurance requirements and the consequences of failing these assessments for future improvements in practice.
- 118. There is also no attempt being made to make an overall risk assessment of farming businesses ability to comply with PPP and other regulations. This is an essential part of any process as it will target assessments and inspections where they are needed and provide a clear incentive to complying with requirements if you can indicate that your business in 'low risk' and therefore fails to get a government inspection for many years.
- 119. The value of promoting the right practice is clear in users responses as is the value of targeted inspections, investigations and action. This need for overall risk assessment which is then linked to further action is clearly an area that needs to be considered as it brings benefits both to compliant users, who are left alone, and regulators, who can target their resources more effectively.

4. Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of products,	
to Regulator:	to Regulator: to Manufacturer:		
 phone (18) in person (14) e-mail (13) letter (7) trade show / seminar (3) do not provide (1) other: membership of advisory committee (Australia); conferences (Germany); Fed farmers (New Zealand) 	 phone (17) e-mail (16) in person (15) trade show / seminar (9) letter (5) do not provide (0) other: minor use, changes to label (Canada); fed farmers rep on other committees 	 Government (15) Manufacturers Mailings (14) Associations/User Groups Newsletters/Meetings (14) Trade shows/Vendors (6) Media (e.g. Newspaper, Radio, etc) (6) Other pesticide users: informal network (Australia); grower organizations, website, farm advisors, agronomists, consultants, on-staff agronomists that notify all staff and clients on changing label/regulatory requirements via a published report on a semi-frequent basis (Canada); government website (Belgium) http://www.phytoweb.fgov.be/indexFr.asp; Pesticide users (Japan); Farm advisors (Slovenia); 	

5. Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:				
State Organizations	National Organizations	Public		
 Reports (12) website (7) e-mail (5) Not provided (1) other – joint pesticide advisory committees (<i>Australia</i>); internal presentations (<i>Canada</i>); Annual education events are organised for persons who have made supervision visits, and results of annual supervision are discussed during the lectures (<i>Finland</i>) 	 reports (9) e-mail (7) website (3) Not provided (1) other – APVMA / State advisory committee (Australia) 	 website (eg successful prosecutions) (10) Reports (6) e-mail (2) other – press releases (Australia): press release of summary record (Germany): 		

Criteria by which data can be searched for trends

- Violation type (10)
- Enforcement action taken (7)
- Not capable of trends from data (3)
- User group (3)
- Others:

Additional remarks

Australia: Some States did not have the capacity to search data for trends. For those that did, violation type, enforcement action taken and in one case user group could be searched. Other searching capacity included active constituent name, registered product name and locality.

Germany: The Federal States use different ways for data interpretation. Some States have complex databases while other States use simpler ones. Therefore, the interpretation of data varies in the States (marked with (X)). The type of violation can be evaluated by each Federal State because these results must be reported to the BVL. Because the compilation of an annual German Plant Protection Control Report began in 2004, it is difficult to identify national-wide trends up to now.

Switzerland: collection of pesticide sales data and monitoring programme of use data; case studies

US: Worker Protection Standard elements; efficiency measure (number of enforcement actions taken per million dollars of costs). (This efficiency measure is alternatively stated as cost of conducting inspections that identify violators.)

6. Compliance Challenges (relevant to Objectives 1 and 2)

Most F	Most Frequent Compliance Challenges (Country's ranking in brackets)				
Rank	ACCORDING TO USERS	Rank	According to Regulators		
1	· Buffer (to water, wells, sensitive habitat, etc.)	1	· Unregistered use of a registered product		
2	· Use of only approved products	2	· Drift · Stocking of obsolete products		
3	· Personal protective equipment	3	· Buffer (to water, wells, sensitive habitat, etc.)		
4	· Drift	4	· Use of imported products that are not authorised		
5	· Rate of application (Dose)	5	· Unlicensed/Improper licensed applicator		
6	· Wind speed	6	 Personal protective equipment Unsafe storage of products (unlocked, contaminate food/feed, etc.) 		
7	· Labelled Crop / Site	7	· Wind speed		
8	 Timing of pre-harvest intervals Meeting product storage requirements Thorough cleaning of sprayer equipment 	8	· Use of banned product		
9	 Soil Type / Depth to ground water Proper disposal of pesticides and/or pesticide containers Obtaining the required permits / licence Other label directions 	9	· Improper disposal of pesticides and/or pesticide containers		
10	· Exceeding number of applications allowed per season	10	· Labelled Crop / Site		
	Other major Compliance challenge: lack of consistency between state legislation; lack of compliance oversight on ground	11	· Permit Violation (extra conditions not met aside from on the label e.g. buffer zones, unauthorized transfer, inappropriate amount used, unapproved area treated, etc.)		
	based applications (Australia)	12	 Timing of pre-harvest intervals Improper filling or cleaning of sprayer equipment 		
		13	Rate of application (Dose) Exceeding number of applications allowed per season		
		14	· Unsafe transport (unlocked, contaminate food/feed, etc.)		
		15	· Other label directions · Soil Type / Depth to ground water		

Rankings given to each type of non-compliance was calculated based on the 2006 Users or Regulators Survey results provided by each country.

Highest ranked type of non-compliance was given 1st place with a point value of 5, then the rest were placed in descending order of importance all the way to the lowest ranked type of non-compliance, which was given a point value of 1.

- 120. From regulators' perspective, Australia noted "providing false and misleading information" as for other user compliance problems whereas Belgium mentioned "use of uncertified sprayers". In Finland, Plant protection products have withdrawn lately from the register of pesticides (mainly withdrawn by requests presented by a register holder for marketing reasons) but these products may still be available and in use. The frequency of control visits is found to affect the results of inspection. In the near future the number of supervision visits will increase to meet the requirements of Commission Regulation (EC) No 796/2004 and Council Regulation (EC) 1782/2003.
- 121. Germany noted that the differing answers to the question can be explained by specific regional conditions which influence farmers' actions. Some examples are given below:
 - In coastal regions near the North Sea or the Baltic Sea there are often strong winds. This increases the probability that applications take place at wind speeds which are not in accordance with the Code of Good Agricultural Practice in Plant Protection
 - The distribution of the seizure of farms and the qualification of users (farming on a regular/ sideline basis) in a certain region is often reflected in the willingness/ability to work according to the label.
 - The availability of authorised Plant Protection Products (number of products) can vary considerably depending on the cultivated crops (example: a farmer who cultivates wheat has access to more PPPs in comparison to a farmer who cultivates vegetables).

Challenges to compliance for users

122. The biggest problems indicated are health and safety requirements and environmental conditions such as buffer zones. There are also indications that labelling is not clear in terms of actual approvals as 'labelled crop/site' issues also rate highly. This suggests that there is a need for clarity in terms of how approvals are considered. This has been a major issue in the UK for some sectors, such as in propagation, where depending on the phrases used by different companies it is not clear what can be used on what plant species.

Challenges to compliance for regulators

- 123. The most common issue seems to be the use of the registered product on the wrong crop. This is consistent with issues raised by users and suggests that there is an urgent need to consider how to ensure clear communication of which crops are and are not included in certain approvals. One suggestion that is conspicuous by its absence is the use of internationally accepted extrapolations to ensure simplicity of registration and understanding. The Lindane guidelines in Europe and work currently being done on the value of extrapolations for MRL setting could be valuable in this context.
- 124. The next issues are health and safety and environmental requirements. In the survey results, there appears to be consistency between users and regulators. This suggests that there may be common problems in label design and signposting which means these important bits of information are hard to find.
- 125. This is an issue highlighted elsewhere and summarised by the idea that the labels have to communicate information relevant to the user, not relevant to the shape of the regulations governing use. This type of approach is attempted by documents such as the UK Code of Practice for the use of pesticides, which aims to summarise regulatory information from over 30 instruments into information that is pertinent for users.

7. Records on Pesticide Use (relevant to Objective 2)

126. The specific information to be required for record is as the table below;

Responses from regulators

Specific information required for record

- pesticides used (14)
- application area (14)
- application timing (13)
- crop/stock yield (11)
- pest identified (10)
- other: records on weather conditions were frequently required as was names and addresses and authorisation numbers (*Australia*); doses (*Denmark*); application rate, amount of water used per hectare, comments (*Germany*); product name and registration number, place of purchase, package size, quantity purchased, date of application, crop and area treated, amount applied to crop, records of returns, products in stock and disposal (*Ireland*); purchase of pesticides, storage and disposal (*Slovak Republic*); dosage, temp, wind, other safety measures regarding filing and cleaning of equipment (*Sweden*); climatic conditions applicator information (*US*)

Responses from users

Responses from users			
Record on data	Information recorded (number of respondent)		
Maintaining records on what pesticide and the quantity	 applica 	ation timing (23)	
of pesticide used	 applica 	ation area (20)	
	 pestici 	des used (18)	
	• crop/st	tock yield (17)	
	 pest id 	entified (5)	
	others	: weather conditions and as per	
		ry QA programmes (Australia);	
		de dose and applicators (Belgium);	
		fectiveness (<i>Canada</i>); application dose	
	and tin	ne (<i>Japan</i>)	
Records on data		Countries of user groups who	
		replied YES	
Comparing the data from year to year to help target pe	sts (life cycles,	Australia, Canada, Finland, Germany,	
trends, etc.)		New Zealnad, Slovenia	
Analysing the data to change the amount of pesticides	used from year	Australia, Canada, Finland, Germany,	
to year, but amount and approach taken also determi	ned by current	New Zealand, Slovenia	
crop / pest situation and may not be dictated by previous	activities		
Analysing the data to change the type of pesticides used from year to		Austrailia, Canada, Finland, Germany,	
year (resistance management) e.g. cotton industry runs comprehensive		New Zealand, Slovenia	
programmes targeting insect resistance, integrated per	st management		
and management of GMO technology			

8. Additional Information (relevant to Objectives 1, 2, and 3)

Q: Suggestions that could be helpful to regulatory authorities on which activities can improve/increase user compliance

Responses from users

- 127. Australia responded that greater use of negotiated compliance programmes will be helpful between regulators and industry groups eg memorandums of understanding. It is important to ensure regulation and acts are consistent / identical across and between jurisdictions; competence of applicator to manage relevant risks is key to risk management eg aerial applicators in Australia are highly trained and training offsets any perceived and misplaced concerns with aerial application. It is necessary to ensure that pesticide labels are written to communicate relevant information to users to enable appropriate risk mitigation steps to be implemented there is a tendency for labels to be hazard-based and written from a regulatory compliance perspective rather than aiming to inform users.
- 128. Belgium remarked that introducing a kind of license for which pesticide users are obliged to follow a minimum of information sessions. Finland noted that more advice and information should be available to pesticide users. Germany suggested improvements in consultations and services. New Zealand suggested more education.
- 129. Canada enlists the following suggestions:
 - Come and see us in action
 - Personal visits with users
 - Education
 - End market knowledge creating awareness on potential risks of misusing
 - Need to show all levels are working together (growers, agriculture retailers, processors)
 - Difficulty is with large commodity crops as they (the growers) are not in contact directly with processors and those that market their corp. There is a general lack of trust towards government and agri-business.
 - All enforcement tools are helpful if conducted in an appropriate manner, i.e. don't prosecute unless other options are first implemented.
 - Register better active ingredients, better choices
 - Scouting, monitoring support money availability
 - Training sessions on regular basis
 - Review and remove label requirements/restrictions so that we don't unnecessarily throw growers into technical default of labelling e.g. pre-harvest intervals that are too long, restrictions on regions of use not based on environment (Pursuit east vs west)
 - Timely product registrations for effective solutions to new pests on new crops
 - Regulators need to understand what drives on-farm decisions economics (rates based on weed spectrum, economic agronomic decisions)
 - Making labelling information more legible and major precaution more perceptible.

Q. Process or model to identify and select user compliance problems causing the greatest risk

Responses from regulators

- 130. In Australia, the States and Territory regulators did not have a specific process or model to identify and select user compliance problems that represent the greatest risk. All had informal processes that monitored compliance and could be used to identify issues of greatest risk. One State (New South Wales) noted the recent introduction of a Compliance Audit Handbook consistent with international standards adopted in Australia for environmental auditing (AS/NZS ISO 14010:1996, AS/NZS ISO 14011:1996; AS/NZS ISO 14012:1996) that could assist auditors in identifying and selecting issues for audit focus.
- 131. Canada noted that PMRA proceeds compliance work planning through Risk Model. For non-conforming samples, a risk analysis is performed (solely on human health risks). More concern has been given to organophosphates and carbonates.
- 132. Denmark responded that the Chemical Inspection Service inspects the farms controlling the stocking of pesticides. The Danish Veterinary and Food Administration take samples of Danish fruits and vegetables. In case of infringements the case are forwarded to the Chemical Inspection Service for further investigation.
- 133. In Finland, no particular model is used. The highlighted problems have been noticed during annual supervision visits in the case of "use of imported products that are not authorised", "use contrary to label directions especially on labelled crop/site", "improper disposal of pesticides and pesticides containers, and other major problems, whereas the problems related to the "use contrary to label directions especially on drift due to wind" are dealt with through complaints from the public.
- 134. In Germany, after registration, the BVL collects reports from environmental monitoring programmes (groundwater, surface water), vertebrate poisonings, and results of the Plant Protection Control Programme about unwanted effects of PPPs, analyses them and takes appropriate measures. The following is an example of how groundwater findings of PPPs are evaluated: If concentrations of active substances $\geq 0.1~\mu g/l$ are found in the context of groundwater monitoring performed by the environmental authorities in the Federal States or water suppliers, the authorisation holders of the pertinent PPP are required to trace such findings and explain them to the BVL (description of the source, way of sampling, labelling, transport and storage of samples, analysis). The results of the explanation of findings could lead to a modification of the authorisation of a PPP or supplemental studies are required from the authorisation holder. Federal States take care of promotion and inspections. More details on their activities are summarised in the template attached. Norway remarked that there is no particular process or model for these matters but the monitoring programme for pesticides residues can identify exceedency of MRL's and use of an unauthorized pesticide.
- 135. Japan responded that they regularly monitored the residue of agricultural chemicals in crops and aquatic environment. When the residue is over the tolerance limit for pesticide residue for crops, regulators make efforts to find out the reasons.

COUNTRY REPORT IN TEMPLATE

National Survey Results for <u>Australia</u>

Table 1: General Information

Table 1: General Information	
Pesticide Regulators	Regulation of pesticides up to and including the point of retail sale Australian Pesticides and Veterinary Medicines Authority REGULATION OF PESTICIDE USE Australian Capital Territory - Environment A.C.T. Northern Territory - Department of Primary Industry, Fisheries and Mines Western Australia - Department of Agriculture; Department of Health South Australia - Primary Industries and Resources Victoria - Department of Primary Industries; Department of Human Services New South Wales - Department of Environment and Conservation Queensland - Department of Primary Industries and Fisheries Tasmania - Department of Primary Industries, Water and Environment
Legislation(s) Governing Pesticide Users	See Attachment 1
Jurisdiction of Enforcement	By State or Territory
Surveyed User Groups	Cotton Australia Ltd (www.cottonaustralia.com.au), Aerial Agricultural Association of Australia (www.aerialag.com.au), Horticulture Australia Limited (www.horticulture.com.au)

Table 2: Activities to Encourage Compliance (relevant to Objective 1)			
Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to		
encouraging USER Compliance	encourage USER compliance		
 ✓ compliance promotion ✓ written/verbal warning ✓ inspection ✓ investigation (suspect wrongdoing) ✓ compliance agreement ✓ detention/seizure ✓ fines ✓ stop advertising ✓ prosecution ✓ revoke permit/license/certification other – strong support / recognition / licensing on basis of industry programmes 	 Most - compliance promotion Most - written/verbal warning All - inspection All - investigation (suspect wrongdoing) Most - compliance agreement None - reduce or recall of financial grants Most - detention/seizure Most - fines None - stop advertising All - prosecution None - stop import Most - stop use All - revoke permit/license/certification other activity - some States can issue control orders, compliance notices and defective spray notices 		
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed		

Australian States and Territories do not conduct formal assessments of the effectiveness of compliance programs or activities. Informal surveillance is conducted via programmes such as agricultural produce residues or water monitoring. Some States conduct targeted or random auditing of licensed operators, user activities or facilities

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information	regarding compliance issues	Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
 ✓✓✓ in person ✓✓ phone ✓✓ e-mail ✓✓ letter ✓ trade show / seminar other – membership of advisory committee 	 ✓✓✓ in person ✓✓✓ phone ✓✓ e-mail ✓✓ letter ✓✓ trade show / seminar 	 ✓ Manufacturers Mailings ✓ Government including regulator gazette and website ✓ Associations/User Groups Newsletters/Meetings ✓ Media (e.g. Newspaper, Radio, etc) Other pesticide users – informal network

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:				
State Organizations National Organization Public				
 ✓✓ reports ✓✓ e-mail ✓ website other – joint pesticide advisory committees 	 ✓ reports ✓ e-mail other – APVMA / State advisory committee 	 ✓ Reports on request ✓ e-mail ✓ website (eg successful prosecutions) other – press releases 		

Criteria by which data can be searched for trends

Some States did not have the capacity to search data for trends. For those that did, violation type, enforcement action taken and in one case user group could be searched. Other searching capacity included active constituent name, registered product name and locality.

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)			
According to Users	According to Regulators		
Different users prioritised compliance challenges differently. Priorities in the compilation of responses were 1. Following label directions – drift 2. Use of only approved products 3. Obtaining the required permits / licence 3. Other label directions	States and Territories listed various 'most frequent' user compliance problems. • 1. Use contrary to/inconsistent with label directions: - Drift was the highest challenge. One State noted that this issue can occur even when label directions are followed. • 2. Unregistered use of a registered product • 2. Unlicensed/Improper licensed applicator		

- 4. Following label directions personal protective equipment
- 5. Following label directions buffer
- 5. Following label directions wind speed
- 5. Proper disposal of pesticides and/or pesticide containers
- 5. Other major Compliance challenge:lack of consistency between State legislation; lack of compliance oversight on ground based applications
- 3. Improper disposal of pesticides and/or pesticide containers
- 3. Use contrary to/inconsistent with label directions:
 - Personal protective equipment
- 4. Use contrary to/inconsistent with label directions:
 - Timing of pre-harvest intervals
- 5. Use contrary to/inconsistent with label directions, including:
 - Rate of application (Dose)
 - Wind speed
 - Buffer (to water, wells, sensitive habitat, etc.)
 - Exceeding number of applications allowed per season
 - Labelled Crop / Site
- 5.Other issues raised included permit violation, unsafe transport, unsafe storage of products, stocking of obsolete products, providing false and misleading information

Table 6: Records on Pesticide Use (relevant to Objective 2)

industry runs comprehensive programmes targeting insect resistance, integrated pest management and management

of GMO technology

Tuble of Records on Festiciae ose (Records to Objective 2)			
Users	Regulators		
Do maintain records on what pesticide and the quantity of pesticide used	Some State and Territory regulators require users to maintain records on pesticide use. The requirement varies between States and Territories based on the type of user – eg in some only commercial or licensed operators are required to keep records		
Information recorded	Information required:		
- ✓✓ crop/stock yield - ✓✓✓ pest identified - ✓✓✓ pesticides used - ✓✓✓ application timing - ✓✓✓ application area - other — weather conditions and as per industry QA programmes	This varied between States and Territories but usually included - crop/stock yield - pest identified - pesticides used - application timing - application area - other – records on weather conditions were frequently required as was names and addresses and authorisation numbers.		
Do compare the data from year to year to help target pests (life cycles, trends, etc.)			
Do analyse the data to change the amount of pesticides used from year to year, but amount and approach taken also determined by current crop / pest situation and may not dictated by previous activities			
Do analyse the data to change the type of pesticides used from year to year (resistance management) eg cotton			

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
 greater use of negotiated compliance programmes between regulators and industry groups e.g. memorandums of understanding ensure regulation and acts are consistent / identical across and between jurisdictions; competence of applicator to manage relevant risks is key to risk management eg aerial applicators in Australia are highly trained and training offsets any perceived and misplaced concerns with aerial application ensure that pesticide labels are written to communicate relevant information to users to enable appropriate risk mitigation steps to be implemented – there is a tendency for labels to be hazard-based and written from a regulatory compliance perspective rather than aiming to inform users 	In general the States and Territory regulators did not have a specific process or model to identify and select user compliance problems that represent the greatest risk. All had informal processes that monitored compliance and could be used to identify issues of greatest risk. One State (New South Wales) noted the recent introduction of a Compliance Audit Handbook consistent with international standards adopted in Australia for environmental auditing (AS/NZS ISO 14010:1996, AS/NZS ISO 14011:1996; AS/NZS ISO 14012:1996) that could assist auditors in identifying and selecting issues for audit focus.

Attachment 1

Regulator	Relevant legislation	Website link
National – Australian Pesticides and Veterinary Medicines Authority	Agricultural and Veterinary Chemicals (Administration) Act 1992 Agricultural and Veterinary Chemicals (Administration) Regulations 195 Agricultural and Veterinary Chemicals Code Act 1994 Agricultural and Veterinary Chemicals Code Regulations 1995	www.apvma.gov.au
Australian Capital Territory - Environment ACT	Environment Protection Act 1997 Environmental Protection Regulations 2005	www.legislation.act .gov.au
Northern Territory - Department of Primary Industry, Fisheries and Mines	Agricultural and Veterinary Chemicals (Control of Use) Act 2004 Agricultural and Veterinary Chemicals (Control of Use) Regulations 2004	www.nt.gov.au/dcm /parliamentary_cou nsel/current_legislat ion.shtml
Western Australia - Department of Agriculture; Department of Health	WA Department of Agriculture Aerial Spraying Control Act 1966 Agriculture and Related Resources (Spraying Restrictions) Regulations 1979 Agricultural Produce (Chemical Residues) Act 1983	
South Australia -	WA Department of Health Health (Pesticides) Regulations 1956 Poisons Act 1964 Agricultural and Veterinary Products (Control of Use) Act 2002	www.pir.sa.gov.au/r

Primary Industries	Controlled Substances Act 1984	uralchem
and Resources		www.parliament.sa.
		gov.au
Victoria -	Health Act 1958	
Department of	Health (Pest Control) Regulations 2002	
Human Services;	Agricultural and Veterinary Chemicals (Control of Use) Act 1992	
Department of	Agricultural and Veterinary Chemicals (Control of Use)	
Primary Industries	Regulations 1996	
New South Wales -	Pesticides Act 1999	www.environment.
Department of	Pesticides Regulation 1995	nsw.gov.au/pesticid
Environment and		es/
Conservation		
Queensland -	Agricultural and Veterinary Chemicals (Queensland) Act 1994	www.legislation.qld
Department of	Agricultural Chemicals Distribution Control Act 1966	
Primary Industries	Agricultural Chemicals Distribution Control Regulation 1998	
and Fisheries	Chemical Usage (Agricultural and Veterinary) Control Act 1988	
	Chemical Usage (Agricultural and Veterinary) Control Regulation	
	1999	
TD :	A : 1, 1 177 : Cl : 1 (C + 1 CH) A : 1005	.1.1.
Tasmania -	Agricultural and Veterinary Chemicals (Control of Use) Act 1995	www.thelaw.tas.go
Department of		<u>v.au</u>
Primary Industries,		
Water and		
Environment		

National Survey Results for **Belgium**

Table 1: General Information

Table 1. General information	
Pesticide Regulator(s)	Name of National Regulator and Country: Belgian Food Agency Name of Contact: Schmit Jean-François Phone: +32 (0)2 208 47 69 Facsimile Number: +32 (0)2 208 47 43 E-mail: jean-francois.schmit@afsca.be Address: WTC III, boulevard S. Bolivar, 30 1000 Bruxelles
Legislation(s) Governing Pesticide Users	Royal Decree of 28 februari 1994 relatif à la conservation, la mise sur le marché et l'utilisation des pesticides à usage agricole. Enforced by State.
Jurisdiction of Enforcement	Country
Surveyed User Groups	Agricultural http://www.fwa.be/

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to
encouraging USER Compliance	encourage USER compliance
 compliance promotion (O) written/verbal warning (O) inspection (O) compliance agreement (O) other activity (specify): revoke license after introduction of the license 	 written/verbal warning inspection investigation (suspect wrongdoing) detention/seizure fines stop advertising prosecution stop import stop use
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed N/A

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
phonee-mailtrade show / seminar	phonee-mailtrade show / seminar	 Manufacturers Mailings Government Associations/User Groups Newsletters/Meetings Other (specify):): <u>fytoweb</u>, <u>website of the</u> government

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
Reportse-mail	Reports e-mail	N/A

Criteria by which data can be searched for trends

- violation type
- enforcement action taken

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
 Use of only approved products (4) (3) Following label directions: Personal protective equipment (1) Buffer (to water, wells, sensitive habitat, etc.) (1) (2) Rate of application (Dose) (2) Timing of pre-harvest intervals (3) Exceeding number of applications allowed per season (5) Meeting product storage requirements (4) Thorough cleaning of sprayer equipment (5) 	 Use of banned product (1) Unregistered use of a registered product (3) Other major USER Compliance problem: Sprayers not certified (2) 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
Do maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded <i>Mainly for horticulture and potatoes</i> :	Information required :
- crop/stock yield (2) - pesticides used (2) - application timing (2) - application area (2) - other: pesticide dose and person who does the application (1)	- crop/stock yield - pesticides used - application timing - application area
Do not compare the data from year to year to help target pests (life cycles, trends, etc.)	

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 $\it Do\ not$ analyse the data to change the amount of pesticides used from year to year

Do not analyse the data to change the type of pesticides used from year to year (resistance management)

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Introducing a kind of license for which pesticide users are obliged to follow a minimum of information sessions. Best formation and information for users	N/A

National Survey Results for *Canada*

Table 1: General Information

Pesticide Regulator(s)	All Provinces and Health Canada's Pest Management Regulatory Agency
Legislation(s) Governing Pesticide Users	Each Province has own regulations for users, as well as Federal Pest Control Products Act and Regulations
Jurisdiction of Enforcement	By the Provinces and Country
Surveyed User Groups	Provincial Government Extension Workers, Agricultural Research Company, Agricultural Crop Consultants, Crop Life, Aerial Spray Company, Pulse Growers, Potato Growers

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to encourage
encouraging USER Compliance	USER compliance
8/13 (62 %) compliance promotion 7/13 (54%) written/verbal warning 9/13 (69%) inspection 6/13 (46%) investigation (suspect wrongdoing) 3/13 (23%) compliance agreement 3/13 (23%) reduce or recall of financial grants 3/13 (23%) detention/seizure 5/13 (38) fines 2/13 (15%) stop advertising 3/13 (23%) prosecution 2/13 (15%) stop import 2/13 (15%) stop use 5/13 (38%) revoke permit/license/certification 1/13 (8%) other activity (specify):educate users why compliance is a benefit	YES compliance promotion YES written/verbal warning YES inspection YES investigation (suspect wrongdoing) YES compliance agreement NO reduce or recall of financial grants YES detention/seizure YES fines YES stop advertising YES prosecution YES stop import YES stop use YES revoke permit/license/certification NO other activity (specify):
	Description of how the effectiveness of compliance programmes/activities are assessed (if applicable)

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
1/13 (8%) do not provide 5/13 (38%) in person 8/13 (62%) phone 3/13 (23%) e-mail 1/13 (8%) letter 0 trade show / seminar 0 other (specify)	0 do not provide 7/13 (54%) in person 7/13 (54%) phone 6/13 (46%) e-mail 1/13 (8%) letter 4/13 (31%) trade show /seminar other (specify): 1/13 (8%) minor use 1/13 (8%) changes to label	9/13 (69%) Manufacturers Mailings 9/13 (69%) Government 6/13 (46%) Trade shows/Vendors 10/13 (77%) Associations/User Groups Newsletters/Meetings 5/13 (38%) Media (e.g. Newspaper, Radio, etc) 2/13 (15%) Other pesticide users other (specify): 1/13 (8%) grower organizations 2/13 (15%) web sites 1/13 (8%) farm advisors, agronomists, consultants 1/13 (8%) on-staff agronomists that notify all staff and clients on changing label/regulatory requirements via a published report on a semi-frequent basis

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:			
State/Province Organization(s)	National Organization(s)	Public	
YES Reports	YES Reports	YES Reports	
YES e-mail	YES e-mail	YES e-mail	
YES website	NO website	YES website	
YES other (specify): <u>internal presentations</u>	NO other (specify):	NO other (specify):	
Criteria by which data can be searched for trends:			
not capable of trends from data			
YES violation type			
YES enforcement action taken			
YES user group			
NO other (specify):			

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
#1 - Wind speed #2 - Rate of application (Dose) #3 - Personal protective equipment #4 - Buffer (to water, wells, sensitive habitat, etc.) - Soil Type / Depth to ground water #5 - Drift	#1 - Drift - Rate of application (Dose) - Timing of pre-harvest intervals - Exceeding number of applications allowed per season - Labelled Crop / Site #2 - Buffer (to water, wells, sensitive habitat, etc.) - Soil Type / Depth to ground water #3 - Unlicensed/Improper licensed applicator #4 - Wind speed #5 - Permit Violation (extra conditions not met aside from on the label e.g. buffer zones, unauthorized transfer, inappropriate amount used, unapproved area treated, etc.)	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Table 6. Records on Testicide ese (recevant to objective 2)		
Users	Regulators	
13/13 (100 % Do) maintain records on what pesticide and the quantity of pesticide used	One province does require users to maintain records on pesticide use	
Information recorded :	Information required:	
8/13 (62%) - crop/stock yield	- crop/stock yield	
9/13 (69%: pest identified	- pest identified	
12/13 (92%) - pesticides used	- pesticides used	
10/13 (77%) – application timing	- application timing	
11/13 (85%) - application area	- application area	
1/13 (8%) - other (specify): <u>cost/effectiveness</u>	- other (specify):	

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11/13 (85% Do) compare the data from year to year to help target pests (life cycles, trends, etc.)

8/13 (62% Do) analyse the data to change the amount of pesticides used from year to year

12/13 (92% Do) analyse the data to change the type of pesticides used from year to year (resistance management)

Table 7: Additional Information	(relevant to Objectives 1, 2	2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
- Come and see us in action - personal visits with users - education - end market knowledge - creating awareness on potential risks of misusing - need to show all levels are working together (growers, agriculture retailers, processors) - difficulty is with large commodity corps as they (the growers) are not in contact directly with processors and those that market their corp. There is a general lack of trust towards government and agri-business all enforcement tools are helpful if conducted in an appropriate manner, i.e. don't prosecute unless other options are first implemented register better active ingredients, better choices - scouting, monitoring support money availability - training sessions on regular basis - review and remove label requirements/restrictions so that we don't unnecessarily throw growers into technical default of labelling e.g. pre-harvest intervals that are too long, restrictions on regions of use not based on environment (Pursuit east vs west) - timely product registrations for effective solutions to new pests on new crops - regulators need to understand what drives on-farm decisions - economics (rates based on weed spectrum, economic agronomic decisions) - making labelling information more legible and major precaution more perceptible.	- PMRA Compliance work planning through Risk Model Yes, for non-conforming samples, a risk analysis is performed (solely on human health risks) More concern given to organophosphates and carbamates Risk is based on personal experience and knowledge of the employees.

National Survey Results for **Denmark**

Table 1: General Information

Table 1. General Information	
	Ministry of Food, Agriculture & Fisheries, Danish Plant Directorate Name of Contact: Carsten S. Madsen
	Phone: +45 45 26 35 95
B (III B II ()	Facsimile Number: +45 45 26 36 10
Pesticide Regulator(s)	E-mail: smj@pdir.dk
	Address: Skovbrynet 20, DK-2800 Kgs. Lyngby
	Danish Environmental Agency
	Address: Strandgade 29, DK-1401 Copenhagen K, Denmark
	Law 1996-01-16 nr. 21 on chemical substances and products.
	Act on chemical products and substances of 9 July 1993, last amended on
	20 Decembre 2004
	The Statutory Order on Pesticides of 9 July 1993, last amended 16 Mars
Legislation(s) Governing	2006.
Pesticide Users	Enforced by:
	National: Chemical Inspection Service inspect stockings and use, the
	Plant Directorate inspect the account on the use of pesticides and the
	spraying equipment.
	Country: The local authorities inspect stockings and use.
	, , ,
Jurisdiction of Enforcement	By the State/Province and/or Country
	= y ====
S I W C	Heave Not Common d
Surveyed User Groups	Users Not Surveyed

Enforcement Activities that USERS find helpful in encouraging USER Compliance	Authorities/powers REGULATORS can use to encourage USER compliance
Users Not Surveyed	 compliance promotion (O) written/verbal warning (O) (O) inspection (O) investigation (suspect wrongdoing) (X) (O) compliance agreement (O) reduce or recall of financial grants (X) detention/seizure (X) fines (O) (X) stop advertising (O) prosecution (X) (X) stop import (O) stop use (O)
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed :

We take a look at the number of offenders in different groups of users and take this into account in the next year's inspection campaign.

It is very difficult to enforce the use of pesticides. Until now three authorities have inspected the use of pesticides: the Chemical Inspection Service, the local authorities and the Plant Directorate. From 2007 only one authority the Plant Directorate will take care of the inspections at farmer level. Denmark expects that this will make the compliance programme/activities more effective.

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
Users Not Surveyed	Users Not Surveyed	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:			
State/Province Organization(s) (Danish Ministry of the Environment)	National Organization(s)	Public	
ReportsNot provided	• Reports	• website	

Criteria by which data can be searched for trends:

- violation type (2)
- enforcement action taken (1)
- user group (2)

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)	
According to Users	According to Regulators
Users Not Surveyed	 Use of banned product (3) Use of imported products that are not authorised (2) Unregistered use of a registered product (2) (1) Unsafe storage of products (unlocked, contaminate food/feed, etc.) (4) Stocking of obsolete products (5) Other major USER Compliance problem: (1)

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use (Yes, by the Plant Directorate)
Information recorded :	Information required:
- crop/stock yield pest identified - pesticides used - application timing - application area - other (specify):	- crop/stock yield - pesticides used - application timing - application area - other (specify): Doses

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Users Not Surveyed	The Chemical Inspection Service inspects the farms controlling the stocking of pesticides. The Danish Veterinary and Food Administration take samples of Danish fruits and vegetables. In case of infringements the case are forwarded to the Chemical Inspection Service for further investigation.

National Survey Results for Finland

Table 1: General Information

Table 1. General Information	
Pesticide Regulator(s)	Name of National Regulator and Country: Plant Production Inspection Centre, Finland Name of Contact: Deputy Director Eija-Leena Hynninen Phone: +358 2077 25180 Facsimile Number: +358 2077 25195 E-mail: eija-leena.hynninen@kttk.fi Address: Vilhonvuorenkatu 11C, P.O. Box 42, FI-00501 Helsinki, Finland
Legislation(s) Governing Pesticide Users	 - Torjunta-ainelaki 1969/327 (National Law on Pesticides 1969/327) - Torjunta-aineasetus 1995/792 (National Regulation on Pesticides 1995/792) - Regulation 328/2005 given by the Ministry of Agriculture and Forestry related to testing sprayer equipment. It is connected to EU's Common Agricultural Policy (CAP).
Jurisdiction of Enforcement	By the State/Province and/or Country
Surveyed User Groups	Acricultural and horticultural producers and forest owners www.mtk.fi

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in encouraging USER Compliance	Authorities/powers REGULATORS can use to encourage USER compliance
N/A	 compliance promotion (O) inspection (O) stop advertising (O) compliance agreement (O) written/verbal warning (X) investigation (suspect wrongdoing) (X) reduce or recall of financial grants (X) detention/seizure (X) fines (X) prosecution (X) stop import (O/X) stop use (O/X) revoke permit/license/certification (O/X)
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed :

Supervision on use of pesticides is based on an annual control plan. Plant Production Inspection Centre affirms the annual control plan for the use and marketing of pesticides in Finland. The plan is carried out and reported by determined authorities. Plant Production Inspection Centre summarises these reports in an annual summary with conclusions and possible needs for further actions.

Annual reports are delivered to the Ministry of Agriculture and Forestry, Employment and Economic Development Centres and EU.

Because of needs to develop the national law on pesticides related to supervision, the law is under renewal at the moment. The main aim is to get the new legislation on plant protection products to be accepted during 2007.

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
 in person phone e-mail trade show / seminar 	phonee-mailtrade show / seminar	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)

Table 4. Reporting and Osc Data	Table 4: Reporting and Use Data (relevant to Objectives 4)		
Medium used by regulators when reporting on compliance and enforcement activities to:			
State/Province Organization(s)	National Organization(s)	Public	
Reports other (specify): We organise annually education events for persons who have made supervision visits. Results of annual supervision are discussed during the lectures.	N/A	N/A	
not capable of trends from data			

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)	
According to Users	According to Regulators
 Following label directions: Buffer (to water, wells, sensitive habitat, etc.)(1) Soil Type / Depth to ground water (2) Labelled Crop / Site (3) Other label directions: (4) Proper disposal of pesticides and/or pesticide containers (5) 	 Use of imported products that are not authorised (5) Use contrary to/inconsistent with label directions (please indicate below): Wind speed (drift due to wind) (3) Labelled Crop / Site (4) Improper disposal of pesticides and/or pesticide containers (2) Other major USER Compliance problem: (1) Plant protection products that have withdrawn lately from the register of pesticides (mainly withdrawn by requests presented by a register holder for marketing reasons). These products may still be available and in use. In supervision minor human resources have had an effect on the number of control visits. In the very near future the number of supervision visits will increase because of aims related to supervision needs under Commission Regulation (EC) No 796/2004 and Council Regulation (EC) 1782/2003.

Table 6: Records on Pesticide Use (relevant to Objective 2)

Table 6: Records on Pesticide Use (relevant to Objective 2)	
Users	Regulators
Do maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded :	Information required :
- crop/stock yield pest identified - pesticides used - application timing - application area - other (specify):	- crop/stock yield - pest identified - pesticides used - application timing - application area
Do compare the data from year to year to help target pests (life cycles, trends, etc.)	
Do analyse the data to change the amount of pesticides used from year to year	

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 $\it Do$ analyse the data to change the type of pesticides used from year to year (resistance management)

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
More advice and information to pesticide users	No model is used. Ref: see answers in the question number The highlighted problems have been noticed during annual supervision visits in the case of numbers 1, 2, 4 and 5, whereas in the case of number 3 through complaints by citizens.

National Survey Results for Germany

Table 1: General Information

Pesticide Regulator(s)	Federal Office of Consumer Protection and Food Safety (BVL) Contact: Dr. Karin Corsten Phone:++49 531-299-3505 Facsimile Number:++49 531-299-3002 E-mail: karin.aden@bvl.bund.de Address: Messeweg 11/12, 38104 Braunschweig, Germany
Legislation(s) Governing Pesticide Users	 German Plant Protection Act (Gesetz zum Schutz der Kulturpflanzen) and related regulations: Ordinance for Banned Uses of Plant Protection Products (Pflanzenschutz-Anwendungsverordnung) Code of Good Agricultural Practice in Plant Protection (Grundsätze für die gute fachliche Praxis im Pflanzenschutz) Governing Specialist Qualifications in Plant Protection (Pflanzenschutz-Sachkundeverordnung) Plant Protection Product Ordinance (Pflanzenschutzmittelverordnung) Ordinance concerning the use of Plant Protection Products hazardous to bees - Bee Protection Ordinance (Bienenschutzverordnung) Additionally, in some Federal States special legislation is in force, regulating special buffer stripes to surface water or the use of PPPs in non-agricultural areas, e.g. the use on hard surfaces. (The mentioned areas are regulated by a German Federal law, however, some Federal States have stricter regulations.)
Jurisdiction of Enforcement	Federal state
Surveyed User Groups	Agricultural and horticultural group Horticulture group: www.g-net.de

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Table 2: Activities to Encourage Compliance (relevant to Objective 1)	
Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to
encouraging USER Compliance	encourage USER compliance
• compliance promotion (2)	Not all authorities in the Federal States have made use of
• compliance agreement (2)	this possibility up to now:
	 compliance agreement
	stop advertising
	stop import
	Authorities in the Federal States who are responsible for
	promotion and controls, according to the German Plant
	<u>Protection Act</u> :
	 compliance promotion
	 written/verbal warning
	 inspection
	 investigation (suspect wrongdoing)
	detention/seizure
	• fines
	• stop use
	revoke permit/license/certification

Related authorities in the Federal States

- reduce or recall of financial grants
- other activity: prohibition of sale
- disposal of non-authorised plant protection products

Description of how the effectiveness of compliance programmes/activities are assessed:

Inspections which are carried out every year, covering all important user compliance problems may indicate the effectiveness of information and compliance promotion regarding users.

- The results of the inspections are compiled once a year before the start of a new vegetation period (individually in the Federal States and in a national expert group chaired by the BVL). According to the evaluation of the inspections it is possible to identify main problems. These problems are selected to be subject for information and compliance promotion regarding users of Plant Protection Products.
- The annual control plan considers specific regional conditions (risk based controls) and the results of the inspections of previous years.
- If there are objections against a user, this user will be inspected within one year or less for a second time to see if the objections are still valid or not.

The Federal States use a step-by-step approach to increase user compliance:

- 1. enforce compliance promotion
- 2. written warning
- 3. fines
- 4. higher fines or detentions

* Most popular responses

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of products, changes to pesticide labels, etc, from:
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
• in person (2)	• in person (2)	Manufacturers Mailings
• phone (2)	• phone (2)	 Government
• e-mail (2)	• e-mail (2)	
• letter (2)	• letter (2)	
• other (specify) : Conferences	• other (specify) :	

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
Reportse-mail	Reportse-mail	 Reports Website Other: press release (summary results)

Criteria by which data can be searched for trends:

violation type

^{*} The Federal States use different ways for data interpretation. Some States have complex databases while other States use more simple ones, therefore the interpretation of data varies in the States (marked with (X)). The type of violation can be evaluated by each Federal State because these results must be reported to the BVL. Because the compilation of an annual German Plant Protection Control Report began in 2004, it is difficult to identify national-wide trends up to now.

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
 Following label directions: Personal protective equipment (2) (2) Buffer (to water, wells, sensitive habitat, etc.) (1) (1) Rate of application (Dose) (3) Labelled Crop / Site (5) (5) Meeting product storage requirements (4) (4) Thorough cleaning of sprayer equipment (3) 	 Use of banned product (5, 5, 2, 4) Use of imported products that are not authorised (4, 3, 4, 5, 4) Unregistered use of a registered product (1, 4, 1, 5, 5, 4) Use contrary to/inconsistent with label directions (please indicate below): Personal protective equipment (5) Wind speed (2, 1, 5, 3) Buffer (to water, wells, sensitive habitat, etc.) (2, 5, 5, 3, 2, 3, 2) Soil Type / Depth to ground water (5) Drift (3, 3) Rate of application (Dose) (3) Timing of pre-harvest intervals (5) Exceeding number of applications allowed per season (4, 5) Labelled Crop / Site (5) Other label directions: (5) Unlicensed/Improper licensed applicator (4, 3, 2) Permit Violation (extra conditions not met aside from on the label e.g. buffer zones, unauthorized transfer, inappropriate amount used, unapproved area treated, etc.) (1, 4, 5, 5) Unsafe transport (unlocked, contaminate food/feed, etc.) (5) Unsafe storage of products (unlocked, contaminate food/feed, etc.) (5) Unsafe storage of products (unlocked, contaminate food/feed, etc.) (2, 3) Stocking of obsolete products (3, 3, 1, 3, 4, 3) Improper filling or cleaning of sprayer equipment (2) Improper disposal of pesticides and/or pesticide containers (2) Other major USER Compliance problem: 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Table 6: Records on Pesticide Use (relevant to Objective 2)	
Users	Regulators
Do maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded	User are required to maintain records. This duty couldn't directly derived from the German Plant Protection Act, but from other regulations. Therefore, some Federal States haven't started to control these records until now. It is planed to amend the German Plant Protection Act in the near future.
 crop (not stock yield) (Y) (Y) pesticides used (Y) (Y) application timing (Y) (Y) application area (Y) (Y) 	 crop/stock yield (Y) pest identified (Y) pesticides used (Y) application timing (Y) application area (Y) other (specify): application rate, amount of water used per hectare, comments
Do compare the data from year to year to help target pests (life cycles, trends, etc.)	
Do analyse the data to change the amount of pesticides used from year to year	
<i>Do</i> analyse the data to change the type of pesticides used from year to year (resistance management)	

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Improve consultations and services	BVL (registration) After registration, the BVL collects reports from environmental monitoring programmes (groundwater, surface water), vertebrate poisonings, and results of the Plant Protection Control Programme about unwanted effects of PPPs, analyses them and takes appropriate measures. The following is an example of how groundwater findings of PPPs are evaluated: If concentrations of active substances ≥ 0.1 μg/l are found in the context of groundwater monitoring performed by the environmental authorities in the Federal States or water suppliers, the authorisation holders of the pertinent PPP are required to trace such findings and explain them to the BVL (description of the source, way of sampling,

labelling, transport and storage of samples, analysis). The results of the explanation of findings could lead to a modification of the authorisation of a PPP or supplemental studies are required from the authorisation holder.

Federal States (promotion and inspections)

- Environmental monitoring programmes (Ministries of Environment): Analyses of water samples in ground and surface water (streams in agricultural areas, effluent of sewage treatment plants) → compliance promotion, non-recommendation of special products in some critical areas. Geographic Information Systems (GIS) are used in some States to support identification, e.g. of fields situated close to water. These fields are more frequently objects of inspection than low risk areas.
- Co-operation with the Food Safety Authorities (residues in food) → In case of infringements (residues of non-authorised products), controls will take place directly at the producer's location (farm). If infringements are identified frequently in one crop, promotion and inspections will be focused mainly on the use of PPPs in these crops.
- Controls at user level, according to the German Plant Protection Control Programme, plus inspections, if wrong doing (misuse or abuse) is suspected

Research programmes showed that improper cleaning and filling of sprayer equipment lead to significant amounts of PPPs found in surface waters. Therefore, use instructions are given on the label and the industry and the competent authorities in the Federal States take care of promotion.

Organisation of expert meetings (nation-wide or within the Federal States) to discuss specific problems and find solutions for, e.g. unwanted bleaching effects caused by Clomazone, poisoning cases of bees, vertebrate poisonings caused by incorrect applications of rodenticides.

Remarks on and further information about the answer of the questionnaire for regulators from Germany

GENERAL REMARKS ON THE ANSWERS

- 136. The regulators' questionnaire was sent to the Federal Office for Consumer Protection and Food Safety (BVL) which is responsible for issuing authorisations for Plant Protection Products (PPP). Additionally, the questionnaire was sent to the competent authorities for control measures concerning marketing and use in 16 Federal States. Authorities of nine Federal States sent their answers of the questionnaire. The results were compiled because only slight differences could be identified. Different answers were given only to question 6. Therefore, an overview of the nine answers is given in the appendix.
- 137. The differing answers to question 6 can mainly be explained by specific regional conditions which influence farmers' actions. Some examples are given below:
 - In coastal regions near the North Sea or the Baltic Sea there are often strong winds. This increases the probability that applications take place at wind speeds which are not in accordance with the Code of Good Agricultural Practice in Plant Protection
 - The distribution of the seizure of farms and the qualification of users (farming on a regular/sideline basis) in a certain region is often reflected in the willingness/ability to work according to the label.
 - The availability of authorised Plant Protection Products (number of products) can vary considerably depending on the cultivated crops (example: a farmer who cultivates wheat has access to more PPPs in comparison to a farmer who cultivates vegetables).

Information on the German legislation, organisational structure and control systems at user level

Legislation

- 138. The German Plant Protection Act ("Gesetz zum Schutz der Kulturpflanzen") is the basic law for the authorisation of Plant Protection Products (PPP) and it monitors user compliance. Users and inspectors have to consider the following related legislation:
 - Ordinance for Banned Uses of Plant Protection Products ("Pflanzenschutz-Anwendungsverordnung")
 - Code of Good Agricultural Practice in Plant Protection ("Grundsätze für die gute fachliche Praxis im Pflanzenschutz")
 - Governing Specialist Qualifications in Plant Protection ("Pflanzenschutz-Sachkundeverordnung")
 - Plant Protection Product Ordinance ("Pflanzenschutzmittelverordnung")
 - Ordinance Concerning the Use of Plant Protection Products Hazardous to Bees Bee Protection Ordinance ("Bienenschutzverordnung")

Authorisation

139. In Germany the Federal Office for Consumer Protection and Food Safety (BVL) is the competent national authority for the authorisation of PPPs.

Controls at user level

- 140. Germany is a Federal Republic with 16 Federal States (Bundesländer). According to the German Plant Protection Act, the control of placing on the market and practical use of PPPs is task of the plant protection services or related authorities of the Federal States. Depending on the structure of each Federal State, the competence for promotion, planning, implementation, and evaluation of control at user level can be divided between different authorities. For example, the Ministries of Agriculture, State Offices or Plant Protection Services may be involved.
- 141. The inspectors of the plant protection services or comparable authorities conduct the controls. The Federal States have created standards for the co-ordination of the control programme. They are compiled in the German Plant Protection Control Manual. The inspections take place within the German Plant Protection Control Programme.
- 142. At user level three different areas are subject to control:

During a farm visit stored PPPs, sprayer equipment (valid test badge), qualification of the applicator and the documentation is checked. The correct use of PPPs (use of an authorised product in compliance with use instructions, e.g. buffer zones to surface water) is controlled **during or after an application on the field**. During these controls, soil, plant or spraying liquid samples can be taken which will be analysed in laboratories owned by the Federal States or in private laboratories. Additionally, sprayer equipment and the qualification of the applicator are be checked.

Competence of the Authorities

- 143. The Federal States are also responsible for punishment in case of violation against the German Plant Protection Act or related laws. Controls are conducted at market and at user level.
- 144. The Federal States follow a step-wise approach to increase user compliance under the German Plant Protection law:
 - 1. compliance promotion
 - 2. written warnings
 - 3. fines
 - 4. in case of repeated wrong-doing: higher fines or detentions
- 145. Additionally, a second procedure was established to increase user compliance. This system is not regulated under the German Plant Protection Act, but related authorities in the Federal States are responsible for its implementation. Based on EU-regulations, financial grants are reduced if users are found to be non-compliant. The results of two different control systems are considered:
 - 1. A special control system was established to control farmers who receive grants ("Cross Compliance" controls).
 - 2. The results of the inspections within the Control Programme described above, according to the German Plant Protection Act, are taken into account for the evaluation of user compliance ("Cross Checks"), and can also lead to a reduction of grants.

Annual reports

146. The results of the controls at market and user level are summarised and published annually by the BVL on its homepage. The data are also used by the Federal Ministry of Food, Agriculture and Consumer

Protection (BMELV) to compile an annual report about the inspections conducted in Germany for the EU-Commission, according to Article 17 of Directive 91/414/EEC.

Assessment of the results of the control programmes and generation of control plans

147. The responsible authorities in the Federal States consider the results of user controls of previous years, the results of environmental monitoring programmes, the results of food residue controls, and specific regional conditions for the preparation of annual control plans. The results of the controls and the annual control plans are discussed in a national expert group (chaired by the BVL).

Post-registration monitoring

148. After the registration, the BVL collects reports (of environmental monitoring programmes and results of the control programme) about unwanted effects of PPPs, analyses them, and takes the appropriate measures within the authorisation of PPPs (e.g. withdrawal of applications or imposing additional restrictions of use).

National Survey Results for <u>Ireland</u>

Table 1: General Information

Table 1: General Information	
	Pesticide Control Service, Ireland. Gordon Rennick
	Phone: +353 1 6157618
	Facsimile Number: +353 1 6157575
Pesticide Regulator(s)	E-mail: gordon.rennick@agriculture.gov.ie
, , , , , , , , , , , , , , , , , , ,	Address: Department of Agriculture and Food Laboratories, Backweston
	Campus, Young's Cross, Celbridge, Co. Kildare.
T 110 () C	Statutory Instrument 83 of 2003 (as amended)
Legislation(s) Governing	www.pcs.agriculture.gov.ie
Pesticide Users	
Jurisdiction of Enforcement	By the State/Province and/or Country
· · · · · · · · · · · · · · · · · · ·	- y
	Users Not Surveyed
	Obolb 110t bull royou
Surveyed User Groups	

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in encouraging USER Compliance	Authorities/powers REGULATORS can use to encourage USER compliance
Users Not Surveyed	 written/verbal warning (O) inspection (O) investigation (suspect wrongdoing) (O) reduce or recall of financial grants (O) detention/seizure (O) fines (O) prosecution (O) stop import (X) stop use (X)
	Description of how the effectiveness of compliance programmes/activities are assessed :
* Most popular responses	A new programme is currently being implemented. After a period of operation the effectiveness of this programme will be assessed. We conduct a Plant Protection Product "Usage Surveys" on a cyclical basis and we keep annual records of import, export and manufacture of Plant Protection Products.

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
Users Not Surveyed	Users Not Surveyed	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:			
State/Province Organization(s)	National Organization(s)	Public	
ReportsWebsite	Not provided	Reportswebsite	
Criteria by which data can be searched for trends:			
not capable of trends from data			

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
Users Not Surveyed	 Use of banned product (5) Use of imported products that are not authorised (2) Unregistered use of a registered product (4) Use contrary to/inconsistent with label directions (please indicate below): Timing of pre-harvest intervals (3) Stocking of obsolete products (1) 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Table of Records of Festicide Ose (recevant to Os)	
Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded (if applicable):	Information required :
Users Not Surveyed	- pesticides used - application area - other (specify): Product name and registration number, Place of purchase, Package size, Quantity purchased, Date of application, Crop and area treated, Amount applied to crop. Records of returns, products in stock and disposals.

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
	No.

National Survey Results for <u>Japan</u>

Table 1: General Information

Table 1: General Information			
	Ministry of Agriculture, Forestry and Fisheries JAPAN		
	Name of Contact: Katsuya Sato (Mr.)		
	Phone: +81-3-3501-3965		
	Facsimile Number: +81-3-3501-3774		
	E-mail: katsuya_sato@nm.maff.go.jp		
	Address: 1-2-1 Kasumigaseki, Chiyoda-ku, Tokyo, 100-8950		
Destinide Descriptor(e)			
Pesticide Regulator(s)	Name of National Regulator and Country:		
	Ministry of the Environment JAPAN		
	Name of Contact: Masanobu Kimura (Mr.)		
	Phone: +81-3-5521-8311		
	Facsimile Number:+81-3-3501-2717		
	E-mail: masanobu_kimura@env.go.jp		
	Address: 1-2-2 Kasumigaseki, Chiyoda-ku, Tokyo, 100-8975		
	Agricultural Chemicals Regulation Law		
Legislation(s) Governing	Mandatory standard for users of agricultural chemicals (Ministerial		
Pesticide Users	ordinance)		
	http://www.maff.go.jp/nouyaku/ (in Japanese)		
Jurisdiction of Enforcement	By the State/Province and/or Country		
	National Federation of Agricultural Co-operative Associations		
	http://www.zennoh.or.jp/		
	Name of Country: Japan		
	Name of Contact: Makoto NISHIO (Mr.)		
	Phone: +81-3-3245-7281		
SURVEYED USER GROUPS	Facsimile Number: +81-3-3245-7444		
SORVETED USER GROUIS	E-mail: nishio@zk.zennoh.or.jp		
	Address: 3-3-4 Uchikanda, Chiyoda-ku, Tokyo, 101-0047		
	(a representative of a farmhouse)		
	(a representative of a farimouse)		

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to
 compliance promotion O written/verbal warning O inspection investigation (suspect wrongdoing) compliance agreement O reduce or recall of financial grants detention/seizure fines O stop advertising prosecution stop import 	compliance promotion O written/verbal warning O inspection O investigation (suspect wrongdoing) X compliance agreement X reduce or recall of financial grants O detention/seizure X fines O stop advertising O prosecution O stop import O
stop use revoke permit/license/certification other activity (specify): * Most popular responses	 stop use O revoke permit/license/certification O other activity (specify): Description of how the effectiveness of compliance
Wost popular responses	No.

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
 do no provide in person O phone O e-mail O letter trade show / seminar other (specify) : 	 do not provide in person O phone O e-mail O letter trade show / seminar other (specify) : 	 Manufacturers Mailings (O) Government (O) Trade shows/Vendors Associations/User Groups Newsletters/Meetings (O) Media (e.g. Newspaper, Radio, etc) Other pesticide users

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
 Reports (O) e-mail (O) website (O) other (specify): 	 Reports e-mail website (O) other (specify): 	 Reports e-mail website (O) other (specify):

Criteria by which data can be searched for trends:

- not capable of trends from data
- violation type (O)
- enforcement action taken
- user group
- other (specify):

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
 Use of only approved products Following label directions: - Personal protective equipment Wind speed Buffer (to water, wells, sensitive habitat, etc.) Soil Type / Depth to ground water Drift (2) Rate of application (Dose) (5) Timing of pre-harvest intervals Exceeding number of applications allowed per season (4) Labelled Crop / Site (1) Other label directions: Obtaining the required permits / licence Meeting product storage requirements Thorough cleaning of sprayer equipment Proper disposal of pesticides and/or pesticide containers (3) Other major Compliance challenge: 	 Use of banned product Use of imported products that are not authorised Unregistered use of a registered product (1) Use contrary to/inconsistent with label directions (please indicate below): - Personal protective equipment - Wind speed - Buffer (to water, wells, sensitive habitat, etc.) - Soil Type / Depth to ground water - Drift - Rate of application (Dose) (5) - Timing of pre-harvest intervals (4) - Exceeding number of applications allowed per season (3) - Labelled Crop / Site (2) Other label directions: Unlicensed/Improper licensed applicator Permit Violation (extra conditions not met aside from on the label e.g. buffer zones, unauthorized transfer, inappropriate amount used, unapproved area treated, etc.) Unsafe transport (unlocked, contaminate food/feed, etc.) Unsafe storage of products (unlocked, contaminate food/feed, etc.) Stocking of obsolete products Improper filling or cleaning of sprayer equipment Improper disposal of pesticides and/or pesticide containers Other major USER Compliance problem: 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
Do maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded :	Information required :
- crop/stock yield (O) - pest identified - pesticides used (O) - application timing (O) - application area - other (specify): application dose and time	- crop/stock yield (O) - pest identified - pesticides used (O) - application timing (O) - application area (O) - other (specify):
Do not compare the data from year to year to help target pests (life cycles, trends, etc.)	
Do not analyse the data to change the amount of pesticides used from year to year	
Do not analyse the data to change the type of pesticides used from year to year (resistance management)	

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
N/A	No. there is not such process and model in Japan. But, we have regularly monitored the residue of agricultural chemicals in crops and aquatic environment. If the residue is over the tolerance for pesticide residue for crops etc, we will find out the reason.

National Survey Results for New Zealand

Table 1: General Information

	Environmental Risk Management Authority of New Zealand, New Zealand	
	(<u>http://www.ermanz.govt.nz</u>)	
	Name of Contact: Peter Dawson	
	Phone: 64 4 916 2426	
	Facsimile Number: 64 4 914 0433	
	E-mail: <u>peter.dawson@ermanz.govt.nz</u>	
D. 4. 1. D 1. 4 (a)	Address: PO Box 131, Wellington, New Zealand	
Pesticide Regulator(s)	New Zealand Food Safety Authority, New Zealand	
	Name of Contact: Warren Hughes (NZFSA)/	
	Phone: +64 4 463 2560	
	Facsimile Number: +64 4 463 2566	
	E-mail: warren.hughes@nzfsa.govt.nz	
	Address: PO Box 2835, Wellington. New Zealand	
	Tradition. To Box 2000, Wellington. Ten Zealand	
	- Hazardous Substances and New Organisms Act (HSNO) 1996	
	(http://www.legislation.govt.nz)	
	- Agricultural Compounds and Veterinary Medicines Act 1997	
Legislation(s) Governing	(http://www.nzfsa.govt.nz/acvm/index.htm)	
Pesticide Users	- Food Act 1981	
	(http://www.nzfsa.govt.nz/policy-law/legislation/food-	
	standards/index.htm#mrl)	
	Sundards/ index.num/init)	
Jurisdiction of Enforcement	By country	
	2) 00)	
	Horticulture, www.hortnz.co.nz	
	, 	
	Federation of Farmers	
	Name of Contact: Hugh Ritchie	
Surveyed User Groups	Phone: 068568279	
	Facsimile Number: 068568056	
	E-mail: hughrit@xtra.co.nz	
	Address: RD 1 Otane	
	ridicos, RD i Gaile	

Table 2: Activities to Encourage Compliance (relevant to Objective 1)		
Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to	
encouraging USER Compliance	encourage USER compliance	
• Inspection (2)	• inspection (O)	
• compliance promotion (X)	• investigation (suspect wrongdoing) (O)	
 written/verbal warning (X) 	• detention/seizure (O)	
revoke permit/license/certification (X)	• fines (O)	
• compliance agreement (X)	• stop advertising (O)	
	• prosecution (O)	
	• stop import (O)	
	• stop use (O)	
	revoke permit/license/certification (O)	
	• compliance agreement (X)	
	 written/verbal warning (X) 	
	• compliance promotion (X)	
	Compliance promotion (A)	
	Description of how the effectiveness of compliance	
	programmes/activities are assessed :	
	The Environmental Risk Management Authority	
	(ERMA) produces an Annual Monitoring Report as a	
	statutory obligation. ERMA monitor and review the extent to which the HSNO Act reduces adverse effects	
	on the environment and people by analysing relevant	
* Most popular responses	data sources such as key statistics, reported incidents	
	and indicators. ERMA also attend enforcement agency	
	liaison meetings to gather information on compliance	
	and enforcement and to ensure that agencies are	
	reporting appropriately.	
	The ACVIM Course and order as a last 1' Cities	
	- The ACVM Group undertakes regular slice of life audits to monitor a range of activities, including user	
	compliance.	
	Comphanico.	

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Table 3. Feedback Mechanisms (felevant to Objectives 2 and 3)			
Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of	
to Regulator: to Manufacturer:		products, changes to pesticide labels, etc, from:	
 in person phone e-mail letter other: Fed farmers 	 in person phone e-mail other: Fed farmers rep on other committes 	 Government Associations/User Groups Newsletters/Meetings Other: FAR or HORT NZ ag chem. manuals 	

Table 4: Reporting and Use Data (relevant to Objectives 4)

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
 Use of only approved products (1)(3) Following label directions: Personal protective equipment (5) Wind speed (4) (2) Buffer (to water, wells, sensitive habitat, etc.) (5) Soil Type / Depth to ground water (5) Drift (4) (1) Rate of application (Dose) (5) Timing of pre-harvest intervals (5) Exceeding number of applications allowed per season (5) Labelled Crop / Site (5) Other label directions: (5) Obtaining the required permits / licence (4) Meeting product storage requirements (5) (5) Thorough cleaning of sprayer equipment (5) Proper disposal of pesticides and/or pesticide containers (5) 	 Use contrary to/inconsistent with label directions (please indicate below): Personal protective equipment (2) Drift (1) Unlicensed/Improper licensed applicator (4) Unsafe storage of products (unlocked, contaminate food/feed, etc.) (3) Improper disposal of pesticides and/or pesticide containers (5) 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
Do maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded:	Information required: No requirement under the ACVM Act to maintain records of use. However, may be required by exporter to comply with importing country's requirements.
- crop/stock yield (1) - pest identified (1) - pesticides used (2) - application timing (2) - application area (2)	- crop/stock yield - pest identified
Do compare the data from year to year to help target pests (life cycles, trends, etc.)	
Do(1)	
Do not (1)	
Do analyse the data to change the amount of pesticides used from year to year Do (2)	
Do analyse the data to change the type of pesticides used from year to year (resistance management)	

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
(1) More education, less compliance!! (2) System should be outcome based not prescriptive legistalitive in nature. Ie breach should be due to causing an off target effect not a technical brief of lack of a certain piece of paper.	- Please see the NZFSA policy on the website at http://www.nzfsa.govt.nz/acvm/publications/policies-procedures/compliance/index.htm.

National Survey Results for Norway

Table 1: General Information

Pesticide Regulator(s)	Name of National Regulator and Country: Norwegian Food Safety Authority, Norway Name of Contact: Ellen Mari Grande Phone: 47 23 21 68 75 Facsimile Number: E-mail: ellen.mari.grande@mattilsynet.no Address: Mattilsynet, Felles postmottak, postboks 383, N-2381 Brumunddal, Norway.
Legislation(s) Governing Pesticide Users	Regulation related to pesticides of 26. July 2004.
Jurisdiction of Enforcement	N/A
Surveyed User Groups	Users Not Surveyed

Table 2: Activities to Encourage Compliance (relevant to Objective 1)	
Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to
encouraging USER Compliance	encourage USER compliance
Users Not Surveyed	 written/verbal warning inspection investigation (suspect wrongdoing) prosecution revoke permit/license/certification
	Description of how the effectiveness of compliance programmes/activities are assessed :
	programmes/activities are assessed.

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
 do no provide in person phone e-mail letter trade show / seminar other (specify) : 	 do not provide in person phone e-mail letter trade show / seminar other (specify) : 	 Manufacturers Mailings Government Trade shows/Vendors Associations/User Groups Newsletters/Meetings Media (e.g. Newspaper, Radio, etc) Other pesticide users

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
Criteria by which data can be searched for trends:		
 violation type enforcement action taken 		

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)	
According to Users	According to Regulators
	 Use of imported products that are not authorised (5) Use contrary to/inconsistent with label directions (please indicate below): Personal protective equipment (1) Unsafe storage of products (unlocked, contaminate food/feed, etc.) (3) Stocking of obsolete products (4) Improper disposal of pesticides and/or pesticide containers (2)

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded (if applicable):	Information required :
Users Not Surveyed	- crop/stock yield - pest identified - pesticides used - application timing - application area

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
	We have no special process or model for these matters. But the monitoring programme for pesticides residues shows if MRL's are exceeded or if an unauthorized pesticide for the actual crop has been used. And in the surveys mentioned before, questions on use of personal protective equipment, procedures for filling/cleaning spraying equipment, storage and disposal of products/containers and other matters relating to risks for health and environment, are included.

National Survey Results for **Slovak Republic**

Table 1: General Information

Pesticide Regulator(s)	Central Controlling and Testing Institute in Agriculture (UKSUP), Slovak Republic Name of Contact: Mrs. Zaneta Scobakova, Mr. Stanislav Barok Department of registration Department of plant protection of pesticides Phone: 00421 2 59 880 325 / 00421 2 69 204 443 Facsimile Number: E-mail: zaneta.scobakova@uksup.sk s.barok@uksup.sk Address: Matuskova 21, Hanulova, 833 16 Bratislava, 844 29 Bratislava	
Legislation(s) Governing Pesticide Users	I. Act No. 193/2005 Col. on plant health care II. Ordinance No. 225/2005 laying down requirements concerning placing on the market of plant protection products III. DECREE No. 3357/2004-100 amending Decree No. 3322/3/2001-100 laying down details concerning plant protection products AND Decree No. 1968/2004-100	
Jurisdiction of Enforcement	N/A	
Surveyed User Groups	Users Not Surveyed	

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to
encouraging USER Compliance	encourage USER compliance
Users Not Surveyed	 written/verbal warning (O) inspection (O) fines (O) stop advertising (O) stop import (O) stop use (O) revoke permit/license/certification (X)
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed:
	All our activities are given in legislation (Act No. 193/2005 Col. on plant health care).

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
Users Not Surveyed	Users Not Surveyed	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:			
State/Province Organization(s)	National Organization(s)	Public	
Ministry of Agriculture	Organisations which share with UKSUP registration process	In bulletin of Ministry of Agriculture	
• Reports	Reportse-mail	ReportsWebsite	
Criteria by which data can be searched for trends (if applicable)			
N/A			

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
Users Not Surveyed	 Unregistered use of a registered product (5) Use contrary to/inconsistent with label directions (please indicate below): Timing of pre-harvest intervals (4) Unlicensed/Improper licensed applicator (3) Unsafe storage of products (unlocked, contaminate food/feed, etc.) (2) Stocking of obsolete products (1) 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded (if applicable):	Information required :
Users Not Surveyed	- pest identified - pesticides used - application timing - application area - other (specify): purchase of ppp, storage and disposal of ppp

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Users Not Surveyed	N/A

National Survey Results for Slovenia

Table 1: General Information

Pesticide Regulator(s)	MAFF. Phytosanitary Administration of the Republic of Slovenia Name of Contact: Milena KOPRIVNIKAR B. Phone: 00 386 1 30 94 377 Facsimile Number: 00 386 1 30 94 335 E-mail: milena.koprivnikar@gov.si Address: 6 Einspielerjeva, SI – 1000, Ljubljana	
Legislation(s) Governing Pesticide Users	Act on plant protection products (OJ RS No 98/04) Rules on obligations of operators for application of plant protection products (OJ RS No 62/2003)	
Jurisdiction of Enforcement	By the State/Province and/or Country	
Surveyed User Groups	Chamber of agriculture and forestry of Slovenia, www.kgzs.si agricultural, landscape, horticultural	

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in	Authorities/powers REGULATORS can use to
encouraging USER Compliance	encourage USER compliance
 written/verbal warning (O) inspection (O) investigation (suspect wrongdoing) (O) reduce or recall of financial grants (O) revoke permit/license/certification (O) 	 compliance agreement (O) revoke permit/license/certification (O) compliance promotion (X) written/verbal warning (X) inspection (X) investigation (suspect wrongdoing) (X) reduce or recall of financial grants (X) detention/seizure (X) fines (X) stop advertising (X) prosecution (X) stop import (X) stop use (X)
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed (if applicable)

Phytosanitary Administration RS and Inspectorate of the Republic of Slovenia for Agriculture, Forestry and Food (IRSAFF) agree on annual inspection plan in the field of plant protection products (PPP).

IRSAFF control the placing of PPP on the market, the label, use and illegal use of PPP.

IRSAFF send the cumulative report on activities to PARS for the previous year.

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
in personphone calle-mailletter	 in person phone call e-mail trade show / seminar 	 Manufacturers Mailings Government Other pesticide users : Farm advisors

Table 4: Reporting and Use Data (relevant to Objectives 4)

enforcement action taken

Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
N/A	Reportse-mail	• website
Criteria by which data can be searched for trends: • violation type		

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
 Use of only approved products (1) Following label directions: Rate of application (Dose) (5) Timing of pre-harvest intervals (2) Thorough cleaning of sprayer equipment (3) Proper disposal of pesticides and/or pesticide containers (4) 	 Use of imported products that are not authorised (1) Use contrary to/inconsistent with label directions (please indicate below): Personal protective equipment (3) Buffer (to water, wells, sensitive habitat, etc.) (5) Drift (2) Rate of application (Dose) (4) 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
Do maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded :	Information required :
- crop/stock yield pest identified - pesticides used - application timing - application area	- crop/stock yield - pest identified - pesticides used - application timing - application area
Do compare the data from year to year to help target pests (life cycles, trends, etc.)	
Do analyse the data to change the amount of pesticides used from year to year	
Do analyse the data to change the type of pesticides used from year to year (resistance management)	

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
N/A	N/A

National Survey Results for **Sweden**

Table 1: General Information

Pesticide Regulator(s)	Name of National Regulator and Country: Swedish Chemicals Inspectorate Phone:+46-8-51941100 Facsimile Number:+46-8-7357698 E-mail: kemi@kemi.se Address: Box 2, 17213 Sundbyberg, Sweden
Legislation(s) Governing Pesticide Users	(SNFS 1997:2 Statens Naturvårdsverks föreskrifter om spridning av kemiska bekämpningsmedel) http://www.internat.naturvardsverket.se/
Jurisdiction of Enforcement	Enforced by local authorities.
Surveyed User Groups	Users Not Surveyed

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in encouraging USER Compliance	Authorities/powers REGULATORS can use to encourage USER compliance
Users Not Surveyed	 compliance promotion (X) inspection (X) investigation (suspect wrongdoing) (X) stop advertising (X O) prosecution (X) stop use (X) revoke permit/license/certification (X)
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed (if applicable)
	N/A

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
Users Not Surveyed	Users Not Surveyed	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)		
Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
• website	• website	• website
Criteria by which data can be searched for trends:		
not capable of trends from data		

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)		
Most frequent compliance challenges (in rank order)		
According to Users	According to Regulators	
 Use of only approved products Following label directions: - Personal protective equipment Wind speed Buffer (to water, wells, sensitive habitat, etc.) Soil Type / Depth to ground water Drift Rate of application (Dose) Timing of pre-harvest intervals Exceeding number of applications allowed per season Labelled Crop / Site Other label directions: Obtaining the required permits / licence Meeting product storage requirements Thorough cleaning of sprayer equipment Proper disposal of pesticides and/or pesticide containers Other major Compliance challenge: 	 Use of banned product Use of imported products that are not authorised Unregistered use of a registered product Use contrary to/inconsistent with label directions (please indicate below): - Personal protective equipment - Wind speed - Buffer (to water, wells, sensitive habitat, etc.) - Soil Type / Depth to ground water - Drift - Rate of application (Dose) - Timing of pre-harvest intervals - Exceeding number of applications allowed per season - Labelled Crop / Site Other label directions: Unlicensed/Improper licensed applicator Permit Violation (extra conditions not met aside from on the label e.g. buffer zones, unauthorized transfer, inappropriate amount used, unapproved area treated, etc.) Unsafe transport (unlocked, contaminate food/feed, etc.) Unsafe storage of products (unlocked, contaminate food/feed, etc.) Stocking of obsolete products Improper filling or cleaning of sprayer equipment Improper disposal of pesticides and/or pesticide containers Other major USER Compliance problem: 	

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded :	Information required :
- crop/stock yield pest identified - pesticides used - application timing - application area - other (specify):	- pesticides used (Y) - application timing (Y) - application area (Y) - other (specify): dosage, temp, wind, other safety measures regarding filing and cleaning of equipment
(Do or Do not) compare the data from year to year to help target pests (life cycles, trends, etc.) (Do or Do not) analyse the data to change the amount of pesticides used from year to year (Do or Do not) analyse the data to change the type of pesticides used from year to year (resistance)	

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Users Not Surveyed	N/A

National Survey Results for **Switzerland**

Table 1: General Information

Table 1: General Information	
Pesticide Regulator(s)	Federal Office for Agriculture, Principal Division for Special Services and Means of Production, Plant Protection Section, Switzerland
	Name of Contact: Elisabeth Bosshard
	Phone: 0041-31-324 90 80
	Facsimile Number: 0041-31-322 70 80
	E-mail: <u>elisabeth.bosshard@blw.admin.ch</u>
	Address: Mattenhofstrasse 5, 3003 Bern, Switzerland
Legislation(s) Governing Pesticide Users	- Ordonnance sur les paiements directs OPD 910.13 ;
	http://www.admin.ch/ch/f/rs/910_13
	- Ordonnance sur la réduction des risques liés aux produits chimiques,
	ORRChim, http://www.admin.ch/ch/f/rs/c814_81.html (languages
	available: German, French, Italian)
Jurisdiction of Enforcement	By the State
	Users Not Surveyed
C IV C	
Surveyed User Groups	

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in encouraging USER Compliance	Authorities/powers REGULATORS can use to encourage USER compliance
Users Not Surveyed	 compliance promotion (O) inspection (O) compliance agreement (O) reduce or recall of financial grants (O) prosecution (O) written/verbal warning (X) investigation (suspect wrongdoing) (X) fines (X) revoke permit/license/certification (X)
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed

An extensive Evaluation Programme has been initiated in 1997 to study the impact of new risk reduction measures, for which the legal base has been put into force in 1998. Parameters studied were e.g. biodiversity, nitrogen, phosphorus, use of plant protection products. The evaluations in the various areas have been conducted in the last few years and the summary reports are now available (German version). With respect to the use of plant protection products, the use data were collected in four different lake areas in Switzerland. The evaluation of the data has shown that the quantitative goal of a 30% reduction in the use of plant protection products compared to the reference value of 1992 has been achieved. The results however also show that in addition to the implementation of more ecological production methods also other factors have contributed to the reduction observed. The reports are available under: www.blw.admin.ch/news/01325

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information regarding compliance issues		Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
Users Not Surveyed	Users Not Surveyed	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:		
State/Province Organization(s)	National Organization(s)	Public
ReportsWeb site	N/A	N/A
Criteria by which data can be searched for trends:		

Other: collection of pesticide sales data and monitoring programmes of use data; case studies

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)	
According to Users	According to Regulators
Users Not Surveyed	 Use contrary to/inconsistent with label directions (please indicate below): Buffer (to water, wells, sensitive habitat, etc.) (2) Drift (3) Labelled Crop / Site (1) Improper filling or cleaning of sprayer equipment (4) Improper disposal of pesticides and/or pesticide containers (5)

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded	Information required
Users Not Surveyed	- crop/stock yield - pest identified - pesticides used - application timing - application area

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Users Not Surveyed	No, there is no model used. The identification of the most relevant user compliance problems is rather a puzzle that is put together by the results of the various monitoring programmes going on in the different areas (residues, groundwater, controlling of field applications etc.)

National Survey Results for United States

Table 1: General Information

	U.S. Environmental Protection Agency, Office of Enforcement and Compliance Assurance
	Name of Contact: Kate Perry
Pesticide Regulator(s)	Phone: 202-564-4059
	Facsimile Number: 202-564-0028
	E-mail: perry.kate@epa.gov
	FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) (see
Legislation(s) Governing	http:www.epa.gov/compliance)
Pesticide Users	State laws (see AAPCO website for citations)
restretae esers	Suite land (see This Go weeste for chancels)
Jurisdiction of Enforcement	By the State
	= 7 2
Surveyed User Groups	Users Not Surveyed

Table 2: Activities to Encourage Compliance (relevant to Objective 1)

Enforcement Activities that USERS find helpful in encouraging USER Compliance	Authorities/powers REGULATORS can use to encourage USER compliance
Users Not Surveyed	 compliance promotion (O) written/verbal warning (O) inspection (O) investigation (suspect wrongdoing) (O) compliance agreement (O) reduce or recall of financial grants (O) detention/seizure (O) fines (O) stop advertising (O) prosecution (O) stop import (O) stop use (O) revoke permit/license/certification (O) other activity (specify): press releases with enforcement results
* Most popular responses	Description of how the effectiveness of compliance programmes/activities are assessed
	Yes, via oversight of State compliance and enforcement programmes

Table 3: Feedback Mechanisms (relevant to Objectives 2 and 3)

Users provide information	regarding compliance issues	Users receive information regarding unregistered pesticide products and pesticide uses, withdrawal of
to Regulator:	to Manufacturer:	products, changes to pesticide labels, etc, from:
Users Not Surveyed	Users Not Surveyed	N/A

Table 4: Reporting and Use Data (relevant to Objectives 4)

Medium used by regulators when reporting on compliance and enforcement activities to:					
State/Province Organization(s) National Organization(s) Public					
Reportswebsite	• website	• website			

Criteria by which data can be searched for trends

- violation type
- enforcement action taken
- other (specify): Worker Protection Standard elements; efficiency measure (Number of enforcement actions taken (Federal and State) per million dollars of costs (Federal and State). This efficiency measure is alternatively stated as cost of conducting inspections that identify violators.

Table 5: Compliance Challenges (relevant to Objectives 1 and 2)

Most frequent compliance challenges (in rank order)	
According to Users	According to Regulators
Users Not Surveyed	 Unregistered use of a registered product (3) Use contrary to/inconsistent with label directions (please indicate below): Personal protective equipment (2) Drift (1) Unlicensed/Improper licensed applicator (4) Improper disposal of pesticides and/or pesticide containers (5)

Table 6: Records on Pesticide Use (relevant to Objective 2)

Users	Regulators
(Do or Do not) maintain records on what pesticide and the quantity of pesticide used	Do require users to maintain records on pesticide use
Information recorded	Information required: These are required by the States.
- crop/stock yield pest identified - pesticides used - application timing - application area - other (specify):	 pest identified pesticides used application timing application area other (specify): climactic conditions; applicator information

Table 7: Additional Information (relevant to Objectives 1, 2, and 3)

From Users	From Regulators
Suggestions that could be helpful to regulatory authorities on which activities can improve/increase users compliance	The name of the process or model to identify and select user compliance problems that represent the greatest risk.
Users Not Surveyed	N/A

OECD SURVEY ON USER COMPLIANCE

QUESTIONNAIRE FOR <u>USERS</u>

an international w	orkshop e with th	ser compliance related is being held in Ottawa, Ju e use of pesticide produ	ine 2006,	by the R	RSG. T	he works	shop's prim	nary focus	
Name of Cou Name of C Phone: Facsimile E-mail: Address:	Contact:								
		me of any <u>user group(s)</u> eb site address if availal		long to (a	agricultu	ral, land	lscape, hort	cicultural,	
3 Please mark a compliance.	all of the	enforcement activities	you find	are helpi	<u>ful</u> in end	couragin	g USER		
	inspection	1] co	mpliance	e agreement		
	investigat	ion (suspect wrongdoing))] re	duce or re	ecall of fina	ncial grants	
	complian	ce promotion] de	detention/seizure			
	fines] sto	stop advertising			
	prosecution	on] sto	stop import			
	written/ve	erbal warning] sto	stop use			
	revoke pe	ermit/license/certification			ot!	her activi	ity(specify):		
		w you <u>provide informa</u> ce questions or issues, eg.					rs and man	ufacturers	
					Do	Provide Fe	eedback (How	?)	
Do Not Provide Feed back to Who? (Explain why?)			In Person	Phone Call	E-mail	Letter	Trade Show/ Seminar	Other (Specify):	
Regulator									
Manufacture	er								

The following survey is being undertaken by the OECD Pesticide Risk Reduction Steering Group (RRSG) during February to March 2006. The information gathered will inform governments and

5.		lo you receive information regarding unregistered pesticide production wal of products, changes to pesticide labels, etc.? (Check all that apply.)	
		Manufacturers Mailings	
		Government	
		Trade shows/Vendors	
		Associations/User Groups Newsletters/Meetings	
		Media (e.g. Newspaper, Radio, etc)	
		Other pesticide users	
		Other (specify):	
* inc	cludes Farm	Advisors, Agronomists, Consultants, etc.	
6.		ace many compliance challenges. Please indicate the <u>top FIVE</u> , by placest frequent through to the number 5 for the least frequent.	ing the number 1 next to
US	SER Complian	nce Challenge	Top 1 - 5 Only
Us	e of only app	roved products	
Fo	llowing label	directions:	
		- Personal protective equipment	
		- Wind speed	
		- Buffer (to water, wells, sensitive habitat, etc.)	
		- Soil Type / Depth to ground water	
		- Drift	
		- Rate of application (Dose)	
		- Timing of pre-harvest intervals	
		- Exceeding number of applications allowed per season	
		- Labelled Crop / Site	
		Other label directions:	
Ob	taining the re	quired permits / licence	
Me	eeting produc	t storage requirements	
Th	orough clean	ing of sprayer equipment	
Pro	oper disposal	of pesticides and/or pesticide containers	
Ot	her major Co	mpliance challenge:	
7.		you maintain records on what and the quantity of pesticide used? Y/N ormation you record. crop/stock yield pest identified pesticides used application timing application area other (specify):	If YES, please check all
		you compare the data from year to year to help target pests (life cycles, to you use the data to change the amount of pesticides used from year to ye	

- d) Do you use the data to change the type of pesticides used from year to year (resistance management)? $\mathbf{Y/N}$
- 8. Do you have suggestions that could be helpful to regulatory or control authorities or others on which activities can improve/increase USER compliance?

OECD SURVEY ON USER COMPLIANCE

QUESTIONNAIRE FOR <u>REGULATORS</u>

State/Province Organization(s) (specify):

National Organization(s) (specify):

Public (specify):

150.

an intern	ational v complian	pesticide user compliance related issoworkshop being held in Ottawa, June ce with the use of pesticide producted.	e 2006, by tl	ne RRSG.	The wor	kshop's p	rimary focus		
]]]	Name of Phone:	tional Regulator and Country: Contact: e Number:							
2. Nam State/Pro		legislation that governs pesticide I and/or Country) and web site ad-				nforced by	y		
		ate all of the <u>authorities/powers</u> you to encourage USER compliance.		ark with '	'O"), or 1	related aut	horities		
		inspection		com	pliance ag	greement			
		investigation (suspect wrongdoing)	ng) reduction or recall of financial g			ancial grants			
		compliance promotion		detention/seizure					
		fines		stop	stop advertising				
		prosecution		stop	stop import				
		written/verbal warning		stop	use				
		revoke permit/licence/certification		othe	other activity (specify):				
4. Do you assess the <u>effectiveness of compliance programmes/activities</u> ? Please describe how this is done.									
		a <u>track data</u> on USER compliance and ted to other organizations?	d enforcemen	nt activities	s, please i	ndicate ho	w the results		
		-		How are the results provided?			provided?		
	Results Provided to Who? Not Provided Reports E-mail Web Other (Specification of the Company of th						Other (Specify)		

The following survey is being undertaken by the OECD Pesticide Risk Reduction Steering Group

(RRSG) during February to March 2006. The information gathered will inform governments and

		not capable of trends from data violation type enforcement action taken user group other (specify):	
		rank order, the <u>FIVE most frequent USER compliance problem</u> st frequent through to 5 for the less frequent.	ns in your jurisdiction,
USER Complia			Top 1 - 5 Only
Use of banned p			1 3
Use of imported	d products	that are not authorised	
Unregistered us	e of a regi	stered product	
Use contrary to	/inconsiste	ent with label directions (please indicate below):	
	- Perso	onal protective equipment	
	- Wind	i speed	
	- Buffe	er (to water, wells, sensitive habitat, etc.)	
	- Soil	Type / Depth to ground water	
	- Drift		
	- Rate	of application (Dose)	
	- Timi	ng of pre-harvest intervals	
	- Exce	eding number of applications allowed per season	
	- Labe	lled Crop / Site	
	Other	label directions:	
Unlicensed/Imp	roper licer	nsed applicator	
		onditions not met aside from on the label e.g. buffer zones, unauthorized ount used, unapproved area treated, etc.)	
Unsafe transpor	t (unlocke	d, contaminate food/feed, etc.)	
Unsafe storage	of product	s (unlocked, contaminate food/feed, etc.)	
Stocking of obs	olete prod	ucts	
Improper filling	g or cleanir	ng of sprayer equipment	
Improper dispos	sal of pesti	cides and/or pesticide containers	
Other major US	SER Comp	liance problem:	
7. Are us inform	•	crop/stock yield pest identified pesticides used application timing application area other (specify):	ease check all required

b) By what criteria, can the data be <u>searched for trends</u>?

8. Name the process used in your country to identify and select those USER compliance problems that represent the greatest risk to humans, the environment and/or to the integrity of the regulatory process? Is there a model that is used?